

# Oxford-Duden Pictorial English Dictionary with English Arabic Index

Oxford-Duden Pictorial Dictionaries provide clear and simple illustrated coverage of over 28,000 complex objects from every aspect of life today.

This dictionary is an invaluable guide to hundreds of different topics, including business, technology, finance, the environment, sport and entertainment, and the world that surrounds us.

~~Arabic-English and English-Arabic Index~~

~~أكثر من 28,000 كلمة من 11 مجالات مختلفة إلى جانب~~

~~مراجع لغوية عربية-إنجليزية وإنجليزية-عربية~~

~~بالإضافة إلى التغطية الواسعة لكل شيء في الحياة اليومية~~

~~بما في ذلك: التكنولوجيا، الاقتصاد، البيئة، الرياضة، الترفيه،~~

~~والعالم الذي يحيط بنا.~~

~~هذا القاموس هو دليل لا غنى عنه لآلاف الموضوعات المختلفة~~

~~بما في ذلك: التكنولوجيا، الاقتصاد، البيئة، الرياضة، الترفيه،~~

~~والعالم الذي يحيط بنا.~~

~~هذا القاموس هو دليل لا غنى عنه لآلاف الموضوعات المختلفة~~

## The World's Most Trusted Dictionaries

Oxford University Press is the world's leading dictionary-maker, publishing highly acclaimed bilingual dictionaries at every level, in over 40 different languages.

**OXFORD**

UNIVERSITY PRESS  
www.oup.com

**AskOxford** .COM

Oxford Dictionaries Passionate about language



ISBN 0-19-860703-2

Oxford  
Duden  
Pictorial

New

English Dictionary with English Arabic Index



OXFORD

# Oxford-Duden PICTORIAL ENGLISH Dictionary

with English Arabic Index

New



THE WORLD'S MOST TRUSTED DICTIONARIES

Great Clarendon Street, Oxford OX2 6DP

Oxford University Press is a department of the University of Oxford.  
It furthers the University's objective of excellence in research, scholarship,  
and education by publishing worldwide in

Oxford New York

Auckland Bangkok Buenos Aires Cape Town Chennai  
Dar es Salaam Delhi Hong Kong Istanbul Karachi Kolkata  
Kuala Lumpur Madrid Melbourne Mexico City Mumbai  
Nairobi São Paulo Shanghai Taipei Tokyo Toronto

Oxford is a registered trademark of Oxford University Press  
in the UK and in certain other countries

Published in the United States  
by Oxford University Press Inc, New York

© Illustrations: Bibliographisches Institut, Mannheim 1979, 1995, 2003  
© English text: Oxford University Press 1979, 1995, 2003  
© AVG & rutracker.cr 2017

All rights reserved. No part of this publication may be reproduced,  
stored in a retrieval system, or transmitted, in any form or by any means,  
without the prior permission in writing of Oxford University Press,  
or as expressly permitted by law, or under terms agreed with the appropriate  
reprographic rights organization. Enquiries concerning reproduction  
outside the scope of the above should be sent to the Rights Department,  
Oxford University Press, at the address above

The word 'DUDEN' is a registered trademark of the  
Bibliographisches Institut for books of any kind

British Library Cataloguing in Publication Data  
Data available

Library of Congress Cataloging in Publication Data  
Data available

ISBN 0 19 860201 4 (hardback)  
ISBN 0 19 860703 2 (paperback)

Pictorial English Dictionary edited by Michael Clark and Bernadette Mohan.  
Illustrations by Jochen Schmidt, Mannheim.  
Co-ordinating editors of the second edition: Michael Clark, Oxford and  
Werner Scholze-Stubenrecht, Mannheim.  
~~English-Arabic Index prepared by Mounira Gaber~~

10 9 8 7 6 5 4 3 2

Printed in Hong Kong

## CONTENTS

Full Contents

Oxford-Duden Pictorial English Dictionary

6-9  
10-671

### Guide to using the dictionary

The Pictorial English Dictionary, ~~English-Arabic index~~, and Contents are ordered  
thematically under the following topic headings:

- The Atom, the Universe, and the Earth
- Man and his Social environment
- Nature as Environment, Agriculture, and Forestry
- Trades, Crafts, and Industry
- Printing Industry
- Transport, Communications, and Information Technology
- Office, Bank, and Stock Exchange
- Community
- Recreation, Games, and Sport
- Entertainment, Culture, and Art
- Animals and Plants

### Abbreviations

|       |                           |
|-------|---------------------------|
| Am.   | <i>American usage</i>     |
| c.    | <i>castrated (animal)</i> |
| coll. | <i>colloquial</i>         |
| f.    | <i>female (animal)</i>    |
| form. | <i>formerly</i>           |
| joc.  | <i>jocular</i>            |
| m.    | <i>male (animal)</i>      |
| poet. | <i>poetic</i>             |
| sg.   | <i>singular</i>           |
| sim.  | <i>similar</i>            |
| y.    | <i>young (animal)</i>     |

# Contents

*The arabic numerals are the numbers of the pictures*

## Atom, Universe, Earth

Atom I 1  
Atom II 2  
Astronomy I 3  
Astronomy II 4  
Astronomy III 5  
Moon Landing 6  
Atmosphere 7  
Meteorology I 8  
Meteorology II and Climatology 9  
Meteorological Instruments 10  
Physical Geography I 11  
Physical Geography II 12  
Physical Geography III 13  
Map I 14  
Map II 15

## Man and his Social Environment

Man I 16  
Man II 17  
Man III 18  
Man IV 19  
Man V 20  
First Aid 21  
Doctor I 22  
Doctor II 23  
Dentist 24  
Hospital I 25  
Hospital II 26  
Hospital III 27  
Infant Care and Layette 28  
Children's Clothes 29  
Ladies' Wear I (Winter Wear) 30  
Ladies' Wear II (Summer Wear) 31  
Underwear, Nightwear 32  
Men's Wear 33  
Hairstyles and Beards 34  
Headgear 35  
Jewellery (*Am. Jewelry*) 36  
Types of Dwelling 37  
Roof and Boiler Room 38  
Kitchen 39  
Kitchen Utensils and Appliances 40  
Hall 41  
Living Room 42  
Bedroom 43  
Dining Room 44  
Tableware and Cutlery 45  
Flat (Apartment) 46

Children's Room (Nursery) 47  
Kindergarten (Day Nursery) 48  
Bathroom and Toilet 49  
Household Appliances and Utensils 50

## Nature as Environment, Agriculture, and Forestry

Flower Garden 51  
Fruit and Vegetable Garden 52  
Indoor Plants (Houseplants) 53  
Propagation of Plants 54  
Market Garden (*Am. Truck Garden, Truck Farm*) 55  
Garden Tools 56  
Vegetables (Vegetable Plants) 57  
Soft Fruit and Pomes 58  
Drupes and Nuts 59  
Garden Flowers 60  
Weeds 61  
Farm Buildings (*Am. Farmstead*) 62  
Agriculture (Farming) 63  
Agricultural Machinery I 64  
Agricultural Machinery II 65  
Agricultural Implements 66  
Overhead Irrigation 67  
Arable Crops 68  
Fodder Plants (Forage Plants) 69  
Breeds of Dog 70  
Horse I 71  
Horse II 72  
Domestic Animals 73  
Poultry Farming (Poultry Keeping), Egg Production 74  
Rearing (*Am. Raising*) of Livestock 75  
Dairy 76  
Bees and Beekeeping (Apiculture) 77  
Wine growing (Viniculture, Viticulture) 78  
Wine Cellar 79  
Garden and Field Pests 80  
House Insects, Food Pests, and Parasites 81  
Forest Pests 82  
Pest Control 83  
Forestry I 84  
Forestry II 85  
Hunting 86  
Hunting Weapons, Hunting Equipment 87  
Game 88  
Fish Farming (Fish Culture, Pisciculture) and Angling 89  
Sea Fishing 90

## Trades, Crafts, and Industry

Mills 91  
Malting and Brewing I 92  
Brewing II 93  
Slaughterhouse (Abattoir) 94  
Meat Joints 95  
Butcher's Shop 96  
Bakery 97  
Grocer's Shop (*Am. Grocery Store*) 98  
Supermarket 99  
Shoemaker (Bootmaker) 100  
Shoes (Footwear) 101  
Needlework 102  
Dressmaker 103  
Tailor 104  
Ladies' Hairdresser 105  
Men's Hairdresser (Barber) 106  
Tobacco and Smoking Requisites 107  
Goldsmith, Silversmith 108  
Watchmaker, Clockmaker 109  
Clocks and Watches 110  
Optician 111  
Optical Instruments I 112  
Optical Instruments II 113  
Photography I 114  
Photography II 115  
Photography III 116  
Cine Film 117  
Building Site (Construction Site) I 118  
Building Site (Construction Site) II 119  
Carpenter 120  
Roof, Timber Joints 121  
Roof and Roofer 122  
Floor, Ceiling, Staircase Construction 123  
Glazier 124  
Plumber 125  
Plumber, Gas Fitter, Heating Engineer 126  
Electrician 127  
Paperhanger 128  
Painter 129  
Cooper and Tank Construction Engineer 130  
Furrier 131  
Joiner I 132  
Joiner II 133  
Do-it-yourself 134  
Turner 135  
Basket Maker 136  
Blacksmith (Smith) I 137  
Blacksmith (Smith) II (Farm Vehicle Engineering) 138  
Hammer Forging (Smith Forging) and Drop Forging 139  
Metalworker 140  
Gas Welder 141  
Arc Welder 142  
Sections, Bolts, and Machine Parts 143  
Coal Mine 144

Mineral Oil (Oil, Petroleum) 145  
Offshore Drilling 146  
Iron and Steel Works 147  
Iron Foundry and Rolling Mill 148  
Machine Tools I 149  
Machine Tools II 150  
Drawing Office 151  
Power Plant (Power Station) I 152  
Power Plant (Power Station) II 153  
Nuclear Energy 154  
Modern Sources of Energy 155  
Coking Plant 156  
Sawmill 157  
Quarry 158  
Brickworks (Brickyard, Brickfield) 159  
Cement Works (Cement Factory) 160  
Porcelain and China Manufacture 161  
Glass Production 162  
Cotton Spinning I 163  
Cotton Spinning II 164  
Weaving I 165  
Weaving II 166  
Knitting 167  
Finishing of Textile Fabrics 168  
Synthetic (Man-made) Fibres (*Am. Fibers*) I 169  
Synthetic (Man-made) Fibres (*Am. Fibers*) II 170  
Weaves and Knits 171  
Papermaking I 172  
Papermaking II 173

## Printing Industry

Typesetting Room (Composing Room) I 174  
Typesetting Room (Composing Room) II 175  
Typesetting Room III (Phototypesetting, Photocomposition, Photosetting) 176  
Photomechanical Reproduction 177  
Electrotyping and Block Making 178  
Offset Platemaking 179  
Offset Printing 180  
Letterpress Printing 181  
Photogravure (Gravure Printing, Intaglio Printing) 182  
Bookbinding I 183  
Bookbinding II 184  
Bookbinding III 185

## Transport, Communications, and Information Technology

Horse-drawn Carriages 186  
Bicycle 187  
Motorcycles, Bicycles, Scooters, Mopeds 188  
Motorcycle 189  
Internal Combustion Engines 190  
Motor Car (*Am. Automobile*) I 191  
Motor Car (*Am. Automobile*) II 192

Motor Car (*Am. Automobile*) III 193  
 Lorries (*Am. Trucks*), Vans, Buses 194  
 Garage (*Am. Shop*) 195  
 Service Station 196  
 Tram (*Am. Streetcar, Trolley*),  
   Interurban Electric Train 197  
 Cross-section of a Street 198  
 Refuse Disposal (*Am. Garbage Disposition*),  
   Street Cleaning 199  
 Road Construction I (Road Building,  
   Road Making) 200  
 Road Construction II (Road Building,  
   Road Making) 201  
 Railway Line (*Am. Railroad Track*) I 202  
 Railway Line (*Am. Railroad Track*) II  
   (Signalling Equipment) 203  
 Station Concourse 204  
 Station Platform 205  
 Goods Station (Freight Depot) 206  
 Railway Vehicles (Rolling Stock) I 207  
 Railway Vehicles (Rolling Stock) II 208  
 Railway Vehicles (Rolling Stock) III 209  
 Railway Vehicles (Rolling Stock) IV 210  
 Railway Vehicles (Rolling Stock) V 211  
 Railway Vehicles (Rolling Stock) VI 212  
 Railway Vehicles (Rolling Stock) VII 213  
 Mountain Railways (*Am. Railroads*)  
   and Cableways 214  
 Bridges 215  
 Rivers and River Engineering 216  
 Waterway and Hydraulic Engineering 217  
 Types of Historical Ship 218  
 Sailing Ship I 219  
 Sailing Ship II 220  
 Types of Ship 221  
 Shipbuilding 222  
 Motor Ship 223  
 Navigation 224  
 Docks, Port, Harbour (*Am. Harbor*) I 225  
 Docks, Port, Harbour (*Am. Harbor*) II 226  
 Salvage (Salving) and Towage 227  
 Life Saving 228  
 Aircraft I 229  
 Aircraft II 230  
 Aircraft III 231  
 Aircraft IV 232  
 Airport 233  
 Space Flight I 234  
 Space Flight II 235  
 Post Office I 236  
 Post Office II (Telecommunications) 237  
 Broadcasting (Radio and Television) I 238  
 Broadcasting (Radio and Television) II 239  
 Broadcasting III (Television Engineering) 240  
 Music Systems (Audio Systems) I 241  
 Music Systems (Audio Systems) II 242  
 Video Equipment 243

Personal Computer (PC) 244

#### Office, Bank, Stock Exchange

Office I 245  
 Office II 246  
 Office III 247  
 Office IV 248  
 Office V 249  
 Bank 250  
 Stock Exchange 251

#### Community

Money (Coins and Notes,  
   *Am. Coins and Bills*) 252  
 Flags 253  
 Heraldry, Crowns and Coronets 254  
 Armed Forces I (Army) 255  
 Armed Forces II (Air Force I) 256  
 Armed Forces III (Air Force II) 257  
 Warships I 258  
 Warships II (Modern Fighting Ships) 259  
 School I (Primary School) 260  
 School II (Secondary School, High School) 261  
 University 262  
 Election 263  
 Police 264  
 Café 265  
 Restaurant 266  
 Hotel 267  
 Town (Town Centre, *Am. Downtown*) 268  
 Water Supply 269  
 Fire Service (*Am. Fire Department*) 270  
 Department Store 271  
 Park 272

#### Recreation, Games, Sport

Children's Playground 273  
 Spa 274  
 Roulette 275  
 Board Games and Party Games 276  
 Billiards 277  
 Camping and Caravanning  
   (*Am. Trailing*) 278  
 Surf Riding (Surfing), Skin Diving 279  
 Bathing Beach 280  
 Swimming Bath (Leisure Centre,  
   *Am. Center*) 281  
 Swimming 282  
 Rowing and Canoeing 283  
 Sailing I 284  
 Sailing II 285  
 Motorboats (Powerboats), Water Skiing 286  
 Gliding (Soaring) 287  
 Aerial Sports (Airports) 288  
 Horsemanship, Equestrian Sport 289  
 Cycle Racing and Motorsports 290

Ball Games I (Football, Association Football,  
   Soccer) 291  
 Ball Games II 292  
 Ball Games III 293  
 Fencing 294  
 Free Exercise 295  
 Apparatus Gymnastics I 296  
 Apparatus Gymnastics II (Women's  
   Gymnastics) 297  
 Athletics (Track and Field Events) 298  
 Weightlifting and Combat Sports 299  
 Mountaineering 300  
 Winter Sports I (Skiing) 301  
 Winter Sports II 302  
 Winter Sports III 303  
 Countryside in Winter 304  
 Various Sports 305

#### Entertainment, Culture, and Art

Carnival 306  
 Circus 307  
 Fair, Fairground 308  
 Flea Market 309  
 Films (Motion Pictures) I 310  
 Films (Motion Pictures) II 311  
 Films (Motion Pictures) III 312  
 Films (Motion Pictures) IV 313  
 Ballet 314  
 Theatre (*Am. Theater*) I 315  
 Theatre (*Am. Theater*) II 316  
 Discotheque 317  
 Nightclub 318  
 Bullfighting, Rodeo 319  
 Musical Notation I 320  
 Musical Notation II 321  
 Musical Instruments I 322  
 Musical Instruments II 323  
 Musical Instruments III 324  
 Musical Instruments IV 325  
 Musical Instruments V 326  
 Fabulous Creatures (Fabled Beings) 327  
 Prehistory 328  
 Chivalry 329  
 Church I 330  
 Church II 331  
 Church III 332  
 Art I 333  
 Art II 334  
 Art III 335  
 Art IV 336  
 Art V 337  
 Artist's Studio 338  
 Sculptor's Studio 339

Graphic Art 340  
 Script I 341  
 Script II 342  
 Colour (*Am. Color*) 343  
 Mathematics I 344  
 Mathematics II 345  
 Mathematics III (Geometry I) 346  
 Mathematics IV (Geometry II) 347  
 Mathematics V (Sets) 348  
 Chemistry Laboratory I 349  
 Chemistry Laboratory II 350  
 Crystals, Crystallography 351  
 Ethnology I 352  
 Ethnology II 353  
 Ethnology III 354  
 Historical Costumes 355

#### Animals and Plants

Zoo (Zoological Gardens) 356  
 Invertebrates 357  
 Arthropods 358  
 Birds I 359  
 Birds II (Indigenous Birds, Endemic Birds) 360  
 Birds III (Passerines) 361  
 Birds IV (Birds of Prey) 362  
 Birds V (Exotic Birds) 363  
 Fish, Amphibia, and Reptiles 364  
 Lepidoptera (Butterflies and Moths) 365  
 Mammals I 366  
 Mammals II 367  
 Mammals III 368  
 Deep-sea Fauna 369  
 General Botany 370  
 Deciduous Trees 371  
 Conifers 372  
 Ornamental Shrubs and Trees I 373  
 Ornamental Shrubs and Trees II 374  
 Meadow Flowers and Wayside Flowers  
   (Wild Flowers) I 375  
 Meadow Flowers and Wayside Flowers  
   (Wild Flowers) II 376  
 Plants of Forest, Marsh, and Heathland 377  
 Alpine Plants, Aquatic Plants (Water Plants),  
   and Marsh Plants 378  
 Poisonous Plants 379  
 Medicinal Plants 380  
 Edible Fungi (Edible Fungi) 381  
 Tropical Plants used as Stimulants, Spices,  
   and Flavourings (*Am. Flavorings*) 382  
 Plants used in Industry 383  
 Southern Fruits (Tropical, Subtropical,  
   and Mediterranean Fruits) 384



**1-8 atom models**

- 1 model of the hydrogen (H) atom
- 2 atomic nucleus, a proton
- 3 electron
- 4 electron spin
- 5 model of the helium (He) atom
- 6 electron shell
- 7 Pauli exclusion principle (exclusion principle, Pauli principle)
- 8 complete electron shell of the Na atom (sodium atom)

**9-14 molecular structures (lattice structures)**

- 9 crystal of sodium chloride (of common salt)
- 10 chlorine ion
- 11 sodium ion
- 12 crystal of cristobalite
- 13 oxygen atom
- 14 silicon atom

**15 energy level diagram (term diagram, possible quantum jumps) of the hydrogen atom**

- 16 atomic nucleus (proton)
- 17 electron
- 18 ground state level
- 19 excited state

**20-25 quantum jumps (quantum transitions)**

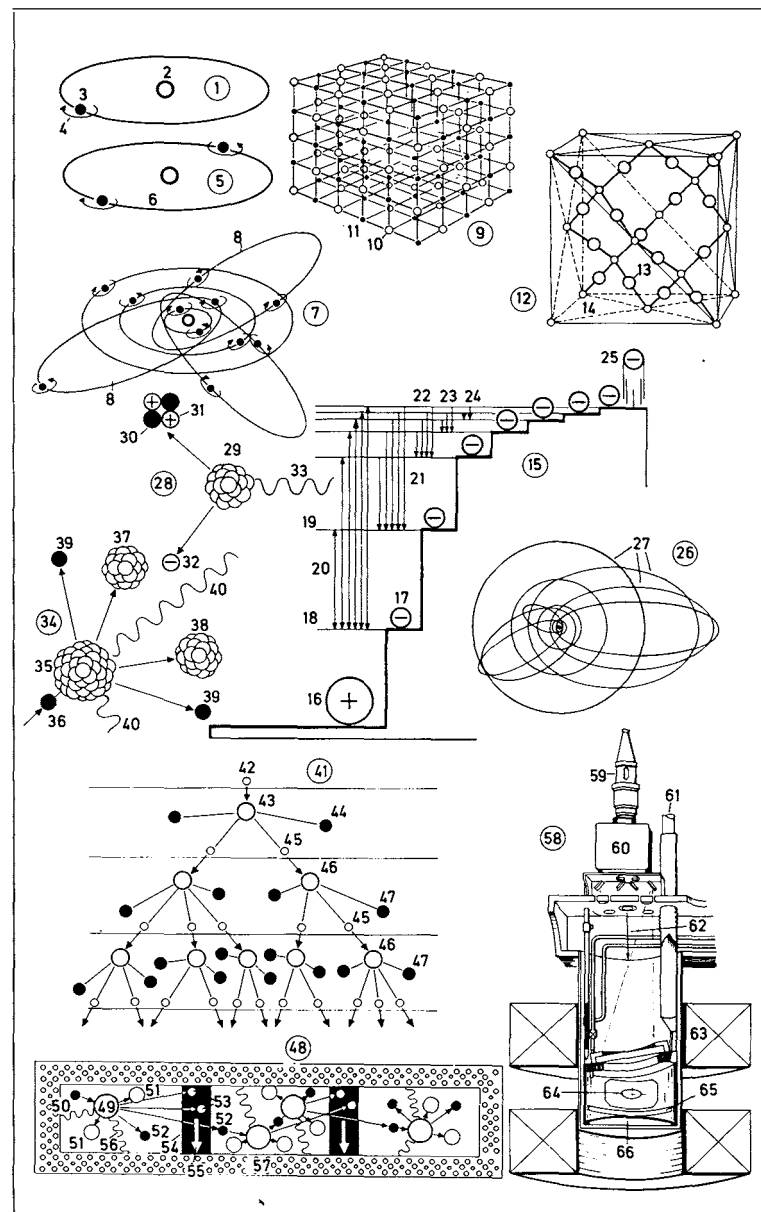
- 20 Lyman series
- 21 Balmer series
- 22 Paschen series
- 23 Brackett series
- 24 Pfund series
- 25 free electron
- 26 Bohr-Sommerfeld model of the H atom

**27 electron orbits of the electron**

- 28 **spontaneous decay** of radioactive material
- 29 atomic nucleus
- 30, 31 alpha ( $\alpha$ ) particle (alpha ray, helium nucleus)
- 30 neutron
- 31 proton
- 32 beta ( $\beta$ ) particle (beta ray, electron)

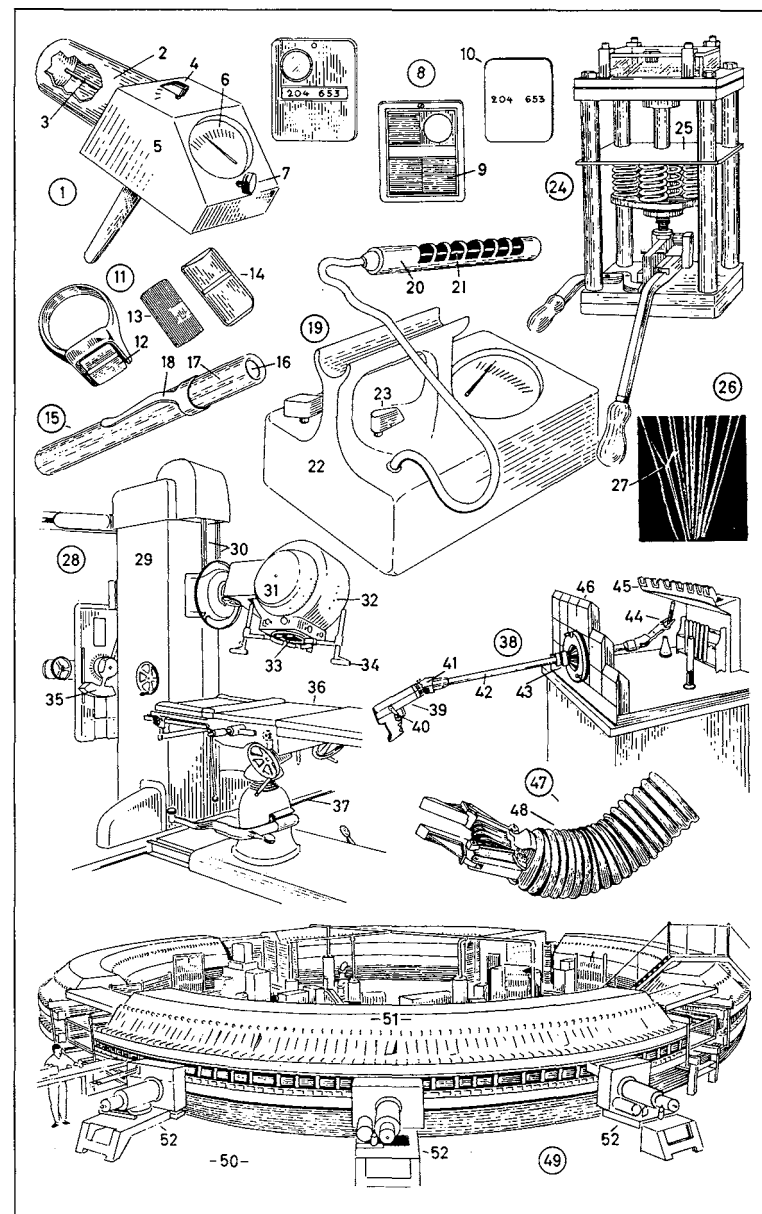
**33 gamma ( $\gamma$ ) ray, a hard X-ray**

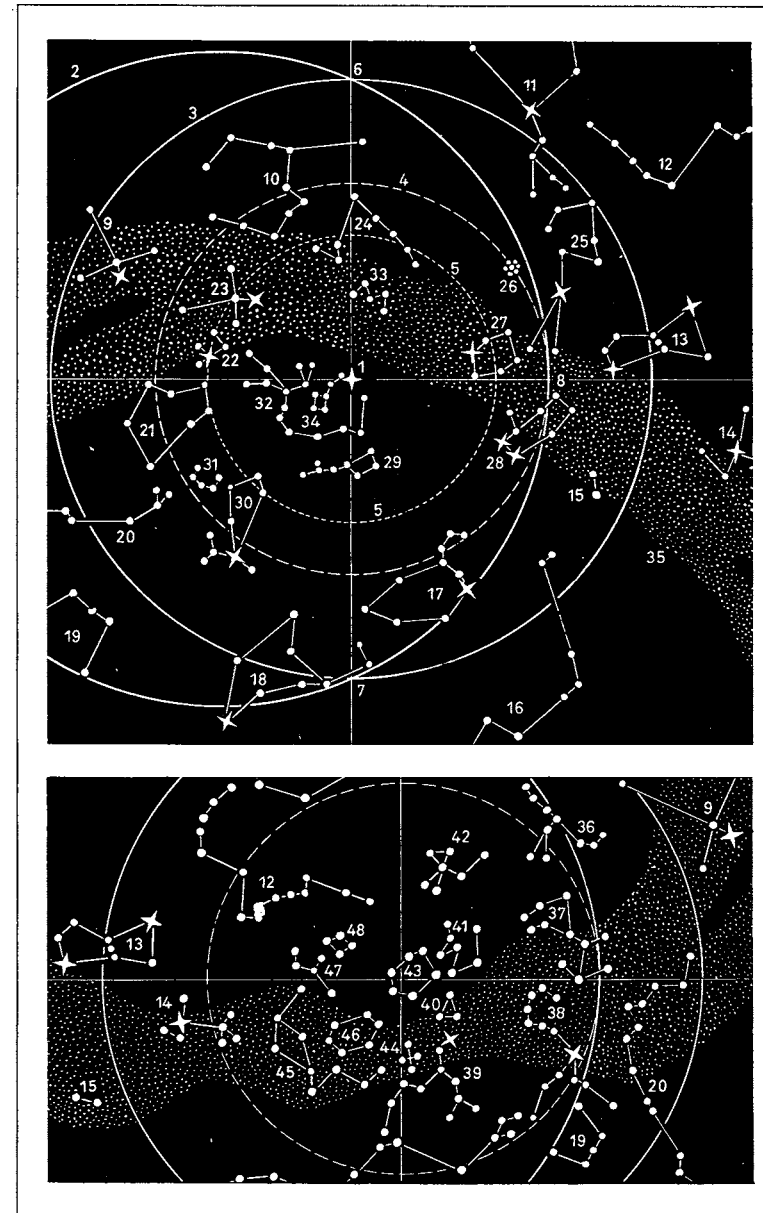
- 34 **nuclear fission**
- 35 heavy atomic nucleus
- 36 neutron bombardment
- 37, 38 fission fragments
- 39 released neutron
- 40 gamma ( $\gamma$ ) ray
- 41 **chain reaction**
- 42 incident neutron
- 43 nucleus prior to fission
- 44 fission fragment
- 45 released neutron
- 46 repeated fission
- 47 fission fragment
- 48 **controlled chain reaction in a nuclear reactor**
- 49 atomic nucleus of a fissionable element
- 50 neutron bombardment
- 51 fission fragment (new atomic nucleus)
- 52 released neutron
- 53 absorbed neutrons
- 54 moderator, a retarding layer of graphite
- 55 extraction of heat (production of energy)
- 56 X-ray
- 57 concrete and lead shield
- 58 **bubble chamber** for showing the tracks of high-energy ionizing particles
- 59 light source
- 60 camera
- 61 expansion line
- 62 path of light rays
- 63 magnet
- 64 beam entry point
- 65 reflector
- 66 chamber



- 1-23 radiation detectors** (radiation meters)
- 1 radiation monitor
  - 2 ionization chamber (ion chamber)
  - 3 central electrode
  - 4 measurement range selector
  - 5 instrument housing
  - 6 meter
  - 7 zero adjustment
  - 8-23 dosimeter** (dosemeter)
  - 8 film dosimeter
  - 9 filter
  - 10 film
  - 11 film-ring dosimeter
  - 12 filter
  - 13 film
  - 14 cover with filter
  - 15 pocket meter (pen meter, pocket chamber)
  - 16 window
  - 17 ionization chamber (ion chamber)
  - 18 clip (pen clip)
  - 19 Geiger counter (Geiger-Müller counter)
  - 20 counter tube casing
  - 21 counter tube
  - 22 instrument housing
  - 23 measurement range selector
  - 24 Wilson cloud chamber** (Wilson chamber)
  - 25 compression plate
  - 26 cloud chamber photograph
  - 27 cloud chamber track of an alpha particle
  - 28 telecobalt unit** (*coll. cobalt bomb*)
  - 29 pillar stand
  - 30 support cables
  - 31 radiation shield (radiation shielding)
  - 32 sliding shield
  - 33 bladed diaphragm
  - 34 light-beam positioning device
  - 35 pendulum device (pendulum)
  - 36 irradiation table
  - 37 rail (track)
  - 38 manipulator with sphere unit**

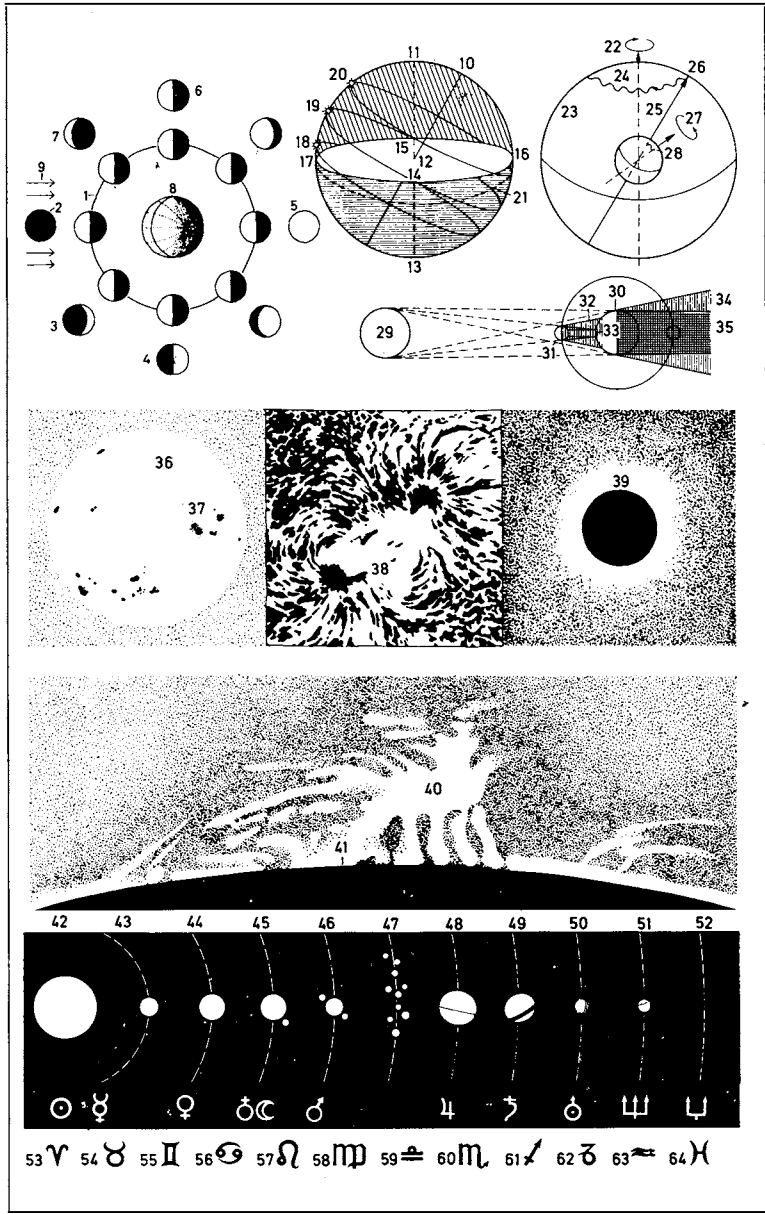
- 39 handle
- 40 safety catch (locking lever)
- 41 wrist joint
- 42 master arm
- 43 clamping device (clamp)
- 44 tongs
- 45 slotted board
- 46 radiation shield (protective shield, protective shielding), a lead shielding wall [section]
- 47 grasping arm of a pair of manipulators (of a master/slave manipulator)
- 48 dust shield
- 49 synchrotron**
- 50 danger zone
- 51 magnet
- 52 pumps for emptying the vacuum chamber



**1-35 star map of the northern sky**  
(northern hemisphere)**1-8 divisions of the sky****1** celestial pole with the Pole Star  
(Polaris, the North Star)**2** ecliptic (apparent annual path of  
the sun)**3** celestial equator (equinoctial line)**4** tropic of Cancer**5** circle enclosing circumpolar stars**6, 7** equinoctial points (equinoxes)**6** vernal equinoctial point (first point  
of Aries)**7** autumnal equinoctial point**8** summer solstice**9-48 constellations** (grouping of fixed  
stars into figures) **and names of  
stars****9** Aquila (the Eagle) with Altair the  
principal star (the brightest star)**10** Pegasus (the Winged Horse)**11** Cetus (the Whale) with Mira, a  
variable star**12** Eridanus (the Celestial River)**13** Orion (the Hunter) with Rigel,  
Betelgeuse and Bellatrix**14** Canis Major (the Great Dog, the  
Greater Dog) with Sirius (the Dog  
Star), a star of the first magnitude**15** Canis Minor (the Little Dog, the  
Lesser Dog) with Procyon**16** Hydra (the Water Snake, the Sea  
Serpent)**17** Leo (the Lion) with Regulus**18** Virgo (the Virgin) with Spica**19** Libra (the Balance, the Scales)**20** Serpens (the Serpent)**21** Hercules**22** Lyra (the Lyre) with Vega**23** Cygnus (the Swan, the Northern  
Cross) with Deneb**24** Andromeda**25** Taurus (the Bull) with Aldebaran**26** The Pleiades (Pleiads, the Seven  
Sisters), an open cluster of stars**27** Auriga (the Wagoner, the  
Charioteer) with Capella**28** Gemini (the Twins) with Castor  
and Pollux**29** Ursa Major (the Great Bear, the  
Greater Bear, the Plough,  
Charles's Wain, *Am.* the Big  
Dipper) with the double star (bina-  
ry star) Mizar and Alcor**30** Boötes (the Herdsman) with  
Arcturus**31** Corona Borealis (the Northern  
Crown)**32** Draco (the Dragon)**33** Cassiopeia**34** Ursa Minor (the Little Bear,  
Lesser Bear, *Am.* Little Dipper)  
with the Pole Star (Polaris, the  
North Star)**35** the Milky Way (the Galaxy)**36-48 the southern sky****36** Capricorn (the Goat, the Sea  
Goat)**37** Sagittarius (the Archer)**38** Scorpio (the Scorpion)**39** Centaurus (the Centaur)**40** Triangulum Australe (the  
Southern Triangle)**41** Pavo (the Peacock)**42** Grus (the Crane)**43** Octans (the Octant)**44** Crux (the Southern Cross, the  
Cross)**45** Argo (the Celestial Ship)**46** Carina (the Keel)**47** Pictor (the Painter)**48** Reticulum (the Net)

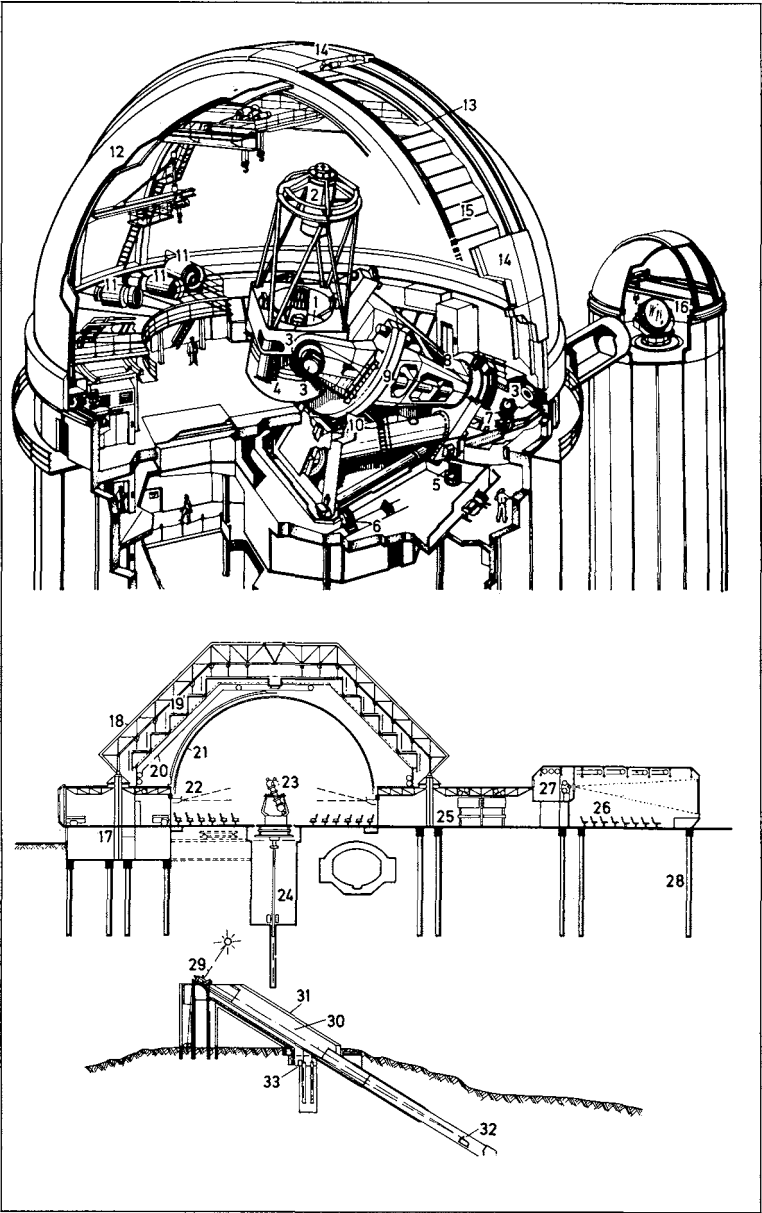
- 1-9 the moon
- 1 moon's path (moon's orbit round the earth)
- 2-7 lunar phases (moon's phases) (lunation)
- 2 new moon
- 3 crescent (crescent moon, waxing moon)
- 4 half-moon (first quarter)
- 5 full moon
- 6 half-moon (last quarter, third quarter)
- 7 crescent (crescent moon, waning moon)
- 8 the earth (terrestrial globe)
- 9 direction of the sun's rays
- 10-21 apparent path of the sun at the beginning of the seasons
- 10 celestial axis
- 11 zenith
- 12 horizontal plane
- 13 nadir
- 14 east point
- 15 west point
- 16 north point
- 17 south point
- 18 apparent path of the sun on 21 December
- 19 apparent path of the sun on 21 March and 23 September
- 20 apparent path of the sun on 21 June
- 21 border of the twilight area
- 22-28 rotary motions of the earth's axis
- 22 axis of the ecliptic
- 23 celestial sphere
- 24 path of the celestial pole [precession and nutation]
- 25 instantaneous axis of rotation
- 26 celestial pole
- 27 mean axis of rotation
- 28 polhode
- 29-35 solar and lunar eclipse [not to scale]
- 29 the sun
- 30 the earth
- 31 the moon

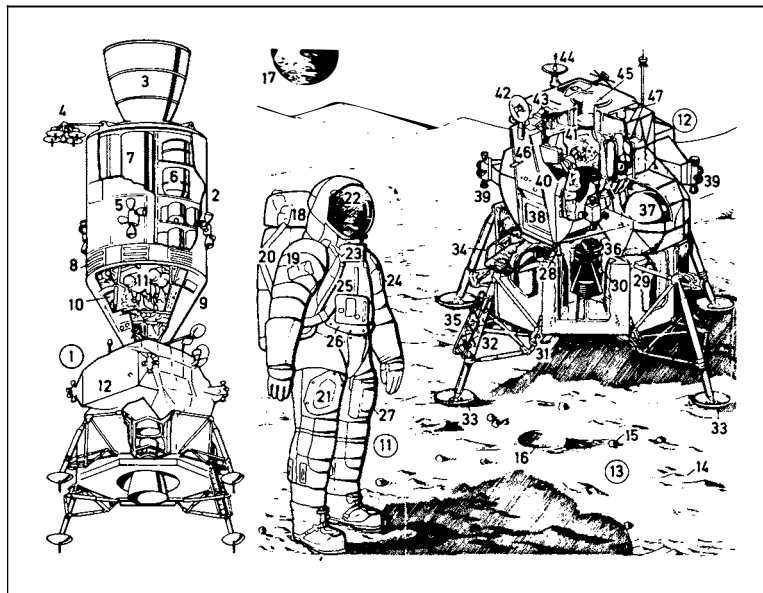
- 32 solar eclipse
- 33 area of the earth in which the eclipse appears total
- 34, 35 lunar eclipse
- 34 penumbra (partial shadow)
- 35 umbra (total shadow)
- 36-41 the sun
- 36 solar disc (disk) (solar globe, solar sphere)
- 37 sunspots
- 38 cyclones in the area of sunspots
- 39 corona (solar corona), observable during total solar eclipse or by means of special instruments
- 40 prominences (solar prominences)
- 41 moon's limb during a total solar eclipse
- 42-52 planets (planetary system, solar system) [not to scale] and planet symbols
- 42 the sun
- 43 Mercury
- 44 Venus
- 45 Earth, with the moon, a satellite
- 46 Mars, with two moons
- 47 asteroids (minor planets)
- 48 Jupiter
- 49 Saturn
- 50 Uranus
- 51 Neptune
- 52 Pluto, with the moon Charon
- 53-64 signs of the zodiac (zodiacal signs)
- 53 Aries (the Ram)
- 54 Taurus (the Bull)
- 55 Gemini (the Twins)
- 56 Cancer (the Crab)
- 57 Leo (the Lion)
- 58 Virgo (the Virgin)
- 59 Libra (the Balance, the Scales)
- 60 Scorpio (the Scorpion)
- 61 Sagittarius (the Archer)
- 62 Capricorn (the Goat, the Sea Goat)
- 63 Aquarius (the Water Carrier, the Water Bearer)
- 64 Pisces (the Fish)



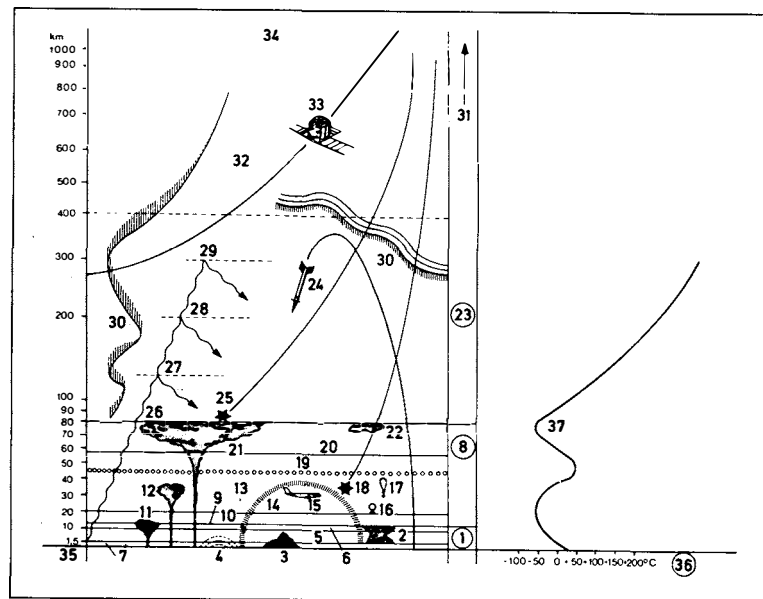


- 1-16 the European Southern Observatory (ESO) on *Cerro la Silla, Chile*, an observatory [section]
- 1 primary mirror (main mirror) with a diameter of 3.6 m (144 inches)
  - 2 prime focus cage with mounting for secondary mirrors
  - 3 flat mirror for the coudé ray path
  - 4 Cassegrain cage
  - 5 grating spectrograph
  - 6 spectrographic camera
  - 7 hour axis drive
  - 8 hour axis
  - 9 horseshoe mounting
  - 10 hydrostatic bearing
  - 11 primary and secondary focusing devices
  - 12 observatory dome, a revolving dome
  - 13 observation opening
  - 14 vertically movable dome shutter
  - 15 wind screen
  - 16 siderostat
- 17-28 the *Stuttgart Planetary* [section]
- 17 administration, workshop, and store area
  - 18 steel scaffold
  - 19 glass pyramid
  - 20 revolving arched ladder
  - 21 projection dome
  - 22 light stop
  - 23 planetarium projector
  - 24 well
  - 25 foyer
  - 26 theatre (*Am. theater*)
  - 27 projection booth
  - 28 foundation pile
- 29-33 the *Kitt Peak* solar observatory near *Tucson, Ariz.* [section]
- 29 heliostat
  - 30 sunken observation shaft
  - 31 water-cooled windshield
  - 32 concave mirror
  - 33 observation room housing the spectrograph





- |  |   |
|--|---|
| 1 Apollo spacecraft  | 24 penlight pocket  |
| 2 service module (SM)  | 25 access flap for the purge valve  |
| 3 nozzle of the main rocket engine                             | 26 tube and cable connections for the radio, ventilation, and water-cooling systems |
| 4 directional antenna  | 27 pocket for pens, tools, etc.   |
| 5 manoeuvring ( <i>Am.</i> maneuvering) rockets                | 28-36 descent stage   |
| 6 oxygen and hydrogen tanks for the spacecraft's energy system | 28 connector  |
| 7 fuel tank  | 29 fuel tank  |
| 8 radiators of the spacecraft's energy system                  | 30 engine   |
| 9 command module (Apollo space capsule)                        | 31 mechanism for unfolding the legs   |
| 10 entry hatch of the space capsule                            | 32 main shock absorber  |
| 11 astronaut   | 33 landing pad  |
| 12 lunar module (LM)   | 34 ingress/egress platform (hatch platform)   |
| 13 moon's surface (lunar surface), a dust-covered surface      | 35 ladder to platform and hatch   |
| 14 lunar dust  | 36 cardan mount for engine  |
| 15 piece of rock   | 37-47 ascent stage  |
| 16 meteorite crater  | 37 fuel tank  |
| 17 the earth   | 38 ingress/egress hatch (entry/exit hatch)  |
| 18-27 space suit (extra-vehicular suit)                        | 39 LM manoeuvring ( <i>Am.</i> maneuvering) rockets                                 |
| 18 emergency oxygen apparatus                                  | 40 window   |
| 19 sunglass pocket [with sunglasses for use on board]          | 41 crew compartment   |
| 20 life support system (life support pack), a backpack unit    | 42 rendezvous radar antenna   |
| 21 access flap   | 43 inertial measurement unit  |
| 22 space suit helmet with sun filters                          | 44 directional antenna for ground control   |
| 23 control box of the life support pack                        | 45 upper hatch (docking hatch)  |
|  | 46 inflight antenna   |
|  | 47 docking target recess  |



- |  |   |
|--|---|
| 1 the troposphere                                      | 20 zero level                             |
| 2 thunderclouds  | 21 eruption of Krakatoa                   |
| 3 the highest mountain, <i>Mount Everest</i> [8,882 m] | 22 luminous clouds (noctilucent clouds)   |
| 4 rainbow  | 23 the ionosphere                         |
| 5 jet stream level                                     | 24 range of research rockets              |
| 6 zero level [inversion of vertical air movement]      | 25 shooting star                          |
| 7 ground layer (surface boundary layer)                | 26 short wave (high frequency)            |
| 8 the stratosphere                                     | 27 E-layer (Heaviside-Kennelly Layer)     |
| 9 tropopause   | 28 F <sub>1</sub> -layer                  |
| 10 separating layer (layer of weaker air movement)     | 29 F <sub>2</sub> -layer                  |
| 11 atomic explosion                                    | 30 aurora (polar light)                   |
| 12 hydrogen bomb explosion                             | 31 the exosphere                          |
| 13 ozone layer   | 32 atom layer                             |
| 14 range of sound wave propagation                     | 33 range of satellite sounding            |
| 15 stratosphere aircraft                               | 34 fringe region                          |
| 16 manned balloon                                      | 35 altitude scale                         |
| 17 sounding balloon                                    | 36 temperature scale (thermometric scale) |
| 18 meteor  | 37 temperature graph                      |
| 19 upper limit of ozone layer                          |   |

# 8 Meteorology I

## 1-19 clouds and weather

### 1-4 clouds found in homogeneous air masses

- 1 cumulus (woolpack cloud), a heap cloud; *here*: cumulus humilis (fair-weather cumulus), a flat-based heap cloud
- 2 cumulus congestus, a heap cloud with more marked vertical development
- 3 stratocumulus, a layer cloud (sheet cloud) arranged in heavy masses
- 4 stratus (high fog), a thick, uniform layer cloud (sheet cloud)

### 5-12 clouds found at warm fronts

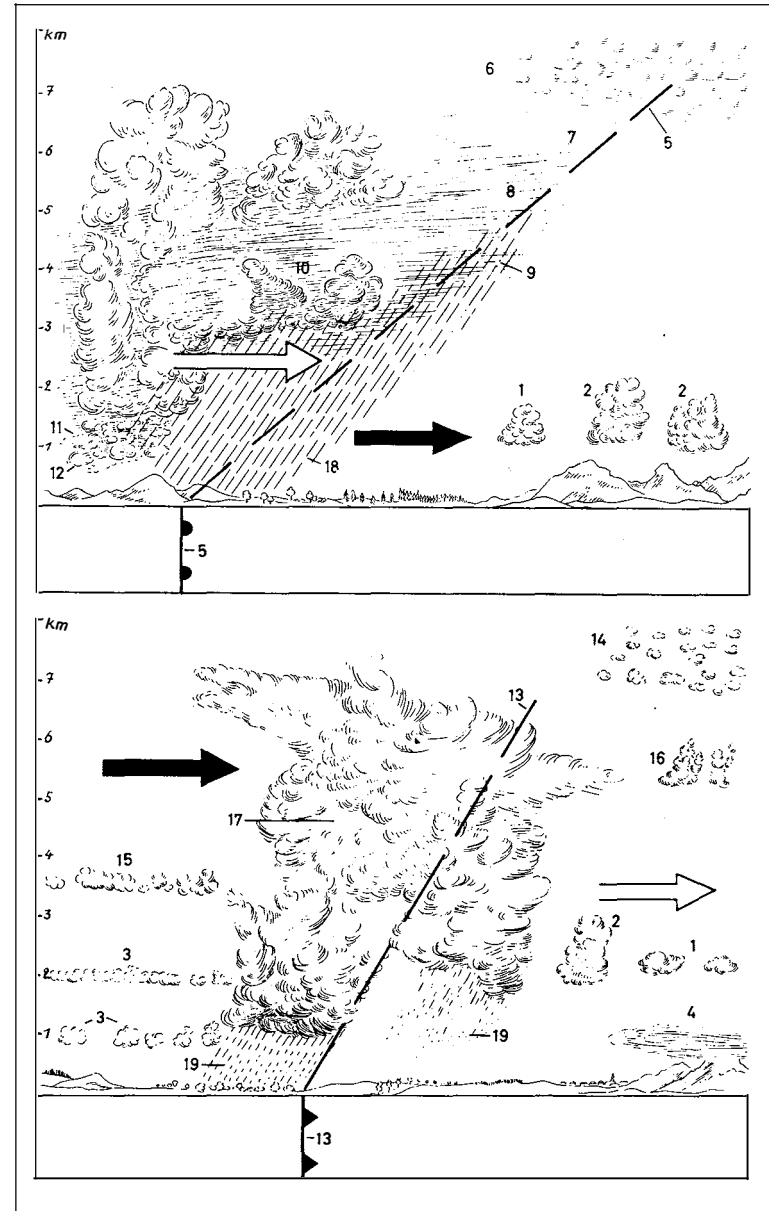
- 5 warm front
- 6 cirrus, a high to very high ice-crystal cloud, thin and assuming a wide variety of forms
- 7 cirrostratus, an ice-crystal cloud veil
- 8 altostratus, a layer cloud (sheet cloud) of medium height
- 9 altostratus praecipitans, a layer cloud (sheet cloud) with precipitation in its upper parts
- 10 nimbostratus, a rain cloud, a layer cloud (sheet cloud) of very large vertical extent which produces precipitation (rain or snow)
- 11 fractostratus, a ragged cloud occurring beneath nimbostratus
- 12 fractocumulus, a ragged cloud like 11 but with billowing shapes

### 13-17 clouds at cold fronts

- 13 cold front
- 14 cirrocumulus, thin fleecy cloud in the form of globular masses; *covering the sky*: mackerel sky
- 15 altocumulus, a cloud in the form of large globular masses
- 16 altocumulus castellanus and altocumulus floccus, species of 15
- 17 cumulonimbus, a heap cloud of very large vertical extent, to be classified under 1-4 in the case of tropical storms

## 18-19 types of precipitation

- 18 steady rain or snow covering a large area, precipitation of uniform intensity
- 19 shower, scattered precipitation

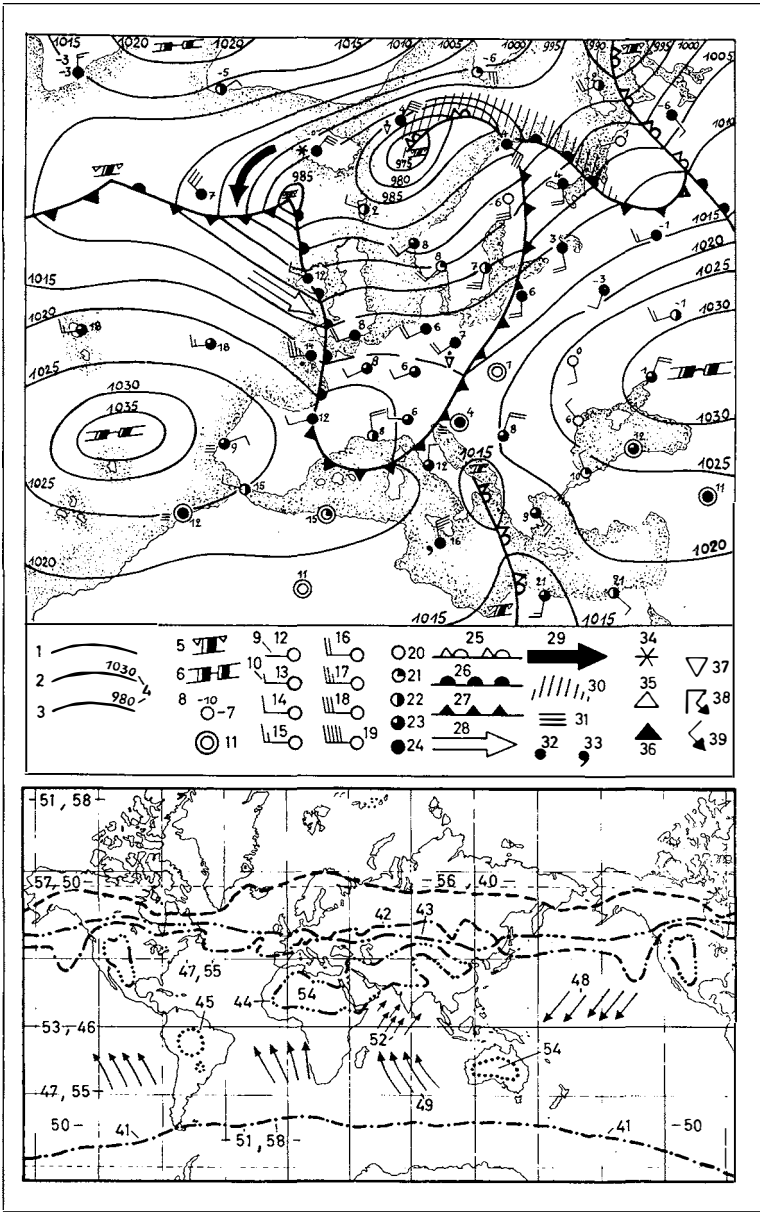


black arrow = cold air

white arrow = warm air

- 1-39 **weather chart** (weather map, surface chart, surface synoptic chart)
- 1 isobar (line of equal or constant atmospheric or barometric pressure at sea level)
- 2 pleiobar (isobar of over 1,000 mb)
- 3 meiobar (isobar of under 1,000 mb)
- 4 atmospheric (barometric) pressure given in millibars
- 5 low-pressure area (low, cyclone, depression)
- 6 high-pressure area (high, anticyclone)
- 7 observatory (meteorological watch office, weather station) or ocean station vessel (weather ship)
- 8 temperature
- 9-19 **means of representing wind direction** (wind-direction symbols)
- 9 wind-direction shaft (wind arrow)
- 10 wind-speed barb (wind-speed feather) indicating wind speed
- 11 calm
- 12 1-2 knots (1 knot = 1.852 kph)
- 13 3-7 knots
- 14 8-12 knots
- 15 13-17 knots
- 16 18-22 knots
- 17 23-27 knots
- 18 28-32 knots
- 19 58-62 knots
- 20-24 **state of the sky** (distribution of the cloud cover)
- 20 clear (cloudless)
- 21 fair
- 22 partly cloudy
- 23 cloudy
- 24 overcast (sky mostly or completely covered)
- 25-29 **fronts and air currents**
- 25 occlusion (occluded front)
- 26 warm front
- 27 cold front
- 28 warm airstream (warm current)
- 29 cold airstream (cold current)
- 30-39 **meteorological phenomena**
- 30 precipitation area
- 31 fog
- 32 rain
- 33 drizzle

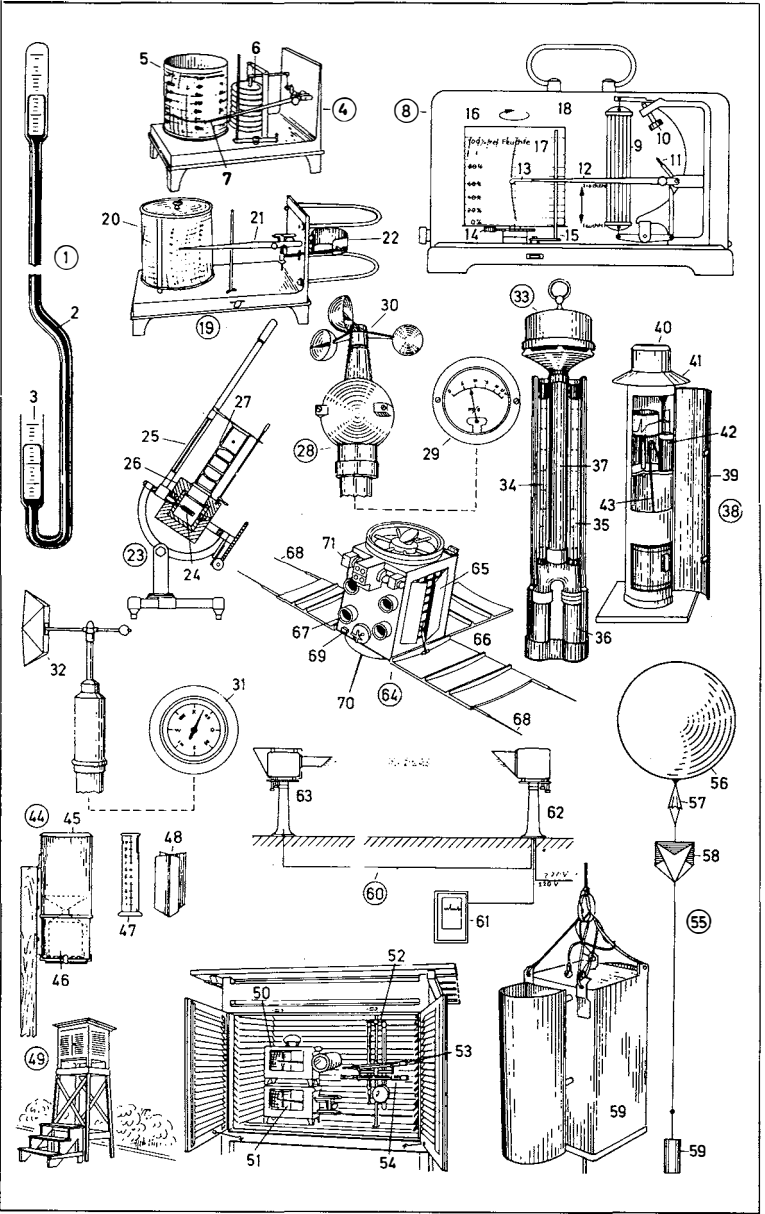
- 34 snow
- 35 ice pellets (graupel, soft hail)
- 36 hail
- 37 shower
- 38 thunderstorm
- 39 lightning
- 40-58 **climatic map**
- 40 isotherm (line connecting points having equal mean temperature)
- 41 0 ° C (zero) isotherm (line connecting points having a mean annual temperature of 0 ° C)
- 42 isocheim (line connecting points having equal mean winter temperature)
- 43 isother (line connecting points having equal mean summer temperature)
- 44 isohel (line connecting points having equal duration of sunshine)
- 45 isohyet (line connecting points having equal amounts of precipitation)
- 46-52 **atmospheric circulation** (wind systems)
- 46-47 calm belts
- 46 equatorial trough (equatorial calms, doldrums)
- 47 subtropical high-pressure belts (horse latitudes)
- 48 north-east trade winds (north-east trades, tropical easterlies)
- 49 south-east trade winds (south-east trades, tropical easterlies)
- 50 zones of the variable westerlies
- 51 polar wind zones
- 52 summer monsoon
- 53-58 **earth's climates**
- 53 equatorial climate: tropical zone (tropical rain zone)
- 54 the two arid zones (equatorial dry zones): desert and steppe zones
- 55 the two temperate rain zones
- 56 boreal climate (snow forest climate)
- 57, 58 polar climates
- 57 tundra climate
- 58 perpetual frost climate





- 1 mercury barometer, a siphon barometer, a liquid-column barometer
- 2 mercury column
- 3 millibar scale, a millimetre (*Am.* millimeter) scale
- 4 barograph, a self-registering aneroid barometer
- 5 drum (recording drum)
- 6 bank of aneroid capsules (aneroid boxes)
- 7 recording arm
- 8 hygrograph
- 9 hygrometer element (hair element)
- 10 reading adjustment
- 11 amplitude adjustment
- 12 recording arm
- 13 recording pen
- 14 change gears for the clockwork drive
- 15 off switch for the recording arm
- 16 drum (recording drum)
- 17 time scale
- 18 case (housing)
- 19 thermograph
- 20 drum (recording drum)
- 21 recording arm
- 22 sensing element
- 23 silver-disc (silver-disk) pyrheliometer, an instrument for measuring the sun's radiant energy
- 24 silver disc (disk)
- 25 thermometer
- 26 wooden insulating casing (diaphragmed tube)
- 27 tube with diaphragm (diaphragmed tube)
- 28 wind gauge (*Am. gage*) (anemometer)
- 29 wind-speed indicator (wind-speed meter)
- 30 cross arms with hemispherical cups
- 31 wind-direction indicator
- 32 wind vane
- 33 aspiration psychrometer
- 34 dry bulb thermometer
- 35 wet bulb thermometer
- 36 solar radiation shielding

- 37 suction tube
- 38 recording rain gauge (*Am. gage*)
- 39 protective housing (protective casing)
- 40 collecting vessel
- 41 rain cover
- 42 recording mechanism
- 43 siphon tube
- 44 precipitation gauge (*Am. gage*) (rain gauge)
- 45 collecting vessel
- 46 storage vessel
- 47 measuring glass
- 48 insert for measuring snowfall
- 49 thermometer screen (thermometer shelter)
- 50 hygrograph
- 51 thermograph
- 52 psychrometer (wet and dry bulb thermometer)
- 53, 54 thermometers for measuring extremes of temperature
- 53 maximum thermometer
- 54 minimum thermometer
- 55 radiosonde assembly
- 56 hydrogen balloon
- 57 parachute
- 58 radar reflector with spacing lines
- 59 instrument housing with radiosonde [a short-wave transmitter] and antenna
- 60 transmissometer, an instrument for measuring visibility
- 61 recording instrument (recorder)
- 62 transmitter
- 63 receiver
- 64 weather satellite (ITOS satellite)
- 65 temperature regulation flaps
- 66 solar panel
- 67 television camera
- 68 antenna
- 69 solar sensor (sun sensor)
- 70 telemetry antenna
- 71 radiometer



1-5 layered structure of the earth

- 1 earth's crust (outer crust of the earth, lithosphere, oxysphere)
- 2 hydrosphere
- 3 mantle
- 4 sima (intermediate layer)
- 5 core (earth core, centrosphere, barysphere)

6-12 hypsographic curve of the earth's surface

- 6 peak
- 7 continental mass
- 8 continental shelf (continental platform, shelf)
- 9 continental slope
- 10 deep-sea floor (abyssal plane)
- 11 sea level
- 12 deep-sea trench

13-28 volcanism (vulcanicity)

- 13 shield volcano
- 14 lava plateau
- 15 active volcano, a stratovolcano (composite volcano)
- 16 volcanic crater (crater)
- 17 volcanic vent
- 18 lava stream
- 19 tuff (fragmented volcanic material)
- 20 subterranean volcano
- 21 geyser
- 22 jet of hot water and steam
- 23 sinter terraces (siliceous sinter terraces, fiorite terraces, pearl sinter terraces)
- 24 cone
- 25 maar (extinct volcano)
- 26 tuff deposit
- 27 breccia
- 28 vent of extinct volcano

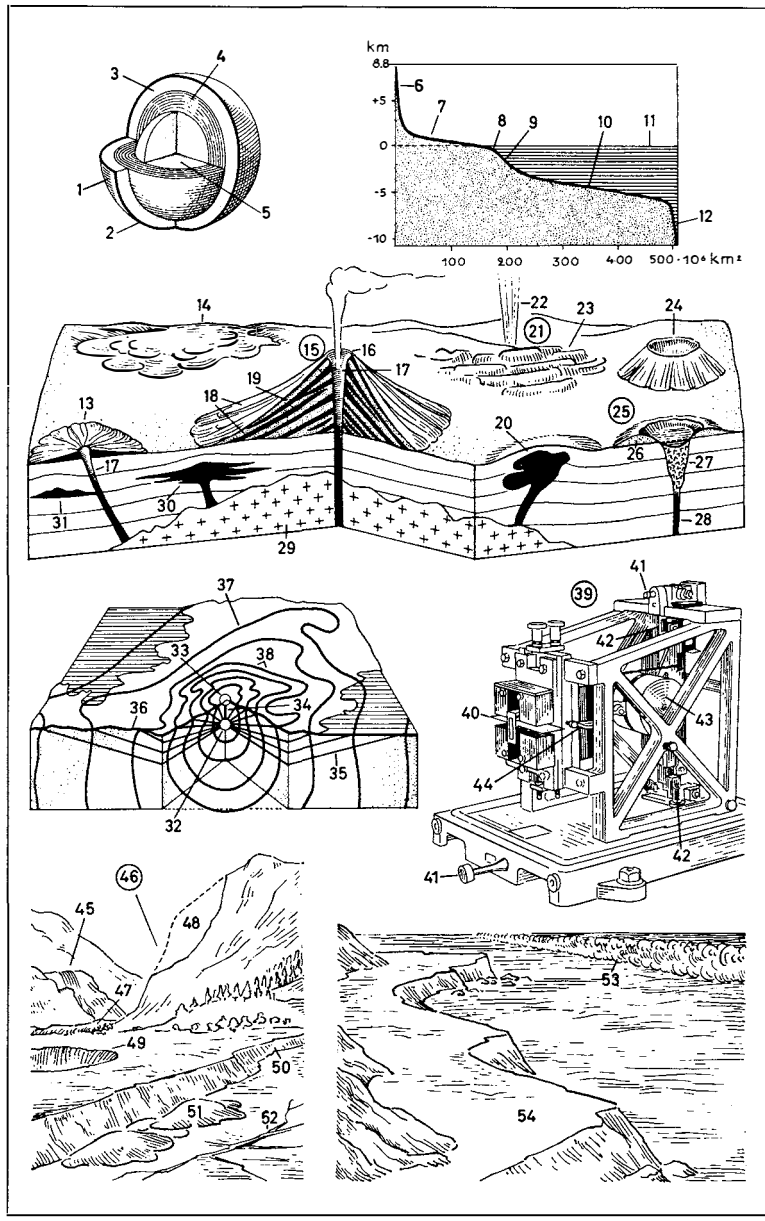
29-31 plutonic magmatism

- 29 batholite (massive protrusion)
- 30 lacolith, an intrusion
- 31 sill, an ore deposit

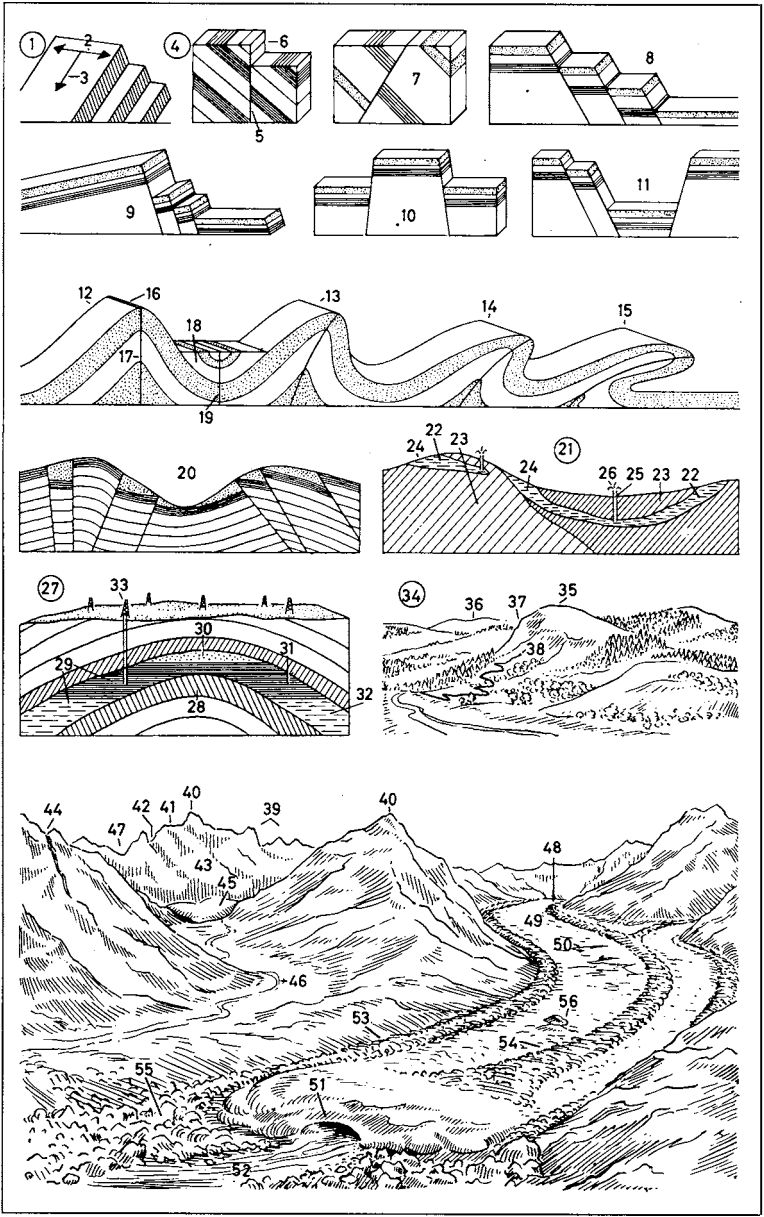
32-38 earthquake (kinds: tectonic quake, volcanic quake) and seismology

- 32 earthquake focus (seismic focus, hypocentre, *Am.* hypocenter)

- 33 epicentre (*Am.* epicenter), point on the earth's surface directly above the focus
- 34 depth of focus
- 35 shock wave
- 36 surface waves (seismic waves)
- 37 isoseismal (line connecting points of equal intensity of earthquake shock)
- 38 epicentral area, an area of macro-seismic vibration
- 39 horizontal seismograph (seismometer)
- 40 electromagnetic damper
- 41 adjustment knob for the period of free oscillation of the pendulum
- 42 spring attachment for the suspension of the pendulum
- 43 mass
- 44 induction coils for recording the voltage of the galvanometer
- 45-54 effects of earthquakes
- 45 waterfall (cataract, falls)
- 46 landslide (rockslide, landslip, *Am.* rock slip)
- 47 talus (rubble, scree)
- 48 scar (scaur, scaw)
- 49 sink (sinkhole, swallowhole)
- 50 dislocation (displacement)
- 51 solifluction lobe (solifluction tongue)
- 52 fissure
- 53 tsunami (seismic sea wave) produced by seaquake (submarine earthquake)
- 54 raised beach



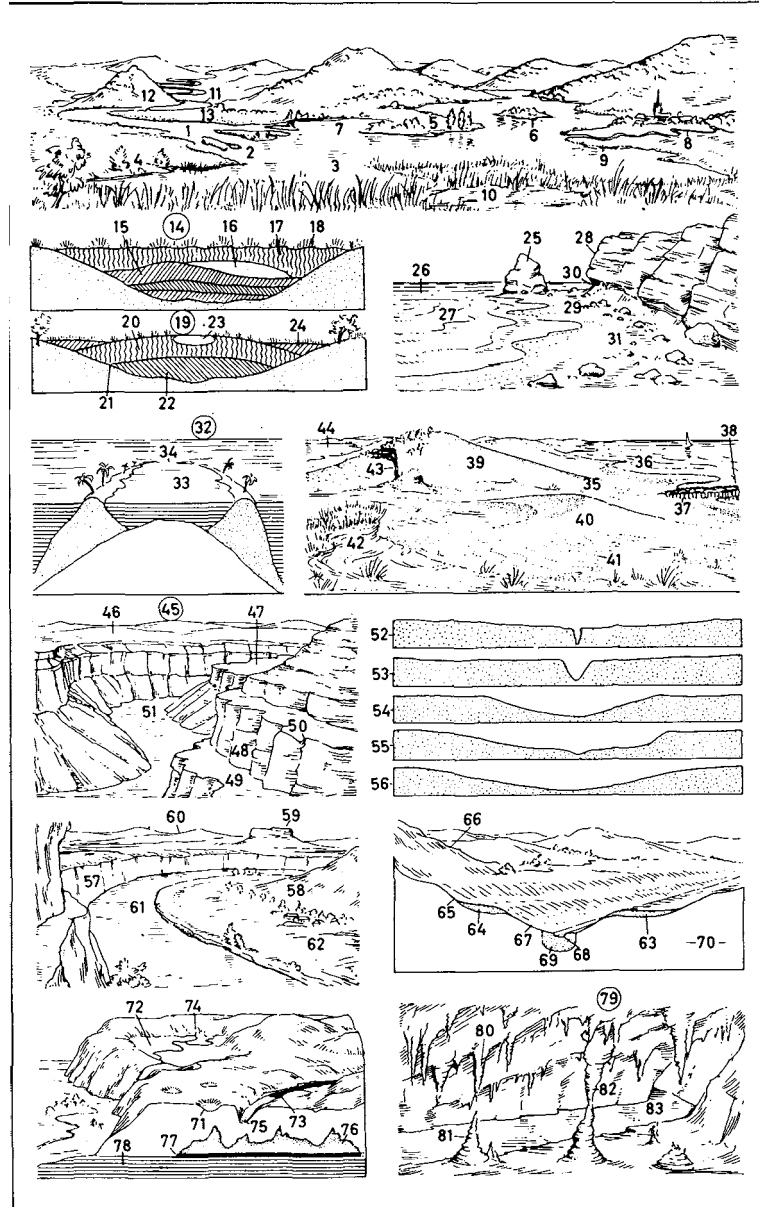
- 1-33
geology
- 1
stratification of sedimentary rock
- 2
strike
- 3
dip (angle of dip, true dip)
- 4-20
orogeny (orogenis, tectogenis, deformation of rocks by folding and faulting)
- 4-11
fault-block mountain (block mountain)
- 4
fault
- 5
fault line (fault trace)
- 6
fault throw
- 7
normal fault (gravity fault, normal slip fault, slump fault)
- 8-11
complex faults
- 8
step fault (distributive fault, multiple fault)
- 9
tilt block
- 10
horst
- 11
graben
- 12-20
range of fold mountains (folded mountains)
- 12
symmetrical fold (normal fold)
- 13
asymmetrical fold
- 14
overfold
- 15
recumbent fold (reclined fold)
- 16
saddle (anticline)
- 17
anticlinal axis
- 18
trough (syncline)
- 19
trough surface (trough plane, synclinal axis)
- 20
anticlinorium
- 21
groundwater under pressure (artesian water)
- 22
water-bearing stratum (aquifer, aquafer)
- 23
impervious rock (impermeable rock)
- 24
drainage basin (catchment area)
- 25
artesian well
- 26
rising water, an artesian spring
- 27
petroleum reservoir in an anticline
- 28
impervious stratum (impermeable stratum)
- 29
porous stratum acting as reservoir rock
- 30
natural gas, a gas cap
- 31
petroleum (crude oil)
- 32
underlying water
- 33
derrick
- 34
mountainous area
- 35
rounded mountain top
- 36
mountain ridge (ridge)
- 37
mountain slope
- 38
hillside spring
- 39-47
high-mountain region
- 39
mountain range, a massif
- 40
summit (peak, top of the mountain)
- 41
shoulder
- 42
saddle
- 43
rock face (steep face)
- 44
gully
- 45
talus (scree, detritus)
- 46
bridle path
- 47
pass (col)
- 48-56
glacial ice
- 48
firn field (firn basin, névé)
- 49
valley glacier
- 50
crevasse
- 51
glacier snout
- 52
subglacial stream
- 53
lateral moraine
- 54
medial moraine
- 55
end moraine
- 56
glacier table



**1-13 fluvial topography**

- 1 river mouth, a delta
- 2 distributary (distributary channel), a river branch (river arm)
- 3 lake
- 4 bank
- 5 peninsula (spit)
- 6 island
- 7 bay (cove)
- 8 stream (brook, rivulet, creek)
- 9 levee
- 10 alluvial plain
- 11 meander (river bend)
- 12 meander core (rock island)
- 13 meadow
- 14-24 **bog** (marsh)
- 14 low-moor bog
- 15 layers of decayed vegetable matter
- 16 entrapped water
- 17 fen peat [consisting of rush and sedge]
- 18 alder-swamp peat
- 19 high-moor bog
- 20 layer of recent sphagnum mosses
- 21 boundary between layers (horizons)
- 22 layer of older sphagnum mosses
- 23 bog pool
- 24 swamp
- 25-31 **cliffline** (cliffs)
- 25 rock
- 26 sea (ocean)
- 27 surf
- 28 cliff (cliff face, steep rock face)
- 29 scree
- 30 [wave-cut] notch
- 31 abrasion platform (wave-cut platform)
- 32 atoll, a ring-shaped coral reef
- 33 lagoon
- 34 breach (hole)
- 35-44 **beach**
- 35 high-water line (high-water mark, tidemark)
- 36 waves breaking on the shore
- 37 groyne (*Am.* groin)
- 38 groyne (*Am.* groin) head
- 39 wandering dune (migratory dune, travelling, *Am.* traveling, dune), a dune
- 40 barchan (barchane, barkhan, crescentic dune)

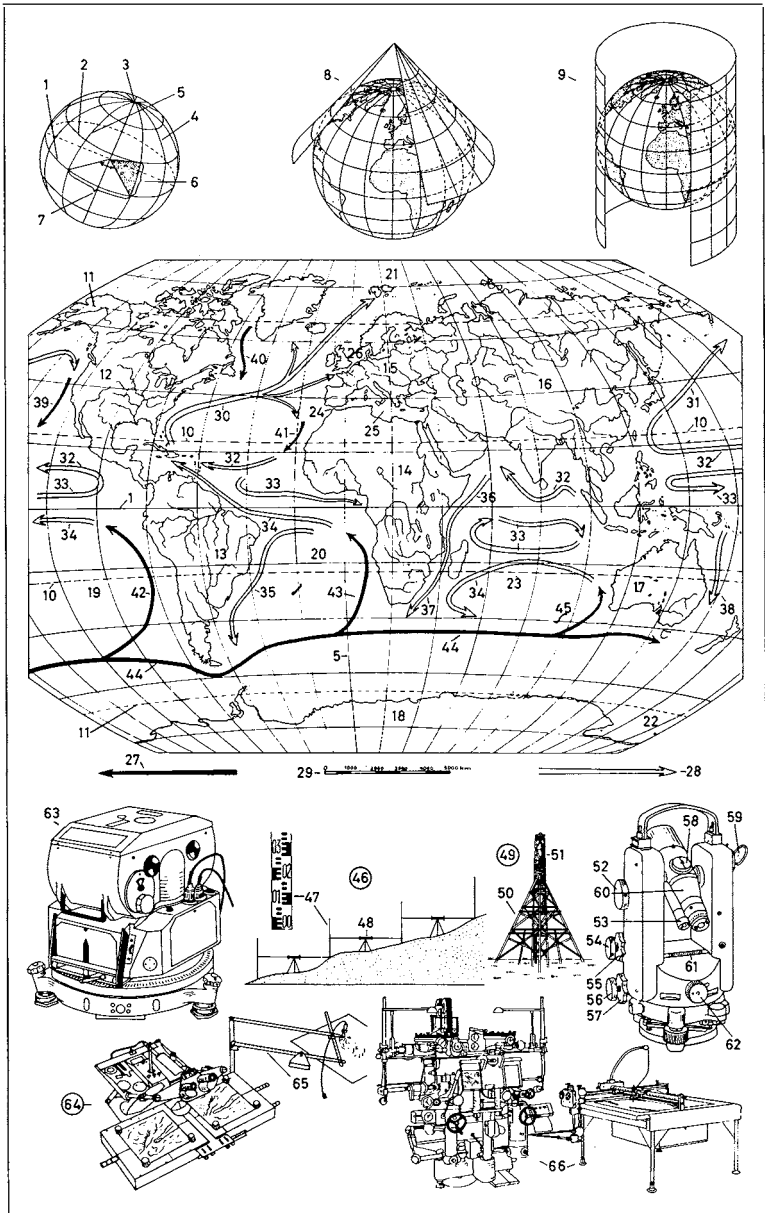
- 41 ripple marks
- 42 hummock
- 43 wind cripple
- 44 coastal lake
- 45 **canyon** (cañon, coulee)
- 46 plateau (tableland)
- 47 rock terrace
- 48 sedimentary rock (stratified rock)
- 49 river terrace (bed)
- 50 joint
- 51 canyon river
- 52-56 **types of valley** [cross section]
- 52 gorge (ravine)
- 53 V-shaped valley (V-valley)
- 54 widened V-shaped valley
- 55 U-shaped valley (U-valley, trough valley)
- 56 synclinal valley
- 57-70 **river valley**
- 57 scarp (escarpment)
- 58 slip-off slope
- 59 mesa
- 60 ridge
- 61 river
- 62 flood plain
- 63 river terrace
- 64 terracette
- 65 pediment
- 66 hill
- 67 valley floor (valley bottom)
- 68 riverbed
- 69 sediment
- 70 bedrock
- 71-83 **karst formation** in limestone
- 71 dolina, a sink (sinkhole, swallow-hole)
- 72 polje
- 73 percolation of a river
- 74 karst spring
- 75 dry valley
- 76 system of caverns (system of caves)
- 77 water level (water table) in a karst formation
- 78 impervious rock (impermeable rock)
- 79 limestone cave (dripstone cave)
- 80, 81 speleothems (cave formations)
- 80 stalactite (dripstone)
- 81 stalagmite
- 82 linked-up stalagmite and stalactite
- 83 subterranean river





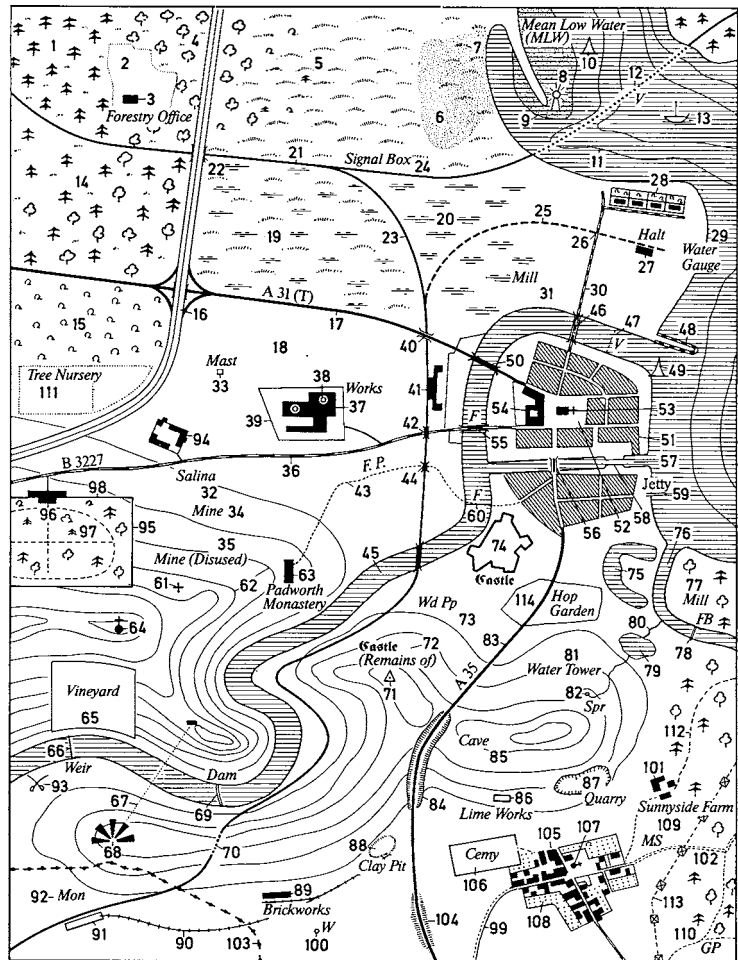
- 1-7 graticule of the earth** (network of meridians and parallels on the earth's surface)
- 1 equator
  - 2 line of latitude (parallel of latitude, parallel)
  - 3 pole (North Pole or South Pole), a terrestrial pole (geographical pole)
  - 4 line of longitude (meridian of longitude, meridian, terrestrial meridian)
  - 5 Standard meridian (Prime meridian, Greenwich meridian, meridian of Greenwich)
  - 6 latitude
  - 7 longitude
- 8, 9 map projections**
- 8 conical (conic) projection
  - 9 cylindrical projection (Mercator projection, Mercator's projection)
- 10-45 map of the world**
- 10 tropics
  - 11 polar circles
  - 12-18 continents**
  - 12, 13 America
  - 12 North America
  - 13 South America
  - 14 Africa
  - 15, 16 Europe and Asia
  - 15 Europe
  - 16 Asia
  - 17 Australia
  - 18 Antarctica (Antarctic Continent)
  - 19-26 ocean (sea)**
  - 19 Pacific Ocean
  - 20 Atlantic Ocean
  - 21 Arctic Ocean
  - 22 Antarctic Ocean (Southern Ocean)
  - 23 Indian Ocean
  - 24 Strait of Gibraltar, a sea strait
  - 25 Mediterranean (Mediterranean Sea, European Mediterranean)
  - 26 North Sea, a marginal sea (epeiric sea, epicontinental sea)
  - 27-29 key (explanation of map symbols)**
  - 27 cold ocean current
  - 28 warm ocean current
  - 29 scale
  - 30-45 ocean (oceanic) currents** (ocean drifts)
  - 30 Gulf Stream (North Atlantic Drift)

- 31 Kuroshio (Kuro Siwo, Japan Current)
- 32 North Equatorial Current
- 33 Equatorial Countercurrent
- 34 South Equatorial Current
- 35 Brazil Current
- 36 Somali Current
- 37 Agulhas Current
- 38 East Australian Current
- 39 California Current
- 40 Labrador Current
- 41 Canary Current
- 42 Peru Current
- 43 Benguela (Benguella) Current
- 44 West Wind Drift (Antarctic Circumpolar Drift)
- 45 West Australian Current
- 46-62 surveying** (land surveying, geodetic surveying, geodesy)
- 46 levelling (*Am.* leveling) (geometrical measurement of height)
- 47 graduated measuring rod (leveling, *Am.* leveling, staff)
- 48 level (surveying level, surveyor's level), a surveyor's telescope
- 49 triangulation station (triangulation point)
- 50 supporting scaffold
- 51 signal tower (signal mast)
- 52-62 theodolite, an instrument for measuring angles**
- 52 micrometer head
- 53 micrometer eyepiece
- 54 vertical tangent screw
- 55 vertical clamp
- 56 tangent screw
- 57 horizontal clamp
- 58 adjustment for the illuminating mirror
- 59 illuminating mirror
- 60 telescope
- 61 spirit level
- 62 circular adjustment
- 63-66 photogrammetry** (phototopography)
- 63 air survey camera for producing overlapping series of pictures
- 64 stereoscope
- 65 pantograph
- 66 stereoplanigraph



- 1-114 map signs** (map symbols, conventional signs) on a 1: 25 000 map
- 1 coniferous wood (coniferous trees)
  - 2 clearing
  - 3 forestry office
  - 4 deciduous wood (non-coniferous trees)
  - 5 heath (rough grassland, rough pasture, heath and moor, bracken)
  - 6 sand or sand hills
  - 7 beach grass
  - 8 lighthouse
  - 9 mean low water
  - 10 beacon
  - 11 submarine contours
  - 12 train ferry
  - 13 lightship
  - 14 mixed wood (mixed trees)
  - 15 brushwood
  - 16 motorway with slip road (*Am.* freeway with on-ramp, freeway with acceleration lane)
  - 17 trunk road
  - 18 grassland
  - 19 marshy grassland
  - 20 marsh
  - 21 main line railway (*Am.* trunk line)
  - 22 road over railway
  - 23 branch line
  - 24 signal box (*Am.* switch tower)
  - 25 local line
  - 26 level crossing
  - 27 halt
  - 28 residential area
  - 29 water gauge (*Am.* gage)
  - 30 good, metalled road
  - 31 windmill
  - 32 thorn house (graduation house, salina, salt-works)
  - 33 broadcasting station (wireless or television mast)
  - 34 mine
  - 35 disused mine
  - 36 secondary road (B road)
  - 37 works
  - 38 chimney
  - 39 wire fence
  - 40 bridge over railway
  - 41 railway station (*Am.* railroad station)
  - 42 bridge under railway
  - 43 footpath
  - 44 bridge for footpath under railway
  - 45 navigable river
  - 46 pontoon bridge

- 47 vehicle ferry
- 48 mole
- 49 beacon
- 50 stone bridge
- 51 town or city
- 52 market place (market square)
- 53 large church with two towers
- 54 public building
- 55 road bridge
- 56 iron bridge
- 57 canal
- 58 lock
- 59 jetty
- 60 foot ferry (foot passenger ferry)
- 61 chapel (church) without tower or spire
- 62 contours
- 63 monastery or convent
- 64 church landmark
- 65 vineyard
- 66 weir
- 67 aerial ropeway
- 68 view point
- 69 dam
- 70 tunnel
- 71 triangulation station (triangulation point)
- 72 remains of a building
- 73 wind pump
- 74 fortress
- 75 ox-bow lake
- 76 river
- 77 watermill
- 78 footbridge
- 79 pond
- 80 stream (brook, rivulet, creek)
- 81 water tower
- 82 spring
- 83 main road (A road)
- 84 cutting
- 85 cave
- 86 lime kiln
- 87 quarry
- 88 clay pit
- 89 brickworks
- 90 narrow-gauge (*Am.* narrow gage) railway
- 91 goods depot (freight depot)
- 92 monument
- 93 site of battle
- 94 country estate, a demesne
- 95 wall
- 96 stately home
- 97 park
- 98 hedge



- 99 poor or unmetalled road
- 100 well
- 101 farm
- 102 unfenced path (unfenced track)
- 103 district boundary
- 104 embankment
- 105 village
- 106 cemetery
- 107 church or chapel with spire
- 108 orchard
- 109 milestone
- 110 guide post
- 111 tree nursery
- 112 ride (aisle, lane, section line)
- 113 electricity transmission line
- 114 hop garden

## 16 Man I

## 1-54 the human body

## 1-18 head

1 vertex (crown of the head, top of the head)

2 occiput (back of the head)

3 hair

## 4-17 face

4-5 forehead

4 frontal eminence (frontal protuberance)

5 superciliary arch

6 temple

7 eye

8 zygomatic bone (malar bone, jugal bone, cheekbone)

9 cheek

10 nose

11 nasolabial fold

12 philtrum

13 mouth

14 angle of the mouth (labial commissure)

15 chin

16 dimple (fossette) in the chin

17 jaw

18 ear

## 19-21 neck

19 throat

20 hollow of the throat

21 nape of the neck

## 22-41 trunk

## 22-25 back

22 shoulder

23 shoulderblade (scapula)

24 loins

25 small of the back

26 armpit

27 armpit hair

## 28-30 thorax (chest)

28-29 breasts (breast, mamma)

28 nipple

29 areola

30 bosom

31 waist

32 flank (side)

33 hip

34 navel

## 35-37 abdomen (stomach)

35 upper abdomen

36 abdomen

37 lower abdomen

38 groin

39 pudenda (vulva)

40 seat (backside, *coll.* bottom)

41 anal groove (anal cleft)

42 gluteal fold (gluteal furrow)

## 43-54 limbs

43-48 arm

43 upper arm

44 crook of the arm

45 elbow

46 forearm

47 hand

48 fist (clenched fist, clenched hand)

## 49-54 leg

49 thigh

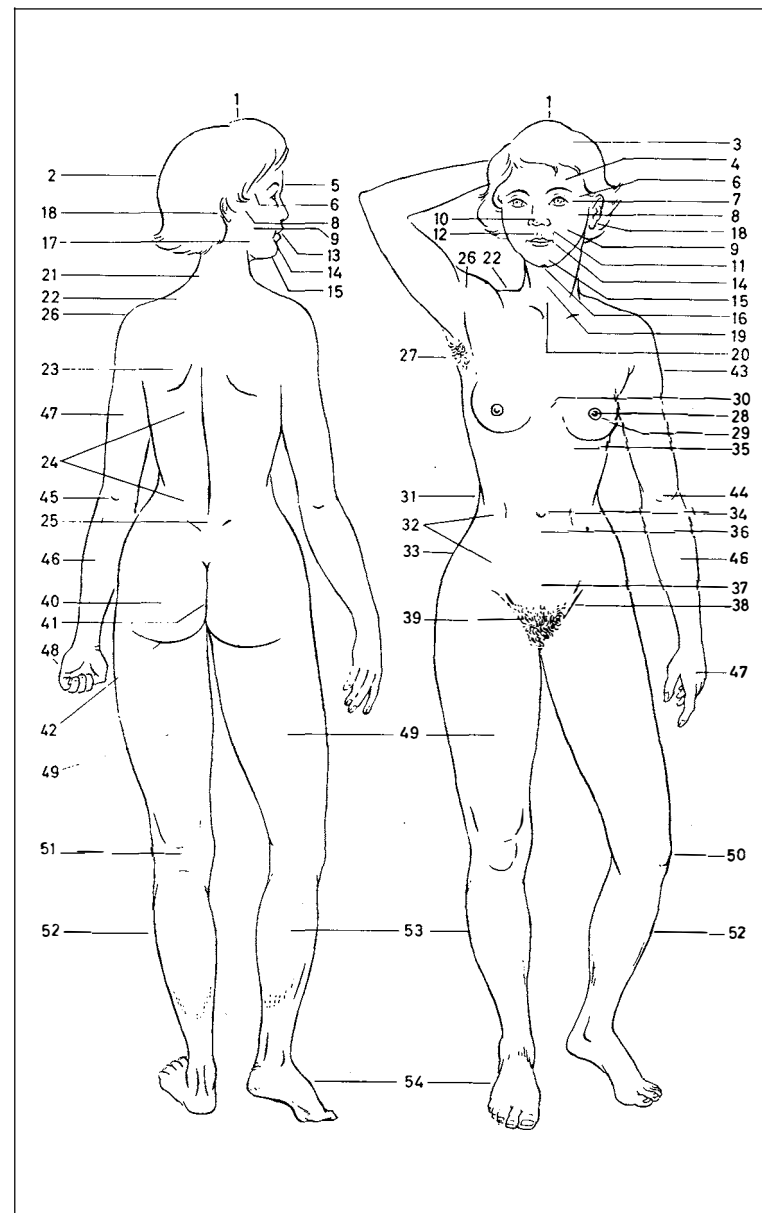
50 knee

51 popliteal space

52 shank

53 calf

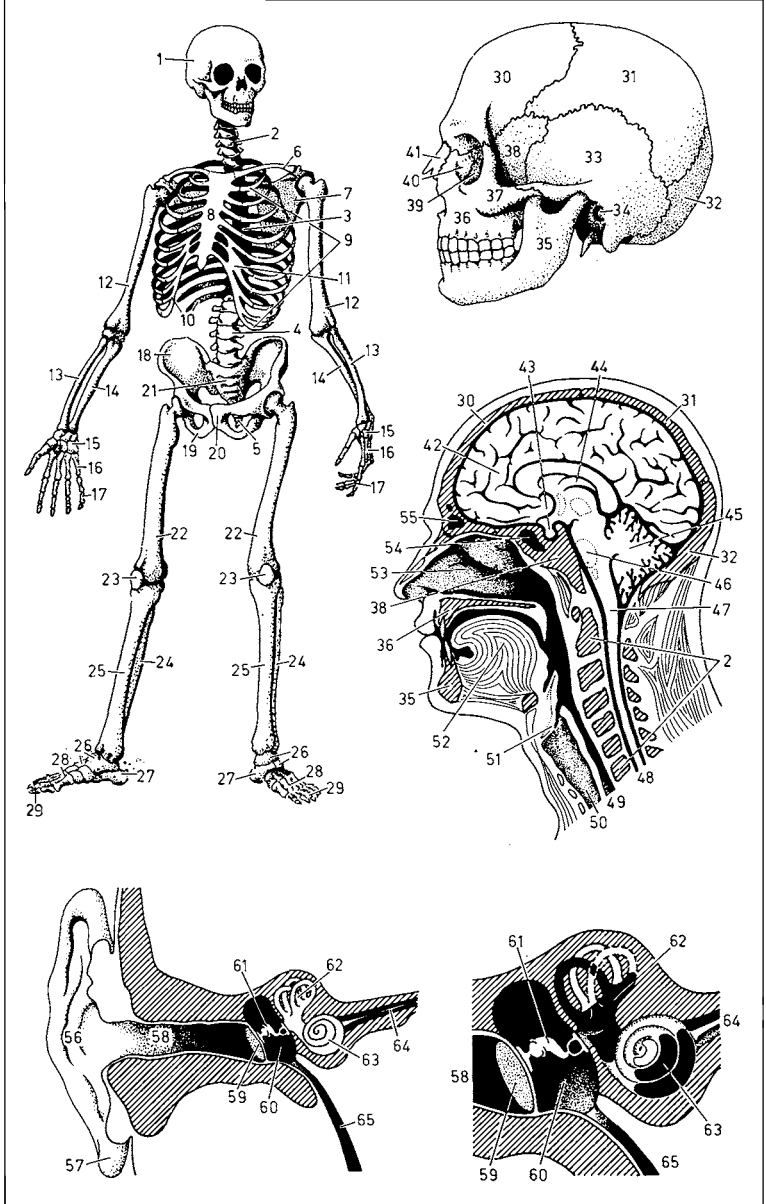
54 foot



**1-29 skeleton (bones)**

- 1 skull
- 2-5 vertebral column** (spinal column, spine, backbone)
- 2 cervical vertebra
- 3 dorsal vertebra (thoracic vertebra)
- 4 lumbar vertebra
- 5 coccyx (coccygeal vertebra)
- 6, 7 shoulder girdle
- 6 collarbone (clavicle)
- 7 shoulderblade (scapula)
- 8-11 thorax** (chest)
- 8 breastbone (sternum)
- 9 true ribs
- 10 false ribs
- 11 costal cartilage
- 12-14 arm**
- 12 humerus
- 13 radius
- 14 ulna
- 15-17 hand**
- 15 carpus
- 16 metacarpal bone (metacarpal)
- 17 phalanx (phalange)
- 18-21 pelvis**
- 18 ilium (hip bone)
- 19 ischium
- 20 pubis
- 21 sacrum
- 22-25 leg**
- 22 femur (thigh bone, thigh)
- 23 patella (kneecap)
- 24 fibula (splint bone)
- 25 tibia (shinbone)
- 26-29 foot**
- 26 tarsal bones (tarsus)
- 27 calcaneum (heelbone)
- 28 metatarsus
- 29 phalanges
- 30-41 skull**
- 30 frontal bone
- 31 left parietal bone
- 32 occipital bone
- 33 temporal bone
- 34 external auditory canal
- 35 lower jawbone (lower jaw, mandible)

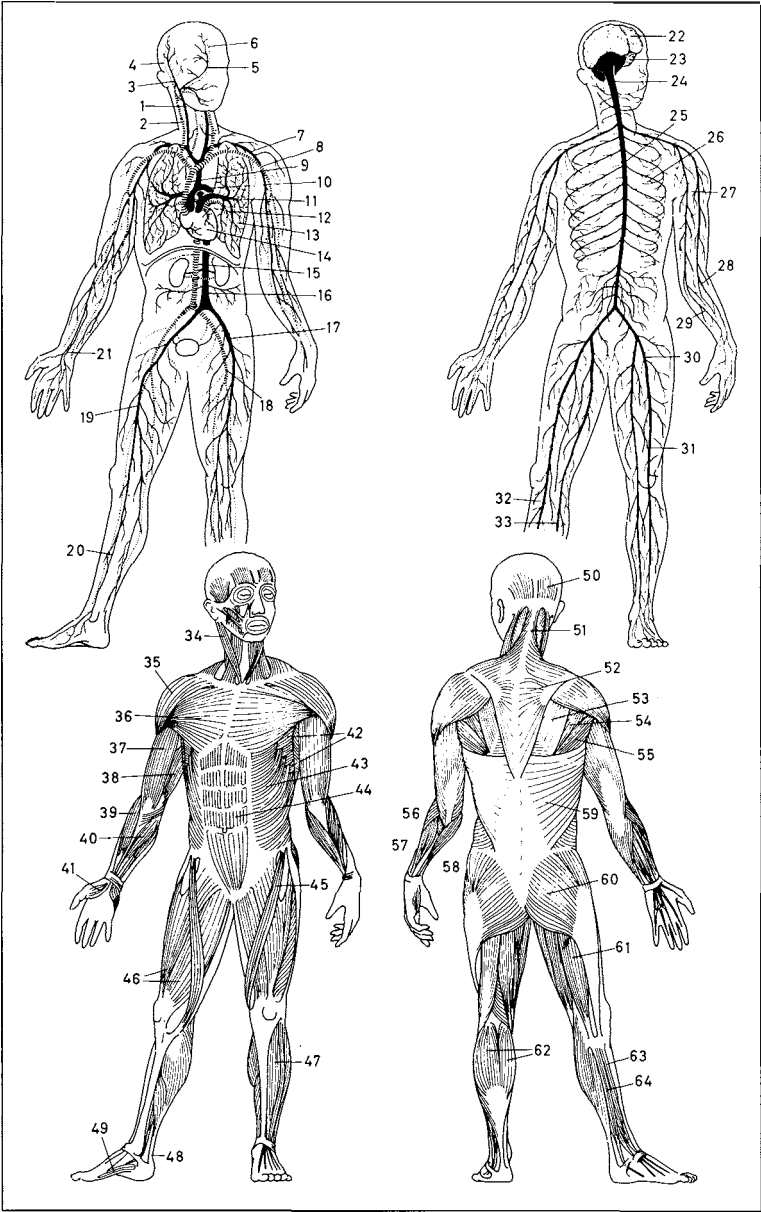
- 36 upper jawbone (upper jaw, maxilla)
- 37 zygomatic bone (cheekbone)
- 38 sphenoid bone (sphenoid)
- 39 ethmoid bone (ethmoid)
- 40 lachrimal (lacrimal) bone
- 41 nasal bone
- 42-55 head [section]**
- 42 cerebrum (great brain)
- 43 pituitary gland (pituitary body, hypophysis cerebri)
- 44 corpus callosum
- 45 cerebellum (little brain)
- 46 pons (pons cerebri, pons cerebelli)
- 47 medulla oblongata (brain stem)
- 48 spinal cord
- 49 oesophagus (esophagus, gullet)
- 50 trachea (windpipe)
- 51 epiglottis
- 52 tongue
- 53 nasal cavity
- 54 sphenoidal sinus
- 55 frontal sinus
- 56-65 organ of equilibrium and hearing**
- 56-58 external ear**
- 56 auricle
- 57 ear lobe
- 58 external auditory canal
- 59-61 middle ear**
- 59 tympanic membrane
- 60 tympanic cavity
- 61 auditory ossicles: hammer, anvil, and stirrup (malleus, incus, and stapes)
- 62-64 inner ear (internal ear)**
- 62 labyrinth
- 63 cochlea
- 64 auditory nerve
- 65 eustachian tube





- 1-21 blood circulation** (circulatory system)  
1 common carotid artery, an artery  
2 jugular vein, a vein  
3 temporal artery  
4 temporal vein  
5 frontal artery  
6 frontal vein  
7 subclavian artery  
8 subclavian vein  
9 superior vena cava  
10 arch of the aorta (aorta)  
11 pulmonary artery [with venous blood]  
12 pulmonary vein [with arterial blood]  
13 lungs  
14 heart  
15 inferior vena cava  
16 abdominal aorta (descending portion of the aorta)  
17 iliac artery  
18 iliac vein  
19 femoral artery  
20 tibial artery  
21 radial artery
- 22-33 nervous system**  
22 cerebrum (great brain)  
23 cerebellum (little brain)  
24 medulla oblongata (brain stem)  
25 spinal cord  
26 thoracic nerves  
27 brachial plexus  
28 radial nerve  
29 ulnar nerve  
30 great sciatic nerve [lying posteriorly]  
31 femoral nerve (anterior crural nerve)  
32 tibial nerve  
33 peroneal nerve
- 34-64 musculature** (muscular system)  
34 sternocleidomastoid muscle (sternomastoid muscle)  
35 deltoid muscle  
36 pectoralis major (greater pectoralis muscle, greater pectoralis)  
37 biceps brachii (biceps of the arm)

- 38 triceps brachii (triceps of the arm)  
39 brachioradialis  
40 flexor carpi radialis (radial flexor of the wrist)  
41 thenar muscle  
42 serratus anterior  
43 obliquus externus abdominis (external oblique)  
44 rectus abdominis  
45 sartorius  
46 vastus lateralis and vastus medialis  
47 tibialis anterior  
48 tendo calcaneus (Achilles' tendon)  
49 abductor hallucis (abductor of the hallux), a foot muscle  
50 occipitalis  
51 splenius of the neck  
52 trapezius  
53 infraspinatus  
54 teres minor (lesser teres)  
55 teres major (greater teres)  
56 extensor carpi radialis longus (long radial extensor of the wrist)  
57 extensor communis digitorum (common extensor of the digits)  
58 flexor carpi ulnaris (ulnar flexor of the wrist)  
59 latissimus dorsi  
60 gluteus maximus  
61 biceps femoris (biceps of the thigh)  
62 gastrocnemius, medial and lateral heads  
63 extensor communis digitorum (common extensor of the digits)  
64 peroneus longus (long peroneus)



1-13 head and neck

- 1 sternocleidomastoid muscle (sternomas-  
toid muscle)
- 2 occipitalis
- 3 temporalis (temporal, temporal muscle)
- 4 occipito frontalis (frontalis)
- 5 orbicularis oculi
- 6 muscles of facial expression
- 7 masseter
- 8 orbicularis oris
- 9 parotid gland
- 10 lymph node (submandibular lymph  
gland)
- 11 submandibular gland (submaxillary  
gland)
- 12 muscles of the neck
- 13 Adam's apple (laryngeal prominence)  
[in men only]

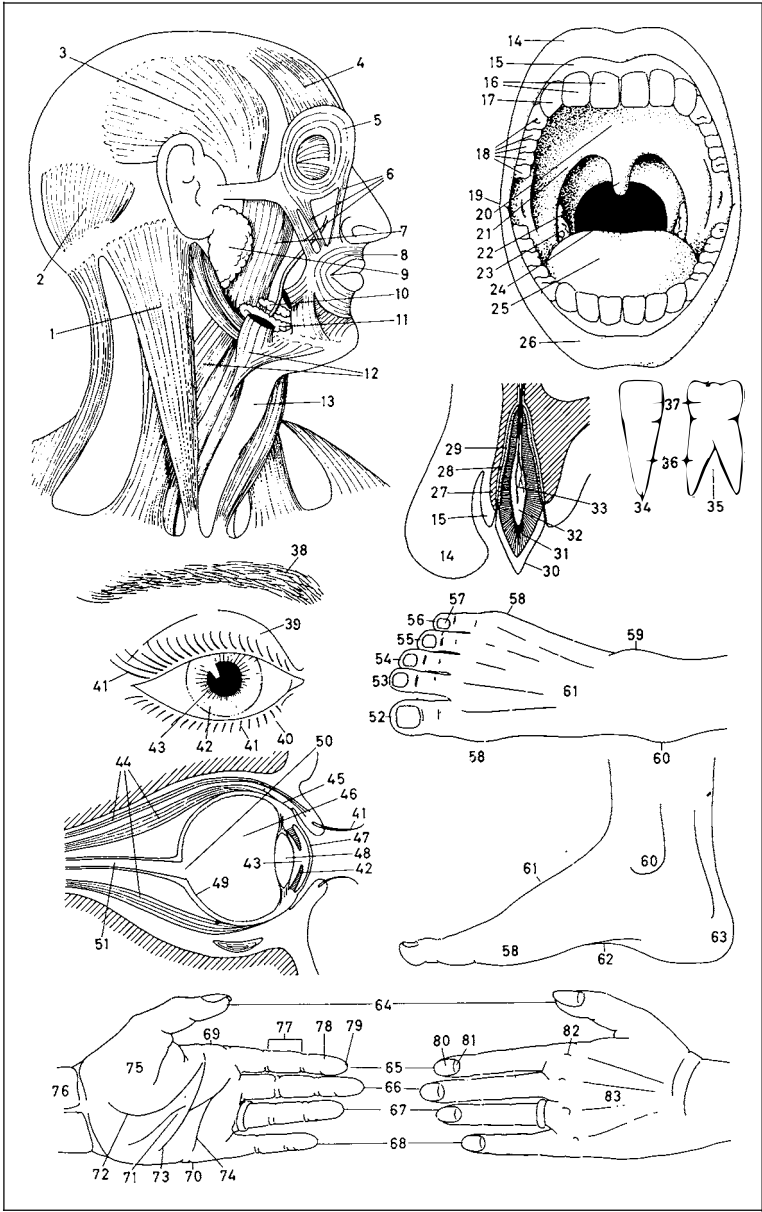
14-37 mouth and pharynx

- 14 upper lip
- 15 gum
- 16-18 teeth (set of teeth)
- 16 incisors
- 17 canine tooth (canine)
- 18 premolar (bicuspid) and molar teeth  
(premolars and molars)
- 19 angle of the mouth (labial commissure)
- 20 hard palate
- 21 soft palate (velum palati, velum)
- 22 uvula
- 23 palatine tonsil (tonsil)
- 24 pharyngeal opening (pharynx)
- 25 tongue
- 26 lower lip
- 27 upper jaw (maxilla)

28-37 tooth

- 28 periodontal membrane (periodontium,  
pericementum)
- 29 cement (dental cementum, crusta pet-  
rosa)
- 30 enamel
- 31 dentine (dentin)
- 32 dental pulp (tooth pulp, pulp)
- 33 nerves and blood vessels
- 34 incisor
- 35 molar tooth (molar)
- 36 root (fang)
- 37 crown
- 38-51 eye
- 38 eyebrow (supercilium)
- 39 upper eyelid (upper palpebra)
- 40 lower eyelid (lower palpebra)
- 41 eyelash (cilium)
- 42 iris

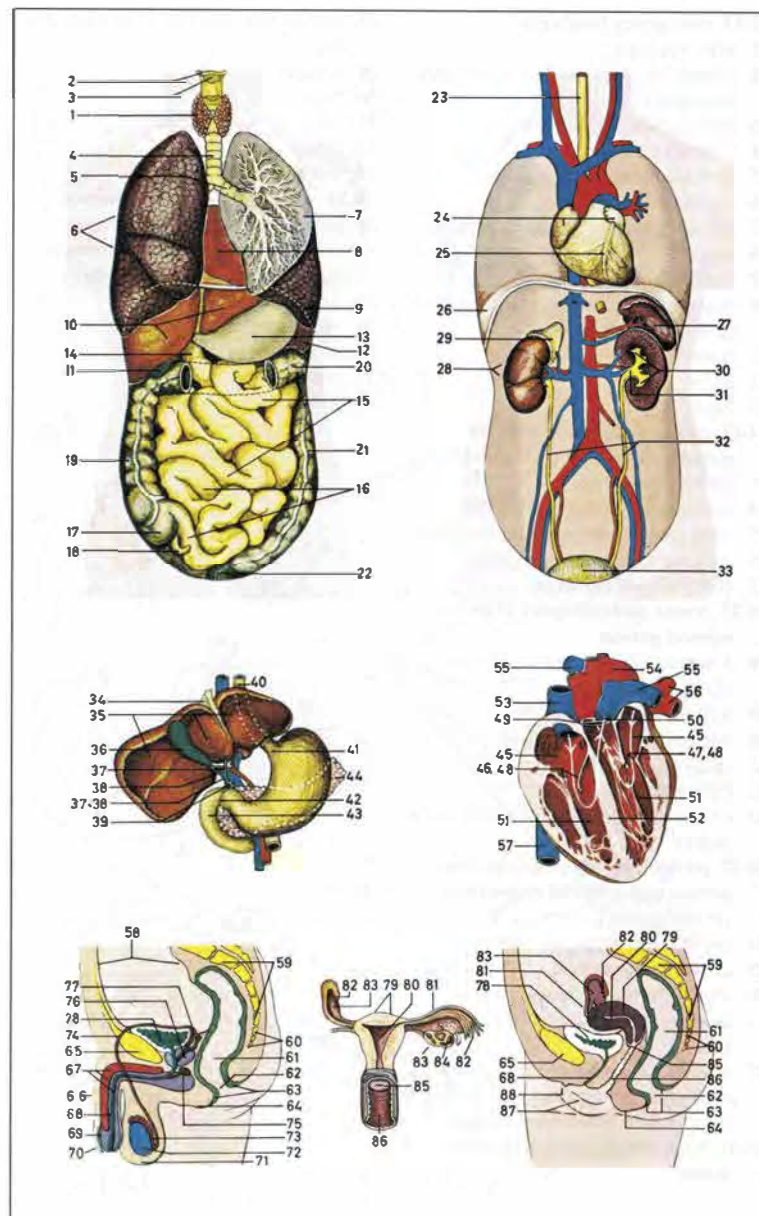
- 43 pupil
- 44 eye muscles (ocular muscles)
- 45 eyeball
- 46 vitreous body
- 47 cornea
- 48 lens
- 49 retina
- 50 blind spot
- 51 optic nerve
- 52-63 foot
- 52 big toe (great toe, first toe, hallux, digi-  
tus I)
- 53 second toe (digitus II)
- 54 third toe (digitus III)
- 55 fourth toe (digitus IV)
- 56 little toe (digitus minimus, digitus V)
- 57 toenail
- 58 ball of the foot
- 59 lateral malleolus (external malleolus,  
outer malleolus, malleolus fibulae)
- 60 medial malleolus (internal malleolus,  
inner malleolus, malleolus tibulae,  
malleolus medialis)
- 61 instep (medial longitudinal arch, dor-  
sum of the foot, dorsum pedis)
- 62 sole of the foot
- 63 heel
- 64-83 hand
- 64 thumb (pollex, digitus I)
- 65 index finger (forefinger, second finger,  
digitus II)
- 66 middle finger (third finger, digitus  
medius, digitus III)
- 67 ring finger (fourth finger, digitus anu-  
laris, digitus IV)
- 68 little finger (fifth finger, digitus min-  
imus, digitus V)
- 69 radial side of the hand
- 70 ulnar side of the hand
- 71 palm of the hand (palma manus)
- 72-74 lines of the hand
- 72 life line (line of life)
- 73 head line (line of the head)
- 74 heart line (line of the heart)
- 75 ball of the thumb (thenar eminence)
- 76 wrist (carpus)
- 77 phalanx (phalange)
- 78 finger pad
- 79 fingertip
- 80 fingernail (nail)
- 81 lunule (lunula) of the nail
- 82 knuckle
- 83 back of the hand (dorsum of the hand,  
dorsum manus)



**1-57 internal organs [front view]**

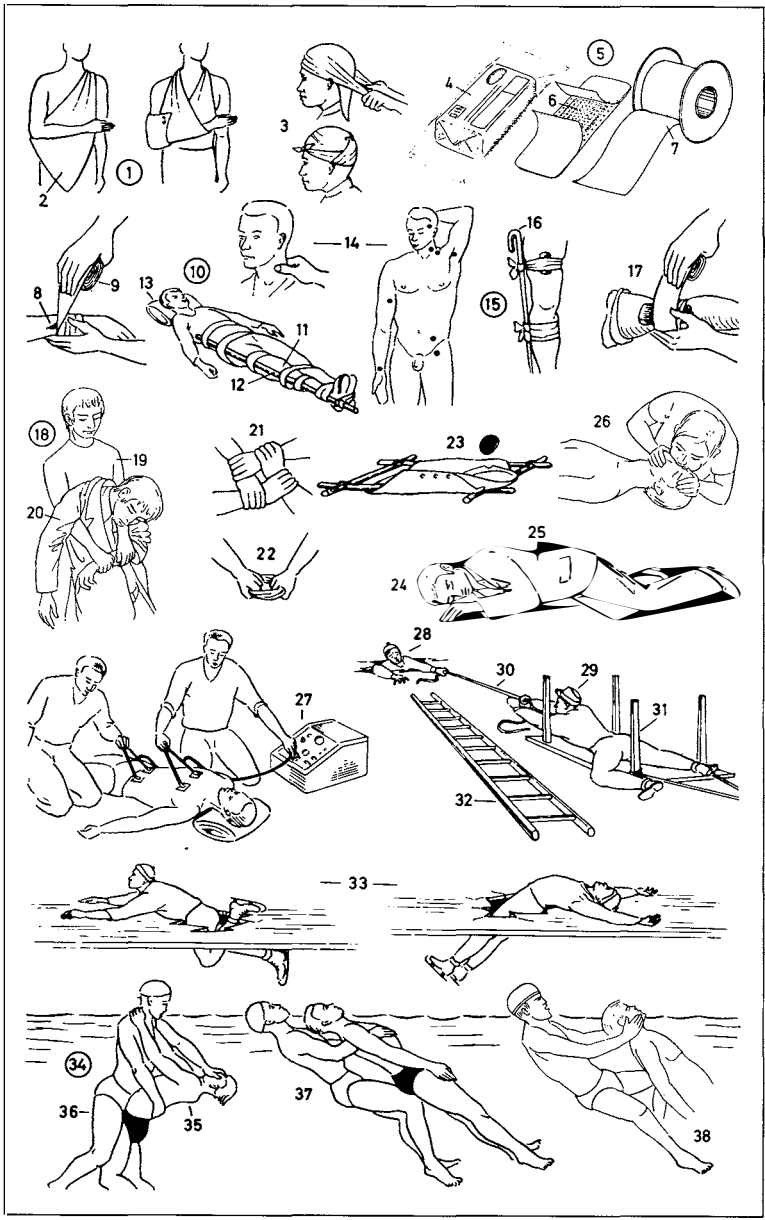
- 1 thyroid gland
- 2, 3 larynx
- 2 hyoid bone (hyoid)
- 3 thyroid cartilage
- 4 trachea (windpipe)
- 5 bronchus
- 6, 7 lung
- 6 right lung
- 7 upper pulmonary lobe (upper lobe of the lung) [section]
- 8 heart
- 9 diaphragm
- 10 liver
- 11 gall bladder
- 12 spleen
- 13 stomach
- 14-22 intestines (bowel)
- 14-16 small intestine (intestinum tenue)
- 14 duodenum
- 15 jejunum
- 16 ileum
- 17-22 large intestine (intestinum crassum)
- 17 caecum (cecum)
- 18 appendix (vermiform appendix)
- 19 ascending colon
- 20 transverse colon
- 21 descending colon
- 22 rectum
- 23 oesophagus (esophagus, gullet)
- 24, 25 heart
- 24 auricle
- 25 anterior longitudinal cardiac sulcus
- 26 diaphragm
- 27 spleen
- 28 right kidney
- 29 suprarenal gland
- 30, 31 left kidney [longitudinal section]
- 30 calyx (renal calyx)
- 31 renal pelvis
- 32 ureter
- 33 bladder
- 34, 35 liver [from behind]
- 34 falciform ligament of the liver
- 35 lobe of the liver
- 36 gall bladder
- 37, 38 common bile duct
- 37 hepatic duct (common hepatic duct)
- 38 cystic duct
- 39 portal vein (hepatic portal vein)
- 40 oesophagus (esophagus, gullet)
- 41, 42 stomach
- 41 cardiac orifice
- 42 pylorus
- 43 duodenum

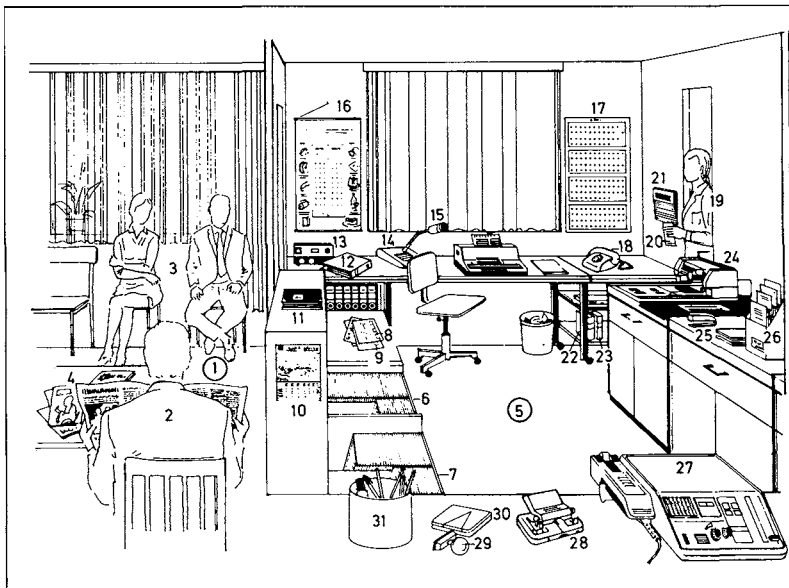
- 44 pancreas
- 45-57 heart [longitudinal section]
- 45 atrium
- 46, 47 valves of the heart
- 46 tricuspid valve (right atrioventricular valve)
- 47 bicuspid valve (mitral valve, left atrioventricular valve)
- 48 cusp
- 49 aortic valve
- 50 pulmonary valve
- 51 ventricle
- 52 ventricular septum (interventricular septum)
- 53 superior vena cava
- 54 aorta
- 55 pulmonary artery
- 56 pulmonary vein
- 57 inferior vena cava
- 58 peritoneum
- 59 sacrum
- 60 coccyx (coccygeal vertebra)
- 61 rectum
- 62 anus
- 63 anal sphincter
- 64 perineum
- 65 pubic symphysis (symphysis pubis)
- 66-77 male sex organs [longitudinal section]
- 66 penis
- 67 corpus cavernosum and spongiosum of the penis (erectile tissue of the penis)
- 68 urethra
- 69 glans penis
- 70 prepuce (foreskin)
- 71 scrotum
- 72 right testicle (testis)
- 73 epididymis
- 74 spermatic duct (vas deferens)
- 75 Cowper's gland (bulbourethral gland)
- 76 prostate (prostate gland)
- 77 seminal vesicle
- 78 bladder
- 79-88 female sex organs [longitudinal section]
- 79 uterus (matrix, womb)
- 80 cavity of the uterus
- 81 fallopian tube (uterine tube, oviduct)
- 82 fimbria (fimbriated extremity)
- 83 ovary
- 84 follicle with ovum (egg)
- 85 os uteri externum
- 86 vagina
- 87 lip of the pudendum (lip of the vulva)
- 88 clitoris



- 1-13 emergency bandages
- 1 arm bandage
- 2 triangular cloth used as a sling (an arm sling)
- 3 head bandage (capeline)
- 4 first aid kit
- 5 first aid dressing
- 6 sterile gauze dressing
- 7 adhesive plaster (sticking plaster)
- 8 wound
- 9 bandage
- 10 emergency splint for a broken limb (fractured limb)
- 11 fractured leg (broken leg)
- 12 splint
- 13 headrest
- 14-17 measures for stanching the blood flow (tying up (ligature) of a blood vessel)
- 14 pressure points of the arteries
- 15 emergency tourniquet on the thigh
- 16 walking stick used as a screw
- 17 compression bandage
- 18-23 rescue and transport of an injured person
- 18 Rautek grip (for rescue of a car accident victim)
- 19 helper
- 20 injured person (casualty)
- 21 chair grip
- 22 carrying grip
- 23 emergency stretcher of sticks and a jacket
- 24-27 positioning of an unconscious person and artificial respiration (resuscitation)
- 24 coma position
- 25 unconscious person
- 26 mouth-to-mouth resuscitation (variation: mouth-to-nose resuscitation)
- 27 resuscitator (respiratory apparatus, resuscitation apparatus), a respirator (artificial breathing device)
- 28-33 methods of rescue in ice accidents

- 28 person who has fallen through the ice
- 29 rescuer
- 30 rope
- 31 table (or similar device)
- 32 ladder
- 33 self-rescue
- 34-38 rescue of a drowning person
- 34 method of release (release grip, release) to free rescuer from the clutch of a drowning person
- 35 drowning person
- 36 lifesaver
- 37, 38 towing (tows)
- 37 double shoulder tow
- 38 head tow



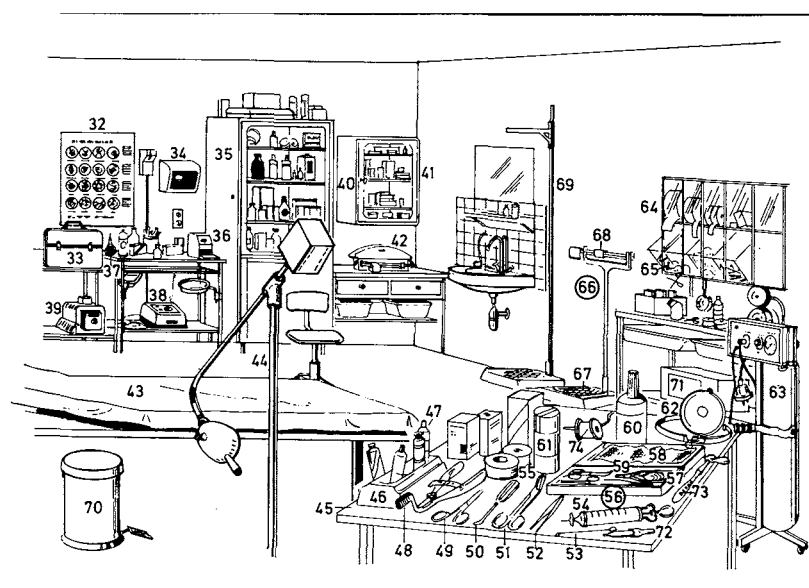


**1-74 general practice** (*Am. physician's office*)

**1 waiting room**

- 2 patient
- 3 patients with appointments (for a routine check-up or renewal of prescription)
- 4 magazines [for waiting patients]
- 5 reception
- 6 patients file
- 7 eliminated index cards
- 8 medical record (medical card)
- 9 health insurance certificate
- 10 advertising calendar (publicity calendar)
- 11 appointments book
- 12 correspondence file
- 13 automatic telephone answering and recording set (telephone answering device)
- 14 radiophone
- 15 microphone
- 16 illustrated chart

- 17 wall calendar
- 18 telephone
- 19 [doctor's] assistant
- 20 prescription
- 21 telephone index
- 22 medical dictionary
- 23 pharmacopoeia (list of registered medicines)
- 24 franking machine (*Am. postage meter*)
- 25 stapler
- 26 diabetics file
- 27 dictating machine
- 28 paper punch
- 29 doctor's stamp
- 30 ink pad
- 31 pencil holder
- 32-74 surgery**
- 32 chart of eyegrounds
- 33 doctor's bag (doctor's case)
- 34 intercom
- 35 medicine cupboard
- 36 swab dispenser



37 inflator (Politzer bag)

38 electrotome

39 steam sterilizer

40 cabinet

41 medicine samples (from the pharmaceutical industry)

42 baby scales

43 examination couch

44 directional lamp

45 instrument table

46 tube holder

47 tube of ointment

**48-50 instruments for minor surgery**

48 mouth gag

49 Kocher's forceps

50 scoop (curette)

51 angled scissors

52 forceps

53 olive-pointed (bulb-headed) probe

54 syringe for irrigations of the ear or bladder

55 adhesive plaster (sticking plaster)

56 surgical suture material

57 curved surgical needle

58 sterile gauze

59 needle holder

60 spray for disinfecting the skin

61 thread container

62 ophthalmoscope

63 freezer for cryosurgery

64 dispenser for plasters and small pieces of equipment

65 disposable hypodermic needles and syringes

66 scales, sliding-weight scales

67 weighing platform

68 sliding weight (jockey)

69 height gauge (*Am. gage*)

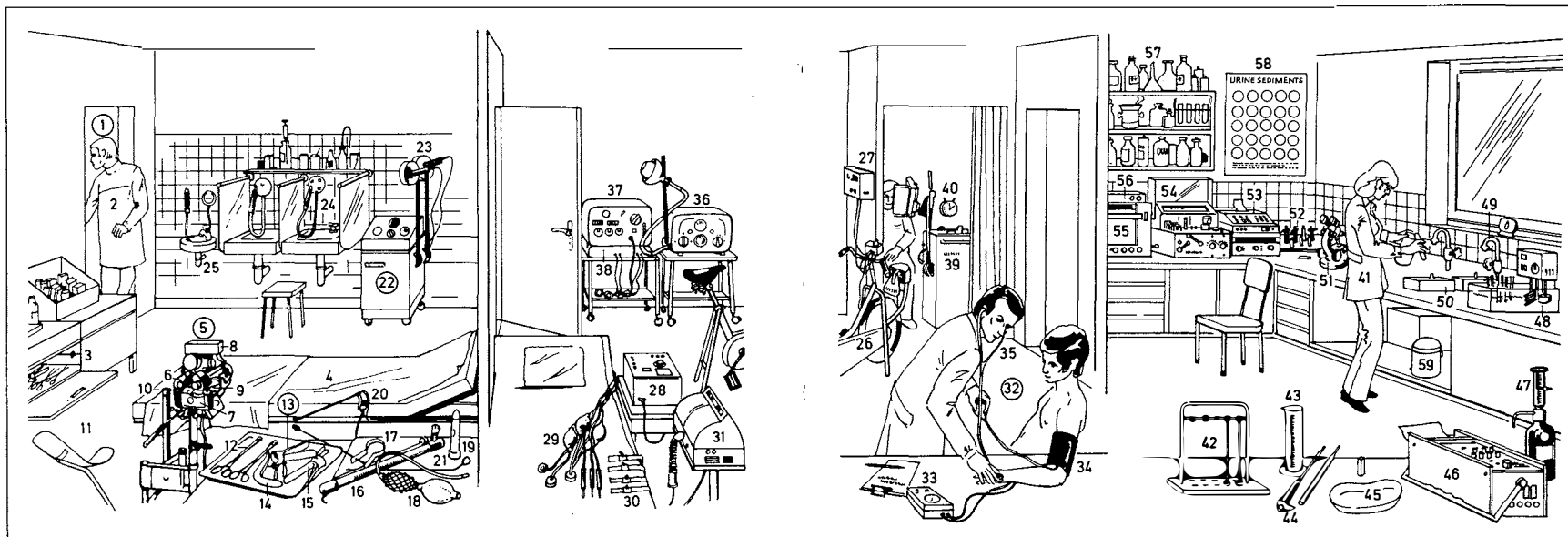
70 waste bin (*Am. trash bin*)

71 hot-air sterilizer

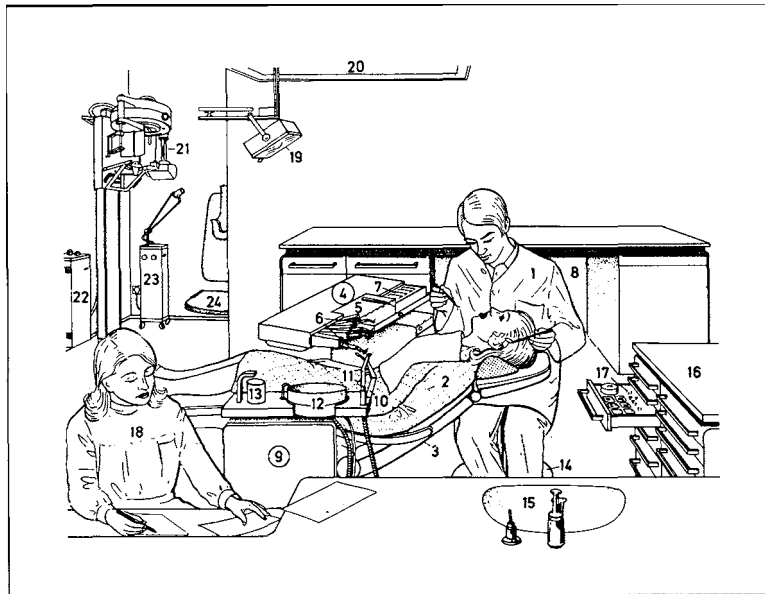
72 pipette

73 percussor

74 aural speculum (auriscope, aural syringe)

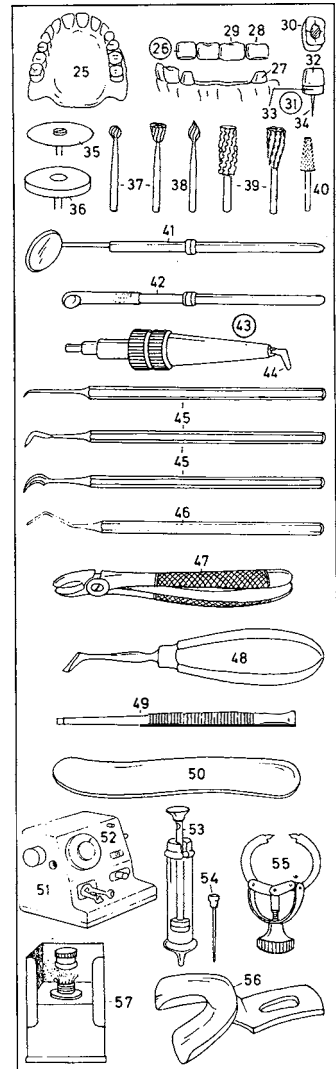


- |   |  |  |  |
|---|--|--|--|
| 1 consulting room   | 19 proctoscope (rectal speculum)   | 37 faradization unit (for applying low-frequency currents with different pulse shapes) | 51 binocular research microscope               |
| 2 general practitioner  | 20 urethroscope  | 38 automatic tuner   | 52 pipette stand for photometry                |
| <b>3-21 instruments for gynaecological and proctological examinations</b> | 21 guide for inserting the proctoscope   | 39 short-wave therapy apparatus  | 53 computer and analyser for photometry        |
| 3 warming the instruments up to body temperature                          | 22 diathermy unit (short-wave therapy apparatus)   | 40 timer   | 54 photometer                                  |
| 4 examination couch   | 23 radiator  | <b>41-59 laboratory</b>  | 55 potentiometric recorder                     |
| 5 colposcope  | 24 inhaling apparatus (inhalator)  | 41 medical laboratory technician   | 56 transforming section                        |
| 6 binocular eyepiece  | 25 basin [for sputum]  | 42 capillary tube stand for blood sedimentation  | 57 laboratory apparatus (laboratory equipment) |
| 7 miniature camera  | <b>26-31 ergometry</b>   | 43 measuring cylinder  | 58 urine sediment chart                        |
| 8 cold light source   | 26 bicycle ergometer   | 44 automatic pipette   | 59 centrifuge                                  |
| 9 cable release   | 27 monitor (for visual display of the ECG and of pulse and respiratory rates when performing work) | 45 kidney dish   |  |
| 10 bracket for the leg support  | 28 ECG (electrocardiograph)  | 46 portable ECG machine for emergency use  |  |
| 11 leg support (leg holder)   | 29 suction electrodes  | 47 automatic pipetting device  |  |
| 12 holding forceps (sponge holder)  | 30 strap-on electrodes for the limbs   | 48 constant temperature water bath   |  |
| 13 vaginal speculum   | 31 spirometer (for measuring respiratory functions)  | 49 tap with water jet pump   |  |
| 14 lower blade of the vaginal speculum                                    | 32 measuring blood pressure  | 50 staining dish (for staining blood smears, sediments, and other smears)              |  |
| 15 platinum loop (for smears)   | 33 sphygmomanometer  |  |  |
| 16 rectoscope   | 34 inflatable cuff   |  |  |
| 17 biopsy forceps used with the rectoscope (proctoscope)                  | 35 stethoscope   |  |  |
| 18 insufflator for proctoscopy (rectoscopy)                               | 36 microwave treatment unit  |  |  |

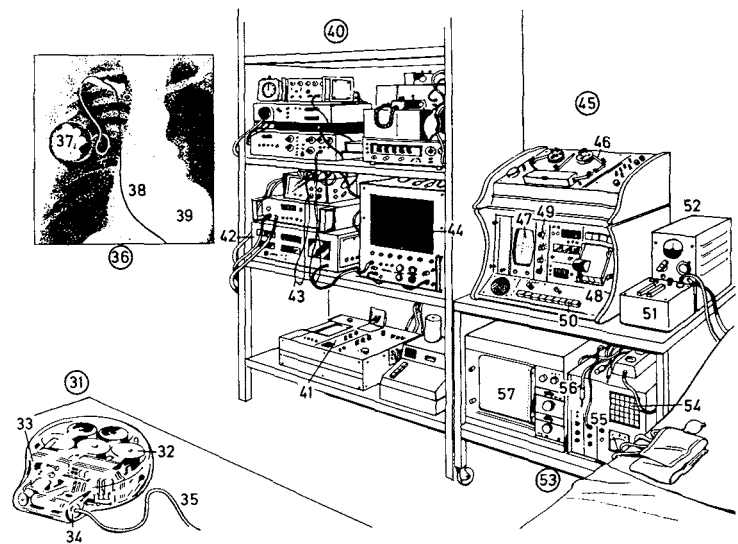
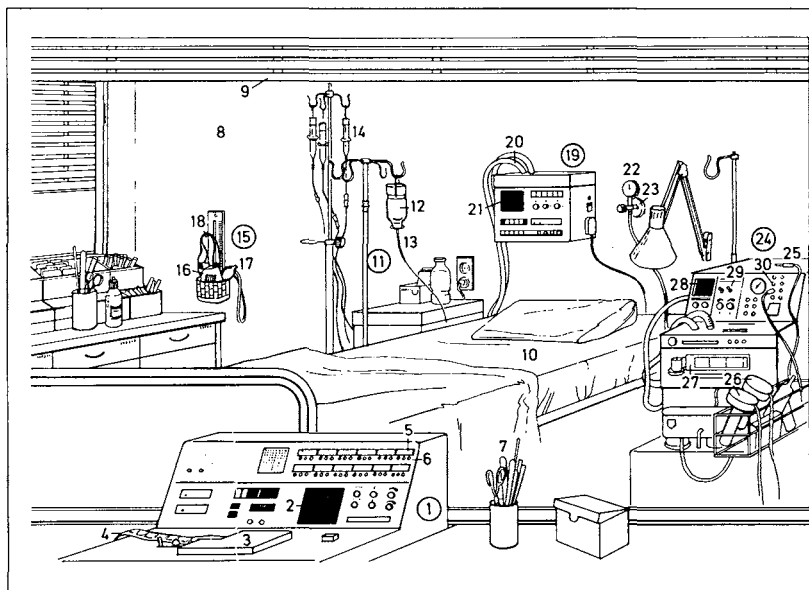


- |   |   |
|---|---|
| 1 dentist (dental surgeon)  | 21 X-ray apparatus for panoramic pictures           |
| 2 patient   | 22 X-ray generator                                  |
| 3 dentist's chair   | 23 microwave treatment unit, a radiation unit       |
| 4 dental instruments  | 24 seat   |
| 5 instrument tray   | 25 denture (set of false teeth)                     |
| 6 drills with different handpieces                                | 26 bridge (dental bridge)                           |
| 7 medicine case   | 27 prepared stump of the tooth                      |
| 8 storage unit (for dental instruments)                           | 28 crown ( <i>kinds</i> : gold crown, jacket crown) |
| 9 assistant's unit  | 29 porcelain tooth (porcelain pontic)               |
| 10 multi-purpose syringe (for cold and warm water, spray, or air) | 30 filling  |
| 11 suction apparatus  | 31 post crown                                       |
| 12 basin  | 32 facing   |
| 13 water glass, filled automatically                              | 33 diaphragm  |
| 14 stool  | 34 post   |
| 15 washbasin  | 35 carborundum disc (disk)                          |
| 16 instrument cabinet   | 36 grinding wheel                                   |
| 17 drawer for drills  | 37 burs   |
| 18 dentist's assistant  | 38 flame-shaped finishing bur                       |
| 19 dentist's lamp   | 39 fissure burs                                     |
| 20 ceiling light  |   |

- |  |
|--|
| 40 diamond point   |
| 41 mouth mirror  |
| 42 mouth lamp  |
| 43 cautery   |
| 44 platinum-iridium electrode                            |
| 45 tooth scalars   |
| 46 probe   |
| 47 extraction forceps                                    |
| 48 tooth-root elevator                                   |
| 49 bone chisel   |
| 50 spatula   |
| 51 mixer for filling material                            |
| 52 synchronous timer                                     |
| 53 hypodermic syringe for injection of local anaesthetic |
| 54 hypodermic needle                                     |
| 55 matrix holder   |
| 56 impression tray                                       |
| 57 spirit lamp   |







**1-30 intensive care unit**

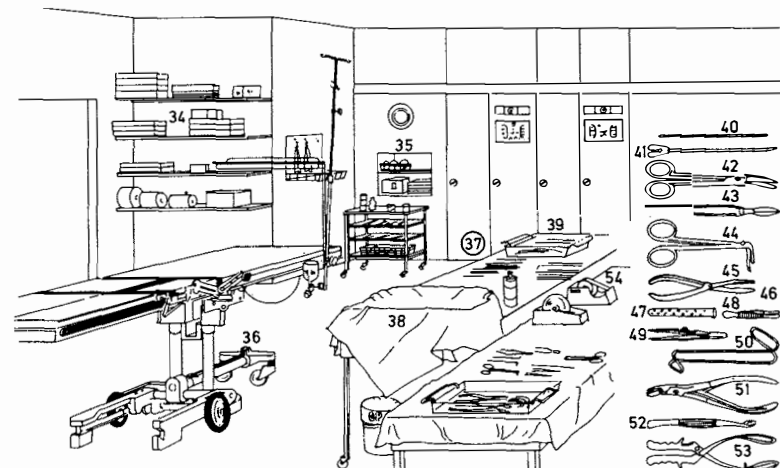
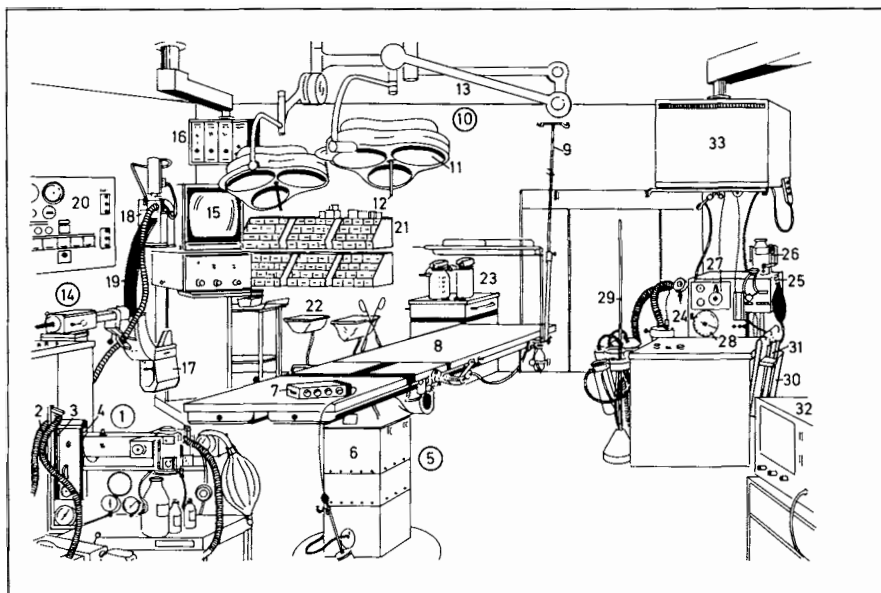
**1-9 control room**

- 1 central control unit for monitoring heart rhythm (cardiac rhythm) and blood pressure
- 2 electrocardiogram monitor (ECG monitor)
- 3 recorder
- 4 recording paper
- 5 patient's card
- 6 indicator lights (with call buttons for each patient)
- 7 spatula
- 8 window (observation window, glass partition)
- 9 blind
- 10 bed (hospital bed)
- 11 stand for infusion apparatus
- 12 infusion bottle
- 13 tube for intravenous drips
- 14 infusion device for water-soluble medicaments
- 15 phrygmomanometer

- 16 cuff
- 17 inflating bulb
- 18 mercury manometer
- 19 bed monitor
- 20 connecting lead to the central control unit
- 21 electrocardiogram monitor (ECG monitor)
- 22 manometer for the oxygen supply
- 23 wall connection for oxygen treatment
- 24 mobile monitoring unit
- 25 electrode lead to the short-term pacemaker
- 26 electrodes for shock treatment
- 27 ECG recording unit
- 28 electrocardiogram monitor (ECG monitor)
- 29 control switches and knobs (controls) for adjusting the monitor
- 30 control buttons for the pacemaker unit
- 31 **pacemaker** (cardiac pacemaker)

- 32 mercury battery
- 33 programmed impulse generator
- 34 electrode exit point
- 35 electrode
- 36 implantation of the pacemaker
- 37 internal cardiac pacemaker (internal pacemaker, pacemaker)
- 38 electrode inserted through the vein
- 39 cardiac silhouette on the X-ray
- 40 **pacemaker control unit**
- 41 electrocardiograph (ECG recorder)
- 42 automatic impulse meter
- 43 ECG lead to the patient
- 44 monitor unit for visual monitoring of the pacemaker impulses
- 45 long-term ECG analyser
- 46 magnetic tape for recording the ECG impulses during analysis
- 47 ECG monitor
- 48 automatic analysis on paper of the ECG rhythm

- 49 control knob for the ECG amplitude
- 50 program selector switches for the ECG analysis
- 51 charger for the pacemaker batteries
- 52 battery tester
- 53 pressure gauge (*Am. gage*) for the right cardiac catheter
- 54 trace monitor
- 55 pressure indicator
- 56 connecting lead to the paper recorder
- 57 paper recorder for pressure traces

**1-54 surgical unit****1-33 operating theatre (Am. theater)**

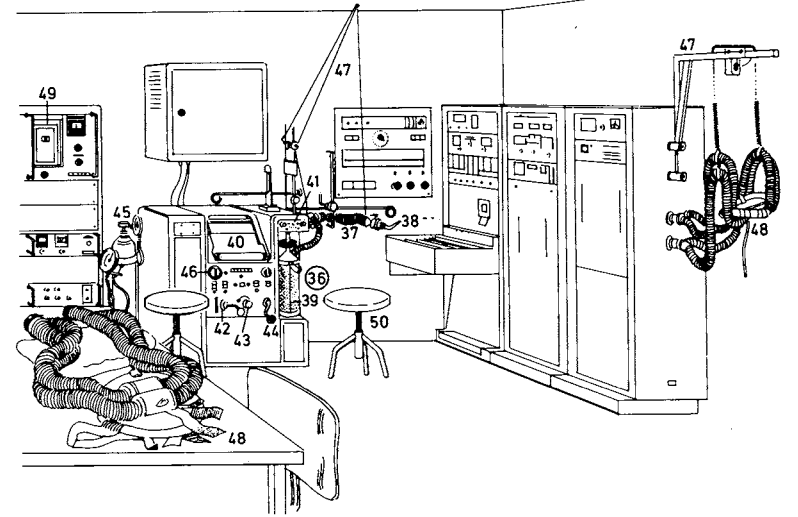
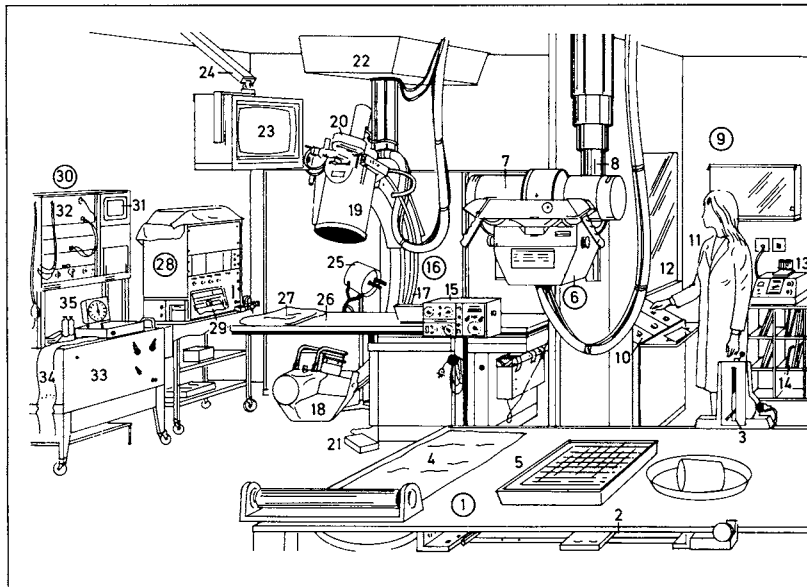
- 1 anaesthesia and breathing apparatus (respiratory machine)
- 2 inhalers (inhaling tubes)
- 3 flowmeter for nitrous oxide
- 4 oxygen flow meter
- 5 pedestal operating table
- 6 table pedestal
- 7 control device (control unit)
- 8 adjustable top of the operating table
- 9 stand for intravenous drips
- 10 swivel-mounted shadow-free operating lamp
- 11 individual lamp
- 12 handle
- 13 swivel arm
- 14 mobile fluoroscope
- 15 monitor of the image converter
- 16 monitor [back]
- 17 tube
- 18 image converter
- 19 C-shaped frame
- 20 control panel for the air-conditioning
- 21 surgical suture material
- 22 mobile waste tray
- 23 containers for unsterile (unsterilized) pads
- 24 anaesthesia and respiratory apparatus
- 25 respirator
- 26 fluothane container (halothane container)
- 27 ventilation control knob
- 28 indicator with pointer for respiratory volume
- 29 stand with inhalers (inhaling tubes) and pressure gauges (Am. gages)
- 30 catheter holder
- 31 catheter in sterile packing
- 32 sphygmograph
- 33 monitor

**34-54 preparation and sterilization room**

- 34 dressing material
- 35 small sterilizer
- 36 carriage of the operating table
- 37 mobile instrument table
- 38 sterile cloth
- 39 instrument tray
- 40-53 surgical instruments**
- 40 olive-pointed (bulb-headed) probe
- 41 hollow probe
- 42 curved scissors
- 43 scalpel (surgical knife)
- 44 ligature-holding forceps
- 45 sequestrum forceps
- 46 jaw
- 47 drainage tube
- 48 surgeon's tourniquet
- 49 artery forceps
- 50 blunt hook
- 51 bone nippers (bone-cutting forceps)

**52 scoop (curette) for erosion (curet-tage)**

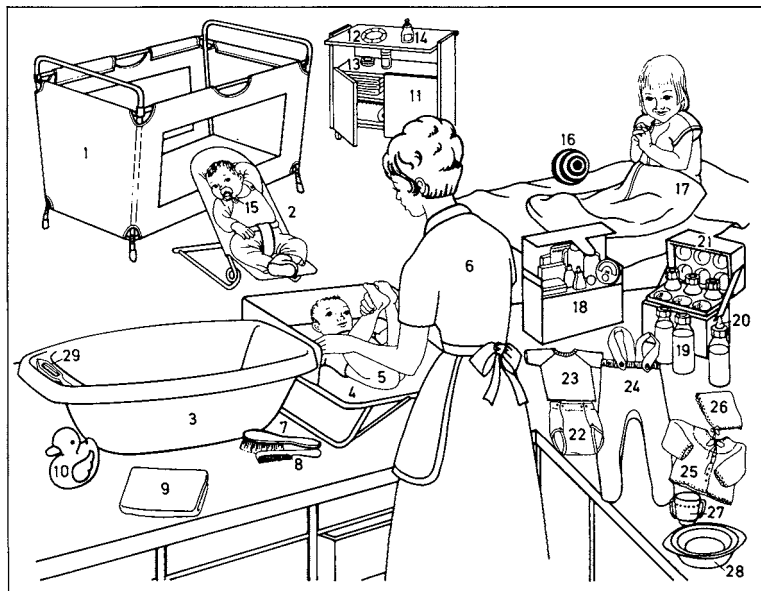
- 53 obstetrical forceps
- 54 roll of plaster

**1-35 X-ray unit**

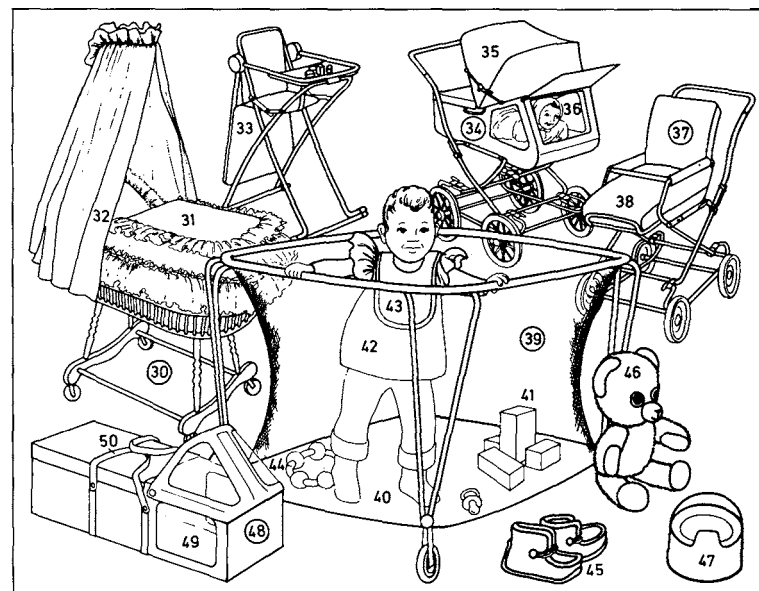
- 1 X-ray examination table
- 2 support for X-ray cassettes
- 3 height adjustment of the central beam for lateral views
- 4 compress for pyelography and cholecystography
- 5 instrument basin
- 6 X-ray apparatus for pyelograms
- 7 X-ray tube
- 8 telescopic X-ray support
- 9 central X-ray control unit
- 10 control panel (control desk)
- 11 radiographer (X-ray technician)
- 12 window to the angiography room
- 13 oxymeter
- 14 pyelogram cassettes
- 15 contrast medium injector
- 16 X-ray image intensifier
- 17 C-shaped frame
- 18 X-ray head with X-ray tube
- 19 image converter with converter tube

- 20 film camera
- 21 foot switch
- 22 mobile mounting
- 23 monitor
- 24 swivel-mounted monitor support
- 25 operating lamp
- 26 angiographic examination table
- 27 pillow
- 28 eight-channel recorder
- 29 recording paper
- 30 catheter gauge (*Am. gage*) unit for catheterization of the heart
- 31 six-channel monitor for pressure graphs and ECG
- 32 slide-in units of the pressure transducer
- 33 paper recorder unit with developer for photographic recording
- 34 recording paper
- 35 timer
- 36-50 spirometry**
- 36 spirograph for pulmonary function tests

- 37 breathing tube
- 38 mouthpiece
- 39 soda-lime absorber
- 40 recording paper
- 41 control knobs for gas supply
- 42 O<sub>2</sub> stabilizer
- 43 throttle valve
- 44 absorber attachment
- 45 oxygen cylinder
- 46 water supply
- 47 tube support
- 48 mask
- 49 CO<sub>2</sub> consumption meter
- 50 stool for the patient



- |                        |   |
|------------------------|---|
| 1 collapsible cot      | 22 rubber baby pants for disposable nappies ( <i>Am.</i> diapers) |
| 2 bouncing cradle      | 23 vest   |
| 3 baby bath            | 24 leggings   |
| 4 changing top         | 25 baby's jacket  |
| 5 baby (new-born baby) | 26 hood   |
| 6 mother               | 27 baby's cup   |
| 7 hairbrush            | 28 baby's plate, a stay-warm plate                                |
| 8 comb                 | 29 thermometer  |
| 9 hand towel           |   |
| 10 toy duck            |   |
| 11 changing unit       |   |
| 12 teething ring       |   |
| 13 cream jar           |   |
| 14 box of baby powder  |   |
| 15 dummy               |   |
| 16 ball                |   |
| 17 sleeping bag        |   |
| 18 layette box         |   |
| 19 feeding bottle      |   |
| 20 teat                |   |
| 21 bottle warmer       |   |



- |  |
|--|
| 30 bassinet, a wicker pram             |
| 31 set of bassinet covers              |
| 32 canopy                              |
| 33 baby's high chair, a folding chair  |
| 34 pram (baby-carriage) [with windows] |
| 35 folding hood                        |
| 36 window                              |
| 37 pushchair ( <i>Am.</i> stroller)    |
| 38 foot-muff ( <i>Am.</i> foot-bag)    |
| 39 play pen                            |
| 40 floor of the play pen               |
| 41 building blocks (building bricks)   |
| 42 small child                         |
| 43 bib                                 |
| 44 rattle (baby's rattle)              |
| 45 booties                             |
| 46 teddy bear                          |
| 47 potty (baby's pot)                  |
| 48 carrycot                            |
| 49 window                              |
| 50 handles                             |

- 1-12 baby clothes
- 1 pram suit
- 2 hood
- 3 pram jacket (matinée coat)
- 4 pompon (bobble)
- 5 bootees
- 6 sleeveless vest
- 7 envelope-neck vest
- 8 wrapover vest
- 9 baby's jacket
- 10 rubber baby pants
- 11 playsuit
- 12 two-piece suit
- 13-30 infants' wear
- 13 child's sundress, a pinafore dress
- 14 frilled shoulder strap
- 15 shirred top
- 16 sun hat
- 17 one-piece jersey suit
- 18 front zip (*Am.* zipper)
- 19 catsuit (playsuit)
- 20 motif (appliqué)
- 21 romper
- 22 playsuit (romper suit)
- 23 coverall (sleeper and strampler)
- 24 dressing gown (bath robe)
- 25 children's shorts
- 26 braces (*Am.* suspenders)
- 27 children's T-shirt
- 28 jersey dress (knitted dress)
- 29 embroidery
- 30 children's ankle socks
- 31-47 school children's wear
- 31 raincoat
- 32 leather shorts (lederhosen)
- 33 staghorn button
- 34 braces (*Am.* suspenders)
- 35 flap
- 36 girl's dirndl
- 37 cross lacing
- 38 snow suit (quilted suit)
- 39 quilt stitching (quilting)
- 40 dungarees (bib and brace)
- 41 bib skirt (bib top pinafore)
- 42 tights
- 43 sweater (jumper)

- 44 pile jacket
- 45 leggings
- 46 girl's skirt
- 47 child's jumper
- 48-68 teenagers' clothes
- 48 girl's overblouse (overtop)
- 49 slacks
- 50 girl's skirt suit
- 51 jacket
- 52 skirt
- 53 knee-length socks
- 54 girl's coat
- 55 tie belt
- 56 girl's bag
- 57 woollen (*Am.* woolen) hat
- 58 girl's blouse
- 59 culottes
- 60 boy's trousers
- 61 boy's shirt
- 62 anorak
- 63 inset pockets
- 64 hood drawstring (drawstring)
- 65 knitted welt
- 66 parka coat (parka)
- 67 drawstring (draw cord)
- 68 patch pockets



- 1

mink jacket
- 2

cowl neck jumper
- 3

cowl collar
- 4

knitted overtop
- 5

turndown collar
- 6

turn-up (turnover) sleeve
- 7

polo neck jumper
- 8

pinafore dress
- 9

blouse (with revers collar)
- 10

shirt-waister dress, a button-through dress
- 11

belt
- 12

winter dress
- 13

pipin
- 14

cuff
- 15

long sleeve
- 16

quilted waistcoat
- 17

quilt stitching (quilting)
- 18

leather trimming
- 19

winter slacks
- 20

striped polo jumper
- 21

boiler suit (dungarees, bib and brace)
- 22

patch pocket
- 23

front pocket
- 24

bib
- 25

wrapover dress (wrap-around dress)
- 26

shirt
- 27

peasant-style dress
- 28

floral braid
- 29

tunic (tunic top)
- 30

ribbed cuff
- 31

quilted design
- 32

pleated skirt
- 33

two-piece knitted dress
- 34

boat neck, a neckline
- 35

turn-up
- 36

kimono sleeve
- 37

knitted design
- 38

lumber-jacket
- 39

cable pattern
- 40

shirt-blouse
- 41

loop fastening
- 42

embroidery
- 43

stand-up collar
- 44

cossack trousers
- 45

two-piece combination (shirt top and long skirt)
- 46

tie (bow)
- 47

decorative facing
- 48

cuff slit
- 49

side slit
- 50

tabard
- 51

inverted pleat skirt
- 52

godet
- 53

evening gown
- 54

pleated bell sleeve
- 55

party blouse
- 56

party skirt
- 57

trouser suit (slack suit)
- 58

suede jacket
- 59

fur trimming
- 60

fur coat (kinds: Persian lamb, broadtail, mink, sable)
- 61

winter coat (cloth coat)
- 62

fur cuff (fur-trimmed cuff)
- 63

fur collar (fur-trimmed collar)
- 64

loden coat
- 65

cape
- 66

toggle fastenings
- 67

loden skirt
- 68

poncho-style coat
- 69

hood



- 1 skirt suit

2 jacket

3 skirt

4 inset pocket

5 decorative stitching

6 dress and jacket combination

7 piping

8 pinafore dress

9 summer dress

10 belt

11 two-piece dress

12 belt buckle

13 wrapover (wrap-around) skirt

14 pencil silhouette

15 shoulder buttons

16 batwing sleeve

17 overdress

18 kimono yoke

19 tie belt

20 summer coat

21 detachable hood

22 summer blouse

23 lapel

24 skirt

25 front pleat

26 dirndl (dirndl dress)

27 puffed sleeve

28 dirndl necklace

29 dirndl blouse

30 bodice

31 dirndl apron

32 lace trimming (lace), cotton lace

33 frilled apron

34 frill

35 smock overall

36 house frock (house dress)

37 poplin jacket

38 T-shirt

39 ladies' shorts

40 trouser turn-up

41 waistband

42 bomber jacket

43 stretch welt

44 Bermuda shorts

45 saddle stitching

46 frill collar

47 knot

48 culotte

49 twin set

50 cardigan

51 sweater

52 summer (lightweight) slacks

53 jumpsuit

54 turn-up

55 zip (Am. zipper)

56 patch pocket

57 scarf (neckerchief)

58 denim suit

59 denim waistcoat

60 jeans (denims)

61 overblouse

62 turned-up sleeve

63 stretch belt

64 halter top

65 knitted otopop

66 drawstring waist

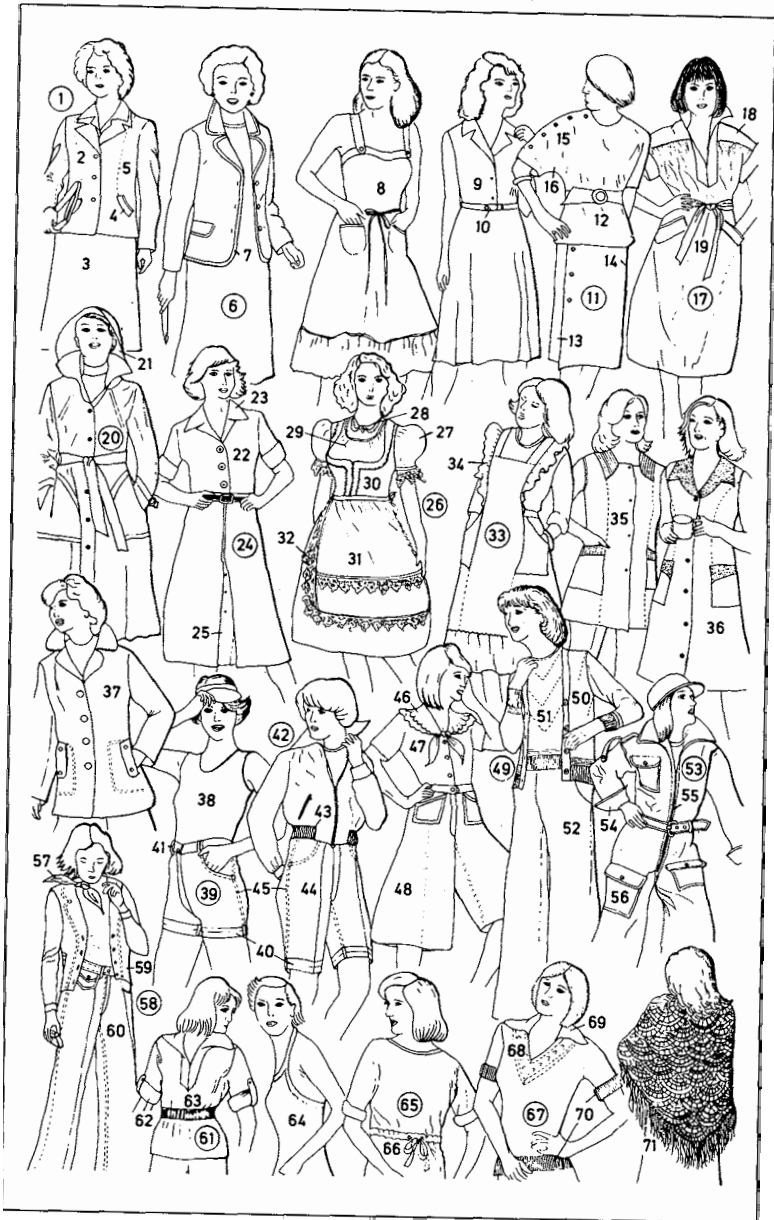
67 short-sleeved jumper

68 V-neck (vee-neck)

69 turndown collar

70 knitted welt

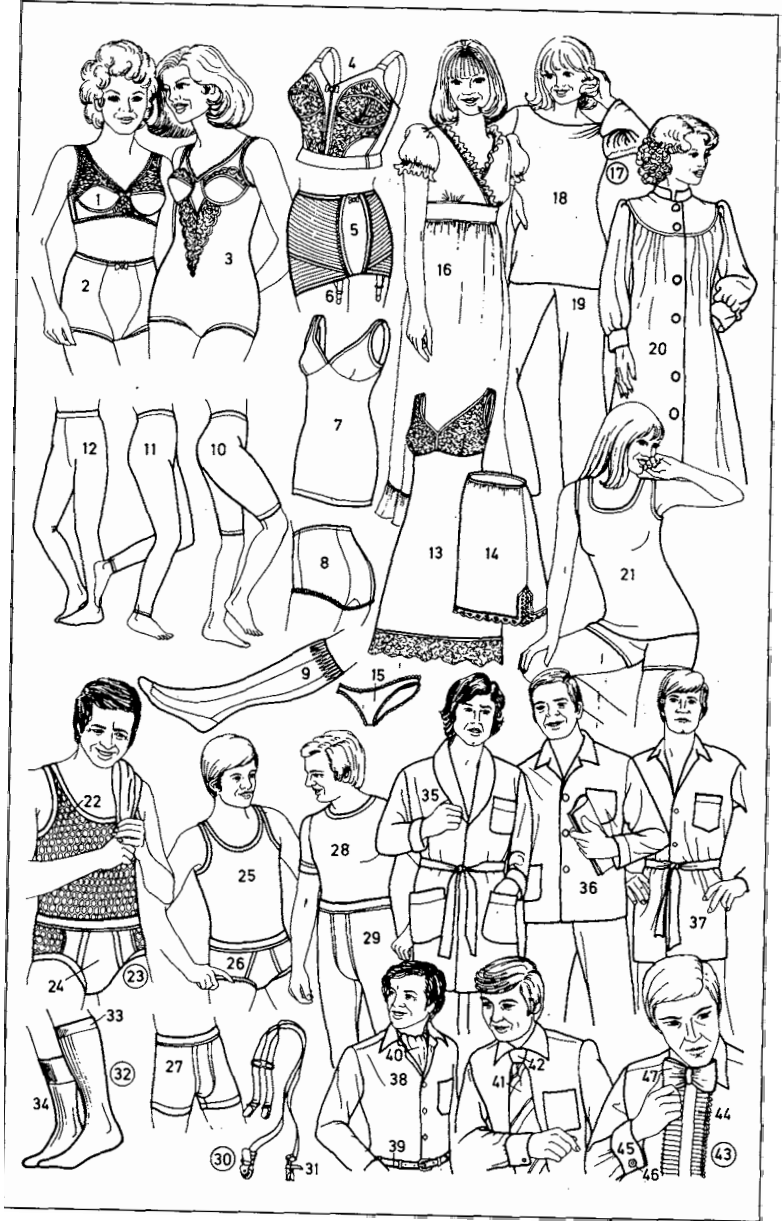
71 shawl





- 1-15 ladies' underwear** (ladies' under-clothes, lingerie)
- 1 brassière (bra)
  - 2 pantie-girdle
  - 3 pantie-corsette
  - 4 longline brassière (longline bra)
  - 5 stretch girdle
  - 6 suspender
  - 7 vest
  - 8 pantie briefs
  - 9 ladies' knee-high stocking
  - 10 long-legged (long leg) panties
  - 11 long pants
  - 12 tights (pantie-hose)
  - 13 slip
  - 14 waist slip
  - 15 bikini briefs
- 16-21 ladies' nightwear**
- 16 nightdress (nightgown, nightie)
  - 17 pyjamas (*Am.* pajamas)
  - 18 pyjama top
  - 19 pyjama trousers
  - 20 housecoat
  - 21 vest and shorts set [for leisure wear and as nightwear]
- 22-29 men's underwear** (men's under-clothes)
- 22 string vest
  - 23 string briefs
  - 24 front panel
  - 25 sleeveless vest
  - 26 briefs
  - 27 trunks
  - 28 short-sleeved vest
  - 29 long johns
  - 30 braces (*Am.* suspenders)
  - 31 braces clip
- 32-34 men's socks**
- 32 knee-length sock
  - 33 elasticated top
  - 34 long sock
- 35-37 men's nightwear**
- 35 dressing gown
  - 36 pyjamas (*Am.* pajamas)
  - 37 nightshirt
- 38-47 men's shirts**
- 38 casual shirt

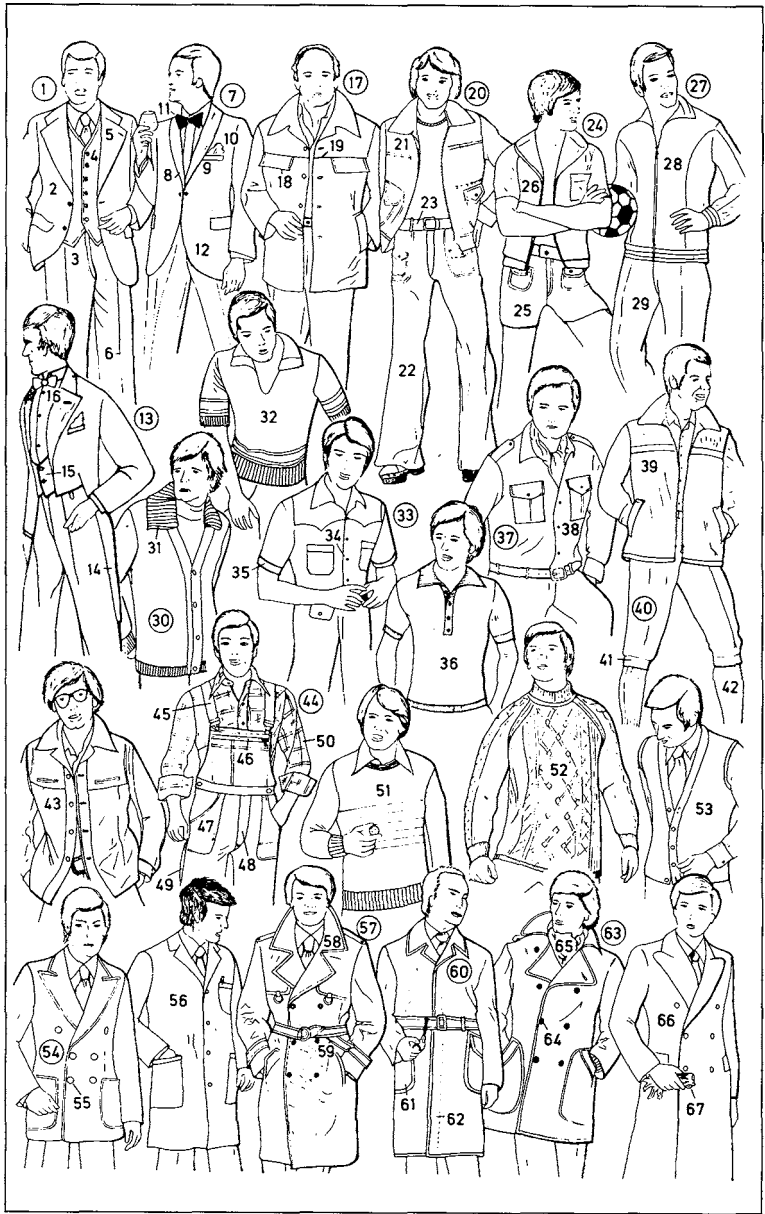
- 39 belt
- 40 cravat
- 41 tie
- 42 knot
- 43 dress shirt
- 44 frill (frill front)
- 45 cuff
- 46 cuff link
- 47 bow-tie



1-67 men's fashion

- 1 single-breasted suit, a men's suit
- 2 jacket
- 3 suit trousers
- 4 waistcoat (vest)
- 5 lapel
- 6 trouser leg with crease
- 7 dinner dress, an evening suit
- 8 silk lapel
- 9 breast pocket
- 10 dress handkerchief
- 11 bow-tie
- 12 side pocket
- 13 tailcoat (tails), evening dress
- 14 coat-tail
- 15 white waistcoat (vest)
- 16 white bow-tie
- 17 casual suit
- 18 pocket flap
- 19 front yoke
- 20 denim suit
- 21 denim jacket
- 22 jeans (denims)
- 23 waistband
- 24 beach suit
- 25 shorts
- 26 short-sleeved jacket
- 27 tracksuit
- 28 tracksuit top with zip
- 29 tracksuit bottoms
- 30 cardigan
- 31 knitted collar
- 32 men's short-sleeved pullover (men's short-sleeved sweater)
- 33 short-sleeved shirt
- 34 shirt button
- 35 turn-up
- 36 knitted shirt
- 37 casual shirt
- 38 patch pocket
- 39 casual jacket
- 40 knee-breeches
- 41 knee strap
- 42 knee-length sock
- 43 leather jacket
- 44 bib and brace overalls

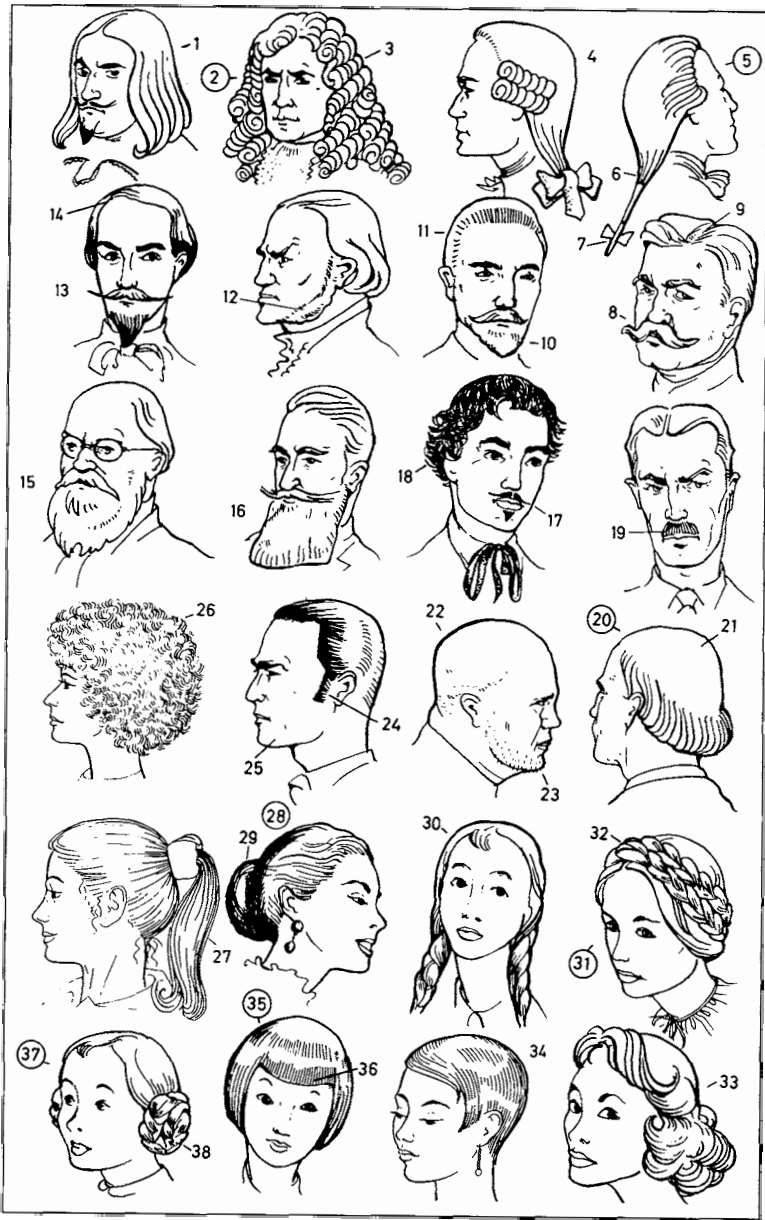
- 45 adjustable braces (*Am. suspenders*)
- 46 front pocket
- 47 trouser pocket
- 48 fly
- 49 rule pocket
- 50 check shirt
- 51 men's pullover
- 52 heavy pullover
- 53 knitted waistcoat (vest)
- 54 blazer
- 55 jacket button
- 56 overall
- 57 trenchcoat
- 58 coat collar
- 59 coat belt
- 60 poplin coat
- 61 coat pocket
- 62 fly front
- 63 car coat
- 64 coat button
- 65 scarf
- 66 cloth coat
- 67 glove



1-25 men's beards and hairstyles

- (haircuts)
- 1 long hair worn loose
- 2 allonge periwig (full-bottomed wig), a wig; *shorter and smoother*: bob wig, toupet
- 3 curls
- 4 bag wig (purse wig)
- 5 pigtail wig
- 6 queue (pigtail)
- 7 bow (ribbon)
- 8 handlebars (handlebar moustache, *Am. mustache*)
- 9 centre (*Am. center*) parting
- 10 goatee (goatee beard), chintuft
- 11 closely-cropped head of hair (crew cut)
- 12 whiskers
- 13 Vandyke beard (stiletto beard, bodkin beard), with waxed moustache (*Am. mustache*)
- 14 side parting
- 15 full beard (circular beard, round beard)
- 16 tile beard
- 17 shadow
- 18 head of curly hair
- 19 military moustache (*Am. moustache*) (English-style moustache)
- 20 partly bald head
- 21 bald patch
- 22 bald head
- 23 stubble beard (stubble, short beard bristles)
- 24 side-whiskers (sideboards, sideburns)
- 25 clean shave
- 26 Afro look (for men and women)
- 27-38 ladies' hairstyles (coiffures, women's and girls' hairstyles)
- 27 ponytail
- 28 swept-back hair (swept-up hair, pinned-up hair)
- 29 bun (chignon)
- 30 plaits (bunches)
- 31 chaplet hairstyle (Gretchen style)
- 32 chaplet (coiled plaits)

- 33 curled hair
- 34 shingle (shingled hair, bobbed hair)
- 35 pageboy style
- 36 fringe (*Am. bangs*)
- 37 earphones
- 38 earphone (coiled plait)

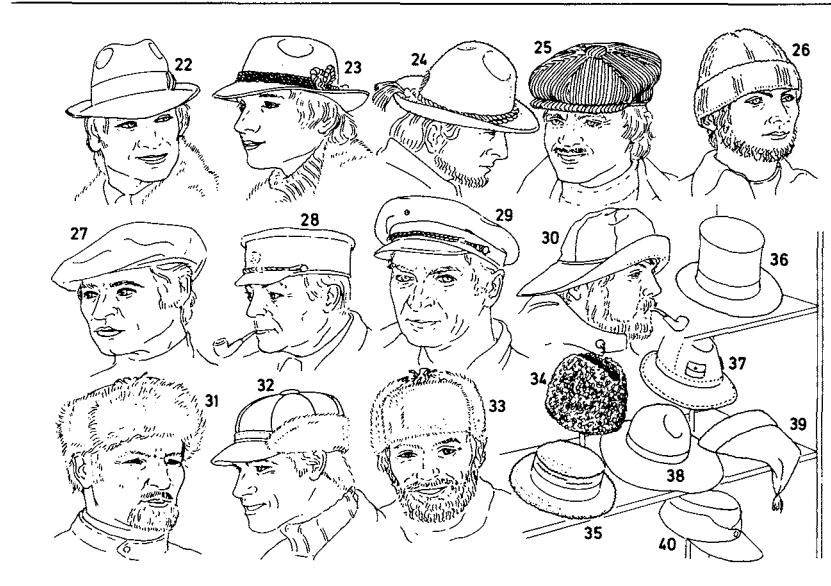


**1-21 ladies' hats and caps**

- 1 milliner making a hat
- 2 hood
- 3 block
- 4 decorative pieces
- 5 sombrero
- 6 mohair hat with feathers
- 7 model hat with fancy appliqué
- 8 linen cap (jockey cap)
- 9 hat made of thick candlewick yarn
- 10 woollen (*Am.* woolen) hat (knitted hat)
- 11 mohair hat
- 12 cloche with feathers
- 13 large men's hat made of sisal with corded ribbon
- 14 trilby-style hat with fancy ribbon
- 15 soft felt hat
- 16 Panama hat with scarf
- 17 peaked mink cap
- 18 mink hat
- 19 fox hat with leather top

**20 mink cap**

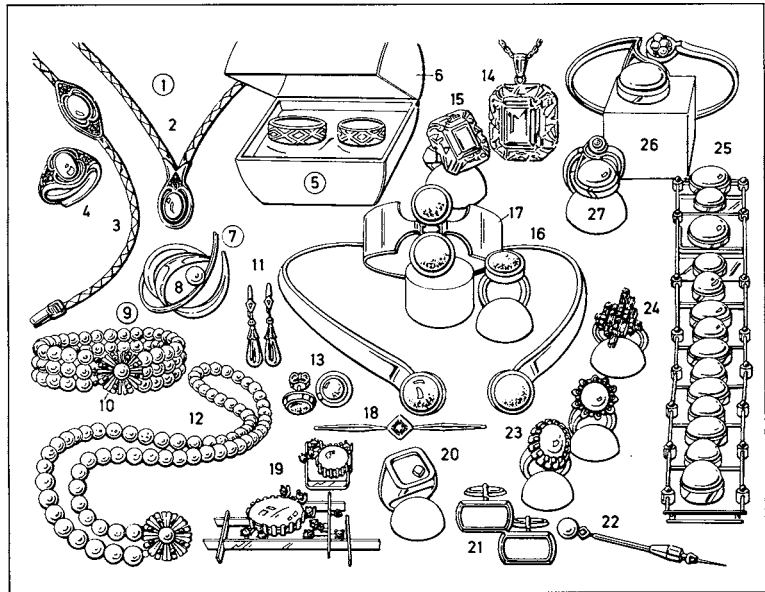
- 21 slouch hat trimmed with flowers

**22-40 men's hats and caps**

- 22 trilby hat (trilby)
- 23 loden hat (Alpine hat)
- 24 felt hat with tassels (Tyrolean hat, Tyrolese hat)
- 25 corduroy cap
- 26 woollen (*Am.* woolen) hat
- 27 beret
- 28 German sailor's cap ('Prinz Heinrich' cap)
- 29 peaked cap (yachting cap)
- 30 sou'wester (southwester)
- 31 fox cap with earflaps
- 32 leather cap with fur flaps
- 33 musquash cap
- 34 astrakhan cap, a real or imitation astrakhan cap
- 35 boater
- 36 (grey, *Am.* gray, or black) top hat made of silk taffeta; *collapsible*: crush hat (opera hat, claque)
- 37 sun hat (lightweight hat) made of cloth with small patch pocket

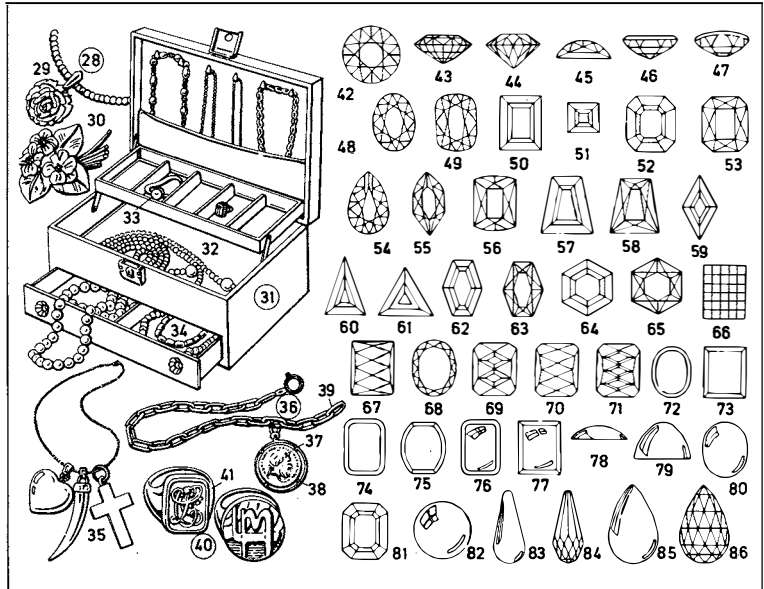
**38 wide-brimmed hat**

- 39 toboggan cap (skiing cap, ski cap)
- 40 workman's cap



- 1 set of jewellery (Am. jewelry)
- 2 necklace
- 3 bracelet
- 4 ring
- 5 wedding rings
- 6 wedding ring box
- 7 brooch, a pearl brooch
- 8 pearl
- 9 cultured pearl bracelet
- 10 clasp, a white gold clasp
- 11 pendant earrings (drop earrings)
- 12 cultured pearl necklace
- 13 earrings
- 14 gemstone pendant
- 15 gemstone ring
- 16 choker (collar, neckband)
- 17 bangle
- 18 diamond pin
- 19 modern-style brooches
- 20 man's ring
- 21 cuff links
- 22 tiepin
- 23 diamond ring with pearl

- 24 modern-style diamond ring
- 25 gemstone bracelet
- 26 asymmetrical bangle
- 27 asymmetrical ring
- 28 ivory necklace
- 29 ivory rose
- 30 ivory brooch
- 31 jewel box (jewel case)
- 32 pearl necklace
- 33 bracelet watch
- 34 coral necklace
- 35 charms
- 36 coin bracelet
- 37 gold coin
- 38 coin setting
- 39 link
- 40 signet ring
- 41 engraving (monogram)
- 42-86 cuts and forms



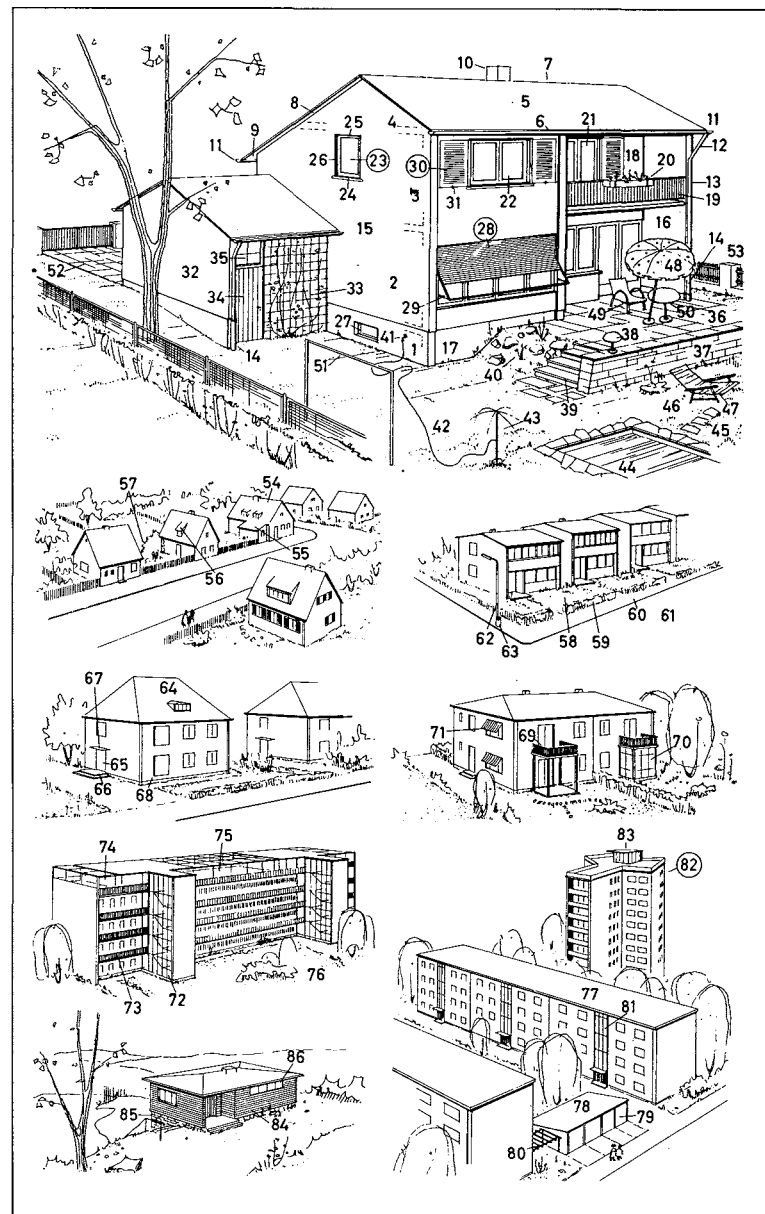
- 42-71 faceted stones
- 42, 43 standard round cut
- 44 brilliant cut
- 45 rose cut
- 46 flat table
- 47 table en cabochon
- 48 standard cut
- 49 standard antique cut
- 50 rectangular step-cut
- 51 square step-cut
- 52 octagonal step-cut
- 53 octagonal cross-cut
- 54 standard pear-shape (pendeloque)
- 55 marquise (navette)
- 56 standard barrel-shape
- 57 trapezium step-cut
- 58 trapezium cross-cut
- 59 rhombus step-cut
- 60, 61 triangular step-cut
- 62 hexagonal step-cut
- 63 oval hexagonal cross-cut
- 64 round hexagonal step-cut
- 65 round hexagonal cross-cut

- 66 chequer-board cut
- 67 triangle cut
- 68-71 fancy cuts
- 72-77 ring gemstones
- 72 oval flat table
- 73 rectangular flat table
- 74 octagonal flat table
- 75 barrel-shape
- 76 antique table en cabochon
- 77 rectangular table en cabochon
- 78-81 cabochons
- 78 round cabochon (simple cabochon)
- 79 high dome (high cabochon)
- 80 oval cabochon
- 81 octagonal cabochon
- 82-86 spheres and pear-shapes
- 82 plain sphere
- 83 plain pear-shape
- 84 faceted pear-shape
- 85 plain drop
- 86 faceted briolette

1-53 detached house

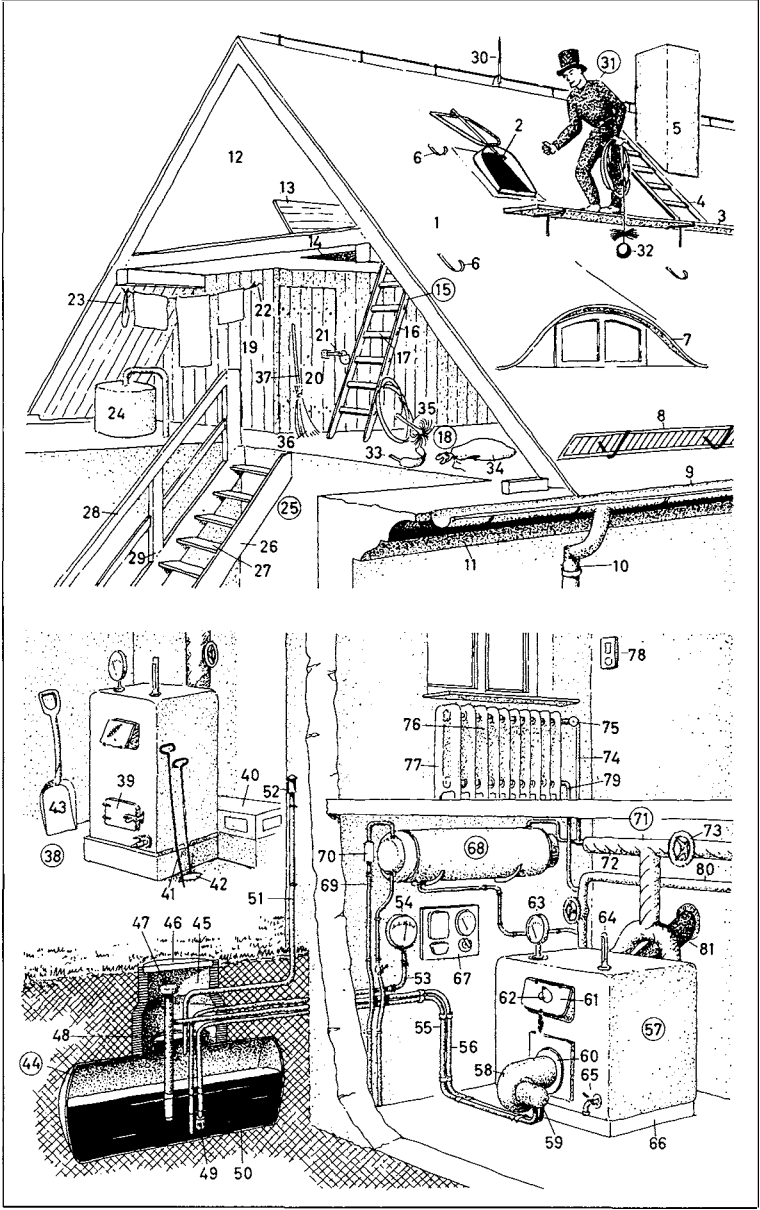
- 1 basement
- 2 ground floor (*Am.* first floor)
- 3 upper floor (first floor, *Am.* second floor)
- 4 loft
- 5 roof, a gable roof (saddle roof, saddle-back roof)
- 6 gutter
- 7 ridge
- 8 verge with bargeboards
- 9 eaves, rafter-supported eaves
- 10 chimney
- 11 gutter
- 12 swan's neck (swan-neck)
- 13 rainwater pipe (downpipe, *Am.* downspout, leader)
- 14 vertical pipe, a cast-iron pipe
- 15 gable (gable end)
- 16 glass wall
- 17 base course (plinth)
- 18 balcony
- 19 parapet
- 20 flower box
- 21 French window (French windows) opening on to the balcony
- 22 double casement window
- 23 single casement window
- 24 window breast with window sill
- 25 lintel (window head)
- 26 reveal
- 27 cellar window
- 28 rolling shutter
- 29 rolling shutter frame
- 30 window shutter (folding shutter)
- 31 shutter catch
- 32 garage with tool shed
- 33 espalier
- 34 batten door (ledged door)
- 35 fanlight with mullion and transom
- 36 terrace
- 37 garden wall with coping stones
- 38 garden light
- 39 steps
- 40 rockery (rock garden)
- 41 outside tap (*Am.* faucet) for the hose
- 42 garden hose
- 43 lawn sprinkler
- 44 paddling pool
- 45 stepping stones
- 46 sunbathing area (lawn)
- 47 deck-chair
- 48 sunshade (garden parasol)
- 49 garden chair
- 50 garden table
- 51 frame for beating carpets

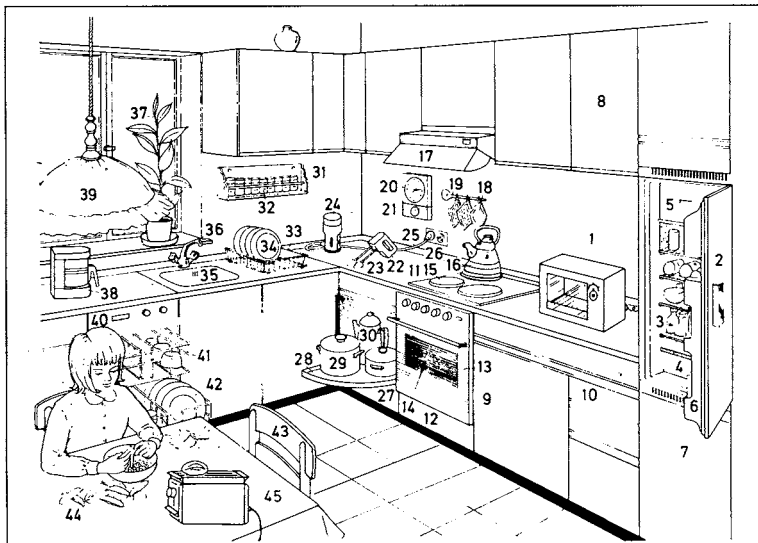
- 52 garage driveway
- 53 fence, a wooden fence
- 54-57 housing estate (housing development)
- 54 house on a housing estate (on a housing development)
- 55 pent roof (penthouse roof)
- 56 dormer (dormer window)
- 57 garden
- 58-63 terraced house [one of a row of terraced houses], **stepped**
- 58 front garden
- 59 hedge
- 60 pavement (*Am.* sidewalk, walkway)
- 61 street (road)
- 62 street lamp (street light)
- 63 litter bin (*Am.* trash bin)
- 64-68 house divided into two flats (*Am.* house divided into two apartments, duplex house)
- 64 hip (hipped) roof
- 65 front door
- 66 front steps
- 67 canopy
- 68 flower window (window for house plants)
- 69-71 pair of semi-detached houses divided into four flats (*Am.* apartments)
- 69 balcony
- 70 sun lounge (*Am.* sun parlor)
- 71 awning (sun blind, sunshade)
- 72-76 block of flats (*Am.* apartment building, apartment house) with access balconies
- 72 staircase
- 73 balcony
- 74 studio flat (*Am.* studio apartment)
- 75 sun roof, a sun terrace
- 76 open space
- 77-81 multi-storey block of flats (*Am.* multi-story apartment building, multistory apartment house)
- 77 flat roof
- 78 pent roof (shed roof, lean-to roof)
- 79 garage
- 80 pergola
- 81 staircase window
- 82 high-rise block of flats (*Am.* high-rise apartment building, high-rise apartment house)
- 83 penthouse
- 84-86 weekend house, a timber house
- 84 horizontal boarding
- 85 natural stone base course (natural stone plinth)
- 86 strip windows (ribbon windows)



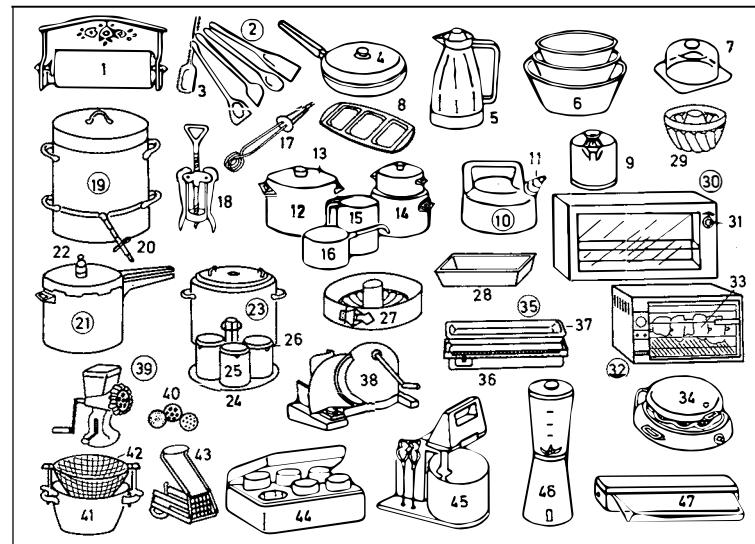
- 1-29 attic
- 1 roof cladding (roof covering)
- 2 skylight
- 3 gangway
- 4 cat ladder (roof ladder)
- 5 chimney
- 6 roof hook
- 7 dormer window (dormer)
- 8 snow guard (roof guard)
- 9 gutter
- 10 rainwater pipe (downpipe, *Am.* downspout, leader)
- 11 eaves
- 12 pitched roof
- 13 trapdoor
- 14 hatch
- 15 ladder
- 16 stile
- 17 rung
- 18 loft (attic)
- 19 wooden partition
- 20 lumber room door (boxroom door)
- 21 padlock
- 22 hook [for washing line]
- 23 clothes line (washing line)
- 24 expansion tank for boiler
- 25 wooden steps and balustrade
- 26 string (*Am.* stringer)
- 27 step
- 28 handrail (guard rail)
- 29 baluster
- 30 lightning conductor (lightning rod)
- 31 chimney sweep (*Am.* chimney sweeper)
- 32 brush with weight
- 33 shoulder iron
- 34 sack for soot
- 35 flue brush
- 36 broom (besom)
- 37 broomstick (broom handle)
- 38-81 hot-water heating system, full central heating
- 38-43 boiler room
- 38 coke-fired central heating system
- 39 ash box door (*Am.* cleanout door)
- 40 flueblock

- 41 poker
- 42 rake
- 43 coal shovel
- 44-60 oil-fired central heating system
- 44 oil tank
- 45 manhole
- 46 manhole cover
- 47 tank inlet
- 48 dome cover
- 49 tank bottom valve
- 50 fuel oil (heating oil)
- 51 air-bleed duct
- 52 air vent cap
- 53 oil level pipe
- 54 oil gauge (*Am.* gage)
- 55 suction pipe
- 56 return pipe
- 57 central heating furnace (oil heating furnace)
- 58-60 oil burner
- 58 fan
- 59 electric motor
- 60 covered pilot light
- 61 charging door
- 62 inspection window
- 63 water gauge (*Am.* gage)
- 64 furnace thermometer
- 65 bleeder
- 66 furnace bed
- 67 control panel
- 68 hot water tank (boiler)
- 69 overflow pipe (overflow)
- 70 safety valve
- 71 main distribution pipe
- 72 lagging
- 73 valve
- 74 flow pipe
- 75 regulating valve
- 76 radiator
- 77 radiator rib
- 78 room thermostat
- 79 return pipe (return)
- 80 return pipe [in two-pipe system]
- 81 smoke outlet (smoke extract)



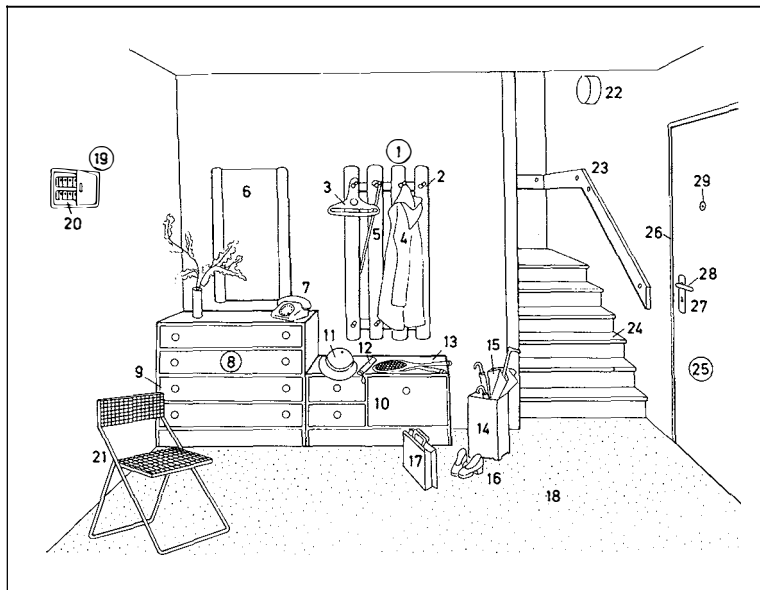


- |  |  |
|--|--|
| 1 microwave oven (microwave)                   | 24 electric coffee grinder (with rotating blades)                                      |
| 2 refrigerator (fridge, <i>Am.</i> icebox)     | 25 lead  |
| 3 refrigerator shelf                           | 26 wall socket   |
| 4 salad drawer                                 | 27 corner unit   |
| 5 freezing compartment                         | 28 revolving shelf   |
| 6 bottle rack (in storage door)                | 29 pot (cooking pot)   |
| 7 upright freezer                              | 30 jug   |
| 8 wall cupboard, a kitchen cupboard            | 31 spice rack  |
| 9 base unit                                    | 32 spice jar   |
| 10 cutlery drawer                              | 33-36 sink unit  |
| 11 work surface (worktop)                      | 33 dish drainer  |
| 12-17 cooker unit                              | 34 tea plate   |
| 12 electric cooker ( <i>also</i> : gas cooker) | 35 sink  |
| 13 oven  | 36 water tap ( <i>Am.</i> faucet); <i>here</i> : mixer tap ( <i>Am.</i> mixing faucet) |
| 14 oven window                                 | 37 pot plant, a foliage plant  |
| 15 hotplate, an automatic high-speed plate     | 38 coffee maker  |
| 16 kettle (whistling kettle)                   | 39 kitchen lamp  |
| 17 cooker hood                                 | 40 dishwasher (dishwashing machine)  |
| 18 pot holder                                  | 41 dish rack   |
| 19 pot holder rack                             | 42 dinner plate  |
| 20 kitchen clock                               | 43 kitchen chair   |
| 21 timer                                       | 44 kitchen table   |
| 22 hand mixer                                  | 45 toaster   |
| 23 whisk                                       |  |

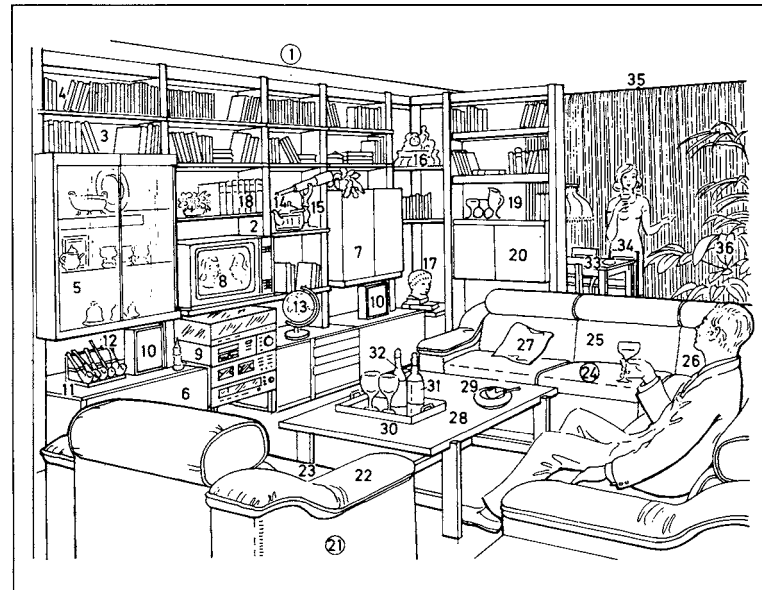


- |  |                                      |
|--|--------------------------------------|
| 1 general-purpose roll holder with kitchen roll (paper towels) | 24 removable rack                    |
| 2 set of wooden spoons   | 25 preserving jar                    |
| 3 mixing spoon   | 26 rubber ring                       |
| 4 frying pan   | 27 spring form                       |
| 5 Thermos jug  | 28 cake tin                          |
| 6 set of bowls   | 29 cake tin                          |
| 7 cheese dish with glass cover                                 | 30 microwave oven (microwave)        |
| 8 three-compartment dish                                       | 31 timer                             |
| 9 lemon squeezer   | 32 rotisserie                        |
| 10 whistling kettle  | 33 spit                              |
| 11 whistle   | 34 electric waffle iron              |
| 12-16 pan set  | 35 sliding-weight scales             |
| 12 pot (cooking pot)   | 36 sliding weight                    |
| 13 lid   | 37 scale pan                         |
| 14 casserole dish  | 38 food slicer                       |
| 15 milk pot  | 39 mincer ( <i>Am.</i> meat chopper) |
| 16 saucepan  | 40 blades                            |
| 17 immersion heater  | 41 chip pan                          |
| 18 corkscrew [with levers]                                     | 42 basket                            |
| 19 juice extractor   | 43 potato chipper                    |
| 20 tube clamp (tube clip)                                      | 44 yoghurt maker                     |
| 21 pressure cooker   | 45 mixer                             |
| 22 pressure valve  | 46 blender                           |
| 23 fruit preserver   | 47 bag sealer                        |

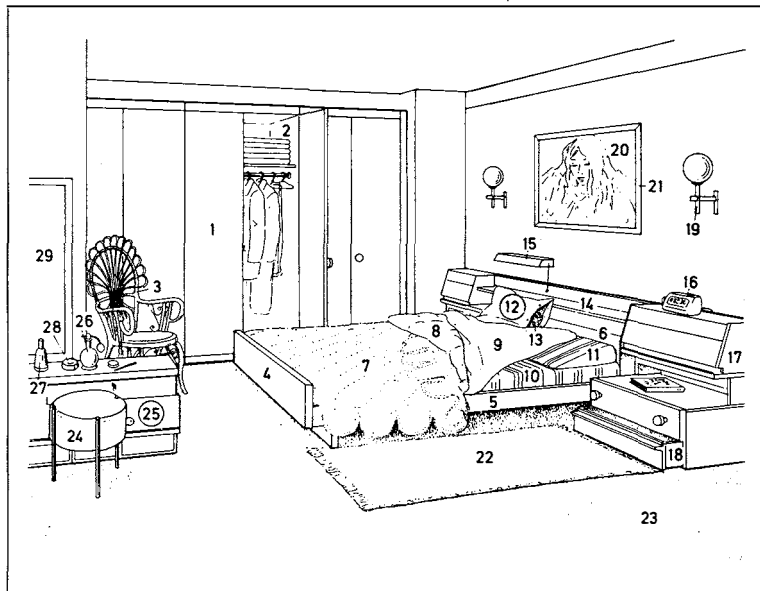


**1-29 hall (entrance hall)**

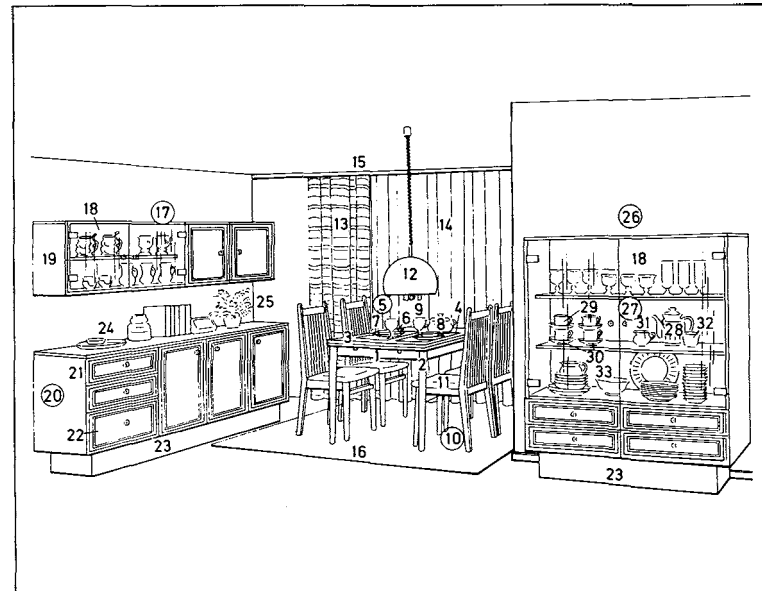
- |                                     |                |
|-------------------------------------|----------------|
| 1 coat rack                         | 23 handrail    |
| 2 coat hook                         | 24 step        |
| 3 coat hanger                       | 25 front door  |
| 4 rain cape                         | 26 door frame  |
| 5 walking stick                     | 27 door lock   |
| 6 hall mirror                       | 28 door handle |
| 7 telephone                         | 29 spyhole     |
| 8 chest of drawers for shoes, etc.  |                |
| 9 drawer                            |                |
| 10 seat                             |                |
| 11 ladies' hat                      |                |
| 12 telescopic umbrella              |                |
| 13 tennis rackets (tennis racquets) |                |
| 14 umbrella stand                   |                |
| 15 umbrella                         |                |
| 16 shoes                            |                |
| 17 briefcase                        |                |
| 18 fitted carpet                    |                |
| 19 fuse box                         |                |
| 20 miniature circuit breaker        |                |
| 21 tubular steel chair              |                |
| 22 stair light                      |                |

**1-20 wall units (shelf units)**

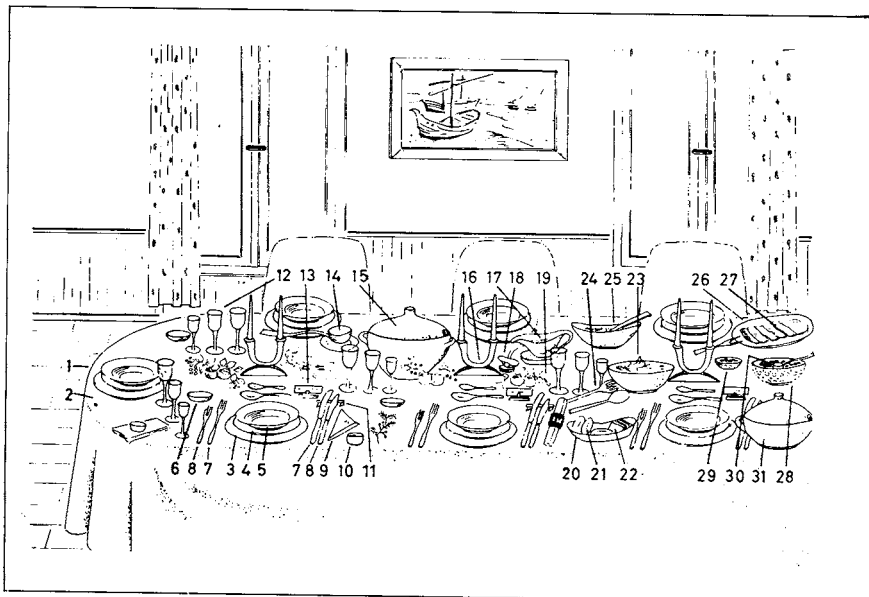
- |  |                                    |
|--|------------------------------------|
| 1 side wall                                    | 21 armchair                        |
| 2 bookshelf                                    | 22 arm                             |
| 3 row of books                                 | 23 seat cushion (cushion)          |
| 4 display cabinet unit                         | 24 settee                          |
| 5 cupboard base unit                           | 25 back cushion                    |
| 6 cupboard unit                                | 26 [round] corner section          |
| 7 television set (TV set)                      | 27 scatter cushion                 |
| 8 stereo system (stereo equipment)             | 28 coffee table                    |
| 9 speaker (loudspeaker)                        | 29 ashtray                         |
| 10 pipe rack                                   | 30 tray                            |
| 11 pipe  | 31 whisky (whiskey) bottle         |
| 12 globe                                       | 32 soda water bottle (soda bottle) |
| 13 brass kettle                                | <b>33-34 dining set</b>            |
| 14 telescope                                   | 33 dining table                    |
| 15 mantle clock                                | 34 chair                           |
| 16 bust  | 35 net curtain                     |
| 17 encyclopaedia [in several volumes]          | 36 indoor plants (houseplants)     |
| 18 room divider                                |                                    |
| 19 drinks cupboard                             |                                    |
| <b>21-26 upholstered suite (seating group)</b> |                                    |



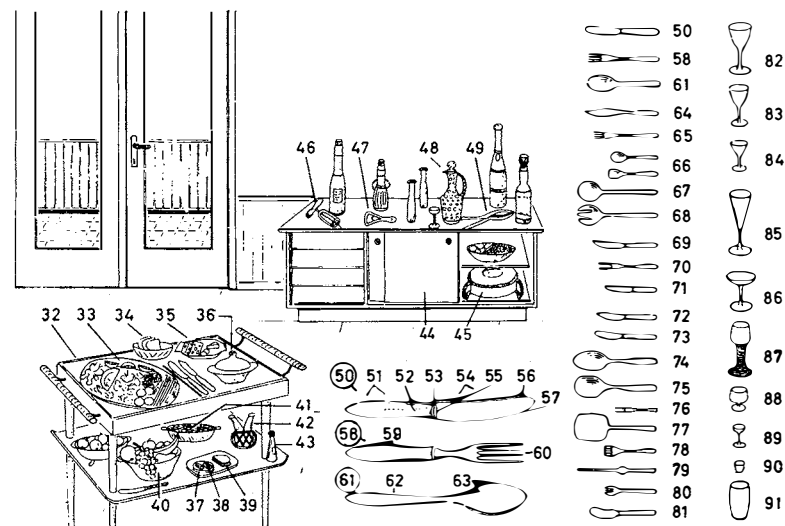
- |  |                                   |
|--|-----------------------------------|
| 1 wardrobe (Am. clothes closet)              | 19 bedroom lamp                   |
| 2 linen shelf                                | 20 picture                        |
| 3 cane chair                                 | 21 picture frame                  |
| 4-13 double bed (sim.: double divan)         | 22 bedside rug                    |
| 4-6 bedstead                                 | 23 fitted carpet                  |
| 4 foot of the bed                            | 24 dressing stool                 |
| 5 bed frame                                  | 25 dressing table                 |
| 6 headboard                                  | 26 perfume spray                  |
| 7 bedspread                                  | 27 perfume bottle                 |
| 8 duvet, a quilted duvet                     | 28 powder box                     |
| 9 sheet, a linen sheet                       | 29 dressing-table mirror (mirror) |
| 10 mattress, a foam mattress with drill tick |                                   |
| 11 [wedge-shaped] bolster                    |                                   |
| 12, 13 pillow                                |                                   |
| 12 pillowcase (pillowslip)                   |                                   |
| 13 tick                                      |                                   |
| 14 bookshelf [attached to the headboard]     |                                   |
| 15 reading lamp                              |                                   |
| 16 electric alarm clock                      |                                   |
| 17 bedside cabinet                           |                                   |
| 18 drawer                                    |                                   |



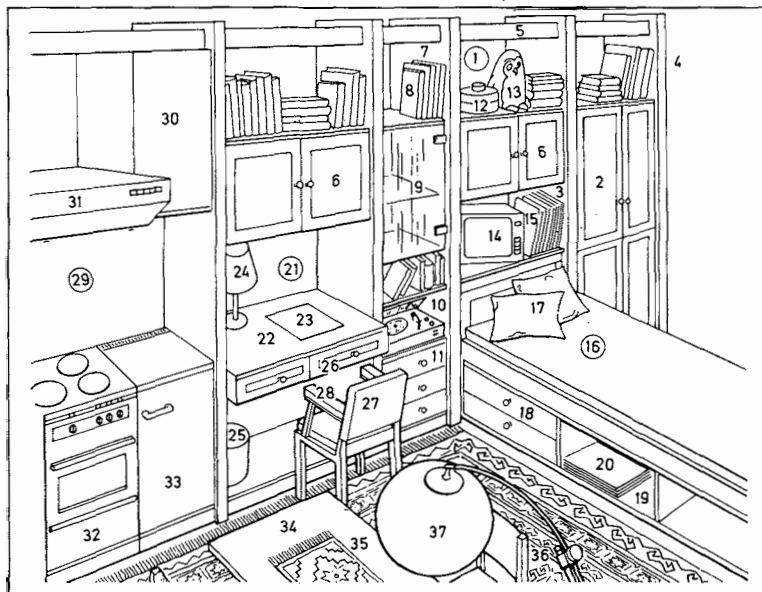
- |                                |                                    |
|--------------------------------|------------------------------------|
| <b>1-11 dining set</b>         | 23 base                            |
| 1 dining table                 | 24 round tray                      |
| 2 table leg                    | 25 pot plant                       |
| 3 table top                    | 26 china cabinet (display cabinet) |
| 4 place mat                    | 27 coffee set (coffee service)     |
| 5 place (place setting, cover) | 28 coffee pot                      |
| 6 soup plate (deep plate)      | 29 coffee cup                      |
| 7 dinner plate                 | 30 saucer                          |
| 8 soup tureen                  | 31 milk jug                        |
| 9 wineglass                    | 32 sugar bowl                      |
| 10 dining chair                | 33 dinner set (dinner service)     |
| 11 seat                        |                                    |
| 12 lamp (pendant lamp)         |                                    |
| 13 curtains                    |                                    |
| 14 net curtain                 |                                    |
| 15 curtain rail                |                                    |
| 16 carpet                      |                                    |
| 17 wall unit                   |                                    |
| 18 glass door                  |                                    |
| 19 shelf                       |                                    |
| 20 sideboard                   |                                    |
| 21 cutlery drawer              |                                    |
| 22 linen drawer                |                                    |



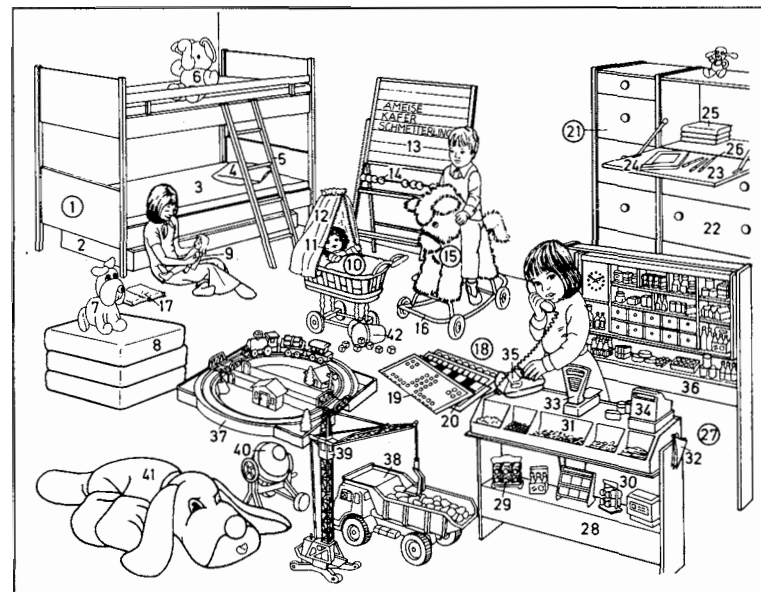
- 1 dining table
- 2 tablecloth, a damask cloth
- 3-12 place (place setting, cover)
- 3 bottom plate
- 4 dinner plate
- 5 deep plate (soup plate)
- 6 dessert plate (dessert bowl)
- 7 knife and fork
- 8 fish knife and fork
- 9 serviette (napkin, table napkin)
- 10 serviette ring (napkin ring)
- 11 knife rest
- 12 wineglasses
- 13 place card
- 14 soup ladle
- 15 soup tureen (tureen)
- 16 candelabra
- 17 sauceboat (gravy boat)
- 18 sauce ladle (gravy ladle)
- 19 table decoration
- 20 bread basket
- 21 roll
- 22 slice of bread
- 23 salad bowl
- 24 salad servers
- 25 vegetable dish
- 26 meat plate (*Am.* meat platter)
- 27 roast meat (roast)
- 28 fruit dish
- 29 fruit bowl
- 30 fruit (stewed fruit)
- 31 potato dish
- 32 serving trolley
- 33 vegetable plate (*Am.* vegetable platter)
- 34 toast
- 35 cheeseboard
- 36 butter dish
- 37 open sandwich
- 38 filling
- 39 sandwich
- 40 fruit bowl
- 41 almonds (*also*: potato crisps, peanuts)
- 42 oil and vinegar bottle
- 43 ketchup (catchup, catsup)
- 44 sideboard
- 45 electric hotplate
- 46 corkscrew
- 47 crown cork bottle opener (crown cork opener), a bottle opener



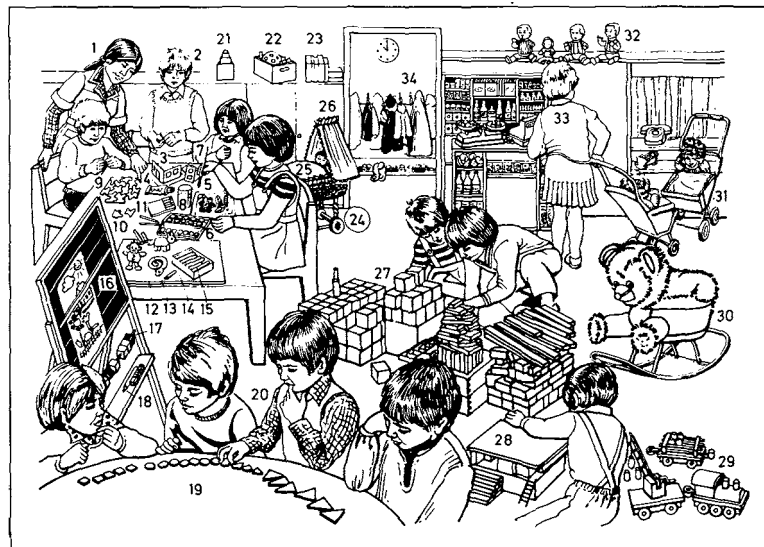
- 48 liqueur decanter
- 49 nutcrackers (nutcracker)
- 50 knife
- 51 handle
- 52 tang (tongue)
- 53 ferrule
- 54 blade
- 55 bolster
- 56 back
- 57 edge (cutting edge)
- 58 fork
- 59 handle
- 60 prong (tang, tine)
- 61 spoon; *here*: dessert spoon, soup spoon
- 62 handle
- 63 bowl
- 64 fish knife
- 65 fish fork
- 66 dessert spoon (fruit spoon)
- 67 salad spoon
- 68 salad fork
- 69, 70 carving set (serving cutlery)
- 69 carving knife
- 70 serving fork
- 71 fruit knife
- 72 cheese knife
- 73 butter knife
- 74 vegetable spoon, a serving spoon
- 75 potato server (serving spoon for potatoes)
- 76 cocktail fork
- 77 asparagus server (asparagus slice)
- 78 sardine server
- 79 lobster fork
- 80 oyster fork
- 81 caviare knife
- 82 white wine glass
- 83 red wine glass
- 84 sherry glass (madeira glass)
- 85, 86 champagne glasses
- 85 tapered glass
- 86 champagne glass, a crystal glass
- 87 rummer
- 88 brandy glass
- 89 liqueur glass
- 90 spirit glass
- 91 beer glass



- |  |   |
|--|---|
| 1 wall units (shelf units)                         | 22 desk                                     |
| 2 wardrobe door ( <i>Am.</i> clothes closet door)  | 23 desk mat (blotter)                       |
| 3 body   | 24 table lamp                               |
| 4 side wall  | 25 wastepaper basket                        |
| 5 trim   | 26 desk drawer                              |
| 6 two-door cupboard unit                           | 27 desk chair                               |
| 7 bookshelf unit (bookcase unit) [with glass door] | 28 arm                                      |
| 8 books  | 29 kitchen unit                             |
| 9 display cabinet                                  | 30 wall cupboard                            |
| 10 record player                                   | 31 cooker hood                              |
| 11 drawer  | 32 electric cooker                          |
| 12 decorative biscuit tin                          | 33 refrigerator (fridge, <i>Am.</i> icebox) |
| 13 soft toy animal                                 | 34 dining table                             |
| 14 television set (TV set)                         | 35 table runner                             |
| 15 records (discs)                                 | 36 oriental carpet                          |
| 16 bed unit  | 37 standard lamp                            |
| 17 scatter cushion                                 |   |
| 18 bed unit drawer                                 |   |
| 19 bed unit shelf                                  |   |
| 20 magazines                                       |   |
| 21 desk unit (writing unit)                        |   |



- |  |   |
|--|---|
| 1 children's bed, a bunk bed             | 24 notebook (exercise book)                                   |
| 2 storage box                            | 25 school books   |
| 3 mattress                               | 26 pencil ( <i>also:</i> crayon, felt tip pen, ballpoint pen) |
| 4 pillow                                 | 27 toy shop   |
| 5 ladder                                 | 28 counter  |
| 6 soft toy elephant, a cuddly toy animal | 29 spice rack   |
| 7 soft toy dog                           | 30 display  |
| 9 fashion doll                           | 31 assortment of sweets ( <i>Am.</i> candies)                 |
| 10 doll's pram                           | 32 bag of sweets ( <i>Am.</i> candies)                        |
| 11 sleeping doll                         | 33 scales   |
| 12 canopy                                | 34 cash register  |
| 13 blackboard                            | 35 toy telephone  |
| 14 counting beads                        | 36 shop shelves (goods shelves)                               |
| 15 toy horse for rocking and pulling     | 37 wooden train set   |
| 16 rockers                               | 38 dump truck, a toy lorry (toy truck)                        |
| 17 children's book                       | 39 tower crane  |
| 18 compendium of games                   | 40 concrete mixer   |
| 19 ludo                                  | 41 large soft toy dog   |
| 20 chessboard                            | 42 dice cup   |
| 21 children's cupboard                   |   |
| 22 linen drawer                          |   |
| 23 drop-flap writing surface             |   |



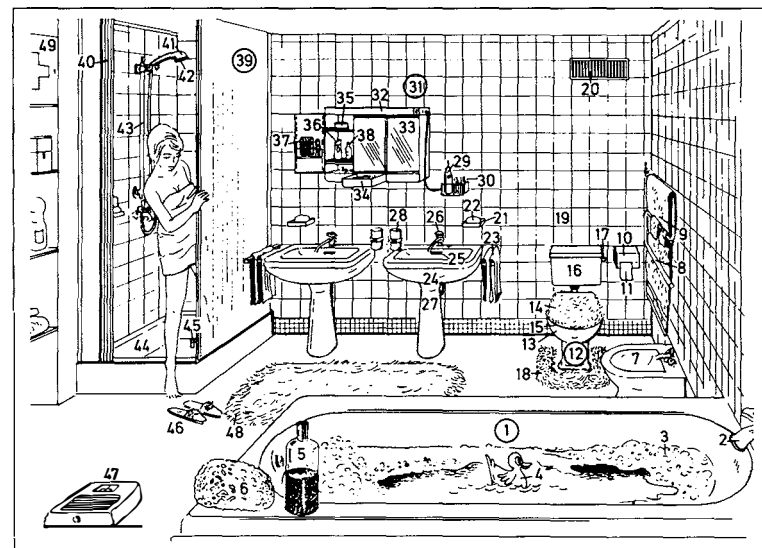
### 1-20 pre-school education (nursery education)

- 1 nursery teacher
- 2 nursery child
- 3 handicraft
- 4 glue
- 5 watercolour (*Am.* watercolor) painting
- 6 paintbox
- 7 paintbrush
- 8 glass of water
- 9 jigsaw puzzle (puzzle)
- 10 jigsaw puzzle piece
- 11 coloured (*Am.* colored) pencils (wax crayons)
- 12 modelling (*Am.* modeling) clay (Plasticine)
- 13 clay figures (Plasticine figures)
- 14 modelling (*Am.* modeling) board
- 15 chalk (blackboard chalk)
- 16 blackboard
- 17 counting blocks
- 18 felt pen (felt tip pen)
- 19 shapes game

### 20 group of players

### 21-32 toys

- 21 building and filling cubes
- 22 construction set
- 23 children's books
- 24 doll's pram, a wicker pram
- 25 baby doll
- 26 canopy
- 27 building bricks (building blocks)
- 28 wooden model building
- 29 wooden train set
- 30 rocking teddy bear
- 31 doll's pushchair
- 32 fashion doll
- 33 child of nursery school age
- 34 cloakroom

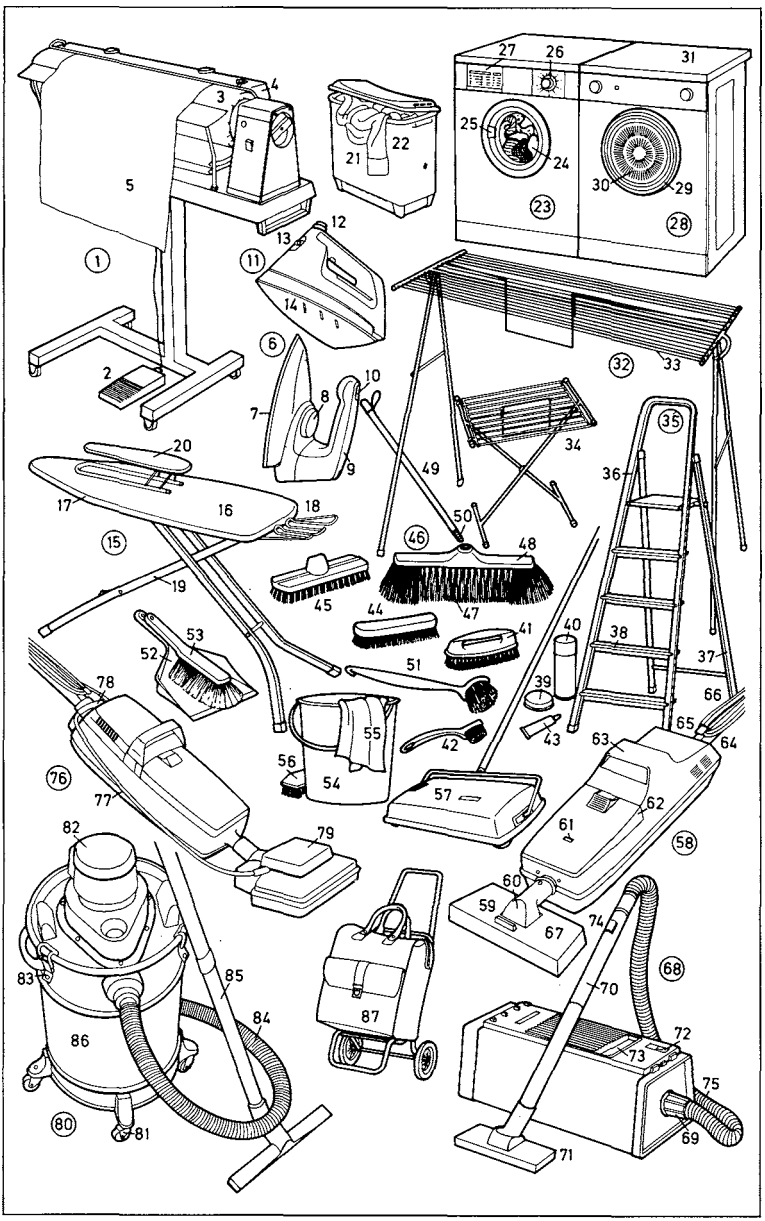


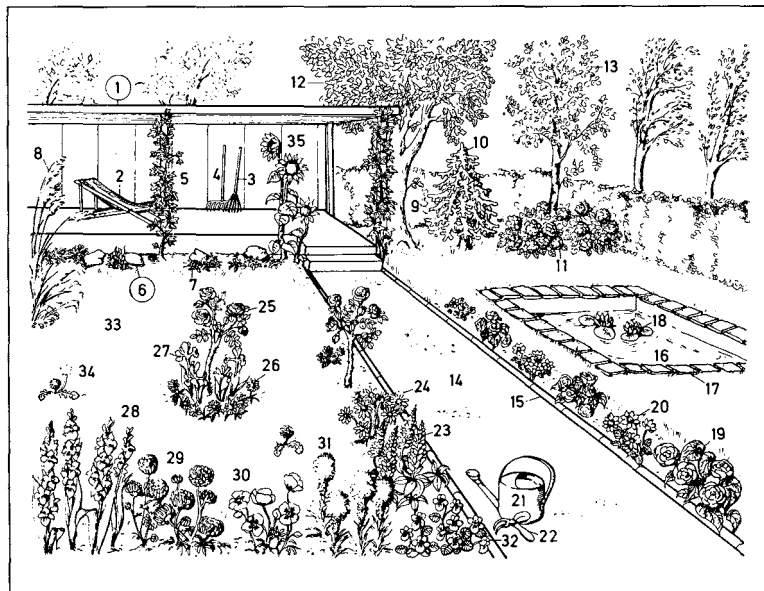
- 1 bath
- 2 mixer tap (*Am.* mixing faucet) for hot and cold water
- 3 foam bath (bubble bath)
- 4 toy duck
- 5 bath salts
- 6 bath sponge (sponge)
- 7 bidet
- 8 towel rail
- 9 terry towel
- 10 toilet roll holder (*Am.* bathroom tissue holder)
- 11 toilet paper (*coll.* loo paper, *Am.* bathroom tissue)
- 12 toilet (lavatory, W.C., *coll.* loo)
- 13 toilet pan (toilet bowl)
- 14 toilet lid with terry cover
- 15 toilet seat
- 16 cistern
- 17 flushing lever
- 18 pedestal mat
- 19 tile
- 20 ventilator (extraction vent)
- 21 soap dish
- 22 soap
- 23 hand towel
- 24 washbasin

- 25 overflow
- 26 hot and cold water tap
- 27 washbasin pedestal with trap (anti-siphon trap)
- 28 tooth glass (tooth mug)
- 29 electric toothbrush
- 30 detachable brush heads
- 31 mirrored bathroom cabinet
- 32 fluorescent lamp
- 33 mirror
- 34 drawer
- 35 powder box
- 36 mouthwash
- 37 electric shaver
- 38 aftershave lotion
- 39 shower cubicle
- 40 shower curtain
- 41 adjustable shower head
- 42 shower nozzle
- 43 shower adjustment rail
- 44 shower base
- 45 waste pipe
- 46 bathroom mule
- 47 bathroom scales
- 48 bath mat
- 49 medicine cabinet

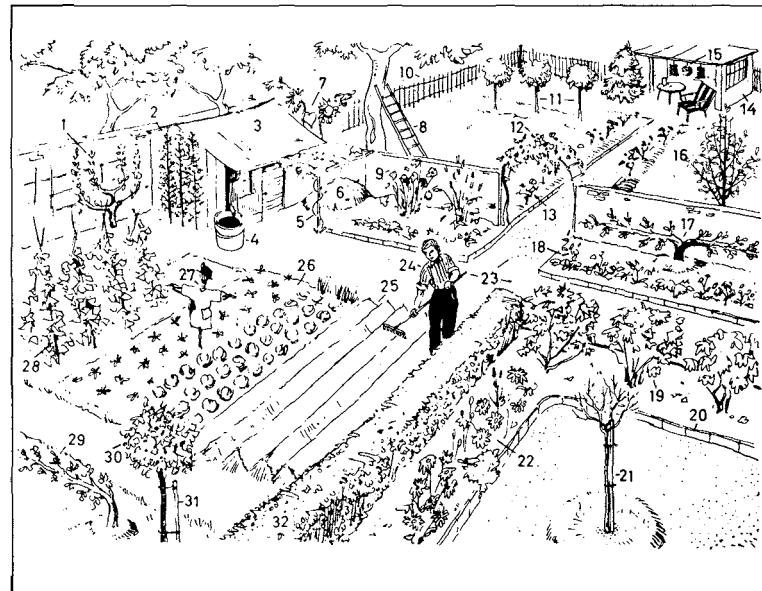
- 1-20 irons
- 1 electric ironing machine  
2 electric foot switch  
3 roller covering  
4 ironing head  
5 sheet  
6 electric iron (lightweight iron)  
7 sole-plate  
8 temperature selector  
9 handle (iron handle)  
10 pilot light  
11 steam, spray, and dry iron  
12 filling inlet  
13 spray nozzle for damping the washing  
14 steam hole (steam slit)  
15 ironing table  
16 ironing board (ironing surface)  
17 ironing-board cover  
18 iron well  
19 aluminium (*Am.* aluminum) frame  
20 sleeve board  
21 linen bin  
22 dirty linen
- 23-34 washing machines and driers
- 23 automatic washing machine  
24 washing drum  
25 safety latch (safety catch)  
26 program selector control  
27 front soap dispenser [with several compartments]  
28 tumble drier  
29 drum  
30 front door with ventilation slits  
31 worktop  
32 airer  
33 clothes line (washing line)  
34 extending airer  
35 stepladder (steps), an aluminium (*Am.* aluminum) ladder  
36 stile  
37 prop  
38 tread (rung)
- 39-43 shoe care utensils
- 39 tin of shoe polish  
40 shoe spray, an impregnating spray  
41 shoe brush  
42 brush for applying polish  
43 tube of shoe polish  
44 clothes brush  
45 carpet brush

- 46 broom  
47 bristles  
48 broom head  
49 broomstick (broom handle)  
50 screw thread  
51 washing-up brush  
52 pan (dustpan)
- 53-86 floor and carpet cleaning
- 53 brush  
54 bucket (pail)  
55 floor cloth (cleaning rag)  
56 scrubbing brush  
57 carpet sweeper  
58 upright vacuum cleaner  
59 changeover switch  
60 swivel head  
61 bag-full indicator  
62 dust bag container  
63 handle  
64 tubular handle  
65 flex hook  
66 wound-up flex  
67 all-purpose nozzle  
68 cylinder vacuum cleaner  
69 swivel coupling  
70 extension tube  
71 floor nozzle (*sim.*: carpet beater nozzle)  
72 suction control  
73 bag-full indicator  
74 sliding fingertip suction control  
75 hose (suction hose)  
76 combined carpet sweeper and shampooer  
77 electric lead (flex)  
78 plug socket  
79 carpet beater head (*sim.*: shampooing head, brush head)  
80 all-purpose vacuum cleaner (wet and dry vacuum cleaner)  
81 castor  
82 motor unit  
83 lid clip  
84 coarse dirt hose  
85 special accessory (special attachment) for coarse dirt  
86 dust container  
87 shopper (shopping trolley)

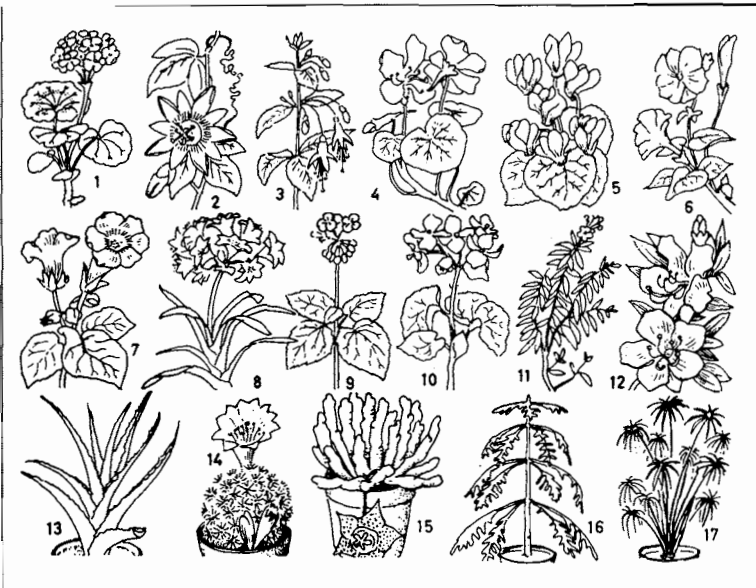


**1-35 flower garden**

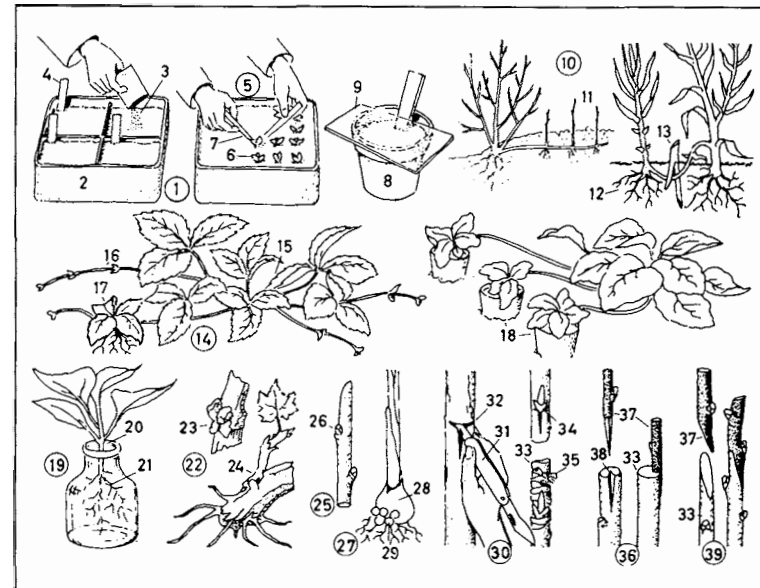
- |   |   |
|---|---|
| 1 pergola   | 19 tuberous begonias                                |
| 2 deck-chair  | 20 dahlias  |
| 3 lawn rake (wire-tooth rake)   | 21 watering can ( <i>Am.</i> sprinkling can)        |
| 4 garden rake   | 22 weeding hoe                                      |
| 5 Virginia creeper ( <i>American ivy</i> , woodbine), a climbing plant (climber, creeper) | 23 lupin  |
| 6 rockery (rock garden)   | 24 marguerites (oxeye daisies, white oxeye daisies) |
| 7 rock plants; <i>varieties</i> : stonecrop (wall pepper), houseleek, dryas, aubretia     | 25 standard rose                                    |
| 8 pampas grass  | 26 gerbera  |
| 9 garden hedge  | 27 iris   |
| 10 blue spruce  | 28 gladioli   |
| 11 hydrangeas   | 29 chrysanthemums                                   |
| 12 oak (oak tree)   | 30 poppy  |
| 13 birch (birch tree)   | 31 blazing star                                     |
| 14 garden path  | 32 snapdragon ( <i>antirrhinum</i> )                |
| 15 edging   | 33 lawn   |
| 16 garden pond  | 34 dandelion  |
| 17 flagstone (stone slab)   | 35 sunflower  |
| 18 water lily   |   |

**1-32 allotment (fruit and vegetable garden)**

- |  |   |
|--|---|
| 1, 2, 16, 17, 29 dwarf fruit trees (espaliers, espalier fruit trees) | 17 double horizontal cordon   |
| 1 quadruple cordon, a wall espalier                                  | 18 flower bed, a border   |
| 2 vertical cordon  | 19 berry bush (gooseberry bush, currant bush)                                   |
| 3 tool shed (garden shed)  | 20 concrete edging  |
| 4 water butt (water barrel)  | 21 standard rose (standard rose tree)   |
| 5 climbing plant (climber, creeper, rambler)                         | 22 border with perennials   |
| 6 compost heap   | 23 garden path  |
| 7 sunflower  | 24 allotment holder   |
| 8 garden ladder (ladder)   | 25 asparagus patch (asparagus bed)  |
| 9 perennial (flowering perennial)                                    | 26 vegetable patch (vegetable plot)   |
| 10 garden fence (paling fence, paling)                               | 27 scarecrow  |
| 11 standard berry tree   | 28 runner bean ( <i>Am.</i> scarlet runner), a bean plant on poles (bean poles) |
| 12 climbing rose (rambling rose) on the trellis arch                 | 29 horizontal cordon  |
| 13 bush rose (standard rose tree)                                    | 30 standard fruit tree  |
| 14 summerhouse (garden house)  | 31 tree stake   |
| 15 Chinese lantern (paper lantern)                                   | 32 hedge  |
| 16 pyramid tree (pyramidal tree, pyramid), a free-standing espalier  |   |

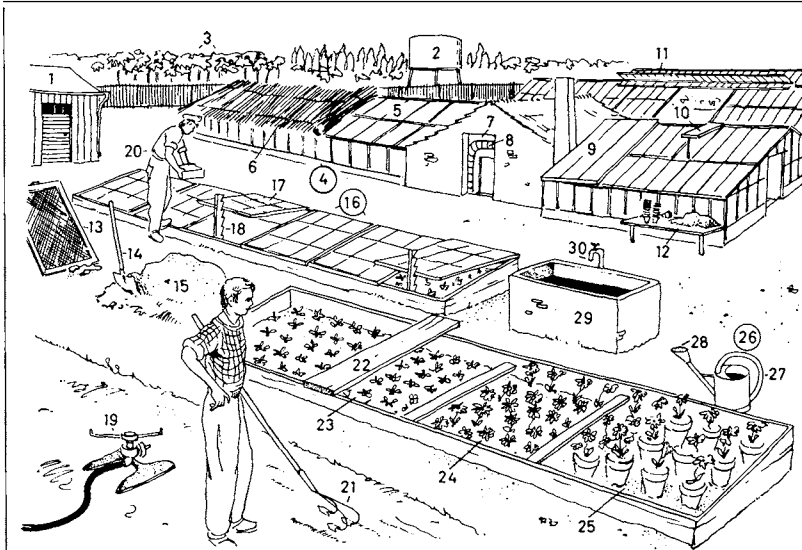


- 1 pelargonium (crane's bill), a geranium
- 2 passion flower (*Passiflora*), a climbing plant (climber, creeper)
- 3 fuchsia, an anagraceous plant
- 4 nasturtium (Indian cress, *tropaeolum*)
- 5 cyclamen, a primulaceous herb
- 6 petunia, a solanaceous herb
- 7 gloxinia (*Sinningia*), a gesneriaceous plant
- 8 *Clivia minata*, an amaryllis (*narcissus*)
- 9 African hemp (*Sparmannia*), a tiliaceous plant, a linden plant
- 10 begonia
- 11 myrtle (common myrtle, *Myrtus*)
- 12 azalea, an ericaceous plant
- 13 aloe, a liliaceous plant
- 14 globe thistle (*Echinops*)
- 15 stapelia (carrion flower), an asclepiadaceous plant
- 16 Norfolk Island Pine (an *araucaria* grown as an ornamental)
- 17 galingale, a cyperaceous plant of the sedge family



- 1 seed sowing (sowing)
- 2 seed pan
- 3 seed
- 4 label
- 5 pricking out (pricking off, transplanting)
- 6 seedling (seedling plant)
- 7 dibber (dibble)
- 8 flower pot (pot)
- 9 sheet of glass
- 10 propagation by layering
- 11 layer
- 12 layer with roots
- 13 forked stick used for fastening
- 14 propagation by runners
- 15 parent (parent plant)
- 16 runner
- 17 small rooted leaf cluster
- 18 setting in pots
- 19 cutting in water
- 20 cutting (slip, set)
- 21 root
- 22 bud cutting on vine tendril
- 23 scion bud, a bud
- 24 sprouting (shooting) cutting
- 25 stem cutting (hardwood cutting)
- 26 bud
- 27 propagation by bulbils (brood bud bulblets)
- 28 old bulb
- 29 bulbil (brood bud bulblet)
- 30-39 grafting (graftage)
- 30 budding; *here*: shield budding
- 31 budding knife
- 32 T-cut
- 33 support (stock, rootstock)
- 34 inserted scion bud
- 35 raffia layer (bast layer)
- 36 side grafting
- 37 scion (shoot)
- 38 wedge-shaped notch
- 39 splice grafting





**1-51 market garden** (Am. truck garden, truck farm)

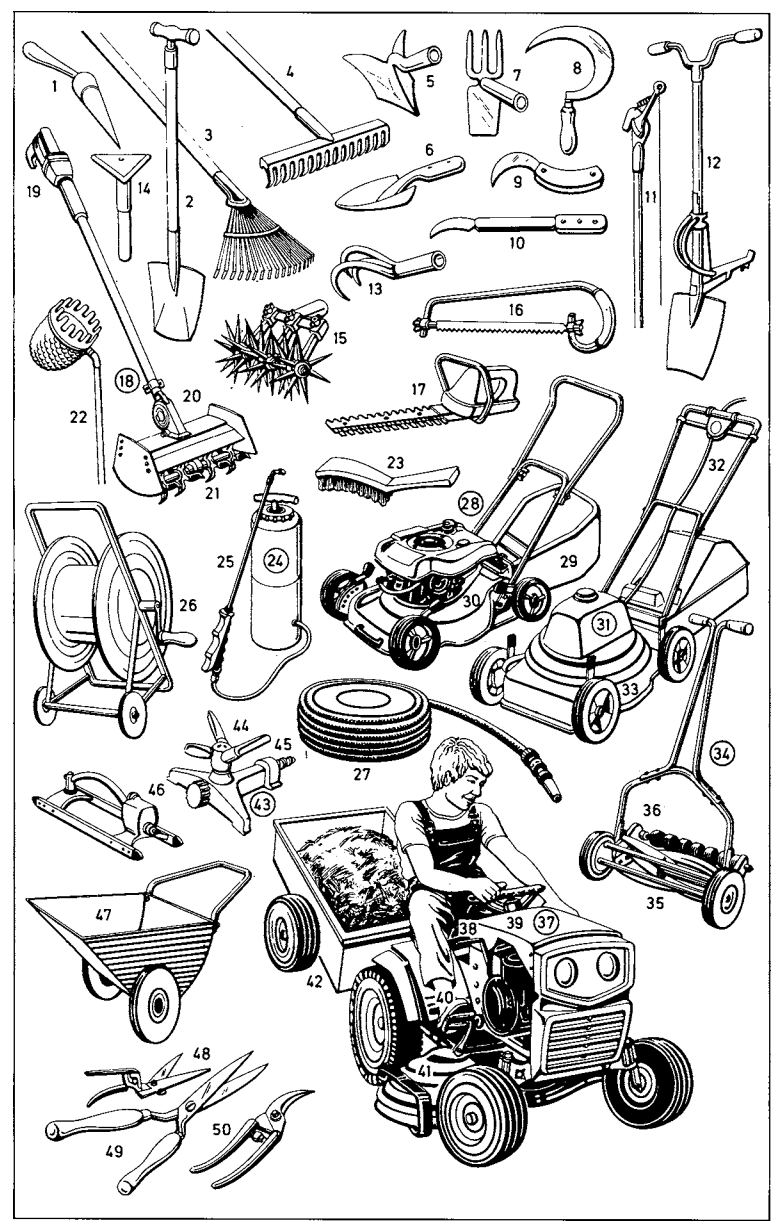
- 1 tool shed
- 2 water tower (water tank)
- 3 market garden (Am. truck garden, truck farm), a tree nursery
- 4 hothouse (forcing house, warm house)
- 5 glass roof
- 6 [roll of] matting (straw matting, reed matting, shading)
- 7 boiler room (boiler house)
- 8 heating pipe (pressure pipe)
- 9 shading panel (shutter)
- 10, 11 ventilators (vents)
- 10 ventilation window (window vent, hinged ventilator)
- 11 ridge vent
- 12 potting table (potting bench)
- 13 riddle (sieve, garden sieve, upright sieve)
- 14 garden shovel (shovel)
- 15 heap of earth (composted earth, prepared earth, garden mould, Am. mold)
- 16 hotbed (forcing bed, heated frame)
- 17 hotbed vent (frame vent)
- 18 vent prop
- 19 sprinkler (sprinkling device)
- 20 gardener (nursery gardener, grower, commercial grower)
- 21 cultivator (hand cultivator, grubber)
- 22 plank
- 23 pricked-out seedlings (pricked-off seedlings)
- 24 forced flowers [forcing]
- 25 potted plants (plants in pots, pot plants)
- 26 watering can (Am. sprinkling can)
- 27 handle
- 28 rose
- 29 water tank
- 30 water pipe



- 31 bale of peat
- 32 warm house (heated greenhouse)
- 33 cold house (unheated greenhouse)
- 34 wind generator
- 35 wind wheel
- 36 wind vane
- 37 shrub bed, a flower bed
- 38 hoop edging
- 39 vegetable plot
- 40 plastic tunnel (polythene greenhouse)
- 41 ventilation flap
- 42 central path
- 43 vegetable crate
- 44 tomato plant
- 45, 46 nursery hand
- 47 tub plant
- 48 tub
- 49 orange tree
- 50 wire basket
- 51 seedling box

- 1 dibber (dibble)
- 2 spade
- 3 lawn rake (wire-tooth rake)
- 4 rake
- 5 ridging hoe
- 6 trowel
- 7 combined hoe and fork
- 8 sickle
- 9 gardener's knife (pruning knife, billhook)
- 10 asparagus cutter (asparagus knife)
- 11 tree pruner (long-handled pruner)
- 12 semi-automatic spade
- 13 three-pronged cultivator
- 14 tree scraper (bark scraper)
- 15 lawn aerator (aerator)
- 16 pruning saw (saw for cutting branches)
- 17 battery-operated hedge trimmer
- 18 motor cultivator
- 19 electric drill
- 20 gear
- 21 cultivator attachment
- 22 fruit picker
- 23 tree brush (bark brush)
- 24 sprayer for pest control
- 25 lance
- 26 hose reel (reel and carrying cart)
- 27 garden hose
- 28 motor lawn mower (motor mower)
- 29 grassbox
- 30 two-stroke motor
- 31 electric lawn mower (electric mower)
- 32 electric lead (electric cable)
- 33 cutting unit
- 34 hand mower
- 35 cutting cylinder
- 36 blade
- 37 riding mower
- 38 brake lock
- 39 electric starter
- 40 brake pedal
- 41 cutting unit
- 42 tip-up trailer
- 43 revolving sprinkler, a lawn sprinkler

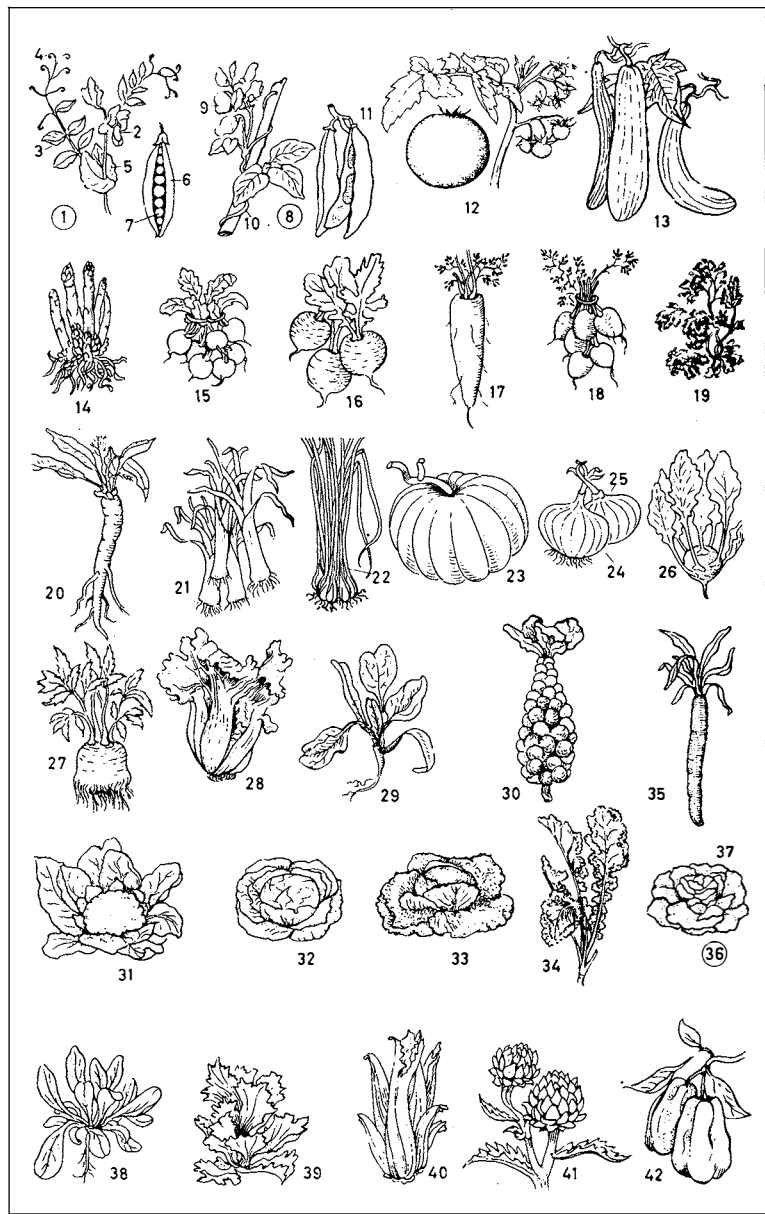
- 44 revolving nozzle
- 45 hose connector
- 46 oscillating sprinkler
- 47 wheelbarrow
- 48 grass shears
- 49 hedge shears
- 50 secateurs (pruning shears)



1-11 leguminous plants

- (Leguminosae)
- 1 pea, a plant with a papilionaceous corolla
- 2 pea flower
- 3 pinnate leaf
- 4 pea tendril, a leaf tendril
- 5 stipule
- 6 legume (pod), a seed vessel (pericarp, legume)
- 7 pea [seed]
- 8 bean plant (bean), a climbing plant (climber, creeper); *varieties*: broad bean (runner bean, *Am.* scarlet runner), climbing bean (climber, pole bean), scarlet runner bean; *smaller*: dwarf French bean (bush bean)
- 9 bean flower
- 10 twining beanstalk
- 11 bean [pod with seeds]
- 12 tomato
- 13 cucumber
- 14 asparagus
- 15 radish
- 16 white radish
- 17 carrot
- 18 stump-rooted carrot
- 19 parsley
- 20 horse-radish
- 21 leeks
- 22 chives
- 23 pumpkin (*Am.* squash); *sim.*: melon
- 24 onion
- 25 onion skin
- 26 kohlrabi
- 27 celeriac
- 28-34 brassicas (leaf vegetables)
- 28 chard (Swiss chard, seakale beet)
- 29 spinach
- 30 Brussels sprouts (sprouts)
- 31 cauliflower
- 32 cabbage (round cabbage, head of cabbage), a brassica; *cultivated races (cultivars)*: green cabbage, red cabbage

- 33 savoy (savoy cabbage)
- 34 kale (curly kale, kail), a winter green
- 35 scorzonera (black salsify)
- 36-40 salad plants
- 36 lettuce (cabbage lettuce, head of lettuce)
- 37 lettuce leaf
- 38 corn salad (lamb's lettuce)
- 39 endive (endive leaves)
- 40 chicory (succory, salad chicory)
- 41 globe artichoke
- 42 sweet pepper (Spanish paprika)



1-30 soft fruit (berry bushes)

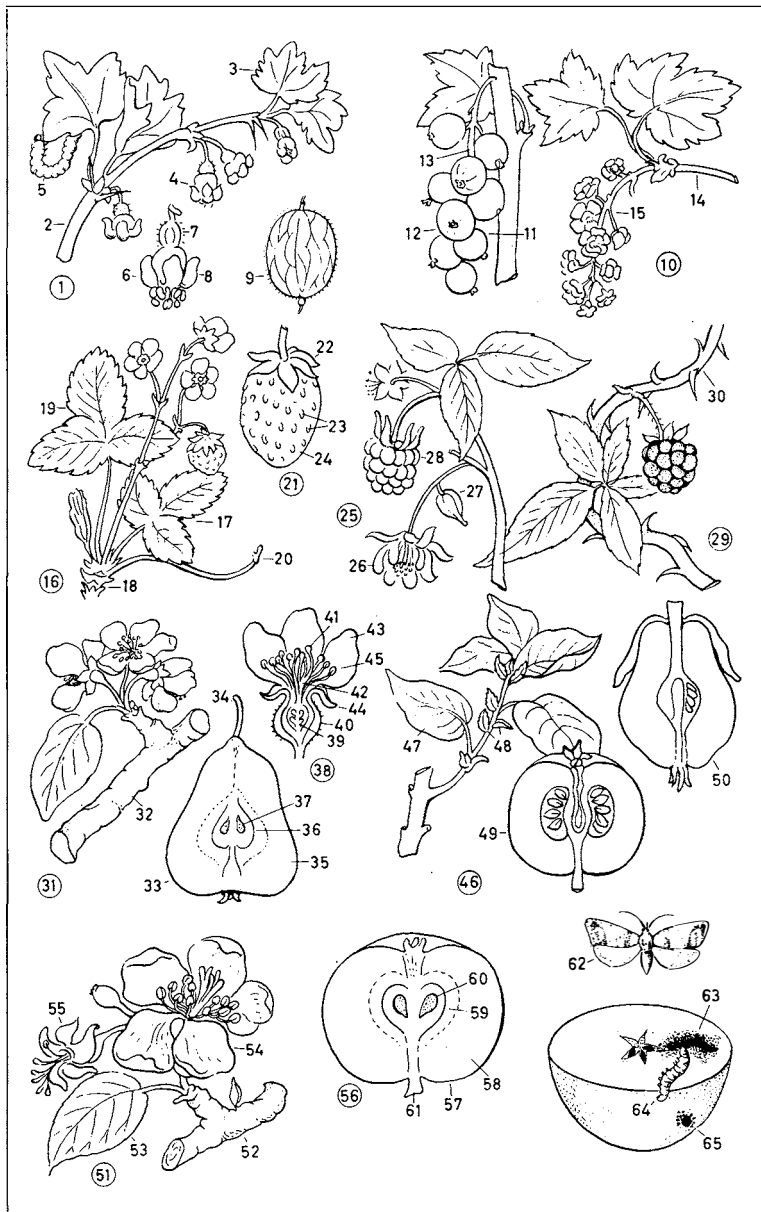
1-15 Ribes

- 1 gooseberry bush  
2 flowering gooseberry cane  
3 leaf  
4 flower  
5 magpie moth larva  
6 gooseberry flower  
7 epigynous ovary  
8 calyx (sepals)  
9 gooseberry, a berry  
10 currant bush  
11 cluster of berries  
12 currant  
13 stalk  
14 flowering cane of the currant  
15 raceme  
16 strawberry plant; *varieties*: wild strawberry (woodland strawberry), garden strawberry, alpine strawberry  
17 flowering and fruit-bearing plant  
18 rhizome  
19 ternate leaf (trifoliate leaf)  
20 runner (prostrate stem)  
21 strawberry, a pseudocarp  
22 epicalyx  
23 achene (seed)  
24 flesh (pulp)  
25 raspberry bush  
26 raspberry flower  
27 flower bud (bud)  
28 fruit (raspberry), an aggregate fruit (compound fruit)  
29 blackberry  
30 thorny tendril

31-61 pomiferous plants

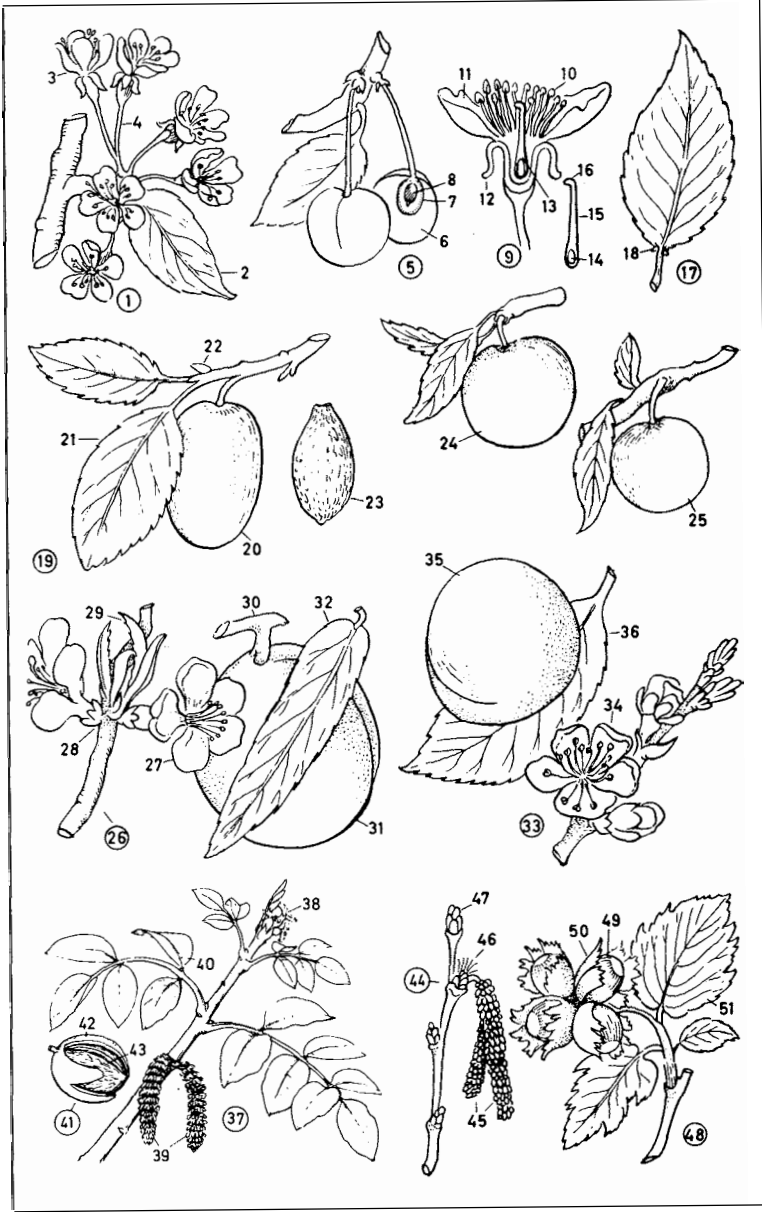
- 31 pear tree; *wild*: wild pear tree  
32 flowering branch of the pear tree  
33 pear [longitudinal section]  
34 pear stalk (stalk)  
35 flesh (pulp)  
36 core (carpels)  
37 pear pip (seed), a fruit pip  
38 pear blossom  
39 ovules  
40 ovary

- 41 stigma  
42 style  
43 petal  
44 sepal  
45 stamen  
46 quince tree  
47 quince leaf  
48 stipule  
49 apple-shaped quince [longitudinal section]  
50 pear-shaped quince [longitudinal section]  
51 apple tree; *wild*: crab apple tree  
52 flowering branch of the apple tree  
53 leaf  
54 apple blossom  
55 withered flower  
56 apple [longitudinal section]  
57 apple skin  
58 flesh (pulp)  
59 core (apple core, carpels)  
60 apple pip, a fruit pip  
61 apple stalk (stalk)  
62 codling moth (codlin moth)  
63 burrow (tunnel)  
64 larva (grub, caterpillar) of a small moth  
65 wormhole

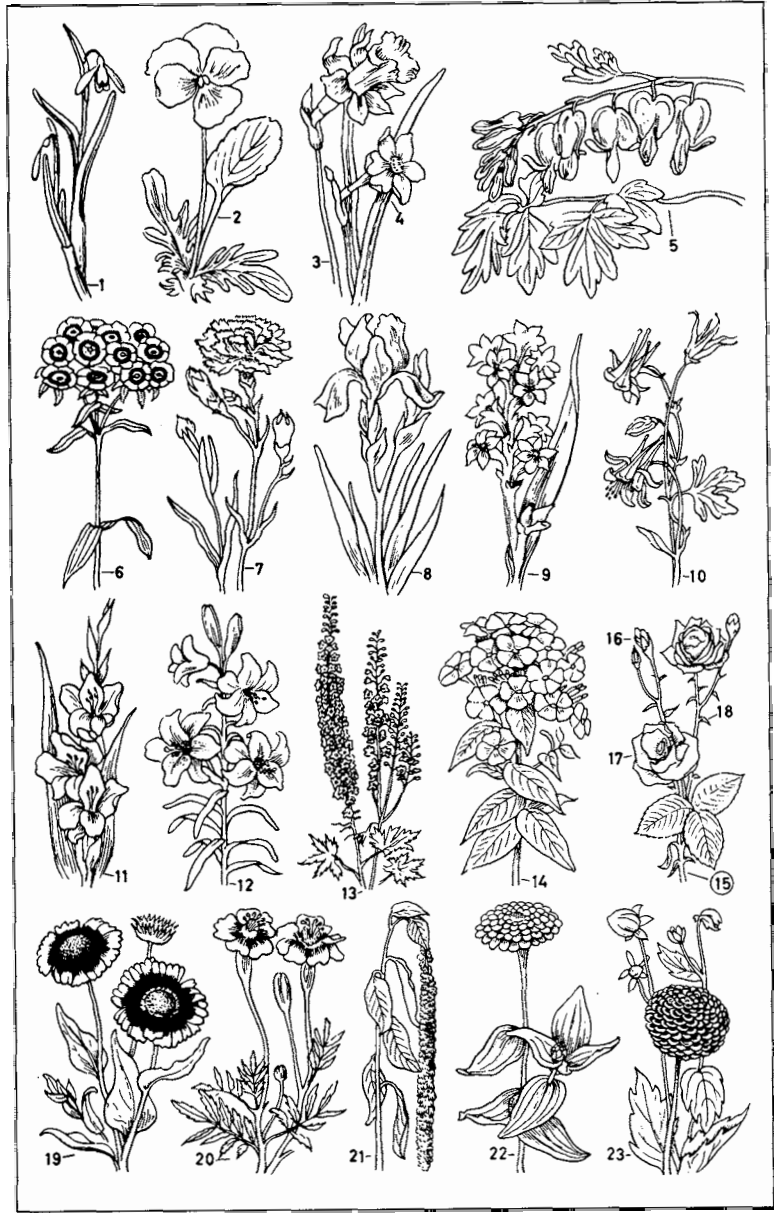


- 1-36 drupes** (drupaceous plants)  
**1-18 cherry tree**  
1 flowering branch of the cherry tree (branch of the cherry tree in blossom)  
2 cherry leaf  
3 cherry flower (cherry blossom)  
4 peduncle (pedicel, flower stalk)  
5 cherry; *varieties*: sweet cherry (heart cherry), wild cherry (bird cherry), sour cherry, morello cherry (morello)  
**6-8 cherry** (cherry fruit) [cross section]  
6 flesh (pulp)  
7 cherry stone  
8 seed  
9 flower (blossom) [cross section]  
10 stamen  
11 petal  
12 sepal  
13 pistil  
14 ovule enclosed in perigynous ovary  
15 style  
16 stigma  
17 leaf  
18 nectary (honey gland)  
**19-23 plum tree**  
19 fruit-bearing branch  
20 oval, black-skinned plum  
21 plum leaf  
22 bud  
23 plum stone  
24 greengage  
25 mirabelle (transparent gage), a plum  
**26-32 peach tree**  
26 flowering branch (branch in blossom)  
27 peach flower (peach blossom)  
28 flower shoot  
29 young leaf (sprouting leaf)  
30 fruiting branch  
31 peach  
32 peach leaf  
**33-36 apricot tree**  
33 flowering apricot branch (apricot

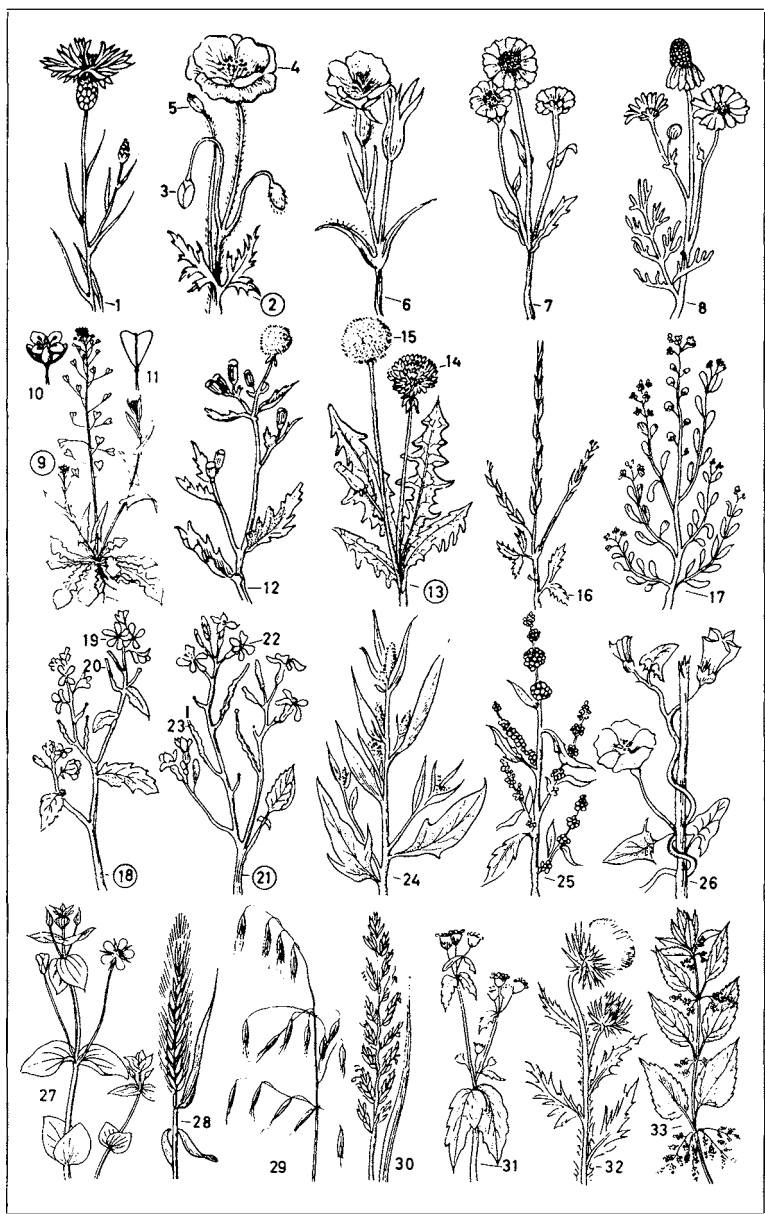
- branch in blossom)  
34 apricot flower (apricot blossom)  
35 apricot  
36 apricot leaf  
**37-51 nuts**  
**37-43 walnut tree**  
37 flowering branch of the walnut tree  
38 female flower  
39 male inflorescence (male flowers, catkins with stamens)  
40 alternate pinnate leaf  
41 walnut, a drupe (stone fruit)  
42 soft shell (cupule)  
43 walnut, a drupe (stone fruit)  
**44-51 hazel tree** (hazel bush), an anemophilous shrub (a wind-pollinating shrub)  
44 flowering hazel branch  
45 male catkin  
46 female inflorescence  
47 leaf bud  
48 fruit-bearing branch  
49 hazelnut (hazel, cobnut, cob), a drupe (stone fruit)  
50 involucre (husk)  
51 hazel leaf

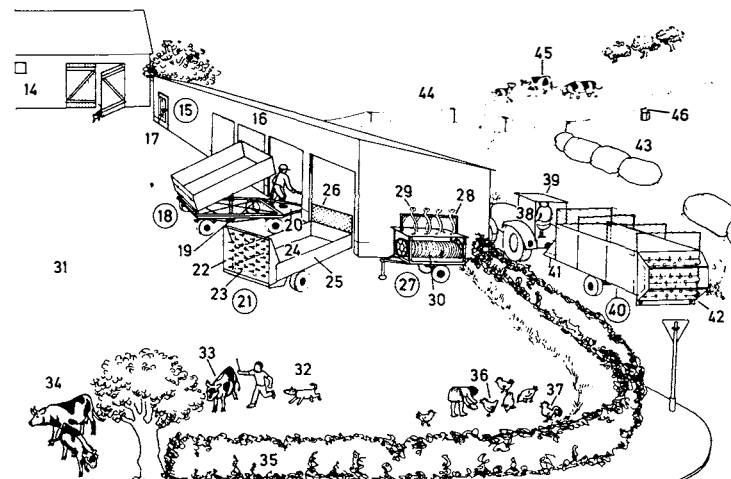
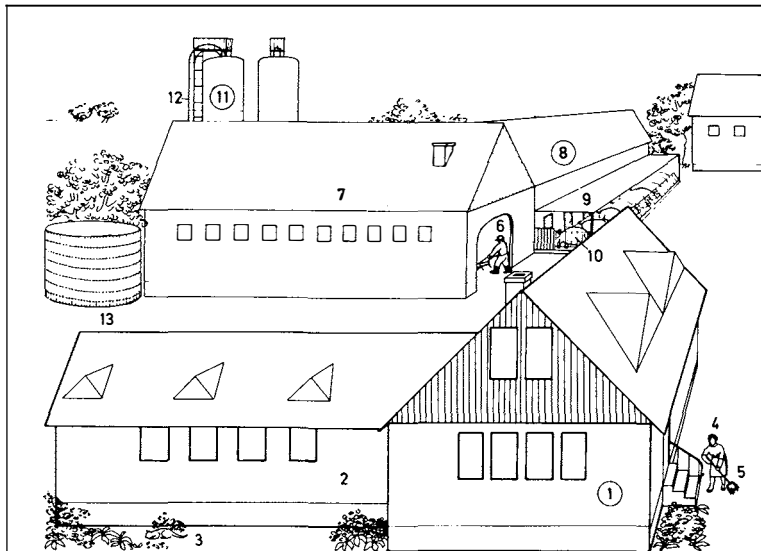


- 1 snowdrop (spring snowflake)
- 2 garden pansy (heartsease pansy), a pansy
- 3 trumpet narcissus (trumpet daffodil, Lent lily), a narcissus
- 4 poet's narcissus (pheasant's eye, poet's daffodil); *sim.*: polyanthus narcissus
- 5 bleeding heart (lyre flower), a fumariaceous flower
- 6 sweet william (bunch pink), a carnation
- 7 gillyflower (gilliflower, clove pink, clove carnation)
- 8 yellow flag (yellow water flag, yellow iris), an iris
- 9 tuberose
- 10 columbine (aquilegia)
- 11 gladiolus (sword lily)
- 12 Madonna lily (Annunciation lily, Lent lily), a lily
- 13 larkspur (delphinium), a ranunculaceous plant
- 14 moss pink (moss phlox), a phlox
- 15 garden rose (China rose)
- 16 rosebud, a bud
- 17 double rose
- 18 rose thorn, a thorn
- 19 gaillardia
- 20 African marigold (tagetes)
- 21 love-lies-bleeding, an amaranthine flower
- 22 zinnia
- 23 pompon dahlia, a dahlia



- 1 corn flower (bluebottle), a centaury
- 2 corn poppy (field poppy), a poppy
- 3 bud
- 4 poppy flower
- 5 seed capsule containing poppy seeds
- 6 corn cockle (corn campion, crown-of-the-field)
- 7 corn marigold (field marigold), a chrysanthemum
- 8 corn camomile (field camomile, camomile, chamomile)
- 9 shepherd's purse
- 10 flower
- 11 fruit (pouch-shaped pod)
- 12 common groundsel
- 13 dandelion
- 14 flower head (capitulum)
- 15 infructescence
- 16 hedge mustard, a mustard
- 17 stonecrop
- 18 wild mustard (charlock, runch)
- 19 flower
- 20 fruit, a siliqua (pod)
- 21 wild radish (jointed charlock)
- 22 flower
- 23 fruit (siliqua, pod)
- 24 common orache (common orach)
- 25 goosefoot
- 26 field bindweed (wild morning glory), a bindweed
- 27 scarlet pimpernel (shepherd's weatherglass, poor man's weather-glass, eye-bright)
- 28 wild barley (wall barley)
- 29 wild oat
- 30 common couch grass (couch, quack grass, quick grass, quitch grass, scutch grass, twitch grass, witch-grass); *sim.*: bearded couch grass, sea couch grass
- 31 gallant soldier
- 32 field eryngo (Watling Street thistle), a thistle
- 33 stinging nettle, a nettle





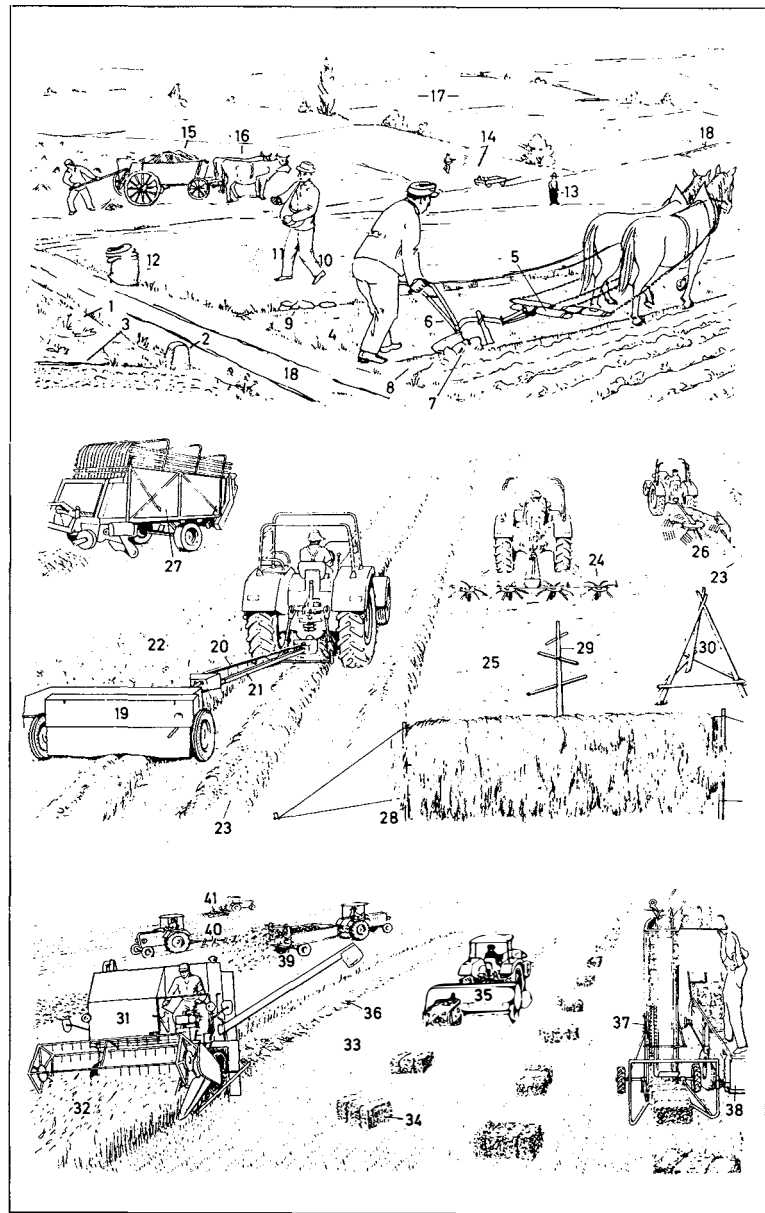
- |   |  |
|---|--|
| 1 house                                       | 21 manure spreader (fertilizer spreader, manure distributor) |
| 2 stable                                      | 22 spreader unit (distributor unit)                          |
| 3 house cat (cat)                             | 23 spreader cylinder (distributor cylinder)                  |
| 4 farmer's wife                               | 24 movable scraper floor                                     |
| 5 broom                                       | 25 side planking (side board)                                |
| 6 farmer                                      | 26 wire mesh front   |
| 7 cowshed                                     | 27 sprinkler cart  |
| 8 pigsty (sty, Am. pigpen, hogpen)            | 28 sprinkler stand   |
| 9 outdoor trough                              | 29 sprinkler, a revolving sprinkler                          |
| 10 pig  | 30 sprinkler hoses   |
| 11 above-ground silo (fodder silo)            | 31 farmyard  |
| 12 silo pipe (standpipe for filling the silo) | 32 watchdog  |
| 13 liquid manure silo                         | 33 calf  |
| 14 outhouse                                   | 34 dairy cow (milch-cow, milker)                             |
| 15 machinery shed                             | 35 farmyard hedge  |
| 16 sliding door                               | 36 chicken   |
| 17 door to the workshop                       | 37 cock (Am. rooster)  |
| 18 three-way tip-cart, a transport vehicle    | 38 tractor   |
| 19 tipping cylinder                           | 39 tractor driver  |
| 20 shafts                                     | 40 all-purpose trailer                                       |

- |                                  |
|----------------------------------|
| 41 [folded] pick-up attachment   |
| 42 unloading unit                |
| 43 polythene silo, a fodder silo |
| 44 meadow                        |
| 45 grazing cattle                |
| 46 electrified fence             |



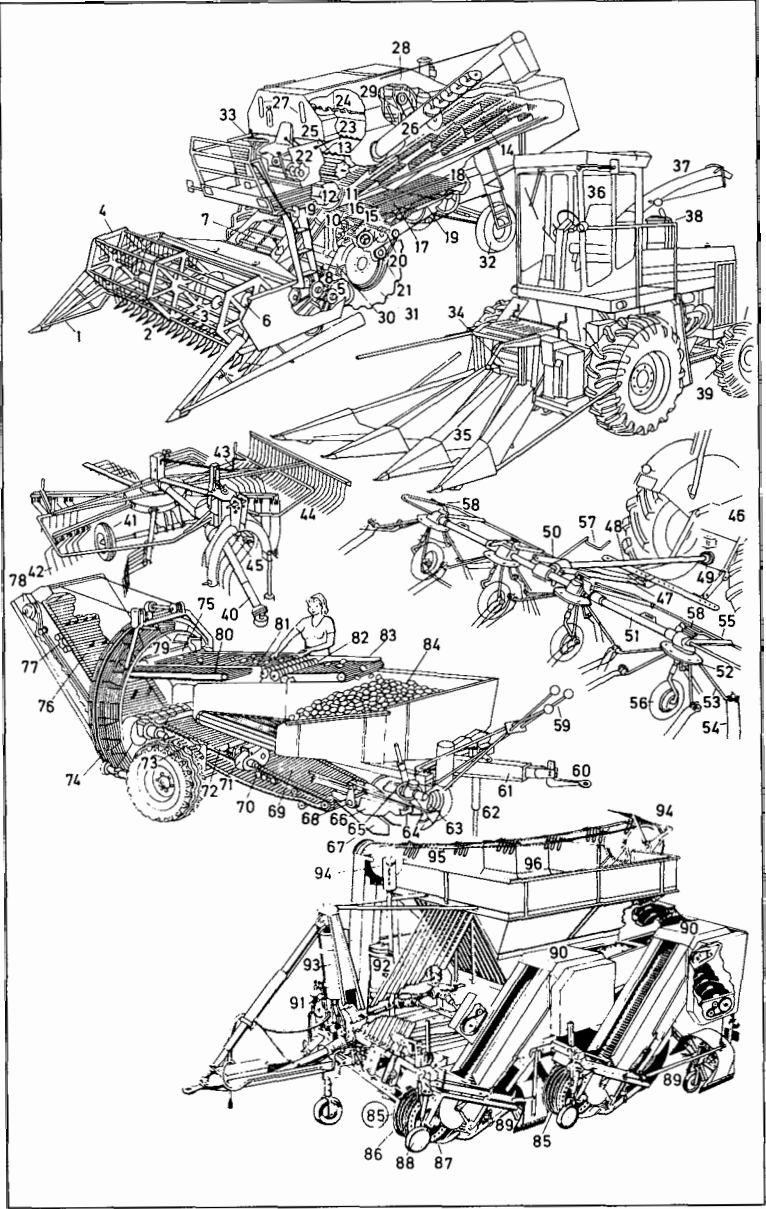
- 1-41 work in the fields
- 1 fallow (fallow field, fallow ground)
- 2 boundary stone
- 3 boundary ridge, a balk (balk)
- 4 field
- 5 swingletree (*Am.* whiffletree, whippetree)
- 6 plough (*Am.* plow)
- 7 clod
- 8 furrow
- 9 stone
- 10-12 sowing
- 10 sower
- 11 seedlip
- 12 seed corn (seed)
- 13 field guard
- 14 chemical fertilizer (artificial fertilizer); *kinds:* potash fertilizer, phosphoric acid fertilizer, lime fertilizer, nitrogen fertilizer
- 15 cartload of manure (farmyard manure, dung)
- 16 oxteam (team of oxen, *Am.* span of oxen)
- 17 fields (farmland)
- 18 farm track (farm road)
- 19-30 hay harvest (haymaking)
- 19 rotary mower with swather (swath reaper)
- 20 connecting shaft (connecting rod)
- 21 power take-off (power take-off shaft)
- 22 meadow
- 23 swath (swathe)
- 24 tedder (rotary tedder)
- 25 tilled hay
- 26 rotary swather
- 27 trailer with pick-up attachment
- 28 fence rack (rickstand), a drying rack for hay
- 29 rickstand, a drying rack for hay
- 30 hay tripod
- 31-41 grain harvest and seedbed preparation
- 31 combine harvester
- 32 cornfield
- 33 stubble field

- 34 bale of straw
- 35 straw baler (straw press), a high-pressure baler
- 36 swath (swathe) of straw (windrow of straw)
- 37 hydraulic bale loader
- 38 trailer
- 39 manure spreader
- 40 four-furrow plough (*Am.* plow)
- 41 combination seed-harrow



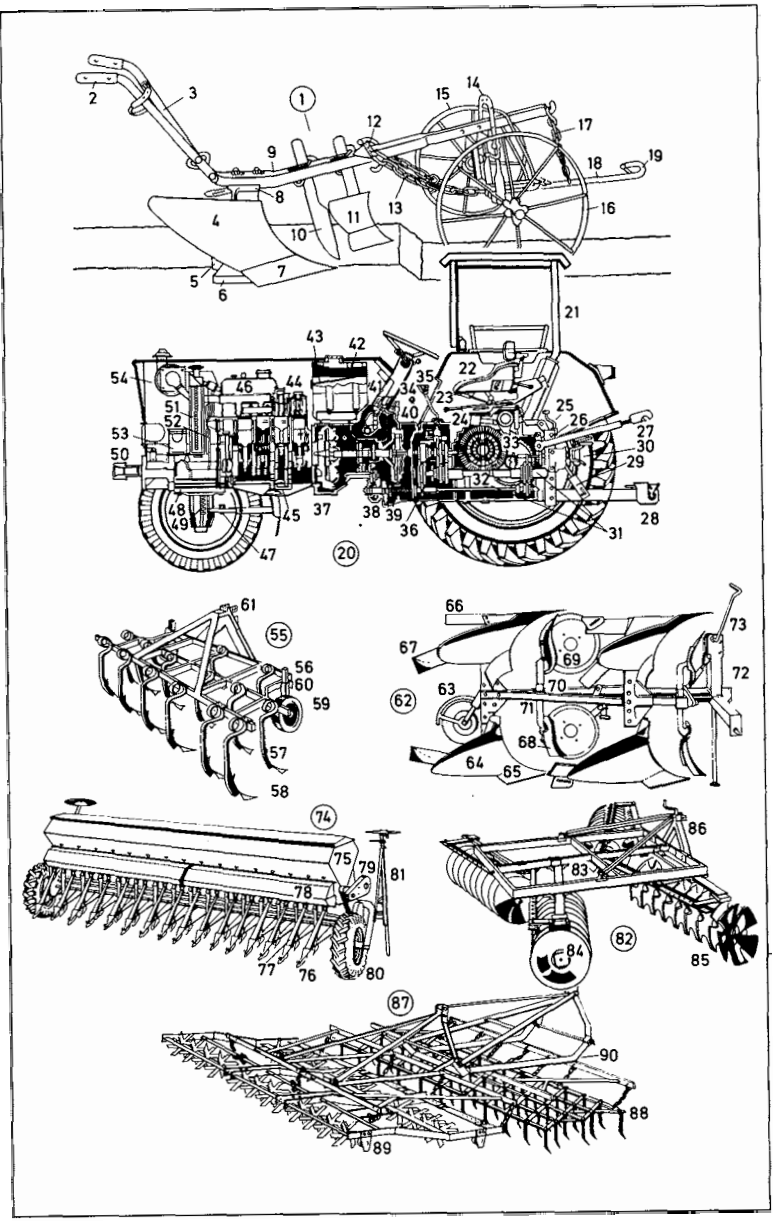
- 1-33 combine harvester** (combine)  
1 divider  
2 grain lifter  
3 cutter bar  
4 pick-up reel, a spring-tine reel  
5 reel gearing  
6 auger  
7 chain and slat elevator  
8 hydraulic cylinder for adjusting the cutting unit  
9 stone catcher (stone trap)  
10 awner  
11 concave  
12 threshing drum (drum)  
13 revolving beater [for freeing straw from the drum and preparing it for the shakers]  
14 straw shaker (strawwalker)  
15 fan for compressed-air winnowing  
16 preparation level  
17 louvered-type sieve  
18 sieve extension  
19 shoe sieve (reciprocating sieve)  
20 grain auger  
21 tailings auger  
22 tailings outlet  
23 grain tank  
24 grain tank auger  
25 augers feeding to the grain tank unloader  
26 grain unloader spout  
27 observation ports for checking tank contents  
28 six-cylinder diesel engine  
29 hydraulic pump with oil reservoir  
30 driving axle gearing  
31 driving wheel tyre (*Am.* tire)  
32 rubber-tyred (*Am.* rubber-tired) wheel on the steering axle  
33 driver's position  
**34-39 self-propelled forage harvester** (self-propelled field chopper)  
34 cutting drum (chopper drum)  
35 corn head  
36 cab (driver's cab)  
37 swivel-mounted spout (discharge pipe)  
38 exhaust  
39 rear-wheel steering system  
**40-45 rotary swather**  
40 cardan shaft  
41 running wheel  
42 double spring tine  
43 crank  
44 swath rake  
45 three-point linkage  
**46-58 rotary tedder**  
46 tractor  
47 draw bar

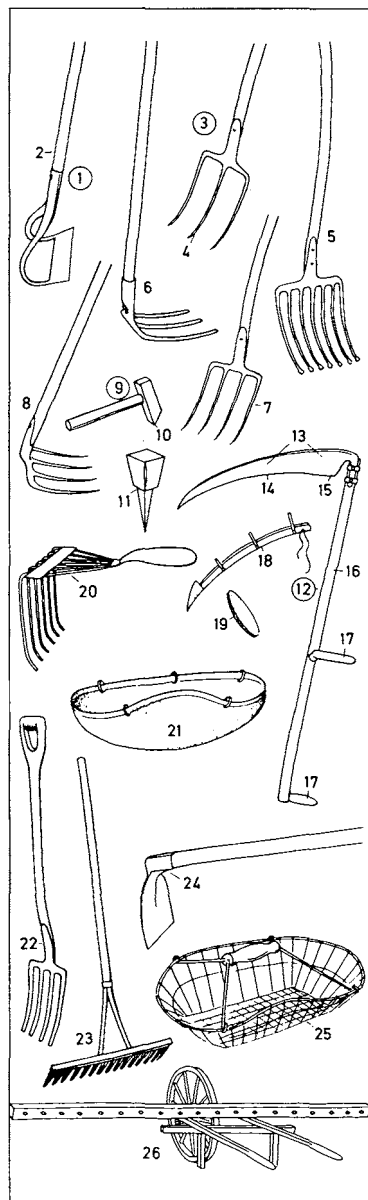
- 48 cardan shaft  
49 power take-off (power take-off shaft)  
50 gearing (gears)  
51 frame bar  
52 rotating head  
53 tine bar  
54 double spring tine  
55 guard rail  
56 running wheel  
57 height adjustment crank  
58 wheel adjustment  
**59-84 potato harvester**  
59 control levers for the lifters of the digger and the hopper and for adjusting the shaft  
60 adjustable hitch  
61 drawbar  
62 drawbar support  
63 cardan shaft connection  
64 press roller  
65 gearing (gears) for the hydraulic system  
66 disc (disk) coultter (*Am.* colter) (rolling coultter)  
67 three-bladed share  
68 disc (disk) coultter (*Am.* colter) drive  
69 open-web elevator  
70 agitator  
71 multi-step reduction gearing  
72 feeder  
73 haulm stripper (flail rotor)  
74 rotary elevating drum  
75 mechanical tumbling separator  
76 haulm conveyor with flexible haulm strippers  
77 haulm conveyor agitator  
78 haulm conveyor drive with V-belt  
79 studded rubber belt for sorting vines, clods and stones  
80 trash conveyor  
81 sorting table  
82 rubber-disc (rubber-disk) rollers for presorting  
83 discharge conveyor  
84 endless-floor hopper  
**85-96 beet harvester**  
85 topper  
86 feeler  
87 topping knife  
88 feeler support wheel with depth adjustment  
89 beet cleaner  
90 haulm elevator  
91 hydraulic pump  
92 compressed-air reservoir  
93 oil tank (oil reservoir)  
94 tensioning device for the beet elevator  
95 beet elevator belt  
96 beet hopper



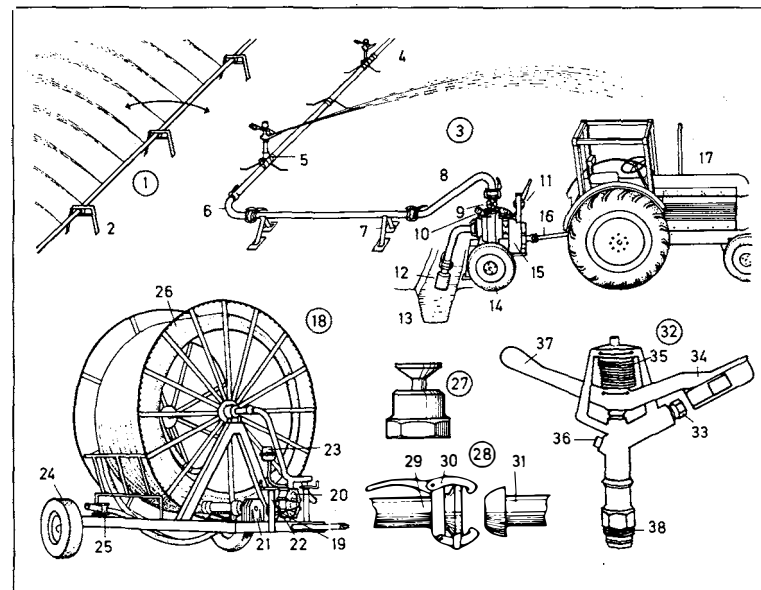
- 1 wheel plough (*Am. plow*), a single-bottom plough [*form.*]
- 2 handle
- 3 plough (*Am. plow*) stilt (plough handle)
- 4-8 plough (*Am. plow*) bottom
- 4 mouldboard (*Am. moldboard*)
- 5 landside
- 6 sole (slade)
- 7 ploughshare (share, *Am. plowshare*)
- 8 frog (frame)
- 9 beam (plough beam, *Am. plowbeam*)
- 10 knife coulter (*Am. colter*), a coulter
- 11 skim coulter (*Am. colter*)
- 12 guide-chain crossbar
- 13 guide chain
- 14-19 forecarriage
- 14 adjustable yoke
- 15 land wheel
- 16 furrow wheel
- 17 hake chain
- 18 draught beam (drawbar)
- 19 hake
- 20 tractor (general-purpose tractor)
- 21 cab frame (roll bar)
- 22 seat
- 23 power take-off gear-change (gearshift)
- 24-29 power lift
- 24 ram piston
- 25 lifting rod adjustment
- 26 drawbar frame
- 27 top link
- 28 lower link
- 29 lifting rod
- 30 drawbar coupling
- 31 live power take-off (live power take-off shaft, take-off shaft)
- 32 differential gear (differential)
- 33 floating axle
- 34 torque converter lever
- 35 gear-change (gearshift)
- 36 multi-speed transmission
- 37 fluid clutch (fluid drive)
- 38 power take-off gear
- 39 main clutch
- 40 power take-off gear-change (gearshift) with power take-off clutch
- 41 hydraulic power steering and reversing gears
- 42 fuel tank
- 43 float lever
- 44 four-cylinder diesel engine
- 45 oil sump and pump for the pressure-feed lubrication system

- 46 fresh oil tank
- 47 track rod (*Am. tie rod*)
- 48 front axle pivot pin
- 49 front axle suspension
- 50 front coupling (front hitch)
- 51 radiator
- 52 fan
- 53 battery
- 54 oil bath air cleaner (oil bath air filter)
- 55 cultivator (grubber)
- 56 sectional frame
- 57 spring tine
- 58 share, a diamond-shaped share (*sim.*: chisel-shaped share)
- 59 depth wheel
- 60 depth adjustment
- 61 coupling (hitch)
- 62 reversible plough (*Am. plow*), a mounted plough
- 63 depth wheel
- 64-67 plough (*Am. plow*) bottom, a general-purpose plough bottom
- 64 mouldboard (*Am. moldboard*)
- 65 ploughshare (share, *Am. plowshare*), a pointed share
- 66 sole (slade)
- 67 landside
- 68 skim coulter (*Am. colter*)
- 69 disc (disk) coulter (*Am. colter*) (rolling coulter)
- 70 plough (*Am. plow*) frame
- 71 beam (plough beam, *Am. plowbeam*)
- 72 three-point linkage
- 73 swivel mechanism
- 74 drill
- 75 seed hopper
- 76 drill coulter (*Am. colter*)
- 77 delivery tube, a telescopic tube
- 78 feed mechanism
- 79 gearbox
- 80 drive wheel
- 81 track indicator
- 82 disc (disk) harrow, a semimounted implement
- 83 discs (disks) in X-configuration
- 84 plain disc (disk)
- 85 serrated-edge disc (disk)
- 86 quick hitch
- 87 combination seed-harrow
- 88 three-section spike-tooth harrow
- 89 three-section rotary harrow
- 90 frame



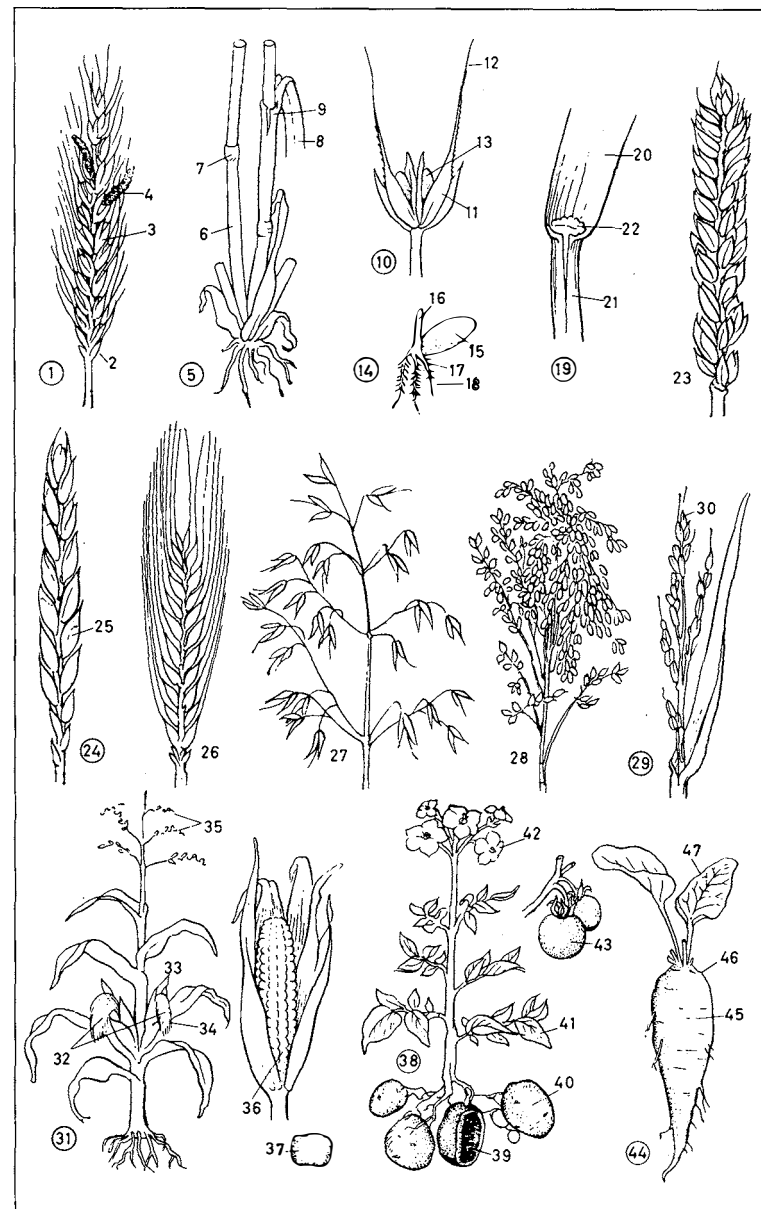


- 1 draw hoe (garden hoe)
- 2 hoe handle
- 3 three-pronged (three-tined) hay fork (fork)
- 4 prong (tine)
- 5 potato fork
- 6 potato hook
- 7 four-pronged (four-tined) manure fork (fork)
- 8 manure hoe
- 9 whetting hammer [for scythes]
- 10 peen (pane)-
- 11 whetting anvil [for scythes]
- 12 scythe
- 13 scythe blade
- 14 cutting edge
- 15 heel
- 16 snath (snathe, snead, sneath)
- 17 handle
- 18 scythe sheath
- 19 whetstone (scythestone)
- 20 potato rake
- 21 potato planter
- 22 digging fork (fork)
- 23 wooden rake (rake, hayrake)
- 24 hoe (potato hoe)
- 25 potato basket, a wire basket
- 26 clover broadcaster



- |   |  |
|---|--|
| 1 oscillating spray line  | 20 turbine   |
| 2 stand (steel chair)   | 21 gearing (gears)                                 |
| 3 portable irrigation system                                      | 22 adjustable support                              |
| 4 revolving sprinkler   | 23 centrifugal evacuating pump                     |
| 5 standpipe coupler   | 24 wheel   |
| 6 elbow with cardan joint (cardan coupling)                       | 25 pipe support                                    |
| 7 pipe support (trestle)  | 26 polyester pipe                                  |
| 8 pump connection   | 27 sprinkler nozzle                                |
| 9 delivery valve  | 28 quick-fitting pipe connection with cardan joint |
| 10 pressure gauge ( <i>Am. gage</i> ) (manometer)                 | 29 M-cardan  |
| 11 centrifugal evacuating pump                                    | 30 clamp   |
| 12 basket strainer  | 31 V-cardan  |
| 13 channel  | 32 revolving sprinkler, a field sprinkler          |
| 14 chassis of the p.t.o.-driven pump (power take-off-driven pump) | 33 nozzle  |
| 15 p.t.o.-driven (power take-off-driven) pump                     | 34 breaker   |
| 16 cardan shaft   | 35 breaker spring                                  |
| 17 tractor  | 36 stopper   |
| 18 long-range irrigation unit                                     | 37 counterweight                                   |
| 19 drive connection   | 38 thread  |

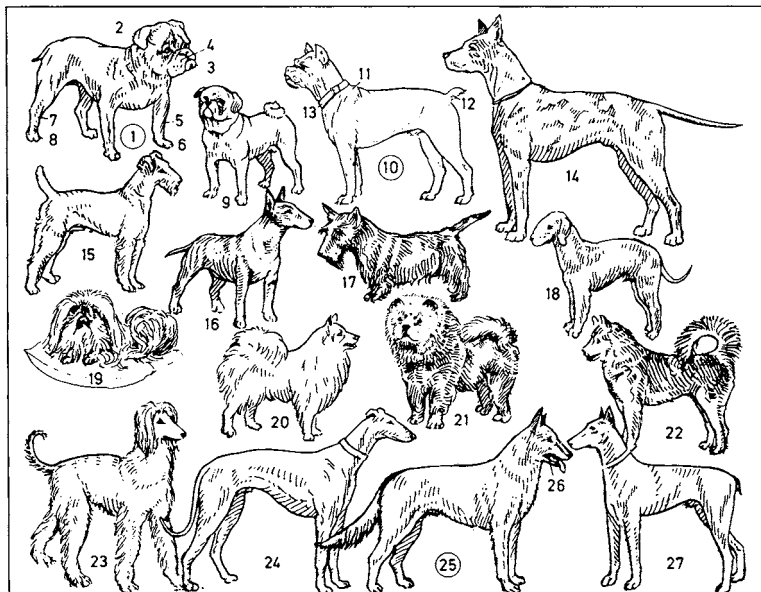
- 1-47 arable crops** (agricultural produce, farm produce)
- 1-37 varieties of grain** (grain, cereals, farinaceous plants, bread-corn)
- 1** rye (*also*: corn, 'corn' often meaning the main cereal of a country or region; in Northern Germany: rye; in Southern Germany and Italy: wheat; in Sweden: barley; in Scotland: oats; in North America: maize; in China: rice)
- 2** ear of rye, a spike (head)
- 3** spikelet
- 4** ergot, a grain deformed by fungus [shown with mycelium]
- 5** corn stem after tillering
- 6** culm (stalk)
- 7** node of the culm
- 8** leaf (grain leaf)
- 9** leaf sheath (sheath)
- 10** spikelet
- 11** glume
- 12** awn (beard, arista)
- 13** seed (grain, kernel, farinaceous grain)
- 14** embryo plant
- 15** seed
- 16** embryo
- 17** root
- 18** root hair
- 19** grain leaf
- 20** leaf blade (blade, lamina)
- 21** leaf sheath
- 22** ligule (ligula)
- 23** wheat
- 24** spelt
- 25** seed; *unripe*: green spelt, a soup vegetable
- 26** barley
- 27** oat panicle, a panicle
- 28** millet
- 29** rice
- 30** rice grain
- 31** maize (Indian corn, *Am. corn*); *varieties*: popcorn, dent corn, flint corn (flint maize, *Am. Yankee corn*), pod corn (*Am. cow corn*, husk corn), soft corn (*Am. flour corn*, squaw corn), sweet corn
- 32** female inflorescence
- 33** husk (shuck)
- 34** style
- 35** male inflorescence (tassel)
- 36** maize cob (*Am. corn cob*)
- 37** maize kernel (grain of maize)
- 38-45 root crops**
- 38** potato plant (potato), a tuberous plant; *varieties*: round, round-oval (pear-shaped), flat-oval, long, kidney-shaped potato; *according to colour*: white (*Am. Irish*), yellow, red, purple potato
- 39** seed potato (seed tuber)
- 40** potato tuber (potato, tuber)
- 41** potato top (potato haulm)
- 42** flower
- 43** poisonous potato berry (potato apple)
- 44** sugar beet, a beet
- 45** root (beet)
- 46** beet top
- 47** beet leaf



1-28 fodder plants (forage plants) for tillage

- 1 red clover (purple clover)
- 2 white clover (Dutch clover)
- 3 alsike clover (alsike)
- 4 crimson clover
- 5 four-leaf (four-leaved) clover
- 6 kidney vetch (lady's finger, lady-finger)
- 7 flower
- 8 pod
- 9 lucerne (lucerne, purple medick)
- 10 sainfoin (cock's head, cockshead)
- 11 bird's foot (bird-foot, bird's foot trefoil)
- 12 corn spurrey (spurrey, spurry), a spurrey (spurry)
- 13 common comfrey, one of the borage family (Boraginaceae)
- 14 flower (blossom)
- 15 field bean (broad bean, tick bean, horse bean)
- 16 pod
- 17 yellow lupin
- 18 common vetch
- 19 chick-pea
- 20 sunflower
- 21 mangold (mangelwurzel, mangold-wurzel, field mangel)
- 22 false oat (oat-grass)
- 23 spikelet
- 24 meadow fescue grass, a fescue
- 25 cock's foot (cocksfoot)
- 26 Italian ryegrass; *sim.*: perennial ryegrass (English ryegrass)
- 27 meadow foxtail, a paniculate grass
- 28 greater burnet saxifrage



**1-14 mastiffs**

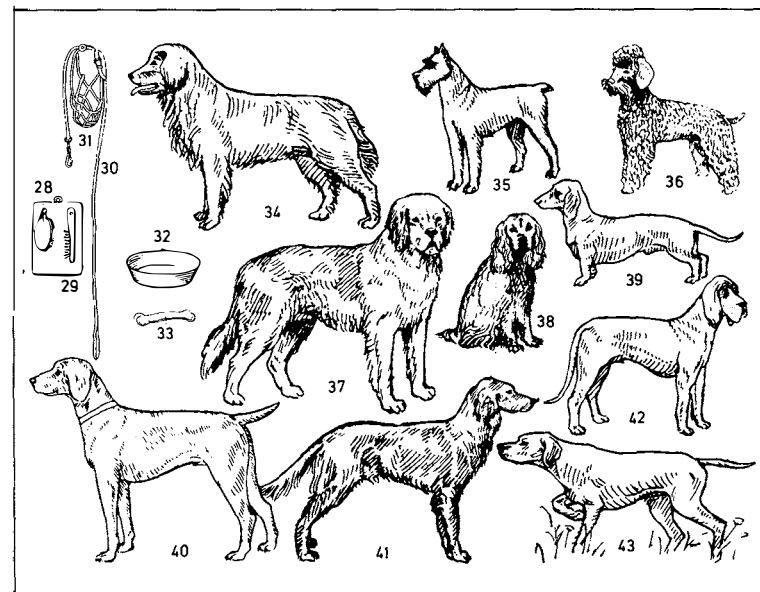
- 1 bulldog
- 2 ear, a rose-ear
- 3 muzzle
- 4 nose
- 5 foreleg
- 6 forepaw
- 7 hind leg
- 8 hind paw
- 9 pug (pug dog)
- 10 boxer
- 11 withers
- 12 tail, a docked tail
- 13 collar
- 14 Great Dane

**15-18 terriers**

- 15 wire-haired fox terrier
- 16 bull terrier
- 17 Scotch terrier (Scottish terrier)
- 18 Bedlington terrier
- 19 Pekinese (Pekingese, Pekinese dog, Pekingese dog)

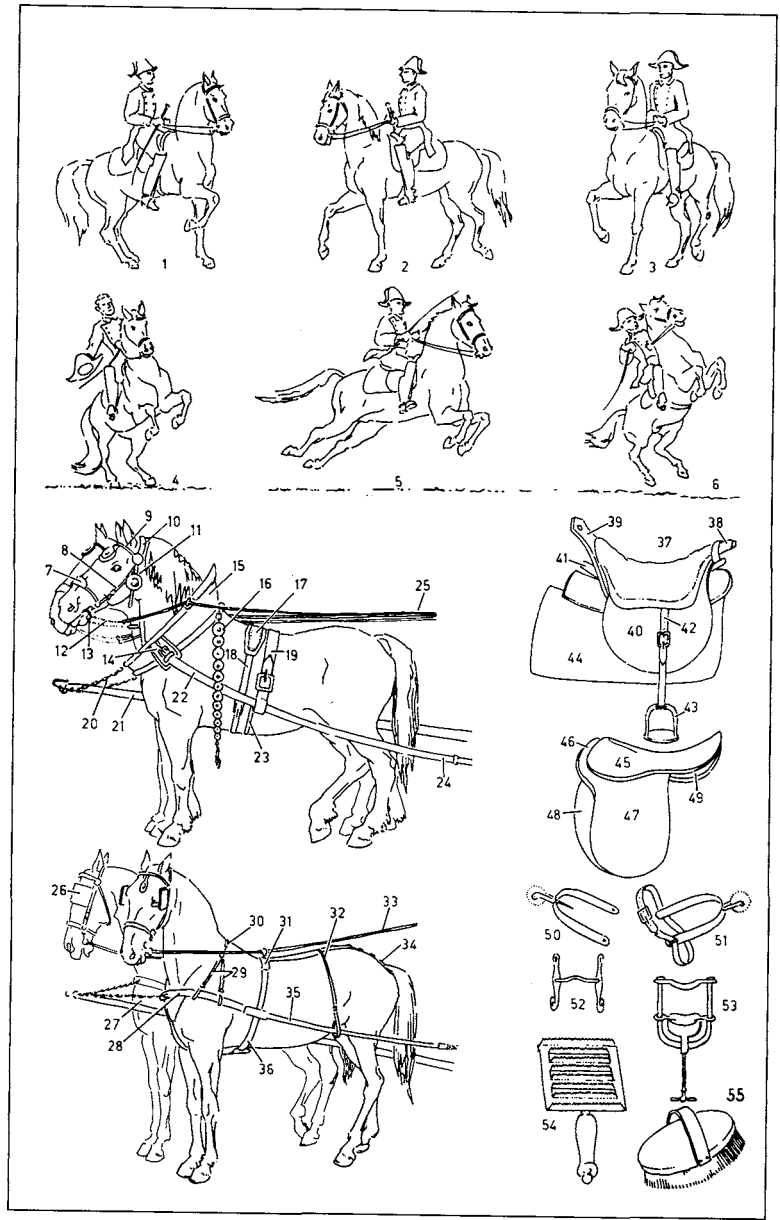
**20-22 spitzes**

- 20 spitz (Pomeranian)
- 21 chow (chow-chow)
- 22 husky
- 23, 24 greyhounds (*Am. grayhounds*)
- 23 Afghan (*Afghan hound*)
- 24 greyhound (*Am. grayhound*), a courser
- 25 Alsatian (*German sheepdog, Am. German shepherd*), a police dog, watch dog, and guide dog
- 26 flews (chaps)
- 27 Dobermann terrier

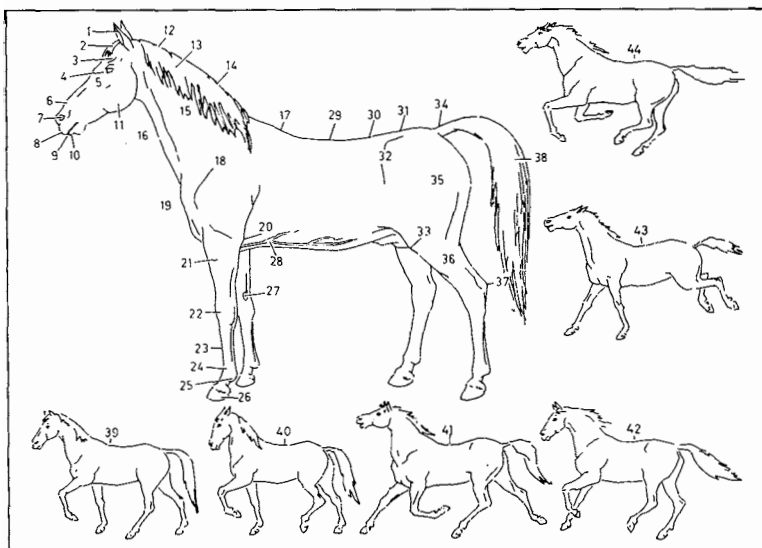


- 28 dog brush
- 29 dog comb
- 30 lead (dog lead, leash); *for hunting:* leash
- 31 muzzle
- 32 feeding bowl (dog bowl)
- 33 bone
- 34 Newfoundlander dog
- 35 schnauzer
- 36 poodle; *sim. and smaller:* pygmy (pigmy) poodle
- 37 St. Bernard (*St. Bernard dog*)
- 38-43 hunting dogs
- 38 cocker spaniel
- 39 dachshund, a terrier
- 40 German pointer
- 41 English setter
- 42 trackhound
- 43 pointer, a trackhound

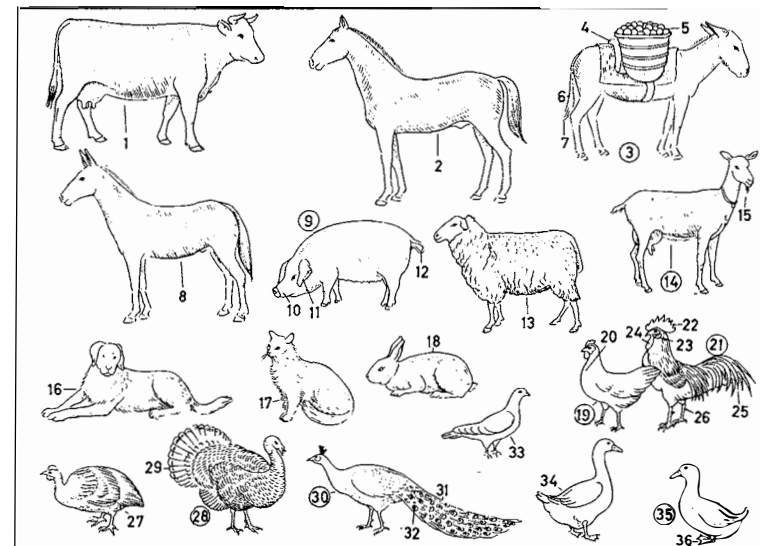
- 1-6
equitation
(high school riding, haute école)
- 1
piaffe
- 2
walk
- 3
passage
- 4
levade (pesade)
- 5
capriole
- 6
courbette (curvet)
- 7-25
harness
- 7-13, 25
bridle
- 7-11
headstall
(headpiece, halter)
- 7
noseband
- 8
cheek piece (cheek strap)
- 9
browband (front band)
- 10
crownpiece
- 11
throatlatch (throatlash)
- 12
curb chain
- 13
curb bit
- 14
hasp (hook) of the hame (Am. drag hook)
- 15
pointed collar, a collar
- 16
trappings (side trappings)
- 17
saddle-pad
- 18
girth
- 19
backband
- 20
shaft chain (pole chain)
- 21
pole
- 22
trace
- 23
second girth (emergency girth)
- 24
trace
- 25
reins (Am. lines)
- 26-36
breast harness
- 26
blinker (Am. blinder, winker)
- 27
breast collar ring
- 28
breast collar (Dutch collar)
- 29
fork
- 30
neck strap
- 31
saddle-pad
- 32
loin strap
- 33
reins (rein, Am. line)
- 34
crupper (crupper-strap)
- 35
trace
- 36
girth (belly-band)
- 37-49
saddles
- 37-44
stock saddle
(Am. western saddle)
- 37
saddle seat
- 38
pommel horn (horn)
- 39
cantle
- 40
flap (Am. fender)
- 41
bar
- 42
stirrup leather
- 43
stirrup (stirrup iron)
- 44
blanket
- 45-49
English saddle
(cavalry saddle)
- 45
seat
- 46
cantle
- 47
flap
- 48
roll (knee roll)
- 49
pad
- 50, 51
spurs
- 50
box spur (screwed jack spur)
- 51
strapped jack spur
- 52
curb bit
- 53
gag bit (gag)
- 54
currycomb
- 55
horse brush
(body brush, dandy brush)





**1-38 points of the horse****1-11 head** (horse's head)

- 1 ear
- 2 forelock
- 3 forehead
- 4 eye
- 5 face
- 6 nose
- 7 nostril
- 8 upper lip
- 9 mouth
- 10 underlip (lower lip)
- 11 lower jaw
- 12 crest (neck)
- 13 mane (horse's mane)
- 14 crest (horse's crest)
- 15 neck
- 16 throat (*Am.* throatlatch, throat-lash)
- 17 withers
- 18-27 forehand**
- 18 shoulder
- 19 breast
- 20 elbow
- 21 forearm
- 22-26 forefoot**
- 22 knee (carpus, wrist)

**23 cannon****24 fetlock****25 pastern****26 hoof****27 chestnut** (castor), a callosity**28 spur vein****29 back****30 loins** (lumbar region)**31 croup** (rump, crupper)**32 hip****33-37 hind leg****33 stifle** (stifle joint)**34 root** (dock) of the tail**35 haunch****36 gaskin****37 hock****38 tail****39-44 gaits of the horse****39 walk****40 pace****41 trot****42 canter** (hand gallop)**43, 44 full gallop****43 full gallop at the moment of descent on to the two forefeet****44 full gallop at the moment when all four feet are off the ground****Abbreviations:**

*m.* = male; *c.* = castrated;

*f.* = female; *y.* = young

**1-8 cattle and horses**

1 cow, a ruminant; *m.* bull; *c.* ox; *f.* cow; *y.* calf

2 horse; *m.* stallion; *c.* gelding; *f.* mare; *y.* foal

3 donkey

4 pack saddle (carrying saddle)

5 pack (load)

6 tufted tail

7 tuft

8 mule, a cross between a male donkey and a mare

9 pig, a cloven-hoofed animal; *m.* boar; *f.* sow; *y.* piglet

10 pig's snout (snout)

11 pig's ear

12 curly tail

13 sheep; *m.* ram; *c.* wether; *f.* ewe; *y.* lamb

14 goat

15 goat's beard

16 dog, a Leonberger; *m.* dog; *f.* bitch; *y.* pup (puppy, whelp)

17 cat, an Angora cat (Persian cat); *m.* tom (tom cat)

**18-36 small domestic animals**

18 rabbit; *m.* buck; *f.* doe

**19-36 poultry** (domestic fowl)**19-26 chicken**

19 hen

20 crop (craw)

21 cock (*Am.* rooster); *c.* capon

22 cockscomb (comb, crest)

23 lap

24 wattle (gill, dewlap)

25 falcate (falcated) tail

26 spur

27 guinea fowl

28 turkey; *m.* turkey cock (gobbler); *f.* turkey hen

29 fan tail

30 peacock

31 peacock's feather

32 eye (ocellus)

33 pigeon; *m.* cock pigeon

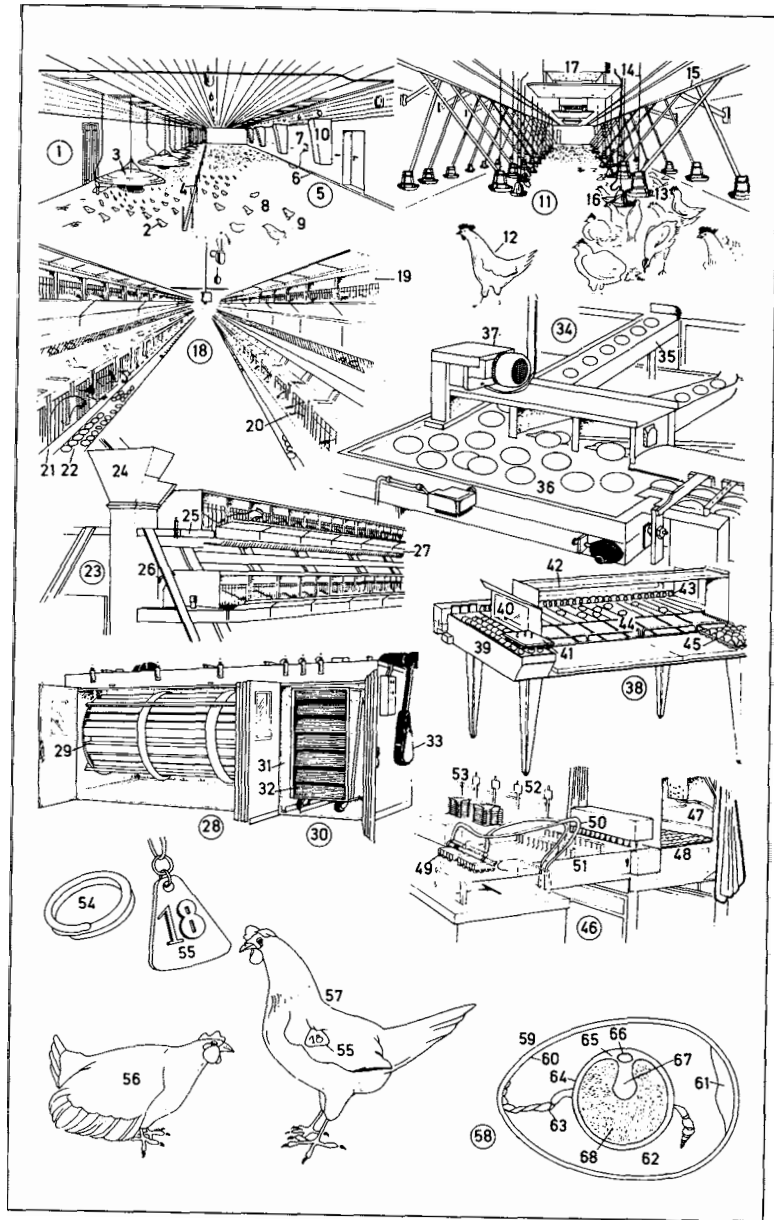
34 goose; *m.* gander; *y.* gosling

35 duck; *m.* drake; *y.* duckling

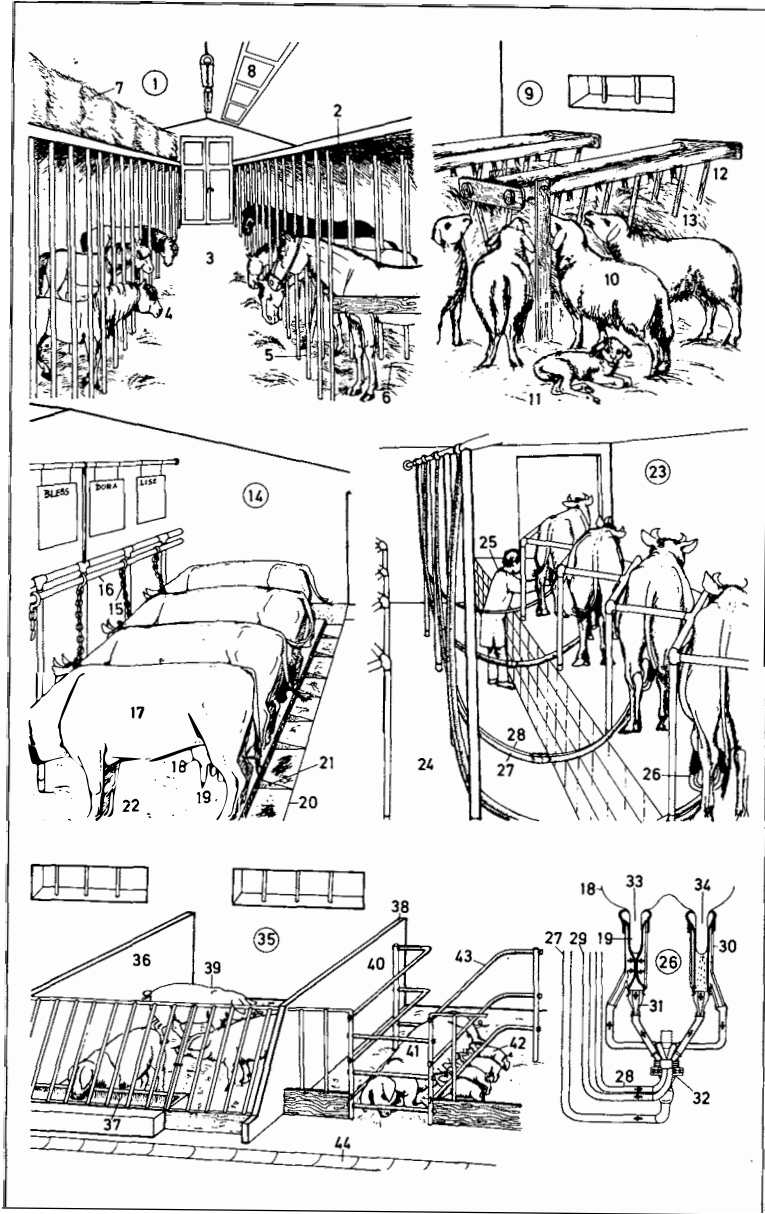
36 web (palmations) of webbed foot (palmate foot)

- 1-27 poultry farming (intensive poultry management)
- 1-17 straw yard (strawed yard) system
- 1 fold unit for growing stock (chick unit)
- 2 chick
- 3 brooder (hover)
- 4 adjustable feeding trough
- 5 pullet fold unit
- 6 drinking trough
- 7 water pipe
- 8 litter
- 9 pullet
- 10 ventilator
- 11-17 broiler rearing (rearing of broiler chickens)
- 11 chicken run (*Am.* fowl run)
- 12 broiler chicken (broiler)
- 13 mechanical feeder (self-feeder, feed dispenser)
- 14 chain
- 15 feed supply pipe
- 16 mechanical drinking bowl (mechanical drinker)
- 17 ventilator
- 18 battery system (cage system)
- 19 battery (laying battery)
- 20 tiered cage (battery cage, stepped cage)
- 21 feeding trough
- 22 egg collection by conveyor
- 23-27 mechanical feeding and dunging (manure removal, droppings removal)
- 23 rapid feeding system for battery feeding (mechanical feeder)
- 24 feed hopper
- 25 endless-chain feed conveyor (chain feeder)
- 26 water pipe (liquid feed pipe)
- 27 dunging chain (dunging conveyor)
- 28 setting and hatching machine
- 29 ventilation drum [for the setting compartment]
- 30 hatching compartment (hatcher)
- 31 metal trolley for hatching trays

- 32 hatching tray
- 33 ventilation drum motor
- 34-53 egg productions
- 34 egg collection system (egg collection)
- 35 multi-tier transport
- 36 collection by pivoted fingers
- 37 drive motor
- 38 sorting machine
- 39 conveyor trolley
- 40 fluorescent screen
- 41 suction apparatus (suction box) for transporting eggs
- 42 shelf for empty and full egg boxes
- 43 egg weighers
- 44 grading
- 45 egg box
- 46 fully automatic egg-packing machine
- 47 radioscope box
- 48 radioscope table
- 49-51 feeder
- 49 suction transporter
- 50 vacuum line
- 51 supply table
- 52 automatic counting and grading
- 53 packing box dispenser
- 54 leg ring
- 55 wing tally (identification tally)
- 56 bantam
- 57 laying hen
- 58 hen's egg (egg)
- 59 eggshell, an egg integument
- 60 shell membrane
- 61 air space
- 62 white [of the egg] (albumen)
- 63 chalaza (*Am.* treadle)
- 64 vitelline membrane (yolk sac)
- 65 blastodisc (germinal disc, cock's tread, cock's treadle)
- 66 germinal vesicle
- 67 white
- 68 yolk

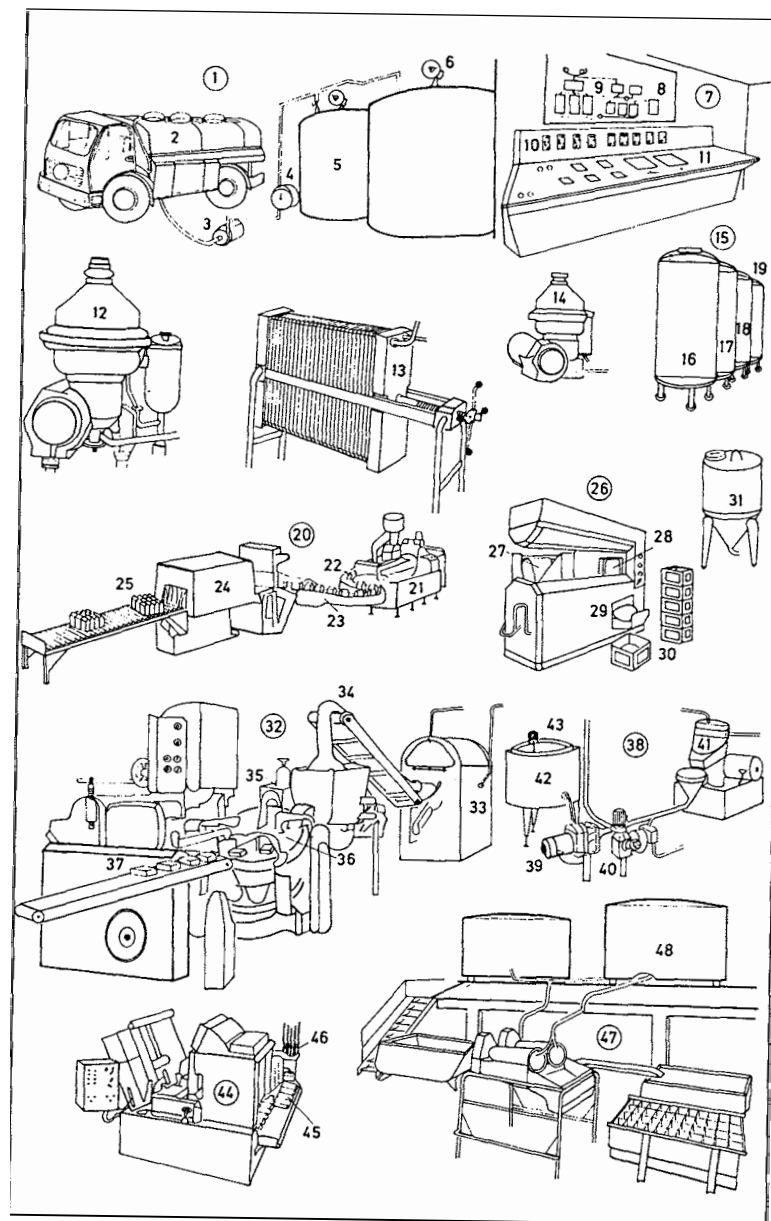


- 1 stable
- 2 horse stall (stall, horse box, box)
- 3 feeding passage
- 4 pony
- 5 bars
- 6 litter
- 7 bale of straw
- 8 ceiling light
- 9 sheep pen
- 10 mother sheep (ewe)
- 11 lamb
- 12 double hay rack
- 13 hay
- 14 dairy cow shed
- 15-16 tether
- 15 chain
- 16 rail
- 17 dairy cow (milch-cow, milker)
- 18 udder
- 19 teat
- 20 manure gutter
- 21 manure removal by sliding bars
- 22 short standing
- 23 milking parlour (Am. parlor), a herringbone parlour
- 24 working passage
- 25 milker (Am. milkman)
- 26 teat cup cluster
- 27 milk pipe
- 28 air line
- 29 vacuum line
- 30 teat cup
- 31 window
- 32 pulsator
- 33 release phase
- 34 squeeze phase
- 35 pigsty (Am. pigpen, hogpen)
- 36 pen for young pigs
- 37 feeding trough
- 38 partition
- 39 pig, a young pig
- 40 farrowing and store pen
- 41 sow
- 42 piglets (Am. shoats, shotes) (suckling pigs [for first 8 weeks])
- 43 farrowing rails
- 44 liquid manure channel



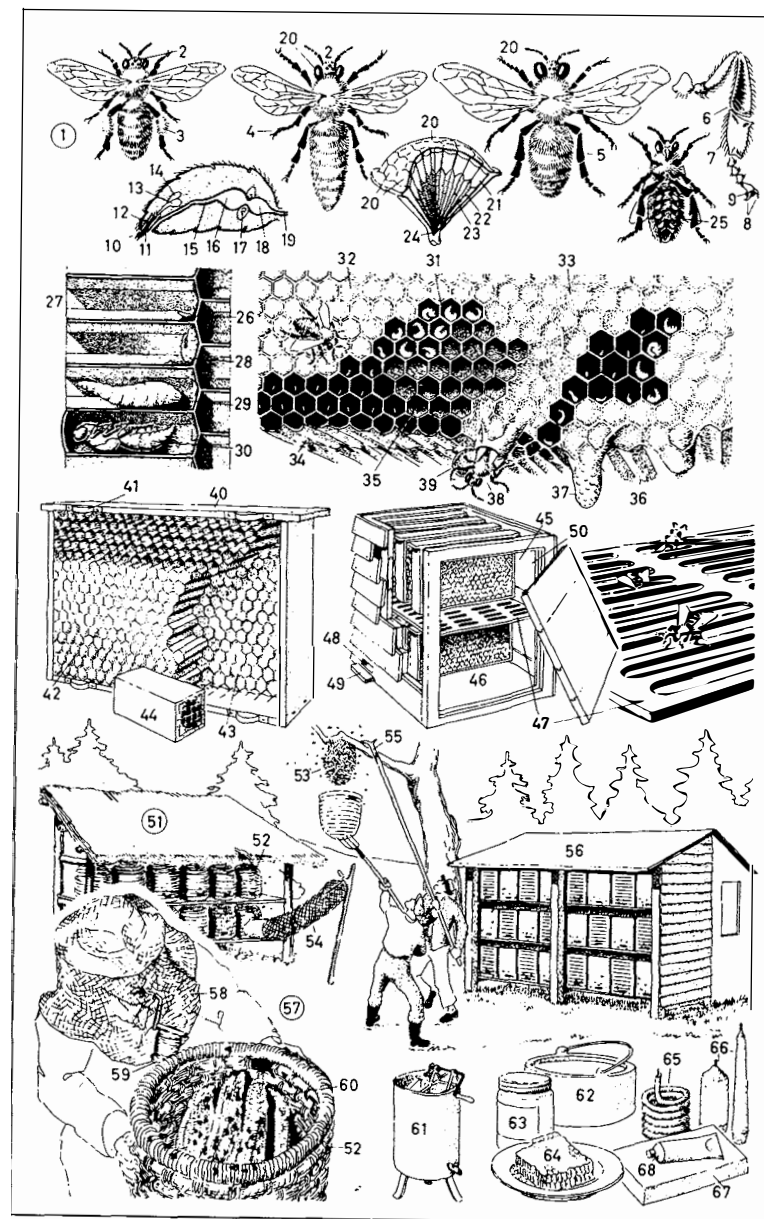
- 1-48 dairy** (dairy plant)  
**1 milk reception**  
 2 milk tanker  
 3 raw milk pump  
 4 flowmeter, an oval (elliptical) gear meter  
 5 raw milk storage tank  
 6 gauge (*Am. gage*)  
**7 central control room**  
 8 chart of the dairy  
 9 flow chart (flow diagram)  
 10 storage tank gauges (*Am. gages*)  
 11 control panel  
**12-48 milk processing area**  
 12 sterilizer (homogenizer)  
 13 milk heater; *sim.*: cream heater  
 14 cream separator  
 15 fresh milk tanks  
 16 tank for sterilized milk  
 17 skim milk (skimmed milk) tank  
 18 buttermilk tank  
 19 cream tank  
 20 fresh milk filling and packing plant  
 21 filling machine for milk cartons;  
*sim.*: milk tub filler  
 22 milk carton  
 23 conveyor belt (conveyor)  
 24 shrink-sealing machine  
 25 pack of twelve in shrink foil  
 26 ten-litre filling machine  
 27 heat-sealing machine  
 28 plastic sheets  
 29 heat-sealed bag  
 30 crate  
 31 cream maturing vat  
 32 butter shaping and packing machine  
 33 butter churn, a creamery butter machine for continuous butter making  
 34 butter supply pipe  
 35 shaping machine  
 36 packing machine  
 37 branded butter in 250 g packets  
 38 plant for producing curd cheese (curd cheese machine)  
 39 curd cheese pump

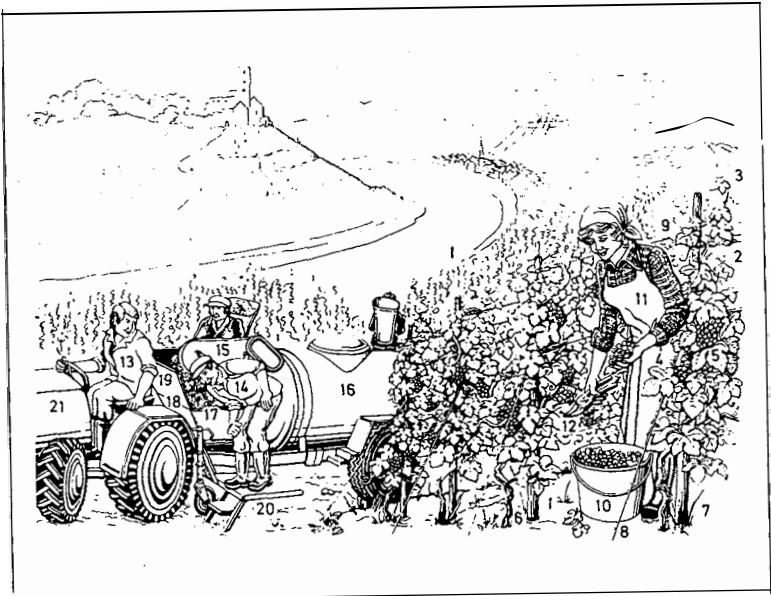
- 40 cream supply pump  
 41 curds separator  
 42 sour milk vat  
 43 stirrer  
 44 curd cheese packing machine  
 45 packeted curd cheese  
 46 bottle-capping machine (*capper*)  
 47 cheese machine  
 48 rennet vat



- 1-25 bee** (honey-bee, hive-bee)  
**1, 4-5 castes** (social classes) of bees  
**1** worker (worker bee)  
**2** three simple eyes (ocelli)  
**3** load of pollen on the hind leg  
**4** queen (queen bee)  
**5** drone (male bee)  
**6-9 left hind leg of a worker**  
**6** pollen basket  
**7** pollen comb (brush)  
**8** double claw  
**9** suctorial pad  
**10-19 abdomen of the worker**  
**10-14 stinging organs**  
**10** barb  
**11** sting  
**12** sting sheath  
**13** poison sac  
**14** poison gland  
**15-19 stomachic-intestinal canal**  
**15** intestine  
**16** stomach  
**17** contractile muscle  
**18** honey bag (honey sac)  
**19** oesophagus (esophagus, gullet)  
**20-24 compound eye**  
**20** facet  
**21** crystal cone  
**22** light-sensitive section  
**23** fibre (*Am.* fiber) of the optic nerve  
**24** optic nerve  
**25** wax scale  
**26-30 cell**  
**26** egg  
**27** cell with the egg in it  
**28** young larva  
**29** larva (grub)  
**30** chrysalis (pupa)  
**31-43 honeycomb**  
**31** brood cell  
**32** sealed (capped) cell with chrysalis (pupa)  
**33** sealed (capped) cell with honey (honey cell)  
**34** worker cells  
**35** storage cells, with pollen  
**36** drone cells

- 37** queen cell  
**38** queen emerging from her cell  
**39** cap (capping)  
**40** frame  
**41** distance piece  
**42** [artificial] honeycomb  
**43** septum (foundation, comb foundation)  
**44** queen's travelling (*Am.* traveling) box  
**45-50 beehive, a frame hive** (movable-frame hive, movable-comb hive)  
**45** super (honey super) with honeycombs  
**46** brood chamber with breeding combs  
**47** queen-excluder  
**48** entrance  
**49** flight board (alighting board)  
**50** window  
**51** old-fashioned bee shed  
**52** straw hive (skep), a hive  
**53** swarm (swarm cluster) of bees  
**54** swarming net (bag net)  
**55** hooked pole  
**56** apiary (bee house)  
**57** beekeeper (apiarist, *Am.* beeman)  
**58** bee veil  
**59** bee smoker  
**60** natural honeycomb  
**61** honey extractor (honey separator)  
**62-63** strained honey (honey)  
**62** honey pail  
**63** honey jar  
**64** honey in the comb  
**65** wax taper  
**66** wax candle  
**67** beeswax  
**68** bee sting ointment

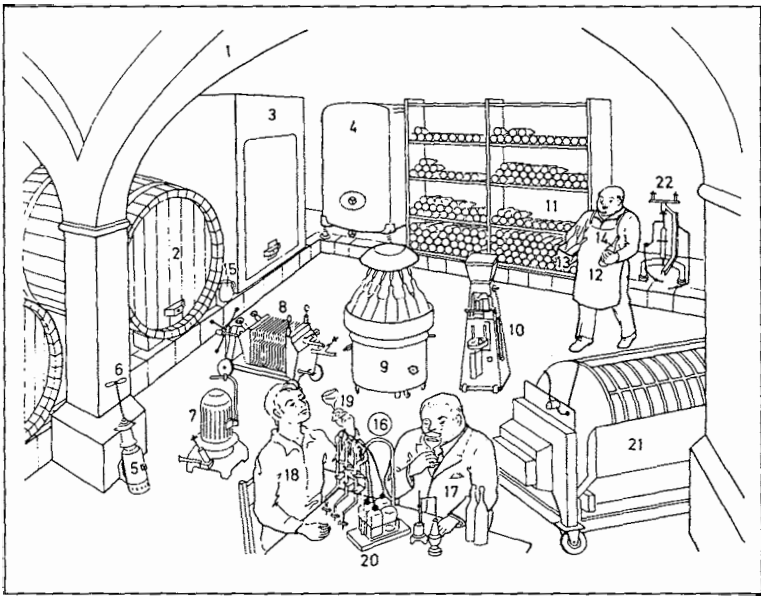




**1-21 vineyard area**

- 1 vineyard using wire trellises for training vines
- 2-9 vine (*Am.* grapevine)
- 2 vine shoot
- 3 long shoot
- 4 vine leaf
- 5 bunch of grapes (cluster of grapes)
- 6 vine stem
- 7 post (stake)
- 8 guy (guy wire)
- 9 wire trellis
- 10 tub for grape gathering
- 11 grape gatherer
- 12 secateurs for pruning vines
- 13 wine grower (viniculturist, viticulturist)
- 14 dosser carrier
- 15 dosser (pannier)
- 16 crushed grape transporter
- 17 grape crusher

- 18 hopper
- 19 three-sided flap extension
- 20 platform
- 21 vineyard tractor, a narrow-track tractor



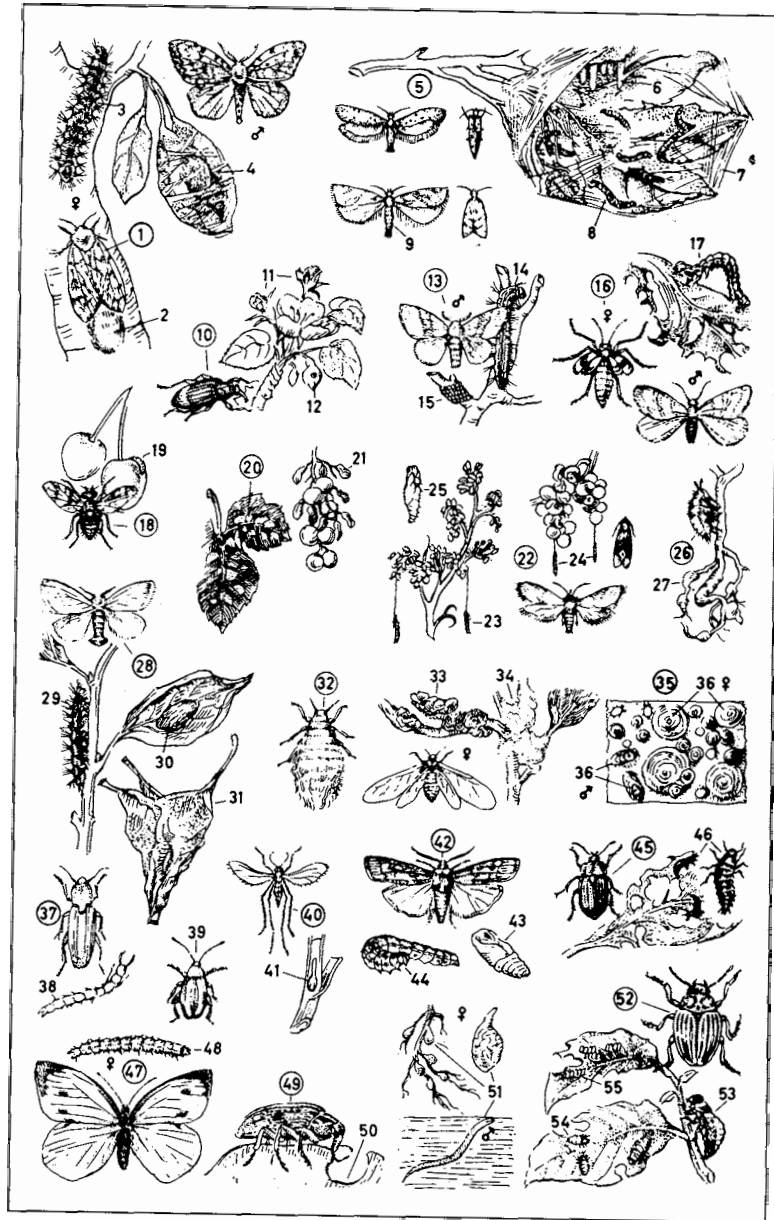
**1-22 wine cellar (wine vault)**

- 1 vault
- 2 wine cask
- 3 wine vat, a concrete vat
- 4 stainless steel vat (*also:* vat made of synthetic material)
- 5 propeller-type high-speed mixer
- 6 propeller mixer
- 7 centrifugal pump
- 8 stainless steel sediment filter
- 9 semi-automatic circular bottling machine
- 10 semi-automatic corking machine
- 11 bottle rack
- 12 cellarer's assistant
- 13 bottle basket
- 14 wine bottle
- 15 wine jug
- 16 wine tasting
- 17 head cellarman
- 18 cellarman
- 19 wineglass

- 20 inspection apparatus [for spot-checking samples]
- 21 horizontal wine press
- 22 humidifier

- 1-19 fruit pests**  
1 gipsy (gypsy) moth  
2 batch (cluster) of eggs  
3 caterpillar  
4 chrysalis (pupa)  
5 small ermine moth, an ermine moth  
6 larva (grub)  
7 tent  
8 caterpillar skeletonizing a leaf  
9 fruit-surface-eating tortrix moth (summer fruit tortrix moth)  
10 appleblossom weevil, a weevil  
11 punctured, withered flower (blossom)  
12 hole for laying eggs  
13 lackey moth  
14 caterpillar  
15 eggs  
16 winter moth, a geometrid  
17 caterpillar  
18 cherry fruit fly, a borer  
19 larva (grub, maggot)  
**20-27 vine pests**  
20 downy mildew, a mildew, a disease causing leaf drop  
21 grape affected with downy mildew  
22 grape-berry moth  
23 first-generation larva of the grape-berry moth (*Am. grape worm*)  
24 second-generation larva of the grape-berry moth (*Am. grape worm*)  
25 chrysalis (pupa)  
26 root louse, a grape phylloxera  
27 root gall (knotty swelling of the root, nodosity, tuberosity)  
28 brown-tail moth  
29 caterpillar  
30 batch (cluster) of eggs  
31 hibernation cocoon  
32 woolly apple aphid (American blight), an aphid  
33 gall caused by the woolly apple aphid  
34 woolly apple aphid colony

- 35 San-José scale, a scale insect (scale louse)  
36 larvae (grubs) [*male* elongated, *female* round]  
**37-55 field pests**  
37 click beetle, a snapping beetle (*Am. snapping bug*)  
38 wireworm, larva of the click beetle  
39 flea beetle  
40 Hessian fly, a gall midge (gall gnat)  
41 larva (grub)  
42 turnip moth, an earth moth  
43 chrysalis (pupa)  
44 cutworm, a caterpillar  
45 beet carrion beetle  
46 larva (grub)  
47 large cabbage white butterfly  
48 caterpillar of the small cabbage white butterfly  
49 brown leaf-eating weevil, a weevil  
50 feeding site  
51 sugar beet eelworm, a nematode (a threadworm, hairworm)  
52 Colorado beetle (potato beetle)  
53 mature larva (grub)  
54 young larva (grub)  
55 eggs



1-14 house insects

- 1 lesser housefly
- 2 common housefly
- 3 chrysalis (pupa, coarctate pupa)
- 4 stable fly (biting housefly)
- 5 trichotomous antenna
- 6 wood louse (slater, *Am.* sow bug)
- 7 house cricket
- 8 wing with stridulating apparatus (stridulating mechanism)
- 9 house spider
- 10 spider's web
- 11 earwig
- 12 caudal pincers
- 13 clothes moth, a moth
- 14 silverfish (*Am.* slicker), a bristletail

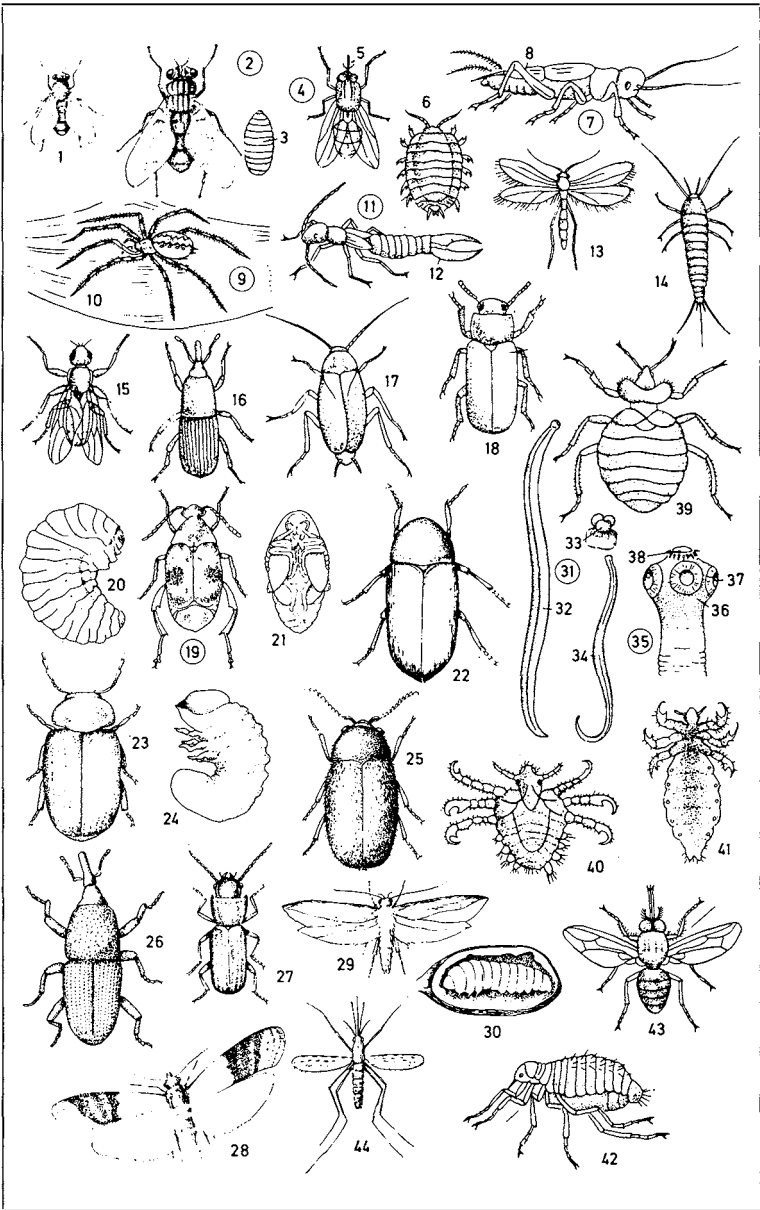
15-30 food pests (pests to stores)

- 15 cheese fly
- 16 grain weevil (granary weevil)
- 17 cockroach (black beetle)
- 18 meal beetle (meal worm beetle, flour beetle)
- 19 spotted bruchus
- 20 larva (grub)
- 21 chrysalis (pupa)
- 22 leather beetle (hide beetle)
- 23 yellow meal beetle
- 24 chrysalis (pupa)
- 25 cigarette beetle (tobacco beetle)
- 26 maize billbug (corn weevil)
- 27 one of the *Cryptolestes*, a grain pest
- 28 Indian meal moth
- 29 Angoumois grain moth (*Angoumois* moth)
- 30 Angoumois grain moth caterpillar inside a grain kernel

31-42 parasites of man

- 31 round worm (maw worm)
- 32 female
- 33 head
- 34 male
- 35 tapeworm, a flatworm
- 36 head, a suckorial organ
- 37 sucker
- 38 crown of hooks
- 39 bug (bed bug, *Am.* chinch)

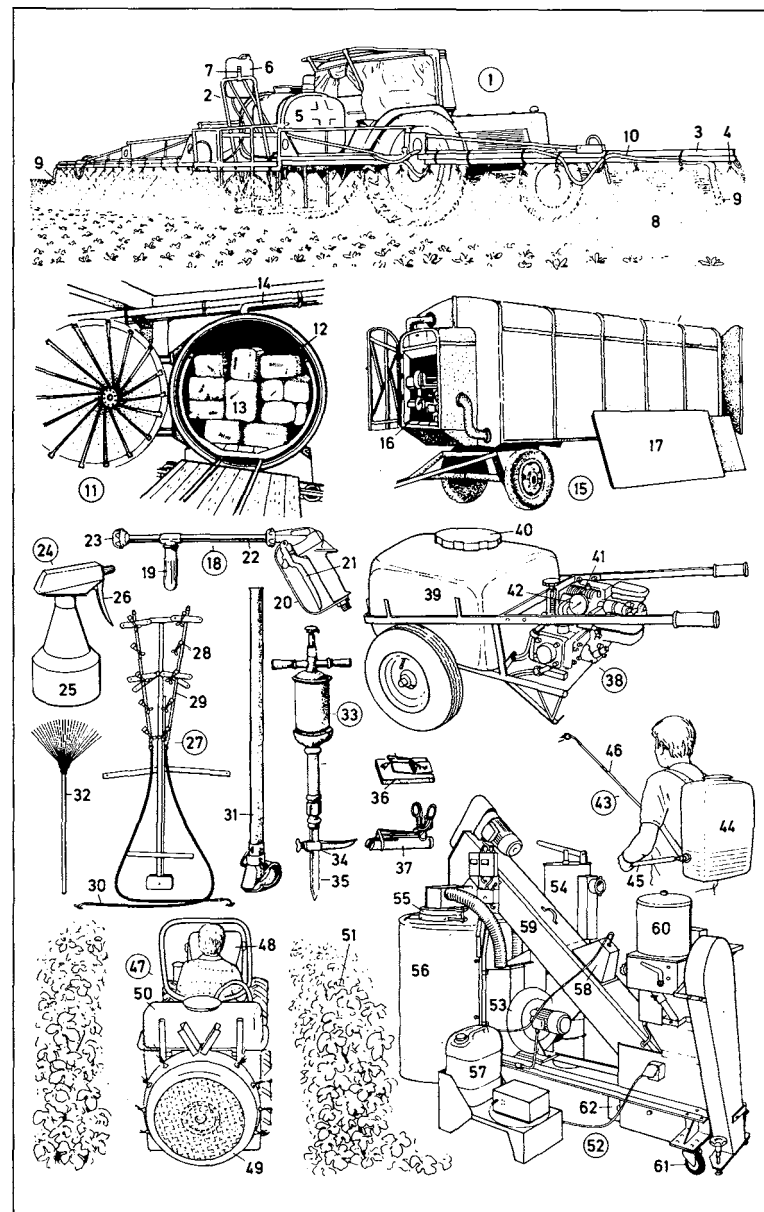
- 40 crab louse (a human louse)
- 41 clothes louse (body louse, a human louse)
- 42 flea (human flea, common flea)
- 43 tsetse fly
- 44 malaria mosquito

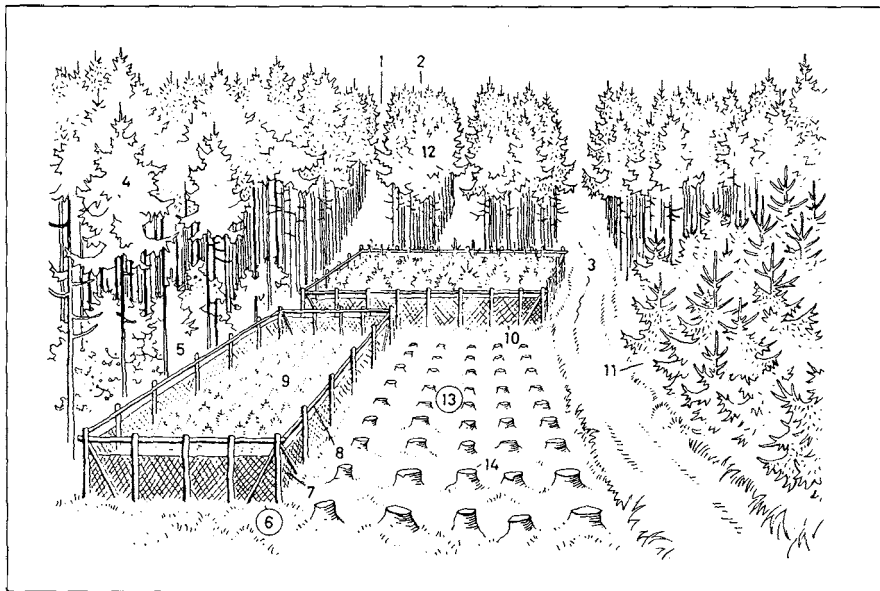




-

- 1 area spraying
- 2 tractor-mounted sprayer
- 3 spray boom
- 4 fan nozzle
- 5 spray fluid tank
- 6 foam canister for blob marking
- 7 spring suspension
- 8 spray
- 9 blob marker
- 10 foam feed pipe
- 11 vacuum fumigator (vacuum fumigation plant) of a tobacco factory
- 12 vacuum chamber
- 13 bales of raw tobacco
- 14 gas pipe
- 15 mobile fumigation chamber for fumigating nursery saplings, vine layers, seeds, and empty sacks with hydrocyanic (prussic) acid
- 16 gas circulation unit
- 17 tray
- 18 spray gun
- 19 twist grip (control grip, handle) for regulating the jet
- 20 finger guard
- 21 control lever (operating lever)
- 22 spray tube
- 23 cone nozzle
- 24 hand spray
- 25 plastic container
- 26 hand pump
- 27 pendulum spray for hop growing on slopes
- 28 pistol-type nozzle
- 29 spraying tube
- 30 hose connection
- 31 tube for laying poisoned bait
- 32 fly swat
- 33 soil injector (carbon disulphide, *Am.* carbon disulfide, injector) for killing the vine root louse
- 34 foot lever (foot pedal, foot treadle)
- 35 gas tube
- 36 mousetrap
- 37 vole and mole trap
- 38 mobile orchard sprayer, a wheelbarrow sprayer (carriage sprayer)
- 39 spray tank
- 40 screw-on cover
- 41 direct-connected motor-driven pump with petrol motor
- 42 pressure gauge (*Am.* gage) (manometer)
- 43 plunger-type knapsack sprayer
- 44 spray canister with pressure chamber
- 45 piston pump lever
- 46 hand lance with nozzle
- 47 semi-mounted sprayer
- 48 vineyard tractor
- 49 fan
- 50 spray fluid tank
- 51 row of vines
- 52 dressing machine (seed-dressing machine) for dry-seed dressing (seed dusting)
- 53 dedusting fan (dust removal fan) with electric motor
- 54 bag filter
- 55 bagging nozzle
- 56 dedusting screen (dust removal screen)
- 57 water canister [containing water for spraying]
- 58 spray unit
- 59 conveyor unit with mixing screw
- 60 container for disinfectant powder with dosing mechanism
- 61 castor
- 62 mixing chamber

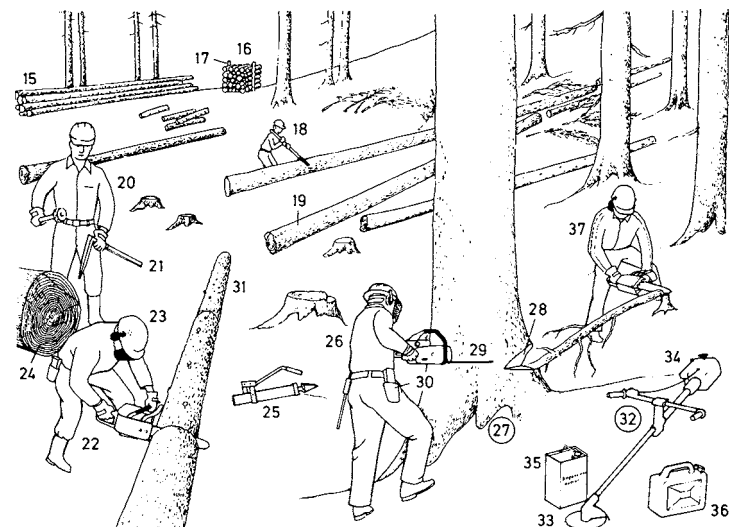


**1-34 forest, a wood**

- 1 ride (aisle, lane, section line)
- 2 compartment (section)
- 3 wood haulage way, a forest track

**4-14 clear-felling system**

- 4 standing timber
- 5 underwood (underbrush, undergrowth, brushwood, *Am.* brush)
- 6 seedling nursery, a tree nursery
- 7 deer fence (fence), a wire netting fence (protective fence for seedlings); *sim.*: rabbit fence
- 8 guard rail
- 9 seedlings
- 10, 11 young trees
- 10 tree nursery after transplanting
- 11 young plantation
- 12 young plantation after brashing
- 13 clearing
- 14 tree stump (stump, stub)

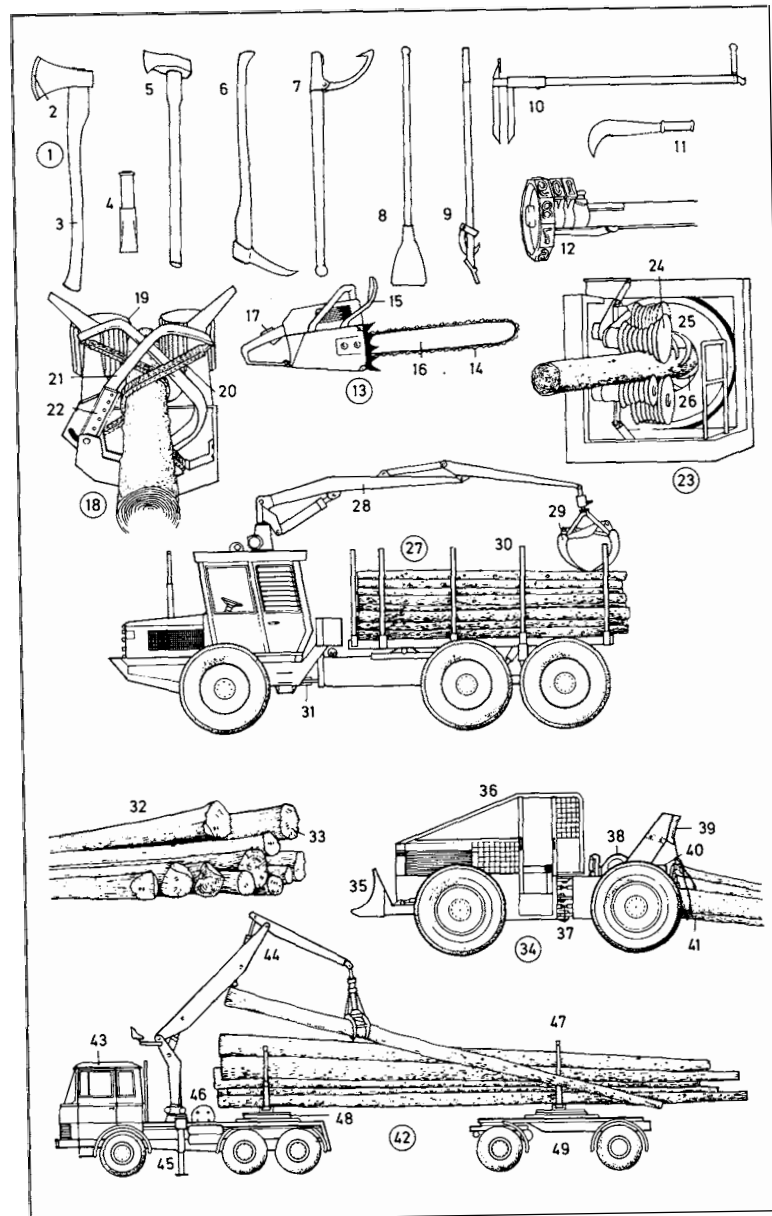
**15-37 wood cutting** (timber cutting, tree felling, *Am.* lumbering)

- 15 timber skidded to the stack (stacked timber, *Am.* yarded timber)
- 16 stack of logs, one cubic metre (*Am.* meter) of wood
- 17 post (stake)
- 18 forest labourer (woodsman, *Am.* logger, lumberer, lumberjack, lumberman, timberjack) turning (*Am.* canting) timber
- 19 bole (tree trunk, trunk, stem)
- 20 feller numbering the logs
- 21 steel tree calliper (caliper)
- 22 power saw (motor saw) cutting a bole
- 23 safety helmet with visor and ear pieces
- 24 annual rings
- 25 hydraulic felling wedge
- 26 protective clothing [orange top, green trousers]
- 27 felling with a power saw (motor saw)
- 28 undercut (notch, throat, gullet, mouth, sink, kerf, birdsmouth)
- 29 back cut
- 30 sheath holding felling wedge
- 31 log
- 32 free-cutting saw for removing underwood and weeds
- 33 circular saw (or activated blade) attachment
- 34 power unit (motor)
- 35 canister of viscous oil for the saw chain
- 36 petrol canister (*Am.* gasoline canister)
- 37 felling of small timber (of small-sized thinnings) (thinning)

## 85 Forestry II

- 1 axe (*Am.* ax)
- 2 edge (cutting edge)
- 3 handle (helve)
- 4 felling wedge (falling wedge) with wood insert and ring
- 5 riving hammer (cleaving hammer, splitting hammer)
- 6 lifting hook
- 7 cant hook
- 8 barking iron (bark spud)
- 9 peavy
- 10 slide calliper (caliper) (calliper square)
- 11 billhook, a knife for lopping
- 12 revolving die hammer (marking hammer, marking iron, *Am.* marker)
- 13 power saw (motor saw)
- 14 saw chain
- 15 safety brake for the saw chain, with finger guard
- 16 saw guide
- 17 accelerator lock
- 18 snedding machine (trimming machine, *Am.* knotting machine, limbing machine)
- 19 feed rolls
- 20 flexible blade
- 21 hydraulic arm
- 22 trimming blade
- 23 debarking (barking, bark stripping) of boles
- 24 feed roller
- 25 cylinder trimmer
- 26 rotary cutter
- 27 short-haul skidder
- 28 loading crane
- 29 log grips
- 30 post
- 31 Ackermann steering system
- 32 log dump
- 33 number (identification number)
- 34 skidder
- 35 front blade (front plate)
- 36 crush-proof safety bonnet (*Am.* safety hood)
- 37 Ackermann steering system
- 38 cable winch

- 39 cable drum
- 40 rear blade (rear plate)
- 41 boles with butt ends held off the ground
- 42 haulage of timber by road
- 43 tractor (tractor unit)
- 44 loading crane
- 45 hydraulic jack
- 46 cable winch
- 47 post
- 48 bolster plate
- 49 rear bed (rear bunk)



**1-52 kinds of hunting**

**1-8 stalking** (deer stalking, *Am.* still-hunting) in the game preserve

**1** huntsman (hunter)

**2** hunting clothes

**3** knapsack

**4** sporting gun (sporting rifle, hunting rifle)

**5** huntsman's hat

**6** field glasses, binoculars

**7** gun dog

**8** track (trail, hoofprints)

**9-12 hunting in the rutting season and the pairing season**

**9** hunting screen (screen, *Am.* blind)

**10** shooting stick (shooting seat, seat stick)

**11** blackcock, displaying

**12** rutting stag

**13** hind, grazing

**14-17 hunting from a raised hide** (raised stand)

**14** raised hide (raised stand, high seat)

**15** herd within range

**16** game path (*Am.* runway)

**17** roebuck, hit in the shoulder and killed by a finishing shot

**18** phaeton

**19-27 types of trapping**

**19** trapping of small predators

**20** box trap (trap for small predators)

**21** bait

**22** marten, a small predator

**23** ferreting (hunting rabbits out of their warrens)

**24** ferret

**25** ferreter

**26** burrow (rabbit burrow, rabbit hole)

**27** net (rabbit net) over the burrow opening



**28** feeding place for game (winter feeding place)

**29** poacher

**30** carbine, a short rifle

**31** boar hunt

**32** wild sow (sow, wild boar)

**33** boardhound (hound, hunting dog; collectively: pack, pack of hounds)

**34-39 beating** (driving, hare hunting)

**34** aiming position

**35** hare, furred game (ground game)

**36** retrieving

**37** beater

**38** bag (kill)

**39** cart for carrying game

**40** waterfowling (wildfowling, duck shooting, *Am.* duck hunting)

**41** flight of wild ducks, winged game

**42-46 falconry** (hawking)

**42** falconer

**43** reward, a piece of meat

**44** falcon's hood

**45** jess

**46** falcon, a hawk, a male hawk (tiercel) swooping (stooping) on a heron

**47-52 shooting from a butt**

**47** tree to which birds are lured

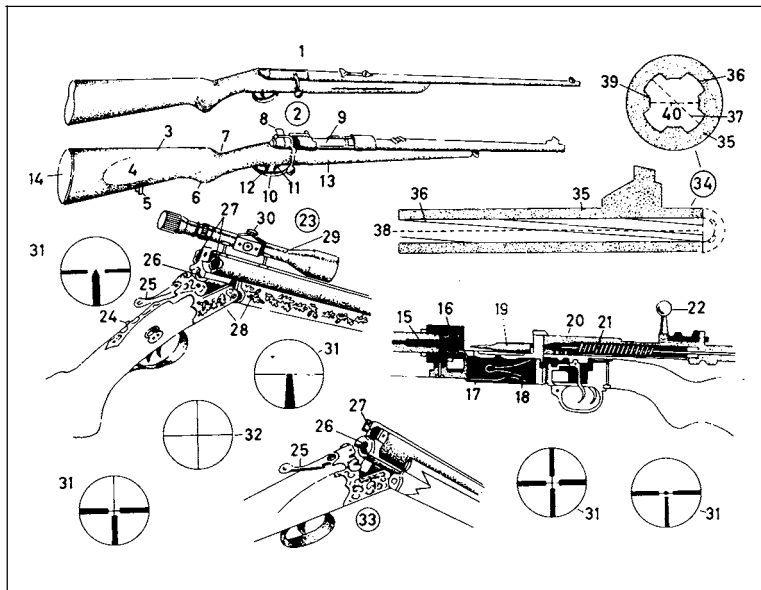
**48** eagle owl, a decoy bird (decoy)

**49** perch

**50** decoyed bird, a crow

**51** butt for shooting crows or eagle owls

**52** gun slit

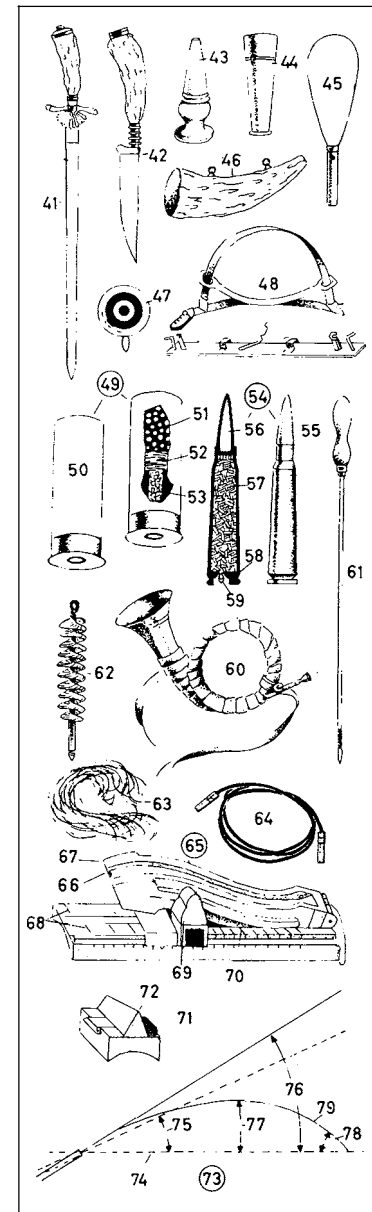


### 1-40 sporting guns (sporting rifles, hunting rifles)

- |   |   |
|---|---|
| 1 single-loader (single-loading rifle)  | 21 firing pin (striker)   |
| 2 repeating rifle, a small-arm (fire-arm), a repeater (magazine rifle, magazine repeater) | 22 bolt handle (bolt lever)                                     |
| 3, 4, 6, 13 stock   | 23 triple-barrelled (triple-barreled) rifle, a self-cocking gun |
| 3 butt  | 24 reversing catch; <i>in various guns</i> : safety catch       |
| 4 cheek [on the left side]  | 25 sliding safety catch   |
| 5 sling ring  | 26 rifle barrel (rifled barrel)                                 |
| 6 pistol grip   | 27 smooth-bore barrel   |
| 7 small of the butt   | 28 chasing  |
| 8 safety catch  | 29 telescopic sight (riflescope, telescope sight)               |
| 9 lock  | 30 graticule adjuster screws                                    |
| 10 trigger guard  | 31-32 graticule (sight graticule)                               |
| 11 second set trigger (firing trigger)  | 31 various graticule systems                                    |
| 12 hair trigger (set trigger)   | 32 cross wires ( <i>Am.</i> cross hairs)                        |
| 13 foregrip   | 33 over-and-under shotgun                                       |
| 14 butt plate   | 34 rifled gun barrel  |
| 15 cartridge chamber  | 35 barrel casing  |
| 16 receiver   | 36 rifling  |
| 17 magazine   | 37 rifling calibre ( <i>Am.</i> caliber)                        |
| 18 magazine spring  | 38 bore axis  |
| 19 ammunition (cartridge)   | 39 land   |
| 20 chamber  | 40 calibre (bore diameter, <i>Am.</i> caliber)                  |

### 41-48 hunting equipment

- |   |
|---|
| 41 double-edged hunting knife                               |
| 42 [single-edged] hunting knife                             |
| 43-47 calls for luring game (for calling game)              |
| 43 roe call   |
| 44 hare call  |
| 45 quail call   |
| 46 stag call  |
| 47 partridge call   |
| 48 bow trap (bow gin), a jaw trap                           |
| 49 small-shot cartridge                                     |
| 50 cardboard case   |
| 51 small-shot charge  |
| 52 felt wad   |
| 53 smokeless powder ( <i>different kind</i> : black powder) |
| 54 cartridge  |
| 55 full-jacketed cartridge                                  |
| 56 soft-lead core   |
| 57 powder charge  |
| 58 detonator cap  |
| 59 percussion cap   |
| 60 hunting horn   |
| 61-64 rifle cleaning kit                                    |
| 61 cleaning rod   |
| 62 cleaning brush   |
| 63 cleaning tow   |
| 64 pull-through ( <i>Am.</i> pull-thru)                     |
| 65 sights   |
| 66 notch (sighting notch)                                   |
| 67 back sight leaf  |
| 68 sight scale division                                     |
| 69 back sight slide   |
| 70 notch [to hold the spring]                               |
| 71 front sight (foresight)                                  |
| 72 bead   |
| 73 ballistics   |
| 74 azimuth  |
| 75 angle of departure                                       |
| 76 angle of elevation                                       |
| 77 apex (zenith)  |
| 78 angle of descent   |
| 79 ballistic curve  |



**1-27 red deer**

**1** hind (red deer), a young hind or a dam; *collectively*: antlerless deer, (y.) calf

**2** tongue

**3** neck

**4** rutting stag

**5-11 antlers**

**5** burr (rose)

**6** brow antler (brow tine, brow point, brow snag)

**7** bez antler (bay antler, bay, bez tine)

**8** royal antler (royal, tray)

**9** surroyal antlers (surroyals)

**10** point (tine)

**11** beam (main trunk)

**12** head

**13** mouth

**14** larmier (tear bag)

**15** eye

**16** ear

**17** shoulder

**18** loin

**19** scut (tail)

**20** rump

**21** leg (haunch)

**22** hind leg

**23** dew claw

**24** hoof

**25** foreleg

**26** flank

**27** collar (rutting mane)

**28-39 roe (roe deer)**

**28** roebuck (buck)

**29-31 antlers (horns)**

**29** burr (rose)

**30** beam with pearls

**31** point (tine)

**32** ear

**33** eye

**34** doe (female roe), a female fawn or a barren doe

**35** loin

**36** rump

**37** leg (haunch)

**38** shoulder

**39** fawn, (m.) young buck, (f.) young doe

**40-41 fallow deer**

**40** fallow buck, a buck with palmate (palmated) antlers, (f.) doe

**41** palm

**42** red fox, (m.) dog, (f.) vixen, (y.) cub

**43** eyes

**44** ear

**45** muzzle (mouth)

**46** pads (paws)

**47** brush (tail)

**48** badger, (f.) sow

**49** tail

**50** paws

**51** wild boar, (m.) boar, (f.) wild sow (sow), (y.) young boar

**52** bristles

**53** snout

**54** tusk

**55** shield

**56** hide

**57** dew claw

**58** tail

**59** hare, (m.) buck, (f.) doe

**60** eye

**61** ear

**62** scut (tail)

**63** hind leg

**64** foreleg

**65** rabbit

**66** blackcock

**67** tail

**68** falcate (falcated) feathers

**69** hazel grouse (hazel hen)

**70** partridge

**71** horseshoe (horseshoe marking)

**72** wood grouse (capercaillie)

**73** beard

**74** axillary marking

**75** tail (fan)

**76** wing (pinion)

**77** common pheasant, a pheasant, (m.)

cock pheasant (pheasant cock), (f.)

hen pheasant (pheasant hen)

**78** plumicorn (feathered ear, ear tuft, ear, horn)

**79** wing

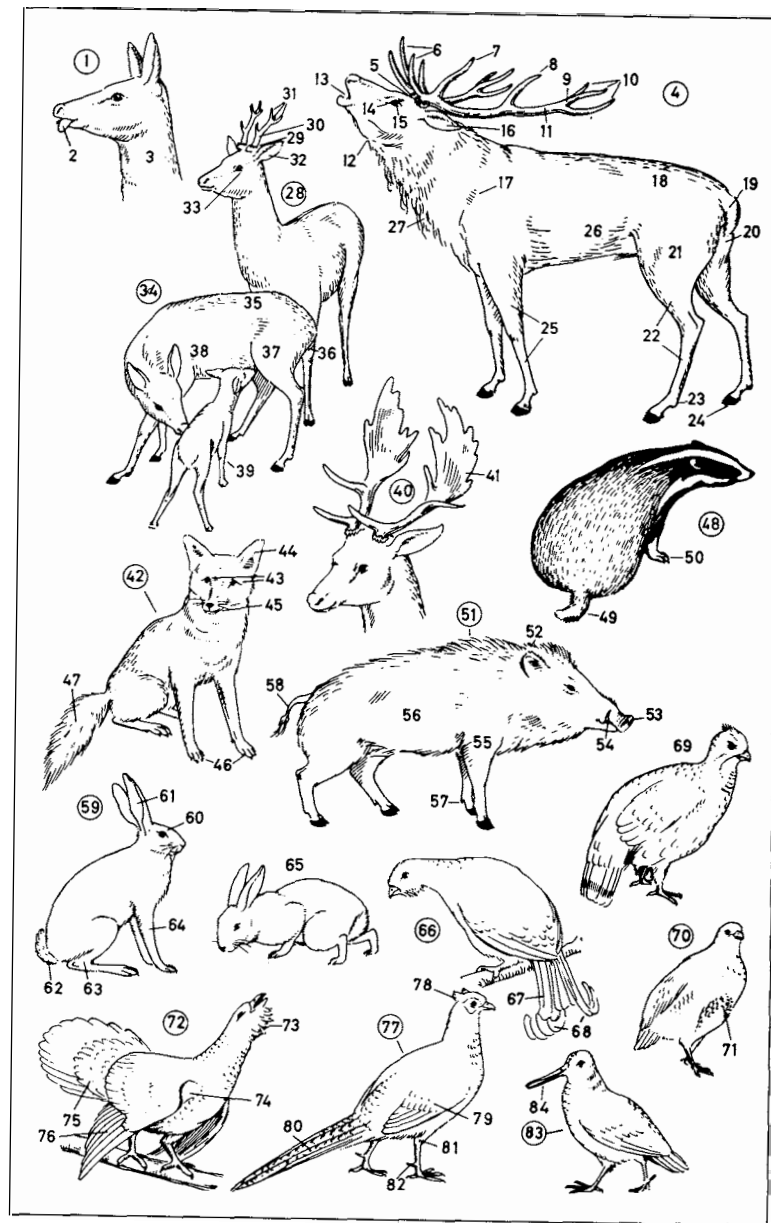
**80** tail

**81** leg

**82** spur

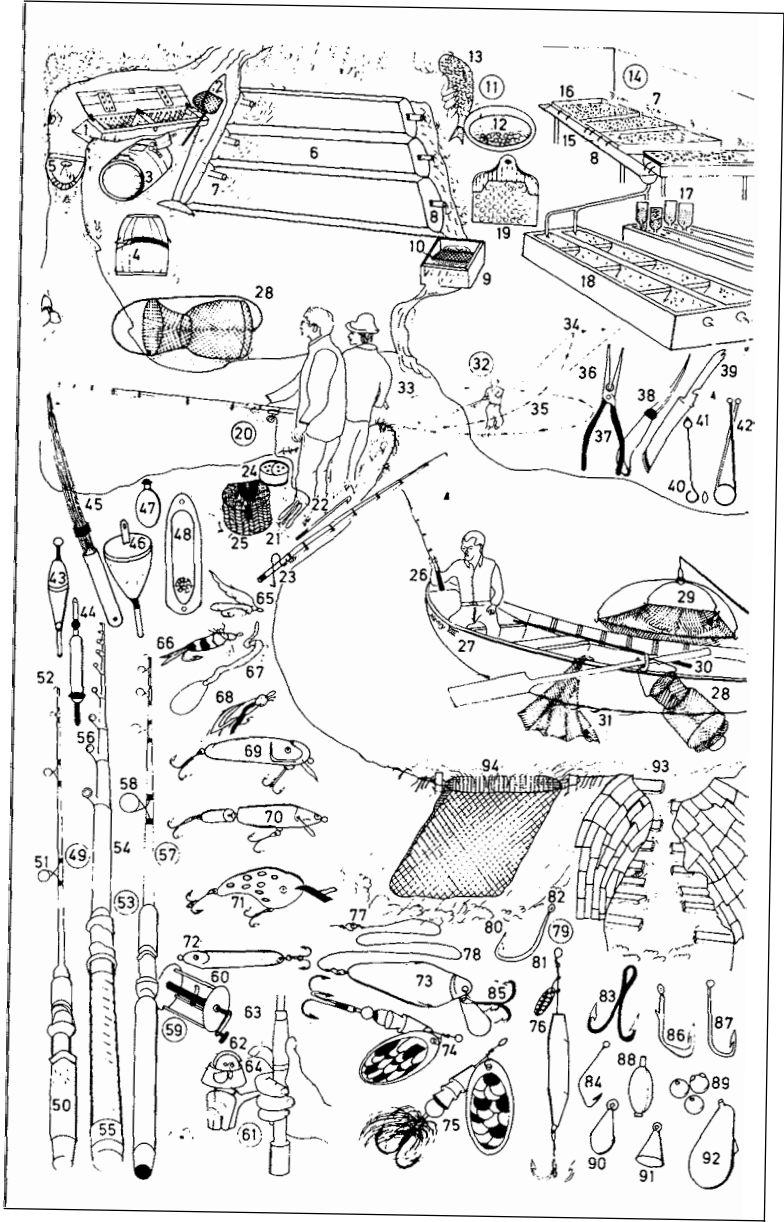
**83** snipe

**84** bill (beak)



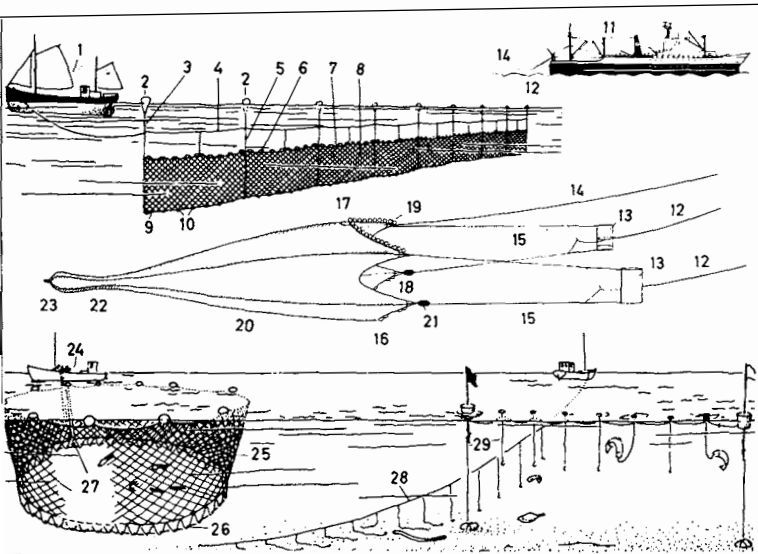
- 1-19 fish farming (fish culture, pisciculture)
- 1 cage in running water
- 2 hand net (landing net)
- 3 semi-oval barrel for transporting fish
- 4 vat
- 5 trellis in the overflow
- 6 trout pond; *sim.*: carp pond, a fry pond, fattening pond, or cleansing pond
- 7 water inlet (water supply pipe)
- 8 water outlet (outlet pipe)
- 9 monk
- 10 screen
- 11-19 hatchery
- 11 stripping the spawning pike (seed pike)
- 12 fish spawn (spawn, roe, fish eggs)
- 13 female fish (spawner, seed fish)
- 14 trout breeding (trout rearing)
- 15 Californian incubator
- 16 trout fry
- 17 hatching jar for pike
- 18 long incubation tank
- 19 Brandstetter egg-counting board
- 20-94 angling
- 20-31 bottom fishing (coarse fishing)
- 20 line shooting
- 21 coils
- 22 cloth (rag) or paper
- 23 rod rest
- 24 bait tin
- 25 fish basket (creel)
- 26 fishing for carp from a boat
- 27 rowing boat (fishing boat)
- 28 keep net
- 29 drop net
- 30 pole (punt pole, quant pole)
- 31 casting net
- 32 two-handed side cast with fixed-spool reel
- 33 initial position
- 34 point of release
- 35 path of the rod tip
- 36 trajectory of the baited weight
- 37-94 fishing tackle
- 37 fishing pliers
- 38 filleting knife
- 39 fish knife
- 40 disgorger (hook disgorgers)
- 41 bait needle
- 42 gag
- 43-48 floats
- 43 sliding cork float
- 44 plastic float
- 45 quill float
- 46 polystyrene float
- 47 oval bubble float
- 48 lead-weighted sliding float

- 49-58 rods
- 49 solid glass rod
- 50 cork handle (cork butt)
- 51 spring-steel ring
- 52 top ring (end ring)
- 53 telescopic rod
- 54 rod section
- 55 bound handle (bound butt)
- 56 ring
- 57 carbon-fibre rod; *sim.*: hollow glass rod
- 58 all-round ring (butt ring for long cast), a steel bridge ring
- 59-64 reels
- 59 multiplying reel (multiplier reel)
- 60 line guide
- 61 fixed-spool reel (stationary-drum reel)
- 62 bale arm
- 63 fishing line
- 64 controlling the cast with the index finger
- 65-76 baits
- 65 fly
- 66 artificial nymph
- 67 artificial earthworm
- 68 artificial grasshopper
- 69 single-jointed plug (single-jointed wobbler)
- 70 double-jointed plug (double-jointed wobbler)
- 71 round wobbler
- 72 wiggler
- 73 spoon bait (spoon)
- 74 spinner
- 75 spinner with concealed hook
- 76 long spinner
- 77 swivel
- 78 cast (leader)
- 79-87 hooks
- 79 fish hook
- 80 point of the hook with barb
- 81 bend of the hook
- 82 spade (eye)
- 83 open double hook
- 84 limerick
- 85 closed treble hook (triangle)
- 86 carp hook
- 87 eel hook
- 88-92 leads (lead weights)
- 88 oval lead (oval sinker)
- 89 lead shot
- 90 pear-shaped lead
- 91 plummet
- 92 sea lead
- 93 fish ladder (fish pass, fish way)
- 94 stake net





# 90 Sea Fishing



## 1-23 deep-sea fishing

### 1-10 drift net fishing

1 herring lugger (fishing lugger, lugger)

### 2-10 herring drift net

- 2 buoy
- 3 buoy rope
- 4 float line
- 5 seizing
- 6 wooden float
- 7 headline
- 8 net
- 9 footrope
- 10 sinkers (weights)
- 11-23 trawl fishing (trawling)
- 11 factory ship, a trawler
- 12 warp (trawl warp)
- 13 otter boards
- 14 net sonar cable
- 15 wire warp
- 16 wing
- 17 net sonar device
- 18 footrope
- 19 spherical floats
- 20 belly

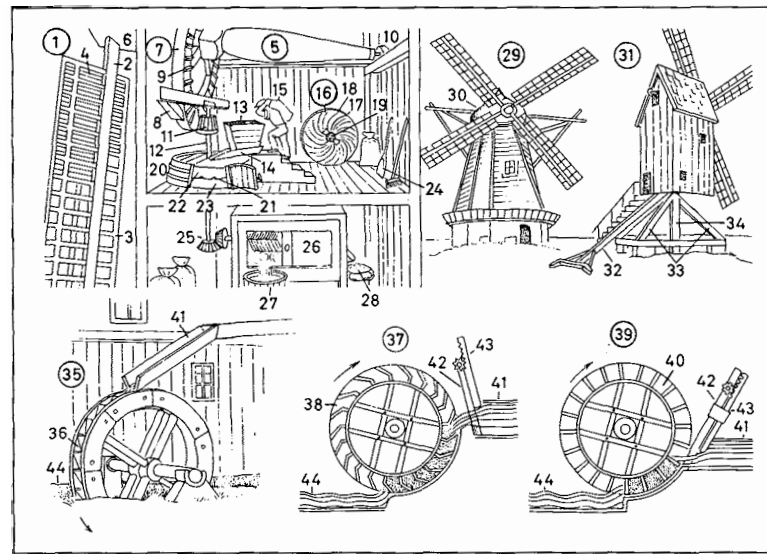
21 1,800 kg iron weight

22 cod end (cod)

23 cod line for closing the cod end

### 24-29 inshore fishing

- 24 fishing boat
- 25 ring net cast in a circle
- 26 cable for closing the ring net
- 27 closing gear
- 28-29 long-line fishing (long-lining)
- 28 long line
- 29 suspended fishing tackle



## 1-34 windmill

- 1 windmill vane (windmill sail, windmill arm)
- 2 stock (middling, back, radius)
- 3 frame
- 4 shutter
- 5 wind shaft (sail axle)
- 6 sail top
- 7 brake wheel
- 8 brake
- 9 wooden cog
- 10 pivot bearing (step bearing)
- 11 wallower
- 12 mill spindle
- 13 hopper
- 14 shoe (trough, spout)
- 15 miller
- 16 millstone
- 17 furrow (flute)
- 18 master furrow
- 19 eye
- 20 hurst (millstone casing)
- 21 set of stones (millstones)
- 22 runner (upper millstone)
- 23 bed stone (lower stone, bedder)

24 wooden shovel

25 bevel gear (bevel gearing)

26 bolter (sifter)

27 wooden tub (wooden tun)

28 flour

29 smock windmill (Dutch windmill)

30 rotating (revolving) windmill cap

31 post windmill (German windmill)

32 tailpole (pole)

33 base

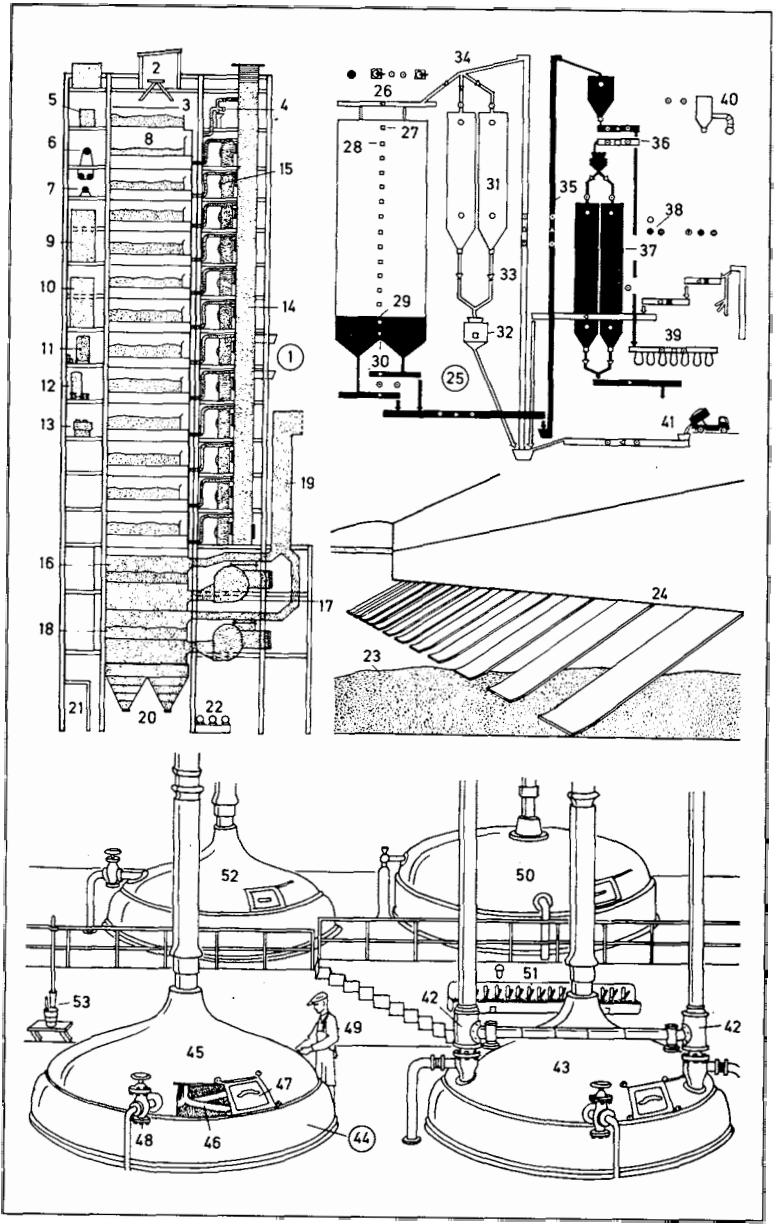
34 post

### 35-44 watermill

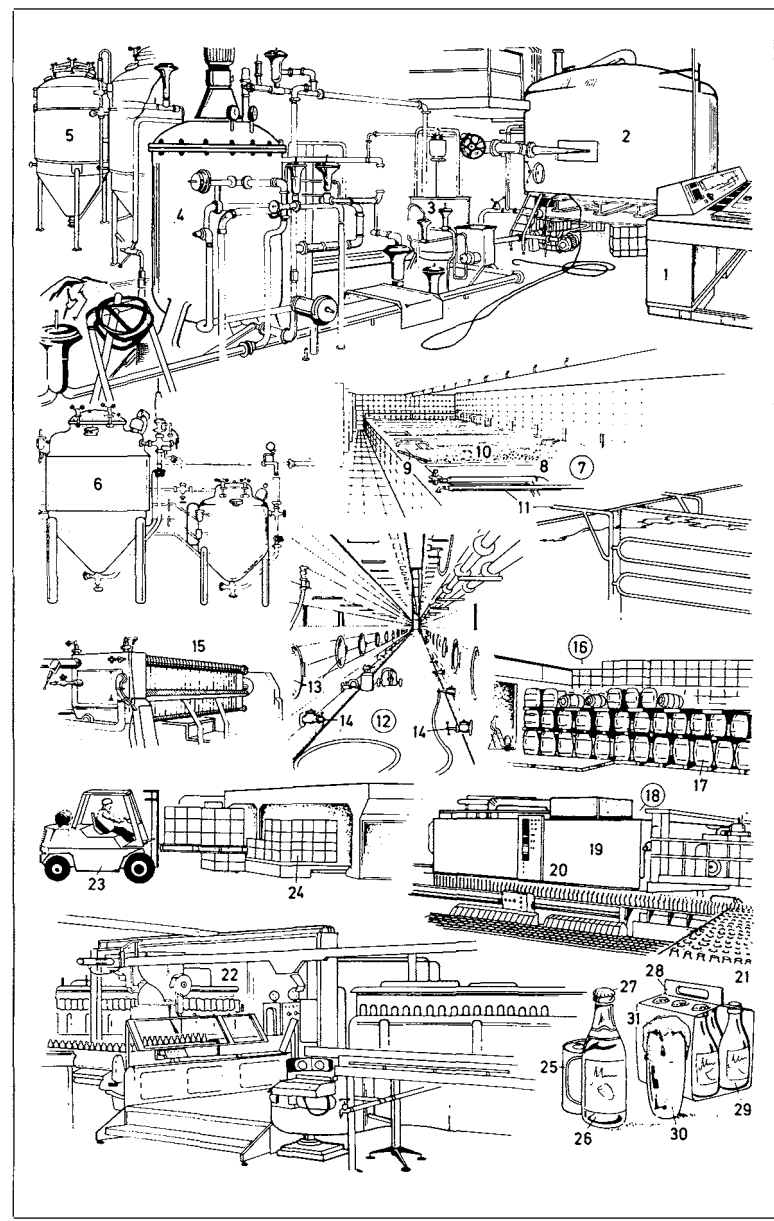
- 35 overshot mill wheel (high-breast mill wheel), a mill wheel (water-wheel)
- 36 bucket (cavity)
- 37 middleshot mill wheel (breast mill wheel)
- 38 curved vane
- 39 undershot mill wheel
- 40 flat vane
- 41 headrace (discharge flume)
- 42 mill weir
- 43 overfall (water overfall)
- 44 millstream (millrace, *Am.* raceway)

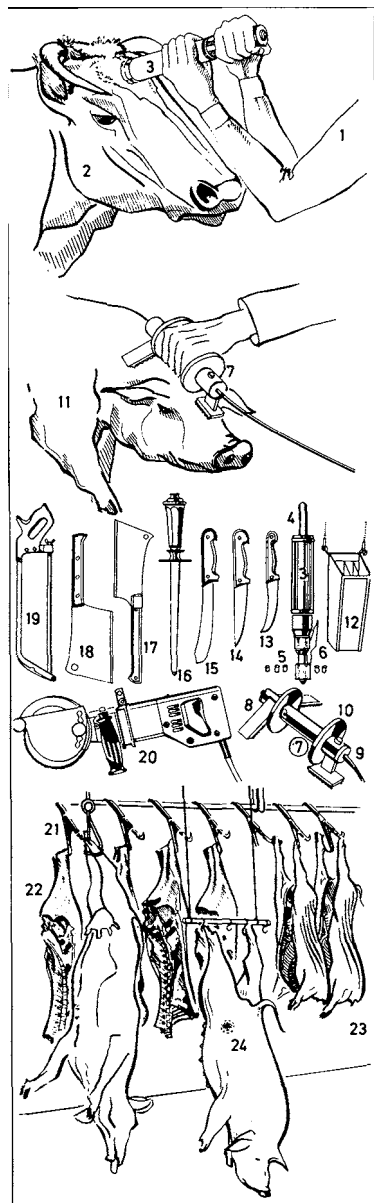
- 1-41 preparation of malt (malting)**  
1 malting tower (maltings)  
2 barley hopper  
3 washing floor with compressed-air washing unit  
4 outflow condenser  
5 water-collecting tank  
6 condenser for the steep liquor  
7 coolant collecting plant  
8 steeping floor (steeping tank, dressing floor)  
9 cold water tank  
10 hot water tank  
11 pump room  
12 pneumatic plant  
13 hydraulic plant  
14 ventilation shaft (air inlet and outlet)  
15 exhaust fan  
**16-18 kilning floors**  
16 drying floor  
17 burner ventilator  
18 curing floor  
19 outlet duct from the kiln  
20 finished malt collecting hopper  
21 transformer station  
22 cooling compressors  
23 green malt (germinated barley)  
24 turner (plough)  
25 central control room with flow diagram  
26 screw conveyor  
27 washing floor  
28 steeping floor  
29 drying kiln  
30 curing kiln  
31 barley silo  
32 weighing apparatus  
33 barley elevator  
34 three-way chute (three-way tippler)  
35 malt elevator  
36 cleaning machine  
37 malt silo  
38 corn removal by suction  
39 sacker  
40 dust extractor

- 41 barley reception  
**42-53 mashing process in the mash-house**  
42 premasher (converter) for mixing grist and water  
43 mash tub (mash tun) for mashing the malt  
44 mash copper (mash tun, *Am.* mash kettle) for boiling the mash  
45 dome of the tun  
46 propeller (paddle)  
47 sliding door  
48 water (liquor) supply pipe  
49 brewer (master brewer, masher)  
50 lauter tun for settling the draff (grains) and filtering off the wort for quality  
51 lauter battery for testing the wort  
52 hop boiler (wort boiler) for boiling the wort  
53 ladle-type thermometer (scoop thermometer)

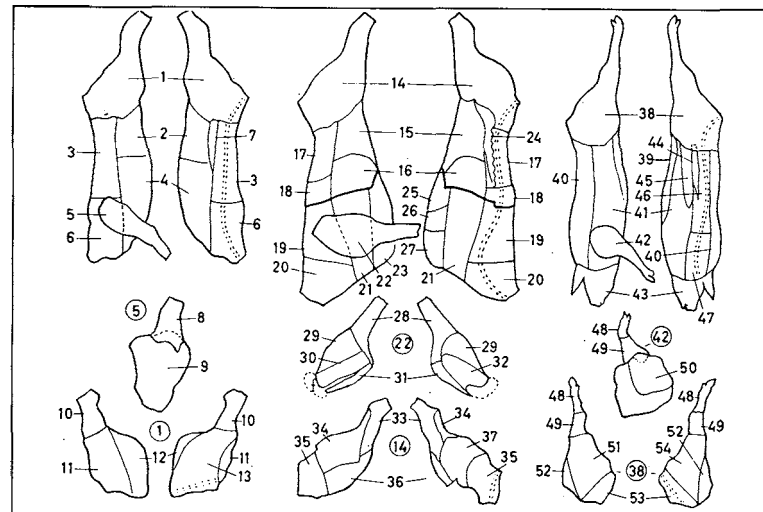


- 1-31 brewery (brewhouse)
- 1-5 wort cooling and break removal (trub removal)
- 1 control desk (control panel)
- 2 whirlpool separator for removing the hot break (hot trub)
- 3 measuring vessel for the kieselguhr
- 4 kieselguhr filter
- 5 wort cooler
- 6 pure culture plant for yeast (yeast propagation plant)
- 7 fermenting cellar
- 8 fermentation vessel (fermenter)
- 9 fermentation thermometer (mash thermometer)
- 10 mash
- 11 refrigeration system
- 12 lager cellar
- 13 manhole to the storage tank
- 14 broaching tap
- 15 beer filter
- 16 barrel store
- 17 beer barrel, an aluminium (Am. aluminum) barrel
- 18 bottle-washing plant
- 19 bottle-washing machine (bottle washer)
- 20 control panel
- 21 cleaned bottles
- 22 bottling
- 23 forklift truck (fork truck, forklift)
- 24 stack of beer crates
- 25 beer can
- 26 beer bottle, a Eurobottle with bottled beer; kinds of beer: light beer (lager, light ale, pale ale or bitter), dark beer (brown ale, mild), Pilsener beer, Munich beer, malt beer, strong beer (bock beer), porter, ale, stout, Salvator beer, wheat beer, small beer
- 27 crown cork (crown cork closure)
- 28 disposable pack (carry-home pack)
- 29 non-returnable bottle (single-trip bottle)
- 30 beer glass
- 31 head





- 1 slaughterman (*Am.* slaughterer, killer)
- 2 animal for slaughter, an ox
- 3 captive-bolt pistol (pneumatic gun), a stunning device
- 4 bolt
- 5 cartridges
- 6 release lever (trigger)
- 7 electric stunner
- 8 electrode
- 9 lead
- 10 hand guard (insulation)
- 11 pig (*Am.* hog) for slaughter
- 12 knife case
- 13 flaying knife
- 14 sticking knife (sticker)
- 15 butcher's knife (butcher knife)
- 16 steel
- 17 splitter
- 18 cleaver (butcher's cleaver, meat axe (*Am.* meat ax))
- 19 bone saw (butcher's saw)
- 20 meat saw for sawing meat into cuts
- 21-24 cold store (cold room)
- 21 gambrel (gambrel stick)
- 22 quarter of beef
- 23 side of pork
- 24 meat inspector's stamp



left: meat side;  
right: bone side

**1-13 animal: calf; meat: veal**

- 1 leg with hind knuckle
- 2 flank
- 3 loin and rib
- 4 breast (breast of veal)
- 5 shoulder with fore knuckle
- 6 neck with scrag (scrag end)
- 7 best end of loin (of loin of veal)
- 8 fore knuckle
- 9 shoulder
- 10 hind knuckle
- 11 roasting round (oyster round)
- 12 cutlet for frying or braising
- 13 undercut (fillet)

**14-37 animal: ox; meat: beef**

- 14 round with rump and shank
- 15-16 flank
- 15 thick flank
- 16 thin flank
- 17 sirloin
- 18 prime rib (fore ribs, prime fore rib)
- 19 middle rib and chuck
- 20 neck
- 21 flat rib
- 22 leg of mutton piece (bladebone) with shin
- 23 brisket (brisket of beef)
- 24 fillet (fillet of beef)
- 25 hind brisket

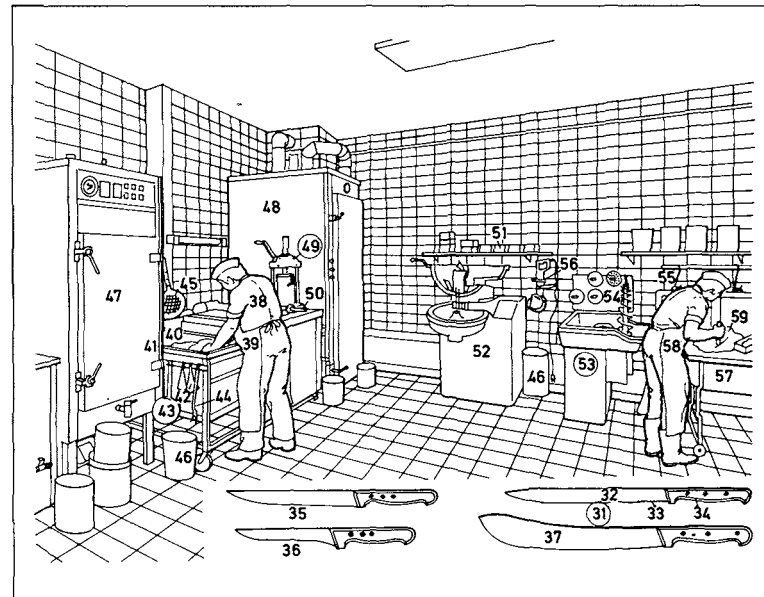
- 26 middle brisket
- 27 breastbone
- 28 shin
- 29 leg of mutton piece
- 30 bladebone [meat side]
- 31 part of top rib
- 32 bladebone [bone side]
- 33 shank
- 34 silverside
- 35 rump
- 36 thick flank
- 37 top side
- 38-54 animal: pig; meat: pork**
- 38 leg with knuckle and trotter
- 39 ventral part of the belly
- 40 back fat
- 41 belly
- 42 bladebone with knuckle and trotter
- 43 head (pig's head)
- 44 fillet (fillet of pork)
- 45 leaf fat (pork flare)
- 46 loin (pork loin)
- 47 spare rib
- 48 trotter
- 49 knuckle
- 50 butt
- 51 fore end (ham)
- 52 round end for boiling
- 53 fat end
- 54 gammon steak

**1-30 butcher's shop****1-4 meat**

- 1 ham on the bone
- 2 flitch of bacon
- 3 smoked meat
- 4 piece of loin (piece of sirloin)
- 5 lard
- 6-11 sausages
- 6 price label
- 7 mortadella
- 8 scalded sausage; *kinds*: Vienna sausage (Wiener), Frankfurter sausage (Frankfurter)
- 9 collared pork (*Am.* headcheese)
- 10 ring of [Lyoner] sausage
- 11 pork sausages; *also*: beef sausages
- 12 cold shelves
- 13 meat salad (diced meat salad)
- 14 cold meats (*Am.* cold cuts)
- 15 pâté
- 16 mince (mincemeat, minced meat)
- 17 knuckle of pork
- 18 basket for special offers

**19 price list for special offers**

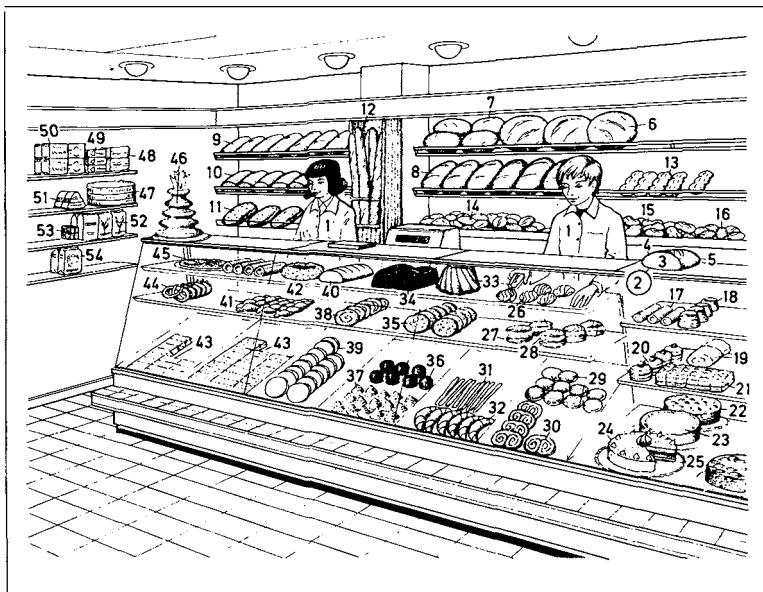
- 20 special offer
- 21 freezer
- 22 pre-packed joints
- 23 deep-frozen ready-to-eat meal
- 24 chicken
- 25 canned food
- 26 can
- 27 canned vegetables
- 28 canned fish
- 29 salad cream
- 30 soft drinks

**31-59 manufacture of sausages****31-37 butcher's knives**

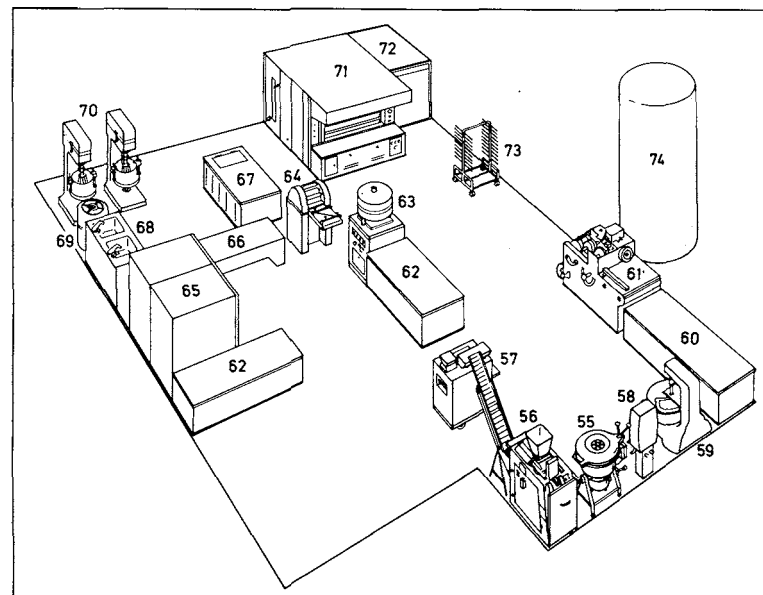
- 31 slicer
- 32 knife blade
- 33 saw teeth
- 34 knife handle
- 35 carver (carving knife)
- 36 boning knife
- 37 butcher's knife (butcher knife)
- 38 butcher (master butcher)
- 39 butcher's apron
- 40 meat-mixing trough
- 41 sausage meat
- 42 scraper
- 43 skimmer
- 44 sausage fork
- 45 scalding colander
- 46 waste bin (*Am.* trash bin)
- 47 cooker, for cooking with steam or hot air
- 48 smoke house
- 49 sausage filler (sausage stuffer)
- 50 feed pipe (supply pipe)

**51 containers for vegetables**

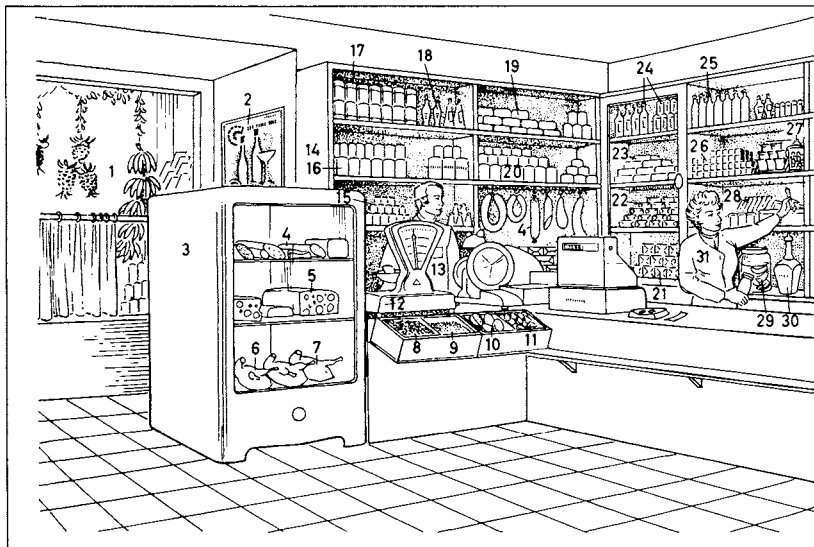
- 52 mincing machine for sausage meat
- 53 mincing machine (meat mincer, mincer, *Am.* meat grinder)
- 54 plates (steel plates)
- 55 meathook (butcher's hook)
- 56 bone saw
- 57 chopping board
- 58 butcher, cutting meat
- 59 piece of meat

**1-54 baker's shop**

- 1 shop assistant (*Am.* salesgirl, saleslady)
- 2 bread (loaf of bread, loaf)
- 3 crumb
- 4 crust (bread crust)
- 5 crust (*Am.* heel)
- 6-12 kinds of bread** (breads)
- 6 round loaf, a wheat and rye bread
- 7 small round loaf
- 8 long loaf (bloomer), a wheat and rye bread
- 9 white loaf
- 10 pan loaf, a wholemeal rye bread
- 11 yeast bread (*Am.* stollen)
- 12 French loaf (baguette, French stick)
- 13-16 rolls**
- 13 brown roll
- 14 white roll
- 15 finger roll
- 16 rye-bread roll
- 17-47 cakes** (confectionery)
- 17 cream roll
- 18 vol-au-vent, a puff pastry (*Am.* puff paste)
- 19 Swiss roll (*Am.* jelly roll)
- 20 tartlet
- 21 cream slice
- 22-24 flans** (*Am.* pies) **and gateaux** (torten)
- 22 fruit flan (*kinds:* strawberry flan, cherry flan, gooseberry flan, peach flan, rhubarb flan)
- 23 cheesecake
- 24 cream cake (*Am.* cream pie) (*kinds:* butter-cream cake, Black Forest gateau)
- 25 cake plate
- 26 meringue
- 27 cream puff
- 28 whipped cream
- 29 doughnut (*Am.* bismarck)
- 30 Danish pastry
- 31 saltstick (Salzstange) (*also:* caraway roll, caraway stick)
- 32 croissant (crescent roll, *Am.* crescent)



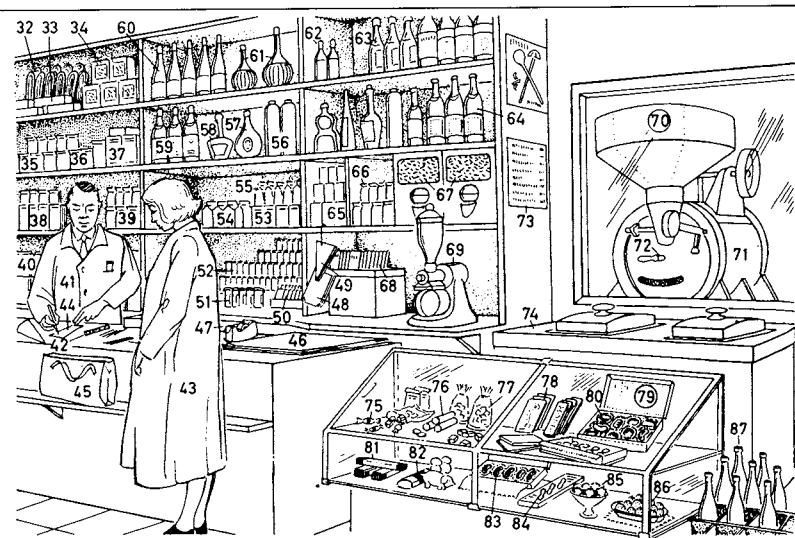
- 33 ring cake (gugelhupf)
- 34 slab cake with chocolate icing
- 35 streusel cakes
- 36 marshmallow
- 37 coconut macaroon
- 38 pastry whirl
- 39 iced bun
- 40 sweet bread
- 41 plaited bun (plait)
- 42 Frankfurter garland cake
- 43 slices (*kinds:* streusel slices, sugared slices, plum slices)
- 44 pretzel
- 45 wafer (*Am.* waffle)
- 46 tree cake (baumkuchen)
- 47 flan case
- 48-50 wrapped bread**
- 48 wholemeal bread (*also:* wheatgerm bread)
- 49 pumpernickel (wholemeal rye bread)
- 50 crispbread
- 51 gingerbread (*Am.* lebkuchen)
- 52 flour (*kinds:* wheat flour, rye flour)
- 53 yeast (baker's yeast)
- 54 rusks (French toast)
- 55-74 bakery** (bakehouse)
- 55 kneading machine (dough mixer)
- 56-57 bread unit**
- 56 divider
- 57 moulder (*Am.* molder)
- 58 premixer
- 59 dough mixer
- 60 workbench
- 61 roll unit
- 62 workbench
- 63 divider and rounder (rounding machine)
- 64 crescent-forming machine
- 65 freezers
- 66 oven [for baking with fat]
- 67-70 confectionery unit**
- 67 cooling table
- 68 sink
- 69 boiler
- 70 whipping unit [with beater]
- 71 reel oven (oven)
- 72 fermentation room
- 73 fermentation trolley
- 74 flour silo



**1-87 grocer's shop** (grocer's, delicatessen shop, *Am.* grocery store, delicatessen store), a retail shop (*Am.* retail store)

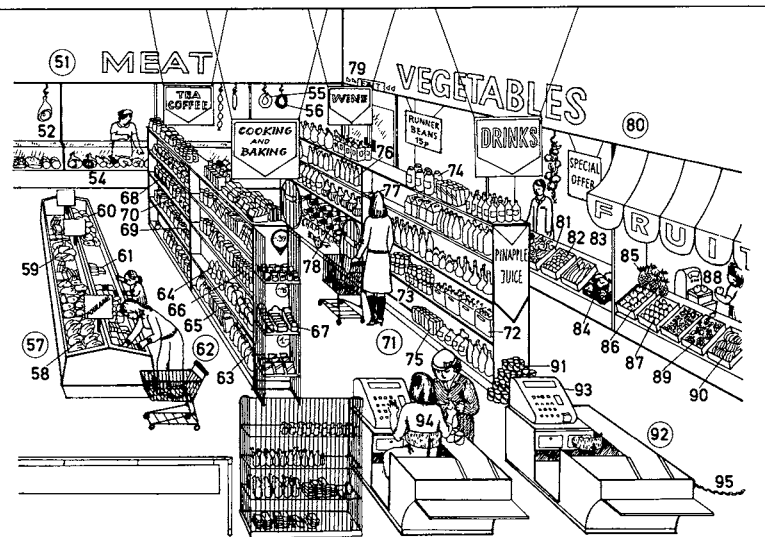
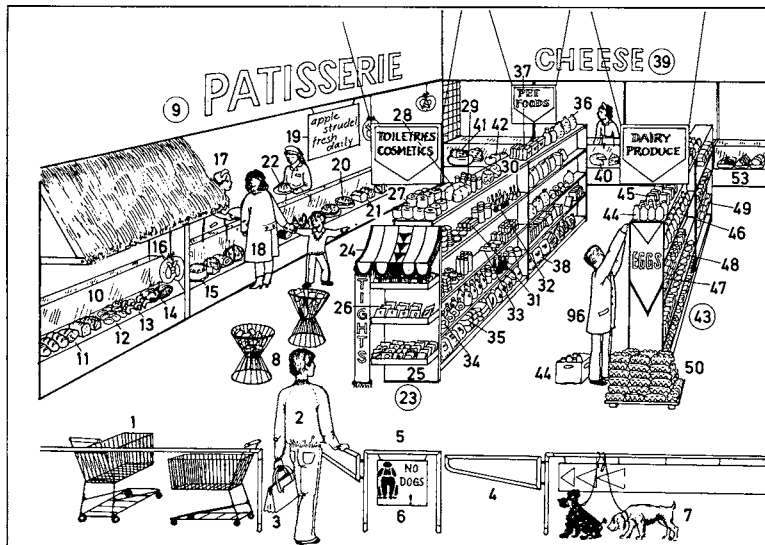
- 1 window display
- 2 poster (advertisement)
- 3 cold shelves
- 4 sausages
- 5 cheese
- 6 roasting chicken (broiler)
- 7 poulard, a fattened hen
- 8-11 baking ingredients**
- 8 raisins; *sim.*: sultanas
- 9 currants
- 10 candied lemon peel
- 11 candied orange peel
- 12 computing scale, a rapid scale
- 13 shop assistant (*Am.* salesclerk)
- 14 goods shelves (shelves)
- 15-20 canned food**
- 15 canned milk
- 16 canned fruit (cans of fruit)
- 17 canned vegetables
- 18 fruit juice
- 19 sardines in oil, a can of fish
- 20 canned meat (cans of meat)
- 21 margarine

- 22 butter
- 23 coconut oil, a vegetable oil
- 24 oil; *kinds*: salad oil, olive oil, sunflower oil, wheatgerm oil, groundnut oil
- 25 vinegar
- 26 stock cube
- 27 bouillon cube
- 28 mustard
- 29 pickled gherkin
- 30 soup seasoning
- 31 shop assistant (*Am.* salesgirl, saleslady)
- 32-34 pastas**
- 32 spaghetti
- 33 macaroni
- 34 noodles
- 35-39 cereal products**
- 35 pearl barley
- 36 semolina
- 37 rolled oats (porridge oats, oats)
- 38 rice
- 39 sago
- 40 salt
- 41 grocer (*Am.* groceryman), a shopkeeper (tradesman, retailer, *Am.* storekeeper)



- 42 capers
- 43 customer
- 44 receipt (sales check)
- 45 shopping bag
- 46-49 wrapping material**
- 46 wrapping paper
- 47 adhesive tape
- 48 paper bag
- 49 cone-shaped paper bag
- 50 blancmange powder
- 51 whole-fruit jam (preserve)
- 52 jam
- 53-55 sugar**
- 53 cube sugar
- 54 icing sugar (*Am.* confectioner's sugar)
- 55 refined sugar in crystals
- 56-59 spirits**
- 56 whisky (whiskey)
- 57 rum
- 58 liqueur
- 59 brandy (cognac)
- 60-64 wine in bottles (bottled wine)**
- 60 white wine
- 61 Chianti
- 62 vermouth
- 63 sparkling wine

- 64 red wine
- 65-68 tea, coffee, etc.**
- 65 coffee (pure coffee)
- 66 cocoa
- 67 coffee
- 68 tea bag
- 69 electric coffee grinder
- 70 coffee roaster
- 71 roasting drum
- 72 sample scoop
- 73 price list
- 74 freezer
- 75-86 confectionery** (*Am.* candies)
- 75 sweet (*Am.* candy)
- 76 drops
- 77 toffees
- 78 bar of chocolate
- 79 chocolate box
- 80 chocolate, a sweet
- 81 nougat
- 82 marzipan
- 83 chocolate liqueur
- 84 Turkish delight
- 85 croquant
- 86 truffle
- 87 soda water



**1-96 supermarket**, a self-service food store

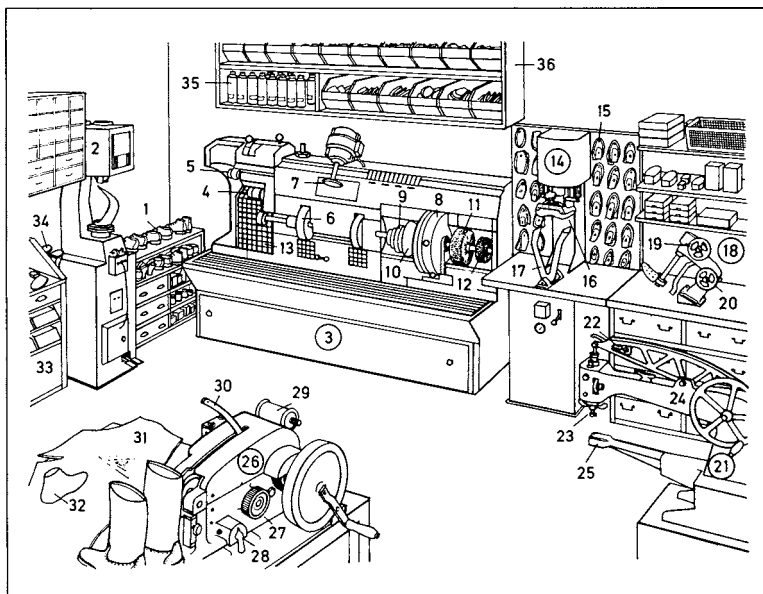
- 1 shopping trolley
- 2 customer
- 3 shopping bag
- 4 entrance to the sales area
- 5 barrier
- 6 sign (notice) banning dogs
- 7 dogs tied by their leads
- 8 basket
- 9 **bread and cake counter** (bread counter, cake counter)
- 10 display counter for bread and cakes
- 11 kinds of bread (breads)
- 12 rolls
- 13 croissants (crescent rolls, *Am.* crescents)
- 14 round loaf
- 15 gateau
- 16 pretzel [made with yeast dough]
- 17 shop assistant (*Am.* salesgirl, saleslady)
- 18 customer
- 19 sign listing goods
- 20 fruit flan
- 21 slab cake
- 22 ring cake
- 23 **cosmetics gondola**, a gondola (sales shelves)

- 24 canopy
- 25 hosiery shelf
- 26 stockings (nylons)
- 27-35 **toiletries** (cosmetics)
- 27 jar of cream (cream; *kinds:* moisturising cream, day cream, night-care cream, hand cream)
- 28 packet of cotton wool
- 29 talcum powder
- 30 packet of cotton wool balls
- 31 toothpaste
- 32 nail varnish (nail polish)
- 33 shaving cream
- 34 bath salts
- 35 sanitary articles
- 36, 37 pet foods
- 36 complete dog food
- 37 packet of dog biscuits
- 38 bag of cat litter
- 39 **cheese counter**
- 40 whole cheese
- 41 Swiss cheese (Emmental cheese) with holes
- 42 Edam cheese, a round cheese
- 43 gondola for dairy products
- 44 long-life milk; *also:* pasteurized milk, homogenized milk)
- 45 plastic milk bag

- 46 cream
- 47 butter
- 48 margarine
- 49 box of cheeses
- 50 box of eggs
- 51 **fresh meat counter** (meat counter)
- 52 ham on the bone
- 53 meat (meat products)
- 54 sausages
- 55 ring of pork sausage
- 56 ring of blood sausage
- 57 freezer
- 58-61 **frozen food**
- 58 poulard
- 59 turkey leg (drumstick)
- 60 boiling fowl
- 61 frozen vegetables
- 62 **gondola for baking ingredients and cereal products**
- 63 wheat flour
- 64 sugar loaf
- 65 packet of noodles
- 66 salad oil
- 67 packet of spice
- 68-73 **tea, coffee, etc.**
- 68 coffee
- 69 packet of tea
- 70 instant coffee

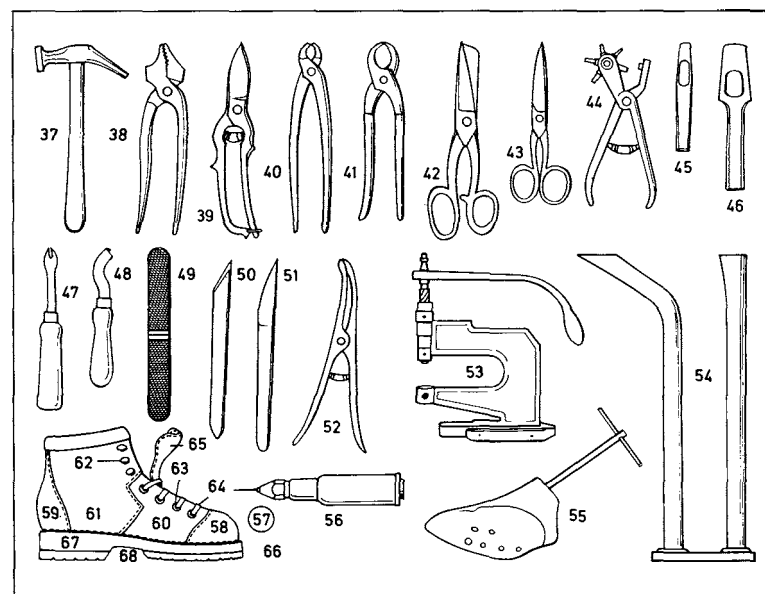
- 71 **drinks gondola**
- 72 soft drinks
- 73 can of beer
- 74 bottle of fruit juice
- 75 can of fruit juice
- 76 bottle of wine
- 77 bottle of Chianti
- 78 bottle of champagne
- 79 emergency exit
- 80 **fruit and vegetable counter**
- 81 vegetable basket
- 82 tomatoes
- 83 cucumbers
- 84 cauliflower
- 85 pineapple
- 86 apples
- 87 pears
- 88 scales for weighing fruit
- 89 grapes (bunches of grapes)
- 90 bananas
- 91 can
- 92 **checkout**
- 93 cash register
- 94 cashier
- 95 chain
- 96 assistant departmental manager



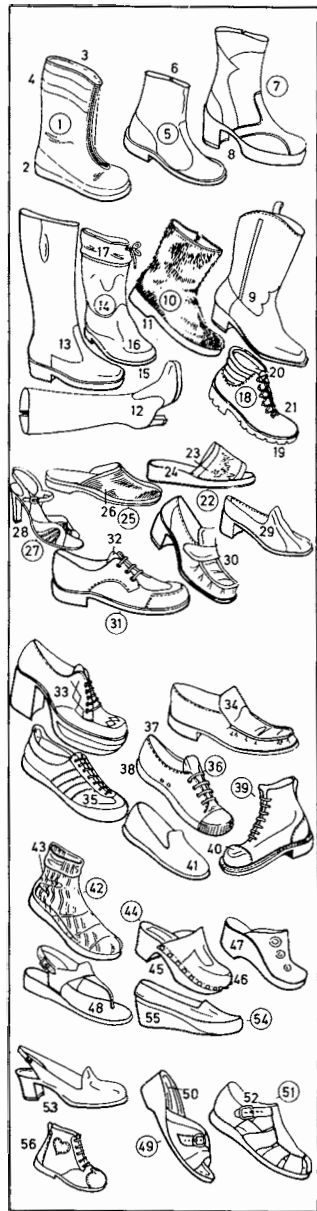


**1-68** shoemaker's workshop (bootmaker's workshop)

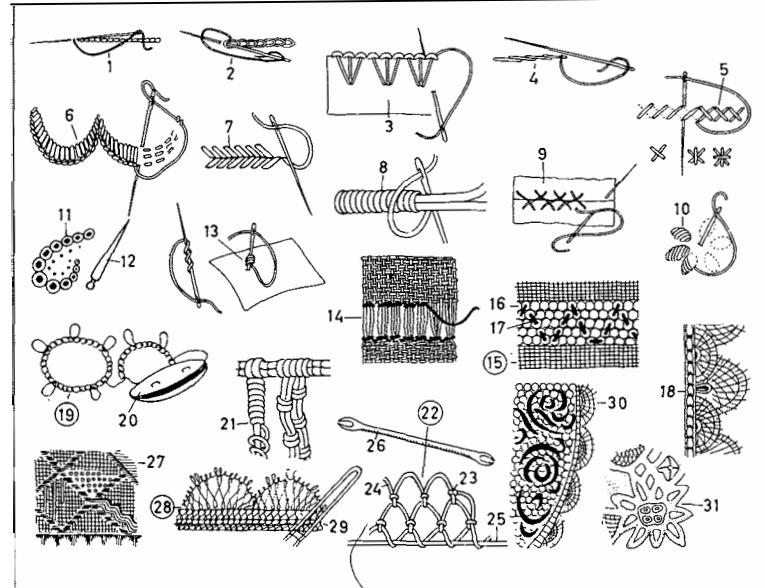
- |                                    |  |
|------------------------------------|--|
| <b>1</b> finished (repaired) shoes | <b>22</b> power regulator (power control)        |
| <b>2</b> auto-soling machine       | <b>23</b> foot                                   |
| <b>3</b> finishing machine         | <b>24</b> handwheel                              |
| <b>4</b> heel trimmer              | <b>25</b> arm                                    |
| <b>5</b> sole trimmer              | <b>26</b> sole stitcher (sole-stitching machine) |
| <b>6</b> scouring wheel            | <b>27</b> foot bar lever                         |
| <b>7</b> naum keag                 | <b>28</b> feed adjustment (feed setting)         |
| <b>8</b> drive unit (drive wheel)  | <b>29</b> bobbin (cotton bobbin)                 |
| <b>9</b> iron                      | <b>30</b> thread guide (yarn guide)              |
| <b>10</b> buffing wheel            | <b>31</b> sole leather                           |
| <b>11</b> polishing brush          | <b>32</b> [wooden] last                          |
| <b>12</b> horsehair brush          | <b>33</b> workbench                              |
| <b>13</b> extractor grid           | <b>34</b> last                                   |
| <b>14</b> automatic sole press     | <b>35</b> dye spray                              |
| <b>15</b> press attachment         | <b>36</b> shelves for materials                  |
| <b>16</b> pad                      |  |
| <b>17</b> press bar                |  |
| <b>18</b> stretching machine       |  |
| <b>19</b> width adjustment         |  |
| <b>20</b> length adjustment        |  |
| <b>21</b> stitching machine        |  |



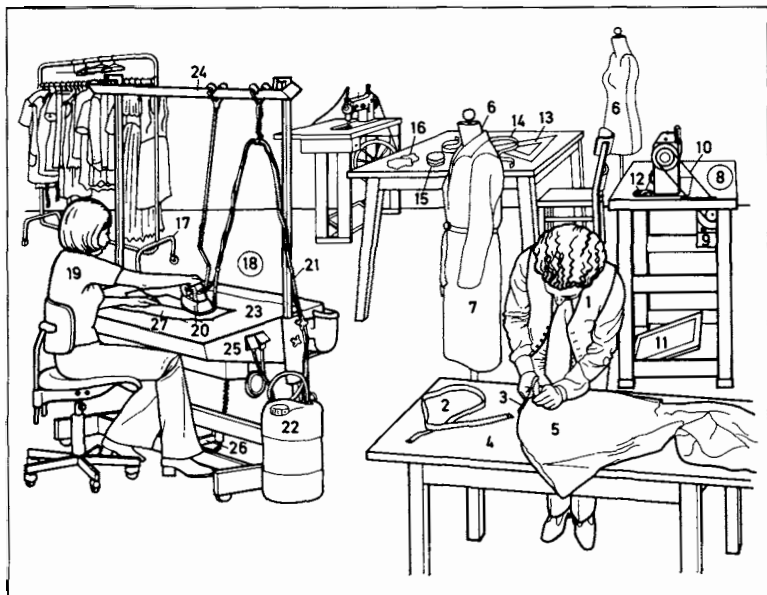
- |   |                                     |
|---|-------------------------------------|
| <b>37</b> shoemaker's hammer                        | <b>58</b> toecap                    |
| <b>38</b> shoemaker's pliers (welt pincers)         | <b>59</b> counter                   |
| <b>39</b> sole-leather shears                       | <b>60</b> vamp                      |
| <b>40</b> small pincers (nippers)                   | <b>61</b> quarter                   |
| <b>41</b> large pincers (nippers)                   | <b>62</b> hook                      |
| <b>42</b> upper-leather shears                      | <b>63</b> eyelet                    |
| <b>43</b> scissors                                  | <b>64</b> lace (shoelace, bootlace) |
| <b>44</b> revolving punch (rotary punch)            | <b>65</b> tongue                    |
| <b>45</b> punch                                     | <b>66</b> sole                      |
| <b>46</b> punch with handle                         | <b>67</b> heel                      |
| <b>47</b> nail puller                               | <b>68</b> shank (waist)             |
| <b>48</b> welt cutter                               |                                     |
| <b>49</b> shoemaker's rasp                          |                                     |
| <b>50</b> cobbler's knife (shoemaker's knife)       |                                     |
| <b>51</b> skiving knife (skife knife, paring knife) |                                     |
| <b>52</b> toecap remover                            |                                     |
| <b>53</b> eyelet, hook, and press-stud setter       |                                     |
| <b>54</b> stand (with iron lasts)                   |                                     |
| <b>55</b> width-setting tree                        |                                     |
| <b>56</b> nail grip                                 |                                     |
| <b>57</b> boot                                      |                                     |



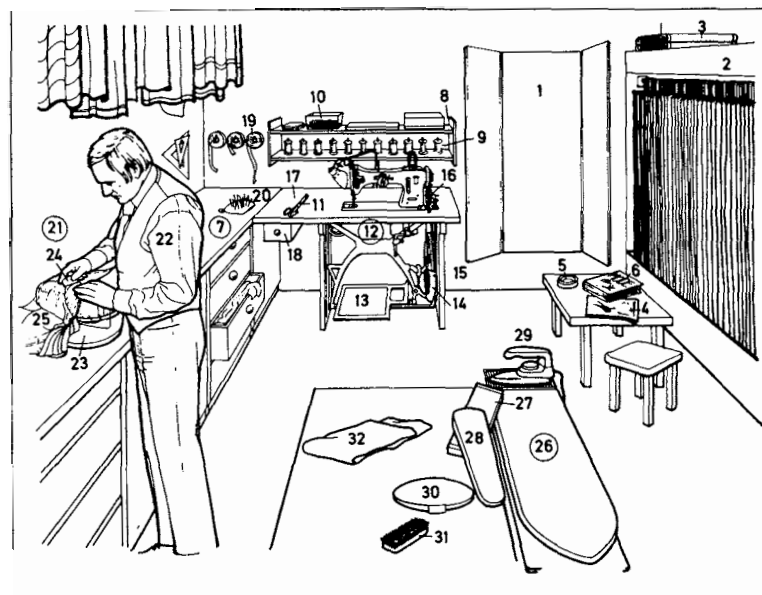
- 1 winter boot
- 2 PVC sole (plastic sole)
- 3 high-pile lining
- 4 nylon
- 5 men's boot
- 6 inside zip (*Am.* zipper)
- 7 men's high leg boot
- 8 platform sole (platform)
- 9 Western boot (cowboy boot)
- 10 pony-skin boot
- 11 cemented sole
- 12 ladies' boot
- 13 men's high leg boot
- 14 seamless PVC waterproof wellington boot
- 15 natural-colour (*Am.* natural-color) sole
- 16 toecap
- 17 tricot lining (knitwear lining)
- 18 hiking boot
- 19 grip sole
- 20 padded collar
- 21 tie fastening (lace fastening)
- 22 open-toe mule
- 23 terry upper
- 24 polo outsole
- 25 mule
- 26 corduroy upper
- 27 evening sandal (sandal court shoe)
- 28 high heel (stiletto heel)
- 29 court shoe (*Am.* pump)
- 30 moccasin
- 31 shoe, a tie shoe (laced shoe, Oxford shoe, *Am.* Oxford)
- 32 tongue
- 33 high-heeled shoe (shoe with raised heel)
- 34 casual
- 35 trainer (training shoe)
- 36 tennis shoe
- 37 counter (stiffening)
- 38 natural-colour (*Am.* natural-color) rubber sole
- 39 heavy-duty boot (*Am.* stogy, stogie)
- 40 toecap
- 41 slipper
- 42 woollen (*Am.* woolen) slip sock
- 43 knit stitch (knit)
- 44 clog
- 45 wooden sole
- 46 soft-leather upper
- 47 sabot
- 48 toe post sandal
- 49 ladies' sandal
- 50 surgical footbed (sock)
- 51 sandal
- 52 shoe buckle (buckle)
- 53 sling-back court shoe (*Am.* sling pump)
- 54 fabric court shoe
- 55 wedge heel
- 56 baby's first walking boot



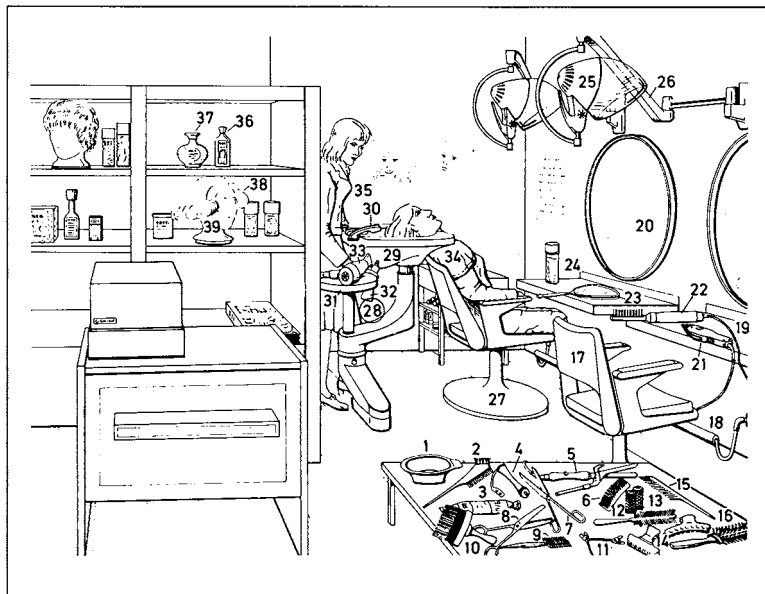
- |  |   |
|--|---|
| 1 backstitch seam  | 19 tatting  |
| 2 chain stitch   | 20 tatting shuttle (shuttle)  |
| 3 ornamental stitch  | 21 knotted work (macramé)   |
| 4 stem stitch  | 22 filet (netting)  |
| 5 cross stitch   | 23 netting loop   |
| 6 buttonhole stitch (button stitch)  | 24 netting thread   |
| 7 fishbone stitch  | 25 mesh pin (mesh gauge)  |
| 8 overcast stitch  | 26 netting needle   |
| 9 herringbone stitch (Russian stitch, Russian cross stitch)                        | 27 open work  |
| 10 satin stitch (flat stitch)  | 28 gimping (hairpin work)   |
| 11 eyelet embroidery (broderie anglaise)   | 29 gimping needle (hairpin)   |
| 12 stiletto  | 30 needlepoint lace (point lace, needlepoint); <i>kinds:</i> reticella lace, Venetian lace, Alençon lace; <i>sim.:</i> with metal thread: filigree work |
| 13 French knot (French dot, knotted stitch, twisted knot stitch)                   | 31 braid embroidery (braid work)  |
| 14 hem stitch work   |   |
| 15 tulle work (tulle lace)   |   |
| 16 tulle background (net background)   |   |
| 17 darning stitch  |   |
| 18 pillow lace (bobbin lace, bone lace); <i>kinds:</i> Valenciennes, Brussels lace |   |

**1-27 dressmaker's workroom**

- 1 dressmaker
- 2 tape measure (measuring tape), a metre (*Am.* meter) tape measure
- 3 cutting shears
- 4 cutting table
- 5 model dress
- 6 dressmaker's model (dressmaker's dummy, dress form)
- 7 model coat
- 8 sewing machine
- 9 drive motor
- 10 drive belt
- 11 treadle
- 12 sewing machine cotton (sewing machine thread) [on bobbin]
- 13 cutting template
- 14 seam binding
- 15 button box
- 16 remnant
- 17 movable clothes rack
- 18 hand-iron press
- 19 presser (ironer)
- 20 steam iron
- 21 water feed pipe
- 22 water container
- 23 adjustable-tilt ironing surface
- 24 lift device for the iron
- 25 steam extractor
- 26 foot switch controlling steam extraction
- 27 pressed non-woven woollen (*Am.* woolen) fabric

**1-32 tailor's workroom**

- 1 triple mirror
- 2 lengths of material
- 3 suiting
- 4 fashion journal (fashion magazine)
- 5 ashtray
- 6 fashion catalogue
- 7 workbench
- 8 wall shelves (wall shelf unit)
- 9 cotton reel
- 10 small reels of sewing silk
- 11 hand shears
- 12 combined electric and treadle sewing machine
- 13 treadle
- 14 dress guard
- 15 band wheel
- 16 bobbin thread
- 17 sewing machine table
- 18 sewing machine drawer
- 19 seam binding
- 20 pincushion
- 21 marking out
- 22 tailor
- 23 shaping pad
- 24 tailor's chalk (French chalk)
- 25 workpiece
- 26 steam press (steam pressing unit)
- 27 swivel arm
- 28 pressing cushion (pressing pad)
- 29 iron
- 30 hand-ironing pad
- 31 clothes brush
- 32 pressing cloth

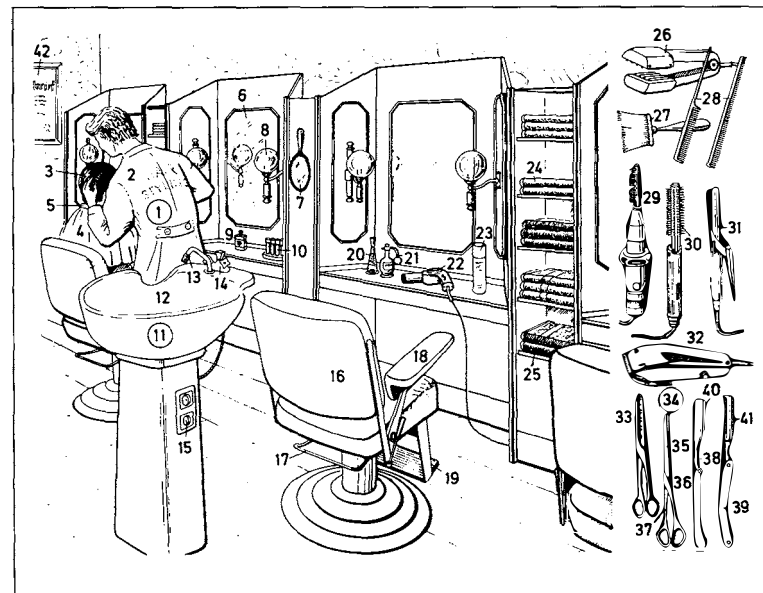


**1-39 ladies' hairdressing salon and beauty salon** (*Am.* beauty parlor, beauty shop)

**1-16 hairdresser's tools**

- 1 bowl containing bleach
- 2 detangling brush
- 3 bleach tube
- 4 curler [used in dyeing]
- 5 curling tongs (curling iron)
- 6 comb (back comb, side comb)
- 7 haircutting scissors
- 8 thinning scissors (*Am.* thinning shears)
- 9 thinning razor
- 10 hairbrush
- 11 hair clip
- 12 roller
- 13 curl brush
- 14 curl clip
- 15 dressing comb
- 16 stiff-bristle brush
- 17 adjustable hairdresser's chair
- 18 footrest

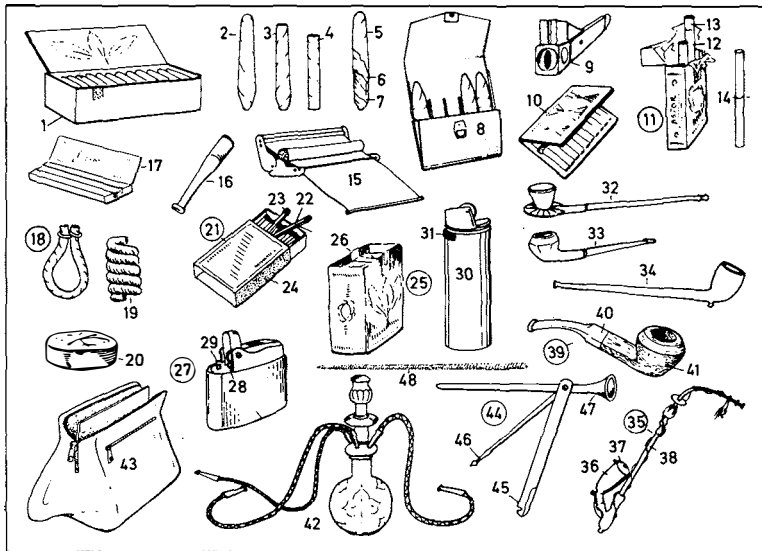
- 19 dressing table
- 20 salon mirror (mirror)
- 21 electric clippers
- 22 warm-air comb
- 23 hand mirror (hand glass)
- 24 hairspray (hair-fixing spray)
- 25 drier, a swivel-mounted drier
- 26 swivel arm of the drier
- 27 round base
- 28 shampoo unit
- 29 shampoo basin
- 30 hand spray (shampoo spray)
- 31 service tray
- 32 shampoo bottle
- 33 hair drier (hand hair drier, hand-held hair drier)
- 34 cape (gown)
- 35 hairdresser
- 36 perfume bottle
- 37 bottle of toilet water
- 38 wig
- 39 wig block



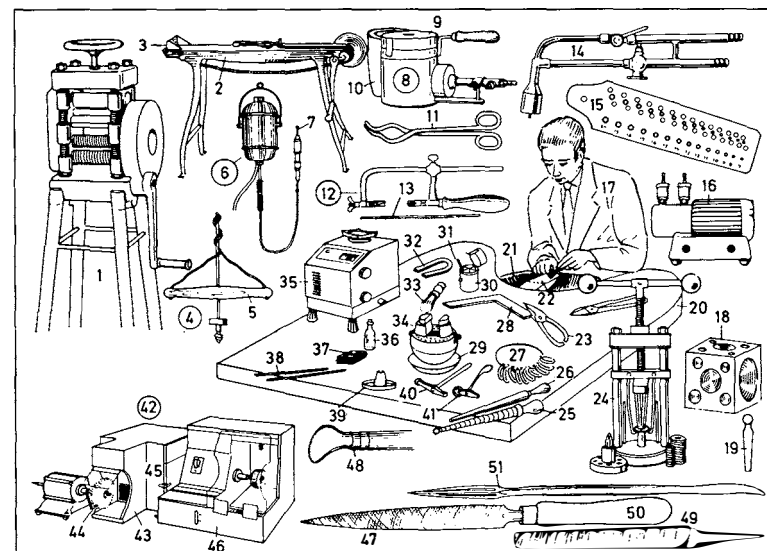
**1-42 men's salon** (men's hairdressing salon, barber's shop, *Am.* barber-shop)

- 1 hairdresser (barber)
- 2 overalls (hairdresser's overalls)
- 3 hairstyle (haircut)
- 4 cape (gown)
- 5 paper towel
- 6 salon mirror (mirror)
- 7 hand mirror (hand glass)
- 8 light
- 9 toilet water
- 10 hair tonic
- 11 shampoo unit
- 12 shampoo basin
- 13 hand spray (shampoo spray)
- 14 mixer tap (*Am.* mixing faucet)
- 15 sockets, e.g. for hair drier
- 16 adjustable hairdresser's chair (barber's chair)
- 17 height-adjuster bar (height adjuster)
- 18 armrest
- 19 footrest
- 20 shampoo
- 21 perfume spray

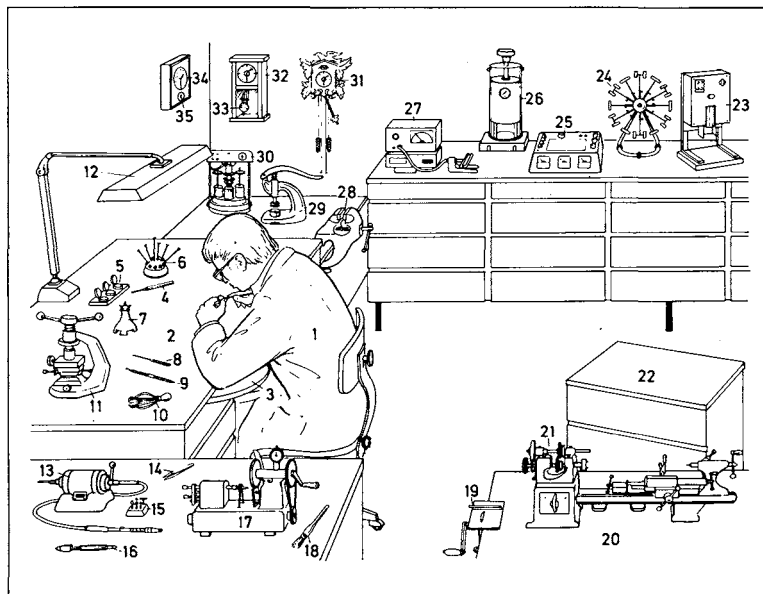
- 22 hair drier (hand hair drier, hand-held hair drier)
- 23 setting lotion in a spray can
- 24 hand towels for drying hair
- 25 towels for face compresses
- 26 crimping iron
- 27 neck brush
- 28 dressing comb
- 29 warm-air comb
- 30 warm-air brush
- 31 curling tongs (hair curler, curling iron)
- 32 electric clippers
- 33 thinning scissors (*Am.* thinning shears)
- 34 haircutting scissors; *sim.*: styling scissors
- 35 scissor-blade
- 36 pivot
- 37 handle
- 38 open razor (straight razor)
- 39 razor handle
- 40 edge (cutting edge, razor's edge, razor's cutting edge)
- 41 thinning razor
- 42 diploma



- 1 cigar box
- 2 cigar; *kinds*: Havana cigar (Havana), Brazilian cigar, Sumatra cigar
- 3 cigarillo
- 4 cheroot
- 5 wrapper
- 6 binder
- 7 filler
- 8 cigar case
- 9 cigar cutter
- 10 cigarette case
- 11 cigarette packet (*Am. pack*)
- 12 cigarette, a filter-tipped cigarette
- 13 cigarette tip; *kinds*: cork tip, gold tip
- 14 Russian cigarette
- 15 cigarette roller
- 16 cigarette holder
- 17 packet of cigarette papers
- 18 pigtail (twist of tobacco)
- 19 chewing tobacco; *a piece*: plug (quid, chew)
- 20 snuff box, containing snuff
- 21 matchbox
- 22 match
- 23 head (match head)
- 24 striking surface
- 25 packet of tobacco; *kinds*: fine cut, shag, navy plug
- 26 revenue stamp
- 27 petrol cigarette lighter (petrol lighter)
- 28 flint
- 29 wick
- 30 gas cigarette lighter (gas lighter), a disposable lighter
- 31 flame regulator
- 32 chibonk (chibonque)
- 33 short pipe
- 34 clay pipe (Dutch pipe)
- 35 long pipe
- 36 pipe bowl (bowl)
- 37 bowl lid
- 38 pipe stem (stem)
- 39 briar pipe
- 40 mouthpiece
- 41 sand-blast finished or polished briar grain
- 42 hookah (narghile, narghileh), a water pipe
- 43 tobacco pouch
- 44 smoker's companion
- 45 pipe scraper
- 46 pipe cleaner
- 47 tobacco presser
- 48 pipe cleaner



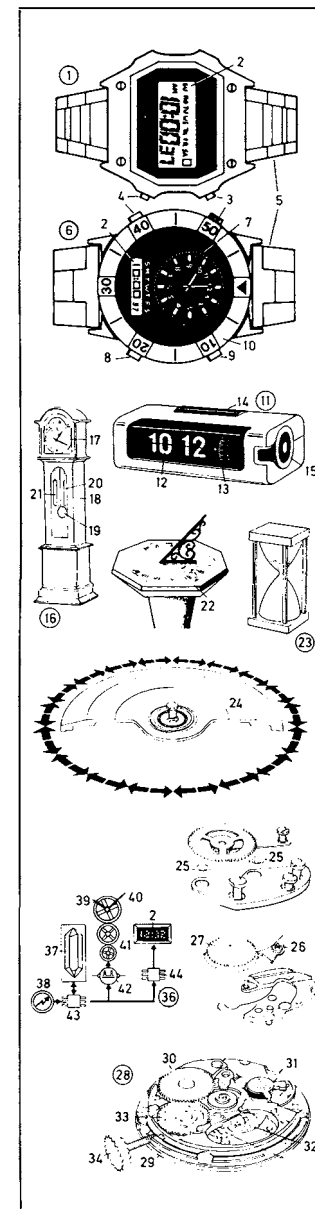
- 1 wire and sheet roller
- 2 drawbench (drawing bench)
- 3 wire (gold or silver wire)
- 4 archimedes drill (drill)
- 5 crossbar
- 6 suspended (pendant) electric drilling machine
- 7 spherical cutter (cherry)
- 8 melting pot
- 9 fireclay top
- 10 graphite crucible
- 11 crucible tongs
- 12 piercing saw (jig saw)
- 13 piercing saw blade
- 14 soldering gun
- 15 thread tapper
- 16 blast burner (blast lamp) for soldering
- 17 goldsmith
- 18 swage block
- 19 punch
- 20 workbench (bench)
- 21 bench apron
- 22 needle file
- 23 metal shears
- 24 wedding ring sizing machine
- 25 ring gauge (*Am. gage*)
- 26 ring-rounding tool
- 27 ring gauge (*Am. gage*)
- 28 steel set-square
- 29 (circular) leather pad
- 30 box of punches
- 31 punch
- 32 magnet
- 33 bench brush
- 34 engraving ball (joint vice, clamp)
- 35 gold and silver balance (assay balance), a precision balance
- 36 soldering flux (flux)
- 37 charcoal block
- 38 stick of solder
- 39 soldering borax
- 40 shaping hammer
- 41 chasing (enchasing) hammer
- 42 polishing and burnishing machine
- 43 dust exhaustor (vacuum cleaner)
- 44 polishing wheel
- 45 dust collector (dust catcher)
- 46 buffing machine
- 47 round file
- 48 bloodstone (haematite, hematite)
- 49 flat file
- 50 file handle
- 51 polishing iron (burnisher)

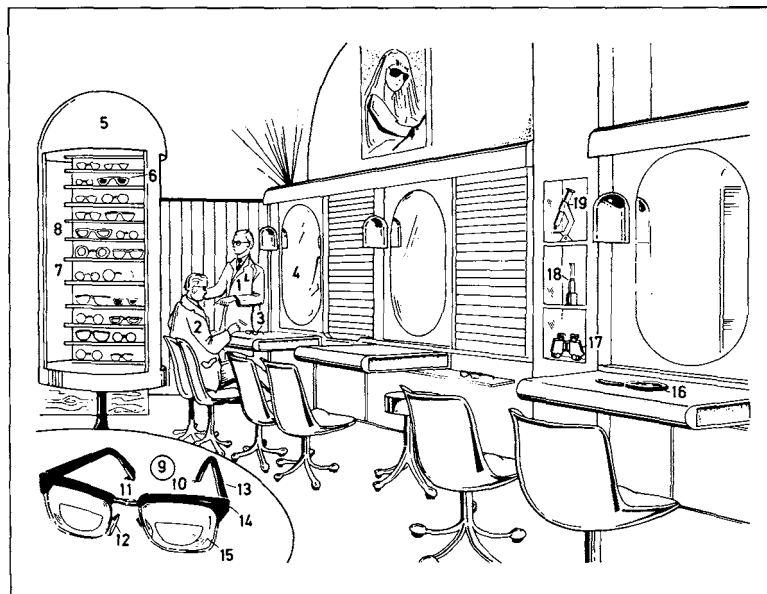


- 1 watchmaker; *also*: clockmaker
- 2 workbench
- 3 armrest
- 4 oiler
- 5 oil stand
- 6 set of screwdrivers
- 7 clockmaker's anvil
- 8 broach, a reamer
- 9 spring pin tool
- 10 hand-removing tool
- 11 watchglass-fitting tool
- 12 workbench lamp, a multi-purpose lamp
- 13 multi-purpose motor
- 14 tweezers
- 15 polishing machine attachments
- 16 pin vice (pin holder)
- 17 burnisher, for burnishing, polishing, and shortening of spindles
- 18 dust brush
- 19 cutter for metal watch straps
- 20 precision bench lathe (watchmaker's lathe)

- 21 drive-belt gear
- 22 workshop trolley for spare parts
- 23 ultrasonic cleaner
- 24 rotating watch-testing machine for automatic watches
- 25 watch-timing machine for electronic components
- 26 testing device for waterproof watches
- 27 electronic timing machine
- 28 vice (*Am.* vise)
- 29 watchglass-fitting tool for armoured (*Am.* armored) glasses
- 30 [automatic] cleaning machine for conventional cleaning
- 31 cuckoo clock (Black Forest clock)
- 32 wall clock (regulator)
- 33 compensation pendulum
- 34 kitchen clock
- 35 timer

- 1 electronic wristwatch
- 2 digital display (a light-emitting diode (LED) display; *also*: a liquid crystal display, LCD)
- 3 hour and minute button (on 6, also for setting the analogue (*Am.* analog) display)
- 4 date and second button
- 5 strap (watch strap)
- 6 multifunction electronic watch
- 7 analogue (*Am.* analog) display
- 8 alarm button
- 9 stopwatch button
- 10 rotating bezel (time-lapse indicator ring)
- 11 calendar clock (alarm clock)
- 12 digital display with flip-over numerals
- 13 alarm indicator
- 14 stop button
- 15 forward and backward wind knob
- 16 grandfather clock
- 17 face
- 18 clock case
- 19 pendulum
- 20 striking weight
- 21 time weight
- 22 sundial
- 23 hourglass (egg timer)
- 24-35 components of an automatic watch (automatic wristwatch, self-winding watch)
- 24 weight (rotor)
- 25 stone (jewel, jewelled bearing) a synthetic ruby
- 26 click
- 27 click wheel
- 28 clockwork (clockwork mechanism)
- 29 bottom train plate
- 30 spring barrel
- 31 balance wheel
- 32 escape wheel
- 33 crown wheel
- 34 winding crown
- 35 drive mechanism
- 36 principle of the electronic quartz watch
- 37 quartz
- 38 power source (a button cell)
- 39 hour hand
- 40 minute hand
- 41 wheels
- 42 stepping motor (stepper motor)
- 43 frequency divider (integrated circuit)
- 44 decoder

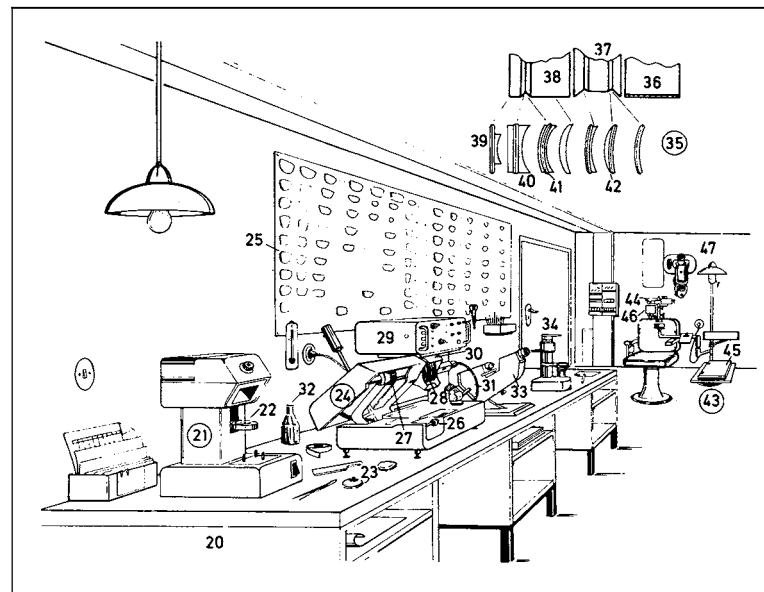


**1-19 sales premises****1-4 spectacle fitting**

- 1 optician
- 2 customer
- 3 trial frame
- 4 mirror
- 5 stand with spectacle frames (display of frames, range of spectacles)
- 6 sunglasses (sun spectacles)
- 7 metal frame
- 8 tortoiseshell frame (shell frame)
- 9 spectacles (glasses)

**10-14 spectacle frame**

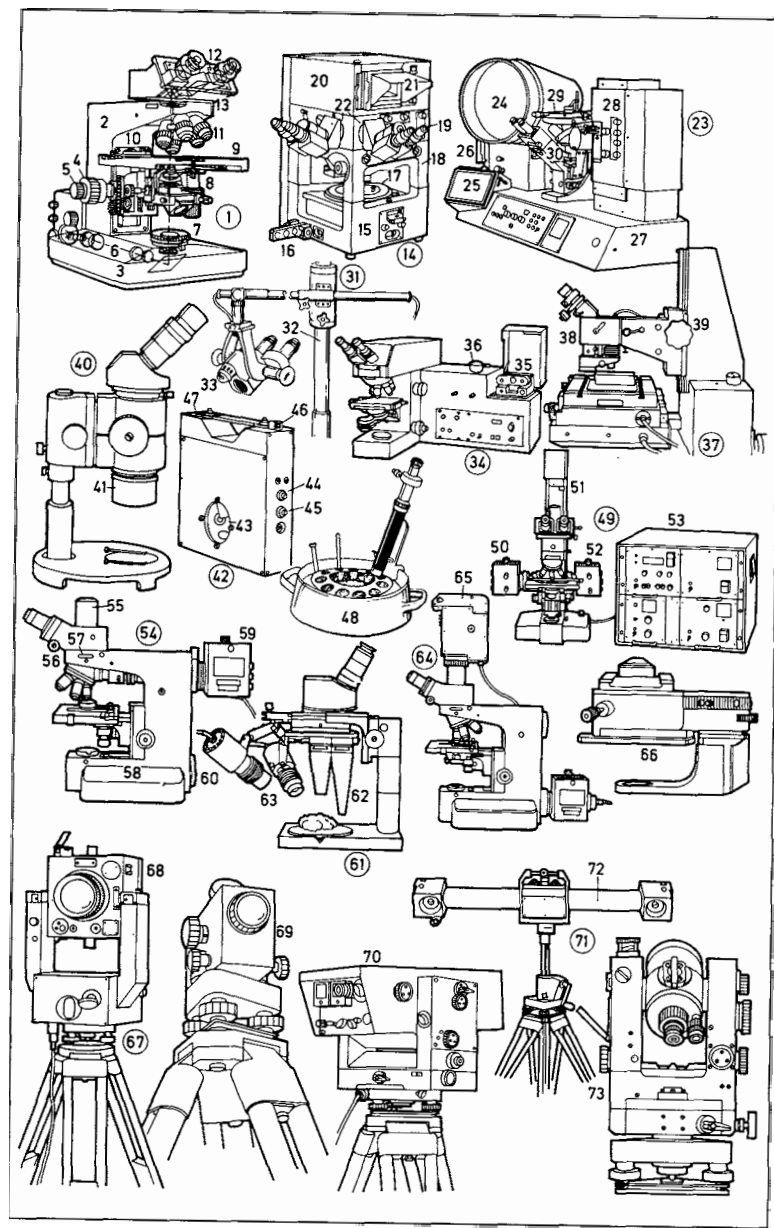
- 10 fitting (mount) of the frame
- 11 bridge
- 12 pad bridge
- 13 side
- 14 side joint
- 15 spectacle lens, a bifocal lens
- 16 hand mirror (hand glass)
- 17 binoculars
- 18 monocular telescope (tube)
- 19 microscope

**20-47 optician's workshop**

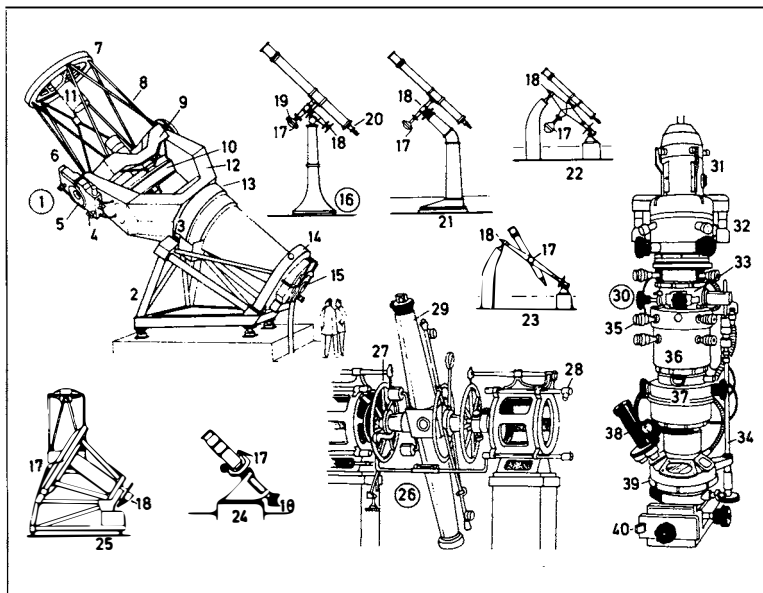
- 20 workbench
- 21 universal centring (centering) apparatus
- 22 centring (centering) suction holder
- 23 sucker
- 24 edging machine
- 25 formers for the lens edging machine
- 26 inserted former
- 27 rotating printer
- 28 abrasive wheel combination
- 29 control unit
- 30 machine part
- 31 cooling water pipe
- 32 cleaning fluid
- 33 focimeter (vertex refractometer)
- 34 metal-blocking device
- 35 abrasive wheel combination and forms of edging
- 36 roughing wheel for preliminary surfacing
- 37 fining lap for positive and negative lens surfaces
- 38 fining lap for special and flat lenses
- 39 plano-concave lens with a flat surface
- 40 plano-concave lens with a special surface
- 41 concave and convex lens with a special surface
- 42 convex and concave lens with a special surface
- 43 ophthalmic test stand
- 44 phoropter with ophthalmometer and optometer (refractometer)
- 45 trial lens case
- 46 collimator
- 47 acuity projector

- 1 laboratory and research microscope, *Leitz system*
- 2 stand
- 3 base
- 4 coarse adjustment
- 5 fine adjustment
- 6 illumination beam path (illumination path)
- 7 illumination optics
- 8 condenser
- 9 microscope (microscopic, object) stage
- 10 mechanical stage
- 11 objective turret (revolving nose-piece)
- 12 binocular head
- 13 beam-splitting prisms
- 14 transmitted-light microscope with camera and polarizer, *Zeiss system*
- 15 stage base
- 16 aperture-stop slide
- 17 universal stage
- 18 lens panel
- 19 polarizing filter
- 20 camera
- 21 focusing screen
- 22 discussion tube arrangement
- 23 wide-field metallurgical microscope, a reflected-light microscope (microscope for reflected light)
- 24 matt screen (ground glass screen, projection screen)
- 25 large-format camera
- 26 miniature camera
- 27 base plate
- 28 lamphouse
- 29 mechanical stage
- 30 objective turret (revolving nose-piece)
- 31 surgical microscope
- 32 pillar stand
- 33 field illumination
- 34 photomicroscope
- 35 miniature film cassette
- 36 photomicrographic camera attachment for large-format or television camera
- 37 surface-finish microscope
- 38 light section tube

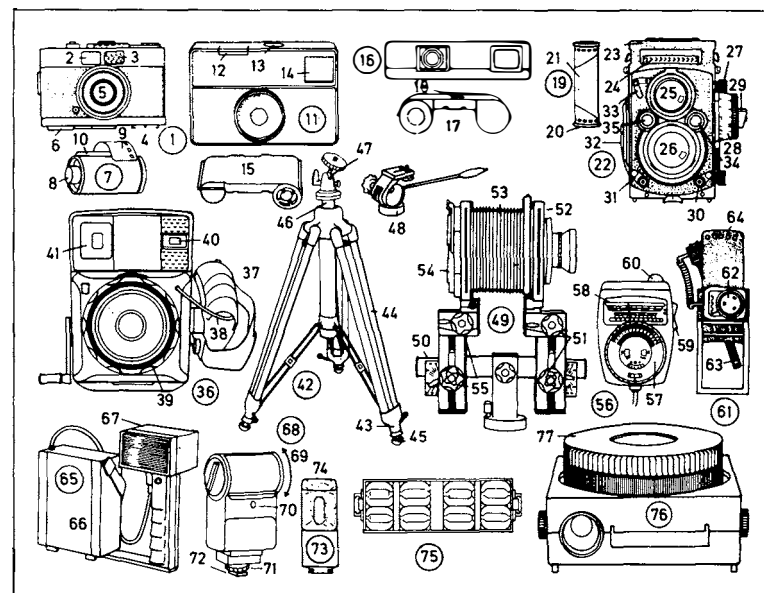
- 39 rack and pinion
- 40 zoom stereomicroscope
- 41 zoom lens
- 42 dust counter
- 43 measurement chamber
- 44 data output
- 45 analogue (*Am. analog*) output
- 46 measurement range selector
- 47 digital display (digital readout)
- 48 dipping refractometer for examining food
- 49 microscopic photometer
- 50 photometric light source
- 51 measuring device (photomultiplier, multiplier phototube)
- 52 light source for survey illumination
- 53 remote electronics
- 54 universal wide-field microscope
- 55 adapter for camera or projector attachment
- 56 eyepiece focusing knob
- 57 filter pick-up
- 58 handrest
- 59 lamphouse for incident (vertical) illumination
- 60 lamphouse connector for transillumination
- 61 wide-field stereomicroscope
- 62 interchangeable lenses (objectives)
- 63 incident (vertical) illumination (incident top lighting)
- 64 fully automatic microscope camera, a camera with photomicro mount adapter
- 65 film cassette
- 66 universal condenser for research microscope 1
- 67 universal-type measuring machine for photogrammetry (photo-theodolite)
- 68 photogrammetric camera
- 69 motor-driven level, a compensator level
- 70 electro-optical distance-measuring instrument
- 71 stereometric camera
- 72 horizontal base
- 73 one-second theodolite







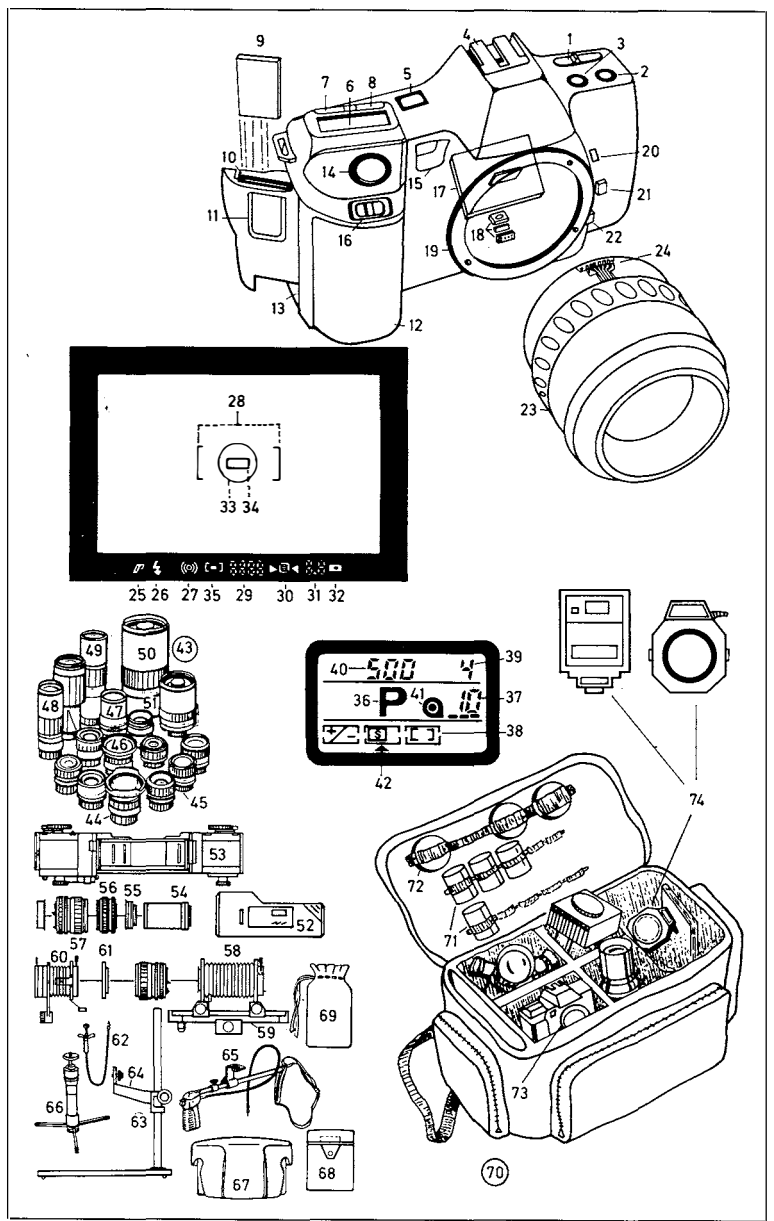
- 1 2.2 m reflecting telescope (reflector)
- 2 pedestal (base)
- 3 axial-radial bearing
- 4 declination gear
- 5 declination axis
- 6 declination bearing
- 7 front ring
- 8 tube (body tube)
- 9 tube centre (*Am.* center) section
- 10 primary mirror (main mirror)
- 11 secondary mirror (deviation mirror, corrector plate)
- 12 fork mounting (fork)
- 13 cover
- 14 guide bearing
- 15 main drive unit of the polar axis
- 16-25 telescope mountings (telescope mounts)
- 16 refractor (refracting telescope) on a German-type mounting
- 17 declination axis
- 18 polar axis
- 19 counterweight (counterpoise)
- 20 eyepiece
- 21 knee mounting with a bent column
- 22 English-type axis mounting (axis mount)
- 23 English-type yoke mounting (yoke mount)
- 24 fork mounting (fork mount)
- 25 horseshoe mounting (horseshoe mount)
- 26 meridian circle
- 27 divided circle (graduated circle)
- 28 reading microscope
- 29 meridian telescope
- 30 electron microscope
- 31-39 microscope tube (microscope body, body tube)
- 31 electron gun
- 32 condensers
- 33 specimen insertion air lock
- 34 control for the specimen stage adjustment
- 35 control for the objective apertures
- 36 objective lens
- 37 intermediate image screen
- 38 telescope magnifier
- 39 final image tube
- 40 photographic chamber for film and plate magazines



- |   |   |   |
|---|---|---|
| 1 miniature camera (35 mm camera)                             | 25 viewing lens                                     | 53 bellows  |
| 2 viewfinder eyepiece   | 26 object lens                                      | 54 camera back  |
| 3 meter cell  | 27 spool knob                                       | 55 back standard adjustment   |
| 4 accessory shoe  | 28 distance setting (focus setting)                 | 56 hand-held exposure meter (exposure meter)                                  |
| 5 flush lens  | 29 exposure meter using needle-matching system      | 57 calculator dial  |
| 6 rewind handle (rewind, rewind crank)                        | 30 flash contact                                    | 58 scales (indicator scales) with indicator needle (pointer)                  |
| 7 miniature film cassette (135 film cassette, 35 mm cassette) | 31 shutter release                                  | 59 range switch (high/low range selector)                                     |
| 8 film spool  | 32 film transport (film advance, film wind)         | 60 diffuser for incident light measurement                                    |
| 9 film with leader and perforations                           | 33 flash switch                                     | 61 probe exposure meter for large-format cameras                              |
| 10 cassette slit (cassette exit slot)                         | 34 aperture-setting control                         | 62 meter  |
| 11 cartridge-loading camera                                   | 35 shutter speed control                            | 63 probe  |
| 12 shutter release (shutter release button)                   | 36 large-format hand camera (press camera)          | 64 dark slide   |
| 13 flash cube contact   | 37 grip (handgrip)                                  | 65 battery-portable electronic flash (battery-portable electronic flash unit) |
| 14 rectangular viewfinder                                     | 38 cable release                                    | 66 power pack unit (battery)  |
| 15 126 cartridge (instamatic cartridge)                       | 39 distance-setting ring (focusing ring)            | 67 flash head   |
| 16 pocket camera (subminiature camera)                        | 40 rangefinder window                               | 68 single-unit electronic flash (flashgun)                                    |
| 17 110 cartridge (subminiature cartridge)                     | 41 multiple-frame viewfinder (universal viewfinder) | 69 swivel-mounted reflector   |
| 18 film window  | 42 tripod   | 70 photodiode   |
| 19 120 rollfilm   | 43 tripod leg                                       | 71 foot   |
| 20 rollfilm spool   | 44 tubular leg                                      | 72 hot-shoe contact   |
| 21 backing paper  | 45 rubber foot                                      | 73 flash cube unit  |
| 22 twin-lens reflex camera                                    | 46 central column                                   | 74 flash cube   |
| 23 folding viewfinder hood (focusing hood)                    | 47 ball and socket head                             | 75 flash bar (AGFA)   |
| 24 meter cell   | 48 cine camera pan and tilt head                    | 76 slide projector  |
|   | 49 large-format folding camera                      | 77 rotary magazine  |
|   | 50 optical bench                                    |   |
|   | 51 standard adjustment                              |   |
|   | 52 lens standard                                    |   |

- 1-24 system camera** (fully automatic miniature single-lens reflex camera)
- 1 main switch
  - 2 function adjustment button (to set exposure adjustment value, drive mode, and focus area)
  - 3 exposure mode button
  - 4 accessory shoe
  - 5 program reset button
  - 6 data panel (data monitor, data display)
  - 7 card on/off key
  - 8 function selector key
  - 9 chip program card
  - 10 card door
  - 11 card window
  - 12 battery chamber
  - 13 remote control terminal
  - 14 shutter release (shutter release button)
  - 15 autofocus (AF) illuminator and self-timer light
  - 16 manual shutter control [up/down control]
  - 17 reflex mirror
  - 18 autofocus sensor, a CCD image converter (image sensor)
  - 19 bayonet mounting ring
  - 20 aperture setting button
  - 21 lens release
  - 22 focus-mode switch (to switch to manual focusing)
  - 23 autofocus zoom lens, a  $\times 3$  zoom lens (35–105 mm)
  - 24 aperture and autofocus contacts
- 25-35 viewfinder screen** (focusing screen, matt screen), a micro-honeycombed focusing screen
- 25 flash-on signal
  - 26 flash-ready signal
  - 27 focus signals
  - 28 wide focus area
  - 29 shutter speed display
  - 30 manual-exposure compensation-value indicator
  - 31 aperture or exposure adjustment indicator
  - 32 spot metering indicator
  - 33 spot metering area
  - 34 centre focus area
  - 35 focus area indicator
- 36-42 LCD data panel** (data monitor)
- 36 program exposure-mode indicator

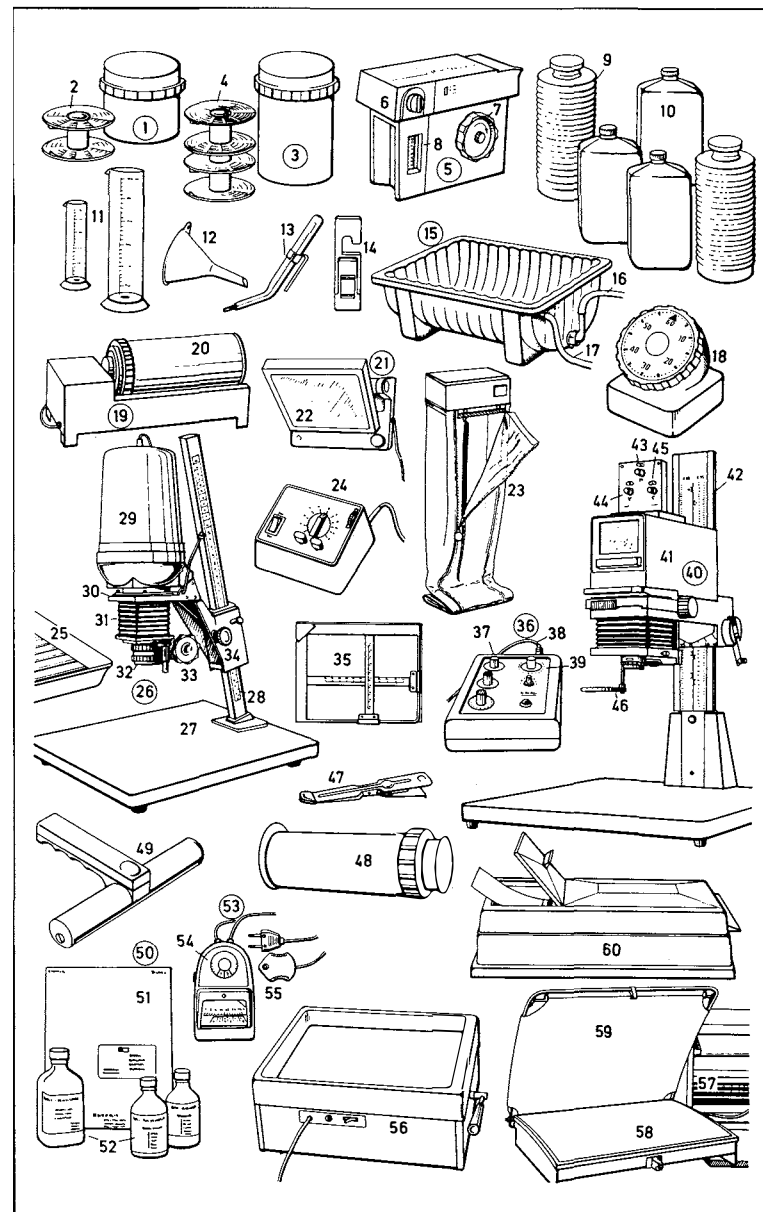
- 37 frame counter
  - 38 function indicators
  - 39 aperture or exposure adjustment indicator
  - 40 shutter speed or film speed (film sensitivity) indicator
  - 41 film transport indicator
  - 42 function pointer
  - 43 interchangeable lenses (autofocus lenses, AF lenses)
  - 44 fisheye lens (fisheye)
  - 45 wide-angle lens (short focal-length lens)
  - 46 standard lens
  - 47 medium focal-length lens
  - 48 telephoto lens (long focal-length lens), a zoom lens (variable focus lens, varifocal lens)
  - 49 long-focus lens
  - 50 mirror lens
  - 51 tele converter
  - 52 data back
  - 53 ten-metre (Am. ten-meter) film back (magazine back)
- 54-74 accessories for close-up and macro shots**
- 54 extension tube
  - 55 adapter ring
  - 56 reversing ring
  - 57 lens in retrofocus position
  - 58 bellows unit (extension bellows, close-up bellows attachment)
  - 59 focusing stage
  - 60 slide-copying attachment
  - 61 slide-copying adapter
  - 62 cable release
  - 63 copying stand (copy stand)
  - 64 arm of the copying stand (copy stand)
  - 65 rifle grip
  - 66 table(-top) tripod (mini tripod)
  - 67 ever-ready case
  - 68 lens case
  - 69 soft-leather lens pouch
  - 70 camera bag, of metallic construction: aluminium (Am. aluminum) case
  - 71 film container
  - 72 filter case
  - 73 second body
  - 74 ring flash for macro shots



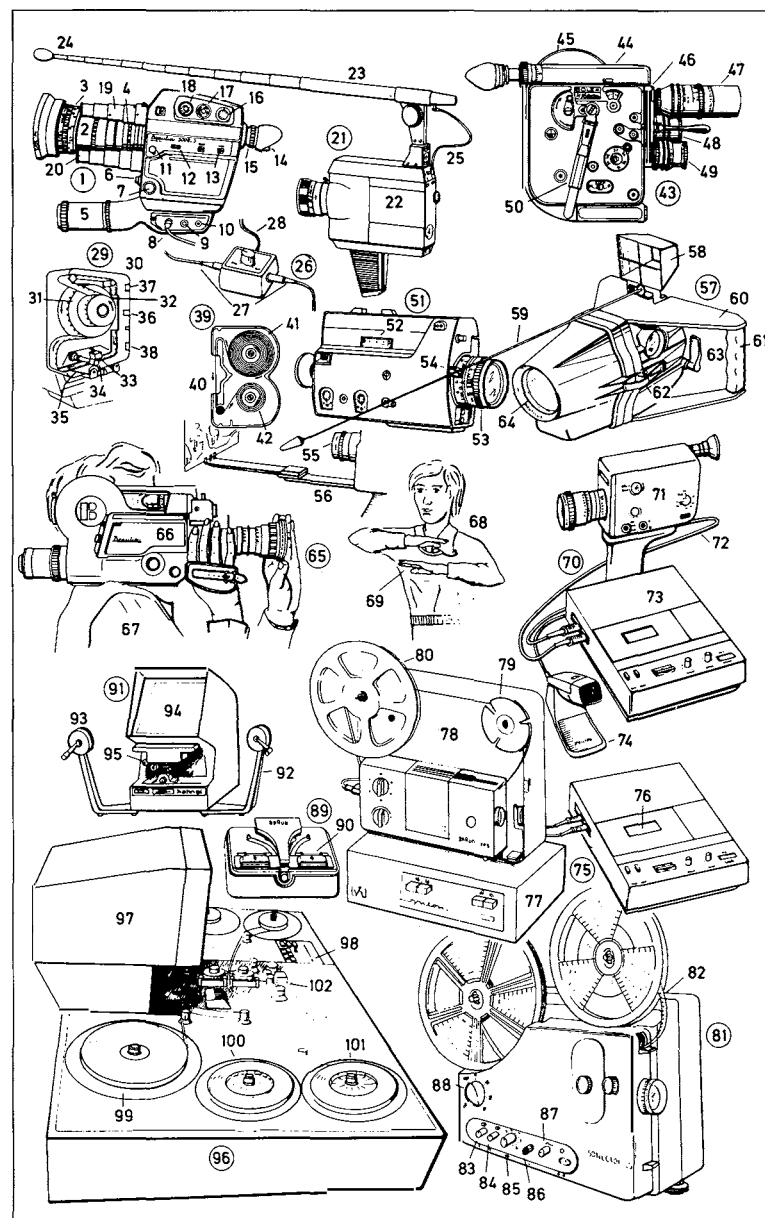
**1-60 darkroom equipment**

- 1 developing tank
- 2 spiral (developing spiral, tank reel)
- 3 multi-unit developing tank
- 4 multi-unit tank spiral
- 5 daylight-loading tank
- 6 loading chamber
- 7 film transport handle
- 8 developing tank thermometer
- 9 collapsible bottle for developing solution
- 10 chemical bottles for first developer, stop bath, colour developer, bleach-hardener, stabilizer
- 11 measuring cylinders
- 12 funnel
- 13 tray thermometer (dish thermometer)
- 14 film clip
- 15 wash tank (washer)
- 16 water supply pipe
- 17 water outlet pipe
- 18 laboratory timer (timer)
- 19 automatic film agitator
- 20 developing tank
- 21 darkroom lamp (safelight)
- 22 filter screen
- 23 film drier (drying cabinet)
- 24 exposure timer
- 25 developing dish (developing tray)
- 26 enlarger
- 27 baseboard
- 28 angled column
- 29 lamphouse (lamp housing)
- 30 negative carrier
- 31 bellows
- 32 lens
- 33 friction drive for fine adjustment
- 34 height adjustment (scale adjustment)
- 35 masking frame (easel)
- 36 colour (*Am. color*) analyser
- 37 colour (*Am. color*) analyser lamp
- 38 probe lead
- 39 exposure time balancing knob
- 40 colour (*Am. color*) enlarger
- 41 enlarger head

- 42 column
- 43-45 colour-mixing (*Am. color-mixing*) knob
- 43 magenta filter adjustment (minus green filter adjustment)
- 44 yellow filter adjustment (minus blue filter adjustment)
- 45 cyan filter adjustment (minus red filter adjustment)
- 46 red swing filter
- 47 print tongs
- 48 processing drum
- 49 squeegee
- 50 range (assortment) of papers
- 51 colour (*Am. color*) printing paper, a packet of photographic printing paper
- 52 colour (*Am. color*) chemicals (colour processing chemicals)
- 53 enlarging meter (enlarging photometer)
- 54 adjusting knob with paper speed scale
- 55 probe
- 56 semi-automatic thermostatically controlled developing dish
- 57 rapid print drier (heated print drier)
- 58 glazing sheet
- 59 pressure cloth
- 60 automatic processor (machine processor)

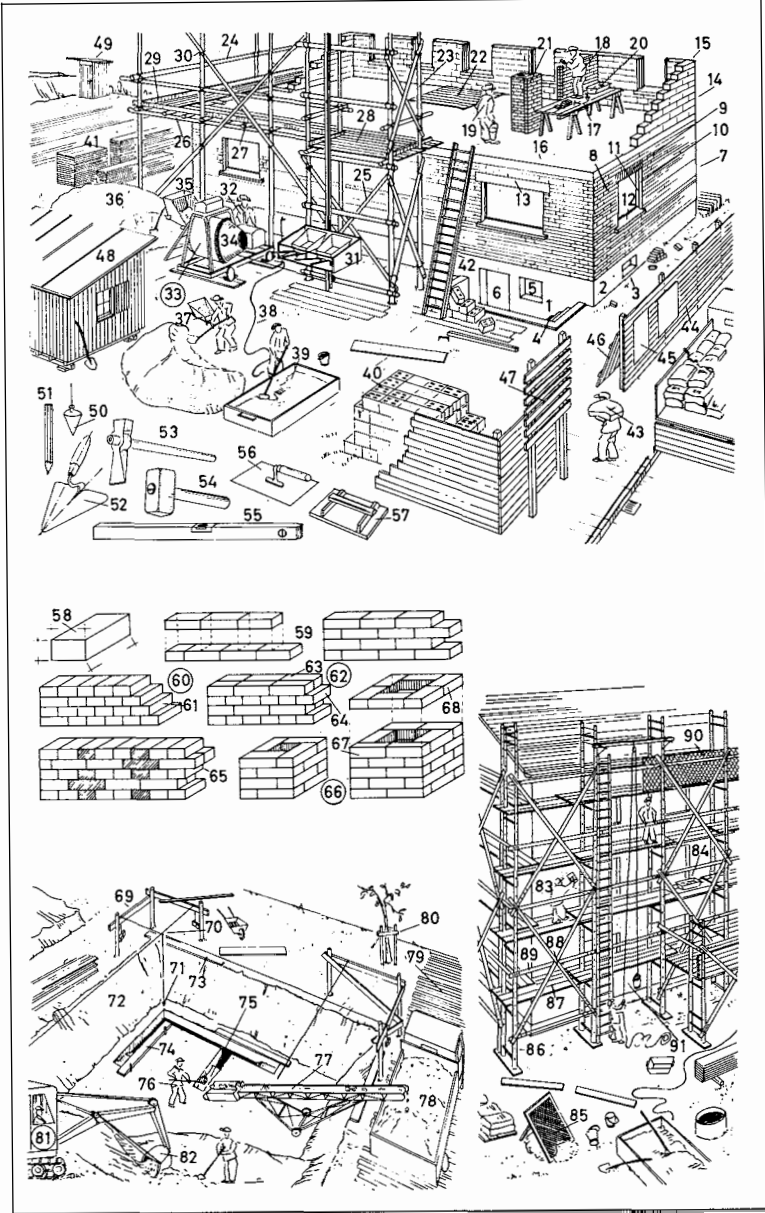


- 1 **cine camera**, a Super-8 sound camera
- 2 interchangeable zoom lens (variable focus lens, varifocal lens)
- 3 distance setting (focus setting) and manual focal length setting
- 4 aperture ring (aperture-setting ring, aperture control ring) for manual aperture setting
- 5 handgrip with battery chamber
- 6 shutter release with cable release socket
- 7 pilot tone or pulse generator socket for the sound recording equipment (with the dual film-tape system)
- 8 sound connecting cord for microphone or external sound source (in single-system recording)
- 9 remote control socket (remote control jack)
- 10 headphone socket (*sim.*: earphone socket)
- 11 autofocus override switch
- 12 film speed selector
- 13 sound recording selector switch for automatic or manual operation
- 14 eyepiece with eyecup
- 15 diopter control ring (dioptric adjustment ring)
- 16 recording level control (audio level control, recording sensitivity selector)
- 17 manual/automatic exposure control switch
- 18 film speed setting
- 19 power zooming arrangement
- 20 automatic aperture control
- 21 **sound track system**
- 22 sound camera
- 23 telescopic microphone boom
- 24 microphone
- 25 microphone connecting lead (microphone connecting cord)
- 26 **mixing console** (mixing desk, mixer)
- 27 inputs from various sound sources
- 28 output to camera
- 29 **Super-8 sound film cartridge**
- 30 film gate of the cartridge
- 31 feed spool
- 32 take-up spool
- 33 recording head (sound head)
- 34 transport roller (capstan)
- 35 rubber pinch roller (capstan idler)
- 36 guide step (guide notch)
- 37 exposure meter control step
- 38 conversion filter step (colour, *Am.* color, conversion filter step)
- 39 **single-8 cassette**
- 40 film gate opening
- 41 unexposed film
- 42 exposed film
- 43 **16 mm camera**
- 44 reflex finder (through-the-lens reflex finder)
- 45 magazine
- 46-49 **lens head**
- 46 lens turret (turret head)
- 47 telephoto lens
- 48 wide-angle lens
- 49 normal lens (standard lens)
- 50 winding handle
- 51 **compact Super-8 camera**
- 52 footage counter
- 53 macro zoom lens
- 54 zooming lever
- 55 macro lens attachment (close-up lens)
- 56 macro frame (mount for small originals)
- 57 **underwater housing** (underwater case)
- 58 direct-vision frame finder
- 59 measuring rod
- 60 stabilizing wing
- 61 grip (handgrip)
- 62 locking bolt
- 63 control lever (operating lever)
- 64 porthole
- 65 **synchronization start** (sync start)
- 66 professional press-type camera cameraman
- 67 camera assistant (sound assistant)
- 68 handclap marking sync start
- 69 **dual film-tape recording using a tape recorder**
- 70 pulse-generating camera
- 71 pulse cable
- 72 cassette recorder
- 73 microphone
- 74 **dual film-tape reproduction**
- 75 tape cassette
- 76 synchronization unit
- 77 cine projector
- 78 film feed spool
- 79 take-up reel (take-up spool), an automatic take-up reel (take-up spool)
- 80 **sound projector**
- 81 sound film with magnetic stripe (sound track, track)
- 82 automatic-threading button
- 83 trick button
- 84 volume control
- 85 reset button
- 86 fast and slow motion switch
- 87 forward, reverse, and still projection switch
- 88 splicer for wet splices
- 89 hinged clamping plate
- 90 **film viewer** (animated viewer editor)
- 91 foldaway reel arm
- 92 rewind handle (rewinder)
- 93 viewing screen
- 94 film perforator (film marker)
- 95 **six-turntable film and sound cutting table** (editing table, cutting bench, animated sound editor)
- 96 monitor
- 97 control buttons (control well)
- 98 film turntable
- 99 first sound turntable, e.g. for live sound
- 100 second sound turntable for post-sync sound
- 101 film and tape synchronizing head
- 102

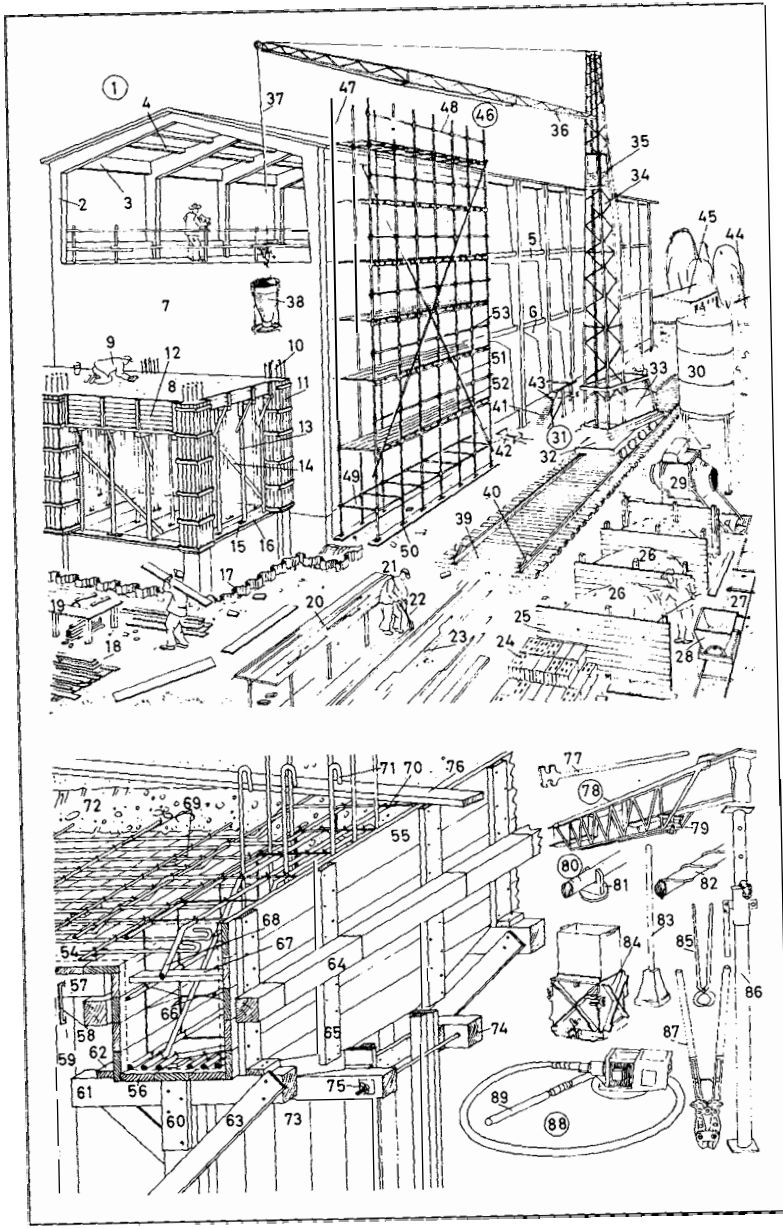


- 1-49 **carcase** (carcass, fabric) [house construction, carcassing]  
1 basement of tamped (rammed) concrete  
2 concrete base course  
3 cellar window (basement window)  
4 outside cellar steps  
5 utility room window  
6 utility room door  
7 ground floor (*Am.* first floor)  
8 brick wall  
9 lintel (window head)  
10 reveal  
11 jamb  
12 window ledge (window sill)  
13 reinforced concrete lintel  
14 upper floor (first floor, *Am.* second floor)  
15 hollow-block wall  
16 concrete floor  
17 work platform (working platform)  
18 bricklayer (*Am.* brickmason)  
19 bricklayer's labourer (*Am.* laborer); *also:* builder's labourer  
20 mortar trough  
21 chimney  
22 cover (boards) for the staircase  
23 scaffold pole (scaffold standard)  
24 platform railing  
25 angle brace (angle tie) in the scaffold  
26 ledger  
27 putlog (putlock)  
28 plank platform (board platform)  
29 guard board  
30 scaffolding joint with chain or lashing or whip or bond  
31 builder's hoist  
32 mixer operator  
33 concrete mixer, a gravity mixer  
34 mixing drum  
35 feeder skip  
36 concrete aggregate [sand and gravel]  
37 wheelbarrow  
38 hose (hosepipe)  
39 mortar pan (mortar trough, mortar tub)  
40 stack of bricks  
41 stacked shutter boards (lining boards)  
42 ladder  
43 bag of cement  
44 site fence, a timber fence  
45 signboard (billboard)  
46 removable gate  
47 contractors' name plates

- 48 site hut (site office)  
49 building site latrine  
50-57 **bricklayer's** (*Am.* brickmason's) **tools**  
50 plumb bob (plummet)  
51 thick lead pencil  
52 trowel  
53 bricklayer's (*Am.* brickmason's) hammer (brick hammer)  
54 mallet  
55 spirit level  
56 laying-on trowel  
57 float  
58-68 **masonry bonds**  
58 brick (standard brick)  
59 stretching bond  
60 heading bond  
61 racking (raking) back  
62 English bond  
63 stretching course  
64 heading course  
65 English cross bond (Saint Andrew's cross bond)  
66 chimney bond  
67 first course  
68 second course  
69-82 **excavation**  
69 profile (*Am.* batterboard) [fixed on edge at the corner]  
70 intersection of strings  
71 plumb bob (plummet)  
72 excavation side  
73 upper edge board  
74 lower edge board  
75 foundation trench  
76 navvy (*Am.* excavator)  
77 conveyor belt (conveyor)  
78 excavated earth  
79 plank roadway  
80 tree guard  
81 mechanical shovel (excavator)  
82 shovel bucket (bucket)  
83-91 **plastering**  
83 plasterer  
84 mortar trough  
85 screen  
86-89 **ladder scaffold**  
86 standard ladder  
87 boards (planks, platform)  
88 diagonal strut (diagonal brace)  
89 railing  
90 guard netting  
91 rope-pulley hoist



- 1-89 reinforced concrete (ferroconcrete) construction**
- 1 reinforced concrete (ferroconcrete) skeleton construction
  - 2 reinforced concrete (ferroconcrete) frame
  - 3 inferior purlin
  - 4 concrete purlin
  - 5 ceiling joist
  - 6 arch (flank)
  - 7 rubble concrete wall
  - 8 reinforced concrete (ferroconcrete) floor
  - 9 concreter (concretor), flattening out
  - 10 projecting reinforcement (Am. connection rebars)
  - 11 column box
  - 12 joist shuttering
  - 13 shuttering strut
  - 14 diagonal bracing
  - 15 wedge
  - 16 board
  - 17 sheet pile wall (sheet pile, sheet piling)
  - 18 shutter boards (lining boards)
  - 19 circular saw (buzz saw)
  - 20 bending table
  - 21 bar bender (steel bender)
  - 22 hand steel shears
  - 23 reinforcing steel (reinforcement rods)
  - 24 pumice concrete hollow block
  - 25 partition wall, a timber wall
  - 26 concrete aggregate [gravel and sand of various grades]
  - 27 crane track
  - 28 tipping wagon (tipping truck)
  - 29 concrete mixer
  - 30 cement silo
  - 31 tower crane (tower slewing crane)
  - 32 bogie (Am. truck)
  - 33 counterweight
  - 34 tower
  - 35 crane driver's cabin (crane driver's cage)
  - 36 jib (boom)
  - 37 bearer cable
  - 38 concrete bucket
  - 39 sleepers (Am. ties)
  - 40 chock
  - 41 ramp
  - 42 wheelbarrow
  - 43 safety rail
  - 44 site hut
  - 45 canteen
  - 46 tubular steel scaffold (scaffolding)
  - 47 standard
  - 48 ledger tube
  - 49 tie tube
  - 50 shoe
  - 51 diagonal brace
  - 52 planking (platform)
  - 53 coupling (coupler)
  - 54-76 formwork (shuttering) and reinforcement**
  - 54 bottom shuttering (lining)
  - 55 side shutter of a purlin
  - 56 cut-in bottom
  - 57 cross beam
  - 58 clamp iron (cramp, dog)
  - 59 upright member, a standard
  - 60 strap
  - 61 cross piece
  - 62 stop fillet
  - 63 strut (brace, angle brace)
  - 64 frame timber (yoke)
  - 65 strap
  - 66 reinforcement binding
  - 67 cross strut (strut)
  - 68 reinforcement
  - 69 distribution steel
  - 70 stirrup
  - 71 projecting reinforcement (Am. connection rebars)
  - 72 concrete (heavy concrete)
  - 73 column box
  - 74 bolted frame timber (bolted yoke)
  - 75 nut (thumb nut)
  - 76 shutter board (shuttering board)
  - 77-89 tools**
  - 77 bending iron
  - 78 adjustable service girder
  - 79 adjusting screw
  - 80 round bar reinforcement
  - 81 distance piece (separator, spacer)
  - 82 Torsteel
  - 83 concrete tamper
  - 84 mould (Am. mold) for concrete test cubes
  - 85 concreter's tongs
  - 86 sheeting support
  - 87 hand shears
  - 88 immersion vibrator (concrete vibrator)
  - 89 vibrating cylinder (vibrating head, vibrating poker)



1-59 carpenter's yard

- 1 stack of boards (planks)
- 2 long timber (*Am.* lumber)
- 3 sawing shed
- 4 carpenter's workshop
- 5 workshop door
- 6 handcart
- 7 roof truss
- 8 tree [used for topping out ceremony], with wreath
- 9 timber wall
- 10 squared timber (building timber, scantlings)
- 11 drawing floor
- 12 carpenter
- 13 safety helmet
- 14 cross-cut saw, a chain saw
- 15 chain guide
- 16 saw chain
- 17 mortiser (chain cutter)
- 18 trestle (horse)
- 19 beam mounted on a trestle
- 20 set of carpenter's tools
- 21 electric drill
- 22 dowel hole
- 23 mark for the dowel hole
- 24 beams
- 25 post (stile, stud, quarter)
- 26 corner brace
- 27 brace (strut)
- 28 base course (plinth)
- 29 house wall (wall)
- 30 window opening
- 31 reveal
- 32 jamb
- 33 window ledge (window sill)
- 34 cornice
- 35 roundwood (round timber)
- 36 floorboards
- 37 hoisting rope
- 38 ceiling joist (ceiling beam, main beam)
- 39 wall joist
- 40 wall plate
- 41 trimmer (trimmer joist, *Am.* header, header joist)
- 42 dragon beam (dragon piece)
- 43 false floor (inserted floor)
- 44 floor filling of breeze, loam, etc.
- 45 fillet (cleat)
- 46 stair well (well)
- 47 chimney
- 48 framed partition (framed wall)

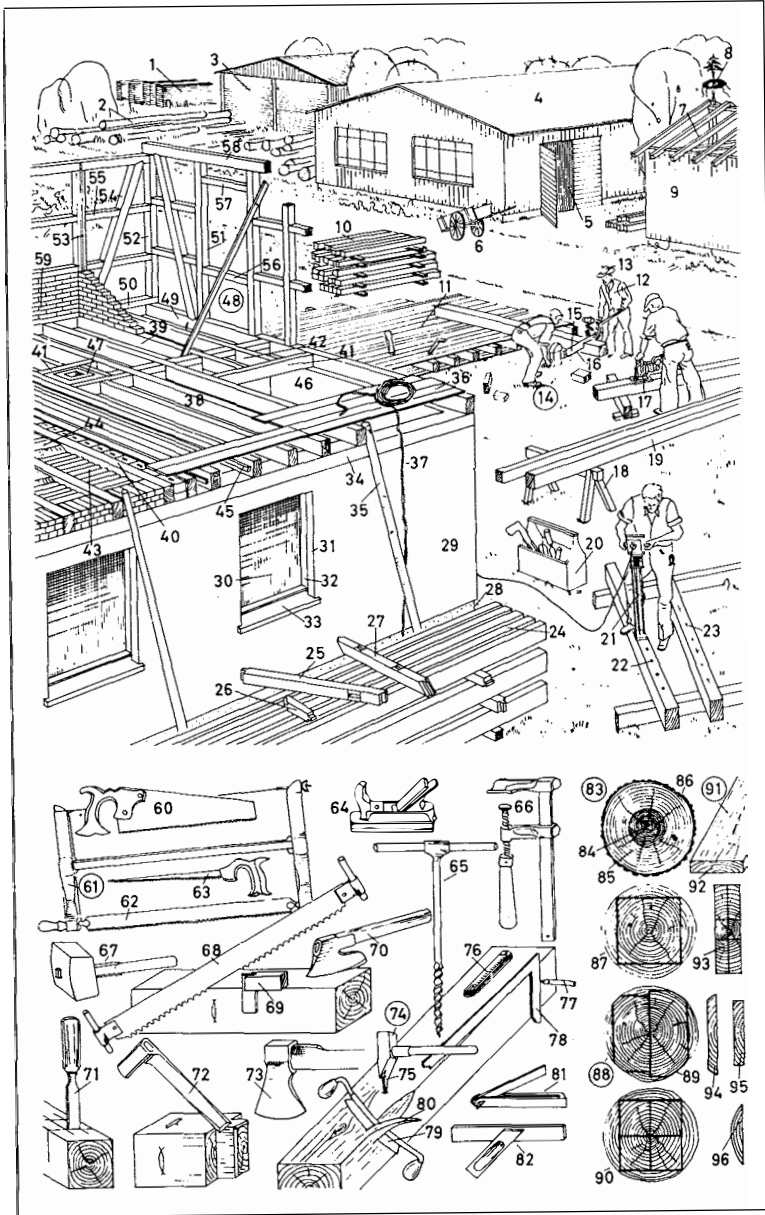
- 49 wall plate
- 50 girt
- 51 window jamb, a jamb
- 52 corner stile (corner strut, corner stud)
- 53 principal post
- 54 brace (strut) with skew notch
- 55 nogging piece
- 56 sill rail
- 57 window lintel (window head)
- 58 head (head rail)
- 59 filled-in panel (bay, pan)

60-82 carpenter's tools

- 60 hand saw
- 61 bucksaw
- 62 saw blade
- 63 compass saw (keyhole saw)
- 64 plane
- 65 auger (gimlet)
- 66 screw clamp (cramp, holdfast)
- 67 mallet
- 68 two-handed saw
- 69 try square
- 70 broad axe (*Am.* broadax)
- 71 chisel
- 72 mortise axe (mortice axe, *Am.* mortise ax)
- 73 axe (*Am.* ax)
- 74 carpenter's hammer
- 75 claw head (nail claw)
- 76 folding rule
- 77 carpenter's pencil
- 78 iron square
- 79 drawknife (drawshave, drawing knife)
- 80 shaving
- 81 bevel
- 82 mitre square (*Am.* miter square, miter angle)

83-96 building timber

- 83 undressed timber (*Am.* rough lumber)
- 84 heartwood (duramen)
- 85 sapwood (sap, alburnum)
- 86 bark (rind)
- 87 baulk (balk)
- 88 halved timber
- 89 wane (waney edge)
- 90 quarter baulk (balk)
- 91 plank (board)
- 92 end-grained timber
- 93 heartwood plank (heart plank)
- 94 unsquared (untrimmed) plank (board)
- 95 squared (trimmed) board
- 96 slab (offcut)



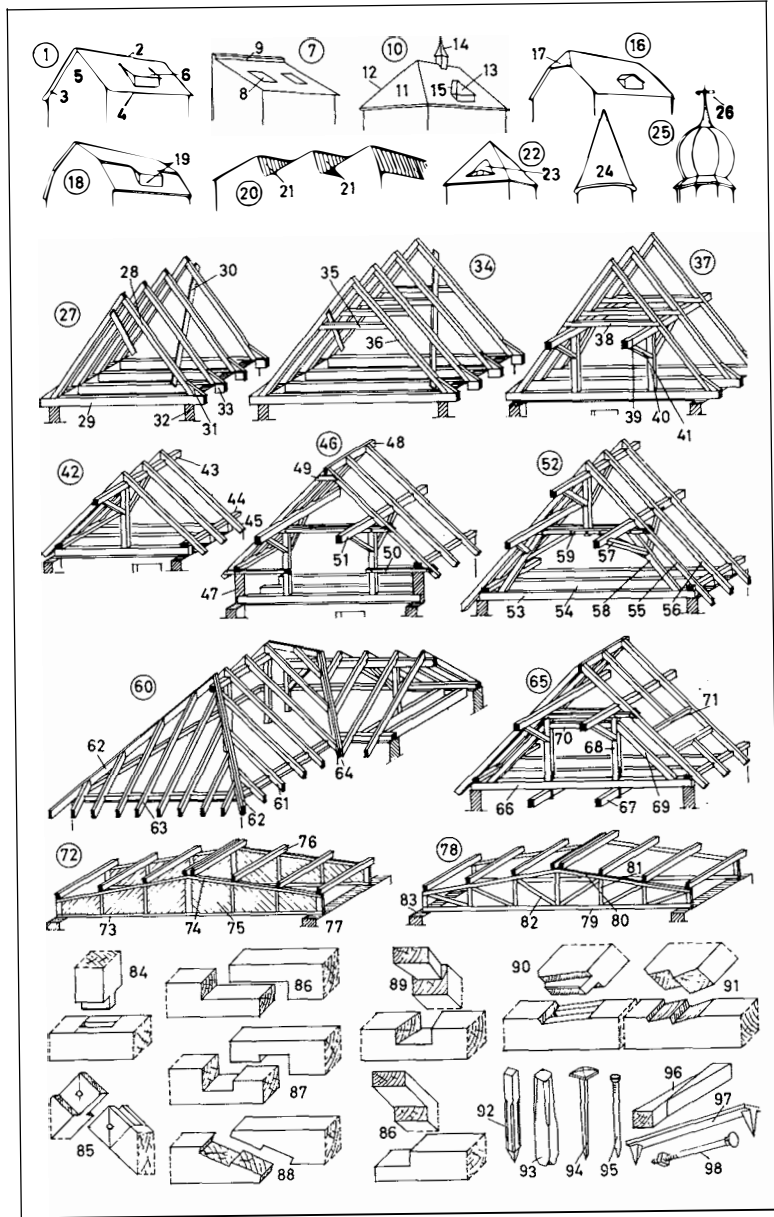
1-26 styles and parts of roofs

- 1 gable roof (saddle roof, saddleback roof)
- 2 ridge
- 3 verge
- 4 eaves
- 5 gable
- 6 dormer window (dormer)
- 7 pent roof (shed roof, lean-to roof)
- 8 skylight
- 9 fire gable
- 10 hip (hipped) roof
- 11 hip end
- 12 hip (arris)
- 13 hip (hipped) dormer window
- 14 ridge turret
- 15 valley (roof valley)
- 16 hipped-gable roof (jerkin head roof)
- 17 partial-hip (partial-hipped) end
- 18 mansard roof (*Am.* gambrel roof)
- 19 mansard dormer window
- 20 sawtooth roof
- 21 north light
- 22 broach roof
- 23 eyebrow
- 24 conical broach roof
- 25 imperial dome (imperial roof)
- 26 weather vane

27-83 roof structures of timber

- 27 rafter roof
- 28 rafter
- 29 roof beam
- 30 diagonal tie (cross tie, sprocket piece, cocking piece)
- 31 arris fillet (tilting fillet)
- 32 outer wall
- 33 beam head
- 34 collar beam roof (trussed rafter roof)
- 35 collar beam (collar)
- 36 rafter
- 37 strutted collar beam roof structure
- 38 collar beams
- 39 purlin
- 40 post (stile, stud)
- 41 brace
- 42 unstrutted (king pin) roof structure
- 43 ridge purlin
- 44 inferior purlin
- 45 rafter head (rafter end)
- 46 purlin roof with queen post and pointing sill
- 47 pointing sill
- 48 ridge beam (ridge board)

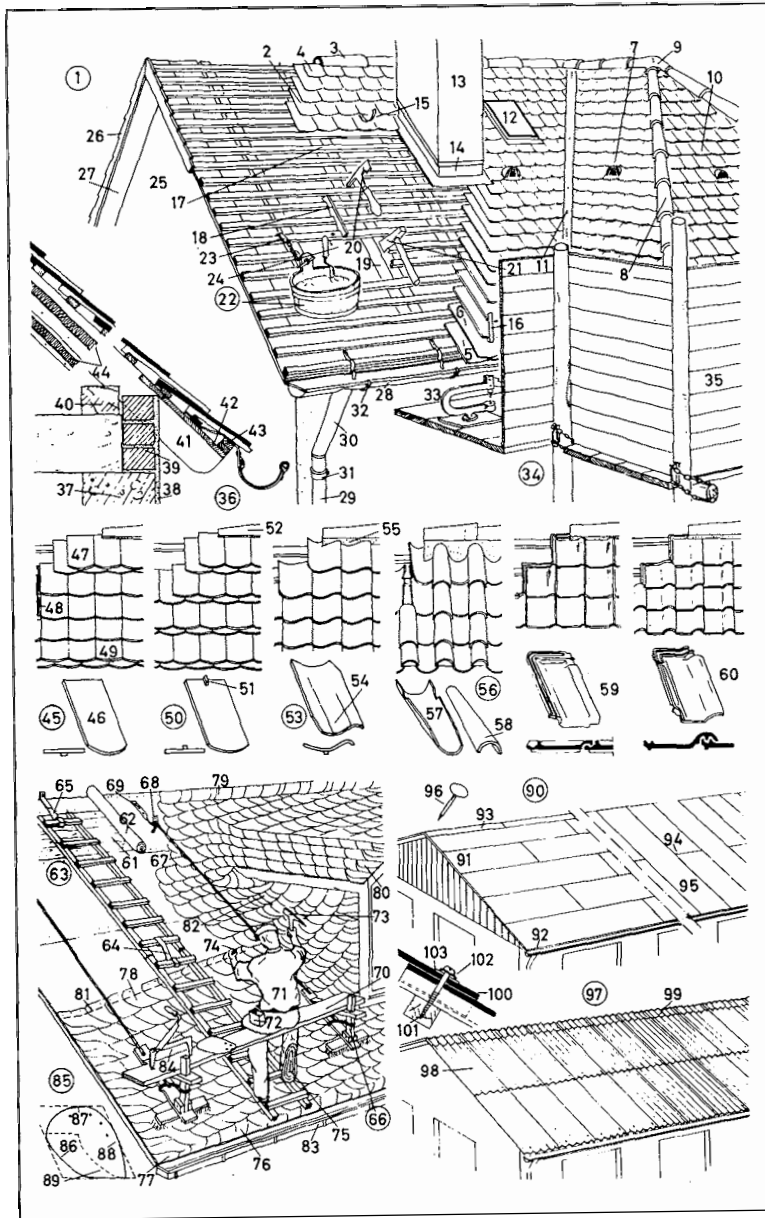
- 49 simple tie
- 50 double tie
- 51 purlin
- 52 purlin roof structure with queen post
- 53 tie beam
- 54 joist (ceiling joist)
- 55 principal rafter
- 56 common rafter
- 57 angle brace (angle tie)
- 58 brace (strut)
- 59 ties
- 60 hip (hipped) roof with purlin roof structure
- 61 jack rafter
- 62 hip rafter
- 63 jack rafter
- 64 valley rafter
- 65 queen truss
- 66 main beam
- 67 summer (summer beam)
- 68 queen post (truss post)
- 69 brace (strut)
- 70 collar beam (collar)
- 71 trimmer (*Am.* header)
- 72 solid-web girder
- 73 lower chord
- 74 upper chord
- 75 boarding
- 76 purlin
- 77 supporting outer wall
- 78 roof truss
- 79 lower chord
- 80 upper chord
- 81 post
- 82 brace (strut)
- 83 support
- 84-98 timber joints
- 84 mortise (mortice) and tenon joint
- 85 forked mortise (mortice) and tenon joint
- 86 halving (halved) joint
- 87 simple scarf joint
- 88 oblique scarf joint
- 89 dovetail halving
- 90 single skew notch
- 91 double skew notch
- 92 wooden nail
- 93 pin
- 94 clout nail (clout)
- 95 wire nail
- 96 hardwood wedges
- 97 cramp iron (timber dog, dog)
- 98 bolt



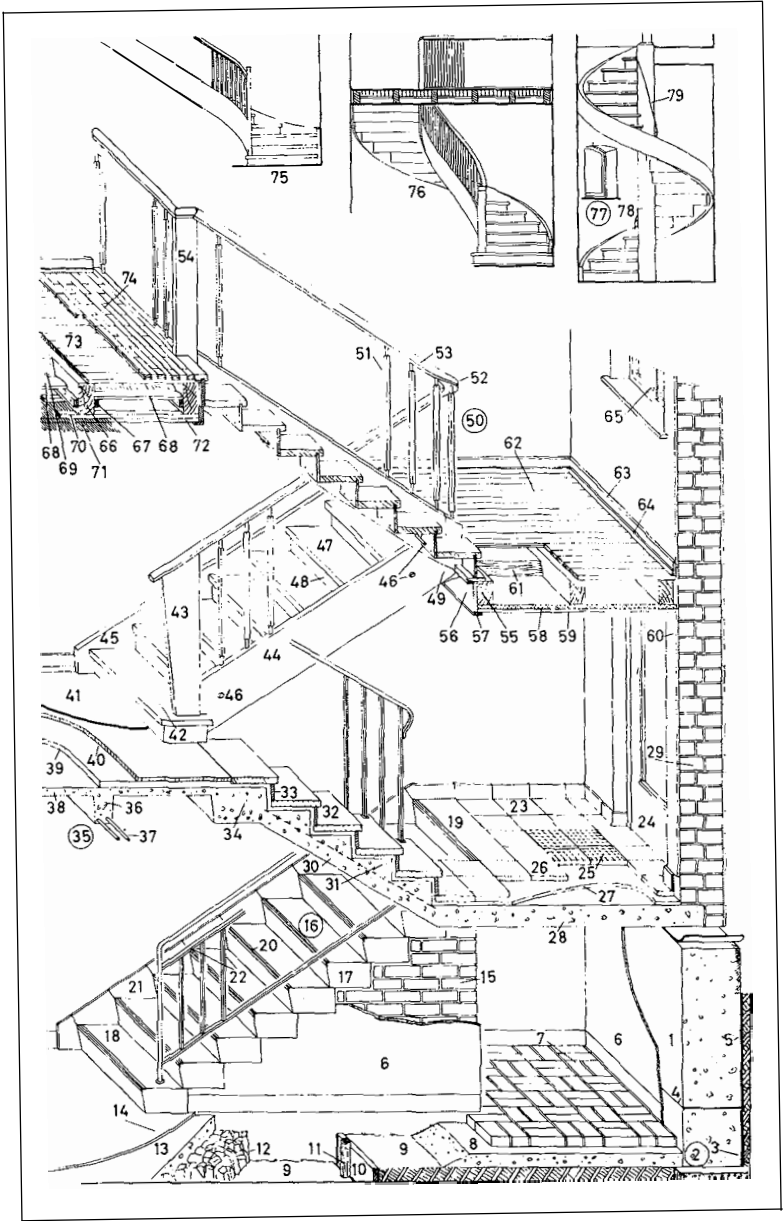


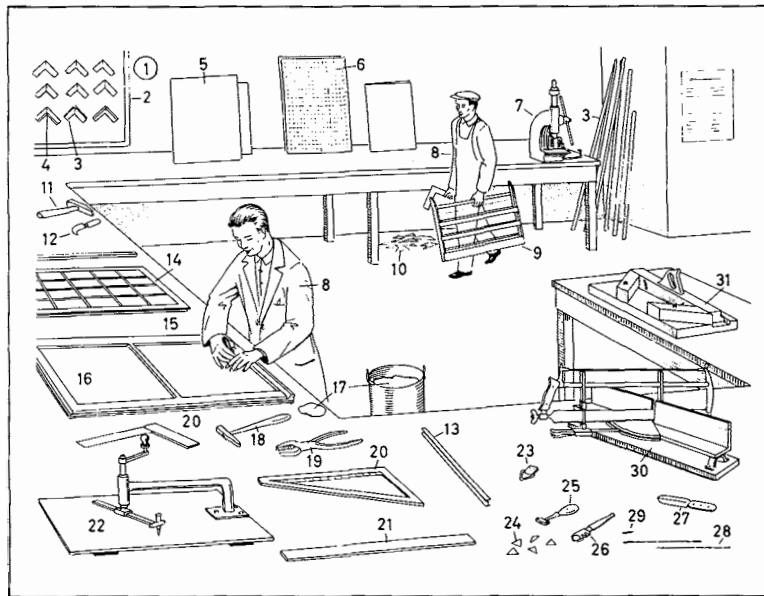
- 1 tiled roof
- 2 plain-tile double-lap roofing
- 3 ridge tile
- 4 ridge course tile
- 5 under-ridge tile
- 6 plain (plane) tile
- 7 ventilating tile
- 8 ridge tile
- 9 hip tile
- 10 hipped end
- 11 valley (roof valley)
- 12 skylight
- 13 chimney
- 14 chimney flashing, made of sheet zinc
- 15 ladder hook
- 16 snow guard bracket
- 17 battens (slating and tiling battens)
- 18 batten gauge (*Am. gage*)
- 19 rafter
- 20 tile hammer
- 21 lath axe (*Am. ax*)
- 22 hod
- 23 hod hook
- 24 opening (hatch)
- 25 gable (gable end)
- 26 toothed lath
- 27 soffit
- 28 gutter
- 29 rainwater pipe (downpipe)
- 30 swan's neck (swan-neck)
- 31 pipe clip
- 32 gutter bracket
- 33 tile cutter
- 34 scaffold
- 35 safety wall
- 36 eaves
- 37 outer wall
- 38 exterior rendering
- 39 frost-resistant brickwork
- 40 inferior purlin
- 41 rafter head (rafter end)
- 42 eaves fascia
- 43 double lath (tilting lath)
- 44 insulating boards
- 45-60 tiles and tile roofings
- 45 split-tiled roof
- 46 plain (plane) tile
- 47 ridge course
- 48 slip
- 49 eaves course
- 50 plain-tiled roof
- 51 nib
- 52 ridge tile
- 53 pantiled roof
- 54 pantile
- 55 pointing

- 56 Spanish-tiled roof (*Am. mission-tiled roof*)
- 57 under tile
- 58 over tile
- 59 interlocking tile
- 60 flat interlocking tile
- 61-89 slate roof
- 61 roof boards (roof boarding, roof sheathing)
- 62 roofing paper (sheathing paper); *also*: roofing felt (*Am. rag felt*)
- 63 cat ladder (roof ladder)
- 64 coupling hook
- 65 ridge hook
- 66 roof trestle
- 67 trestle rope
- 68 knot
- 69 ladder hook
- 70 scaffold board
- 71 slater
- 72 nail bag
- 73 slate hammer
- 74 slate nail, a galvanized wire nail
- 75 slater's shoe, a bast or hemp shoe
- 76 eaves course (eaves joint)
- 77 corner bottom slate
- 78 roof course
- 79 ridge course (ridge joint)
- 80 gable slate
- 81 tail line
- 82 valley (roof valley)
- 83 box gutter (trough gutter, parallel gutter)
- 84 slater's iron
- 85 slate
- 86 back
- 87 head
- 88 front edge
- 89 tail
- 90-103 asphalt-impregnated paper roofing and corrugated asbestos cement roofing
- 90 asphalt-impregnated paper roof
- 91 width [parallel to the gutter]
- 92 gutter
- 93 ridge
- 94 join
- 95 width [at right angles to the gutter]
- 96 felt nail (clout nail)
- 97 corrugated asbestos cement roof
- 98 corrugated sheet
- 99 ridge capping piece
- 100 lap
- 101 wood screw
- 102 rust-proof zinc cup
- 103 lead washer

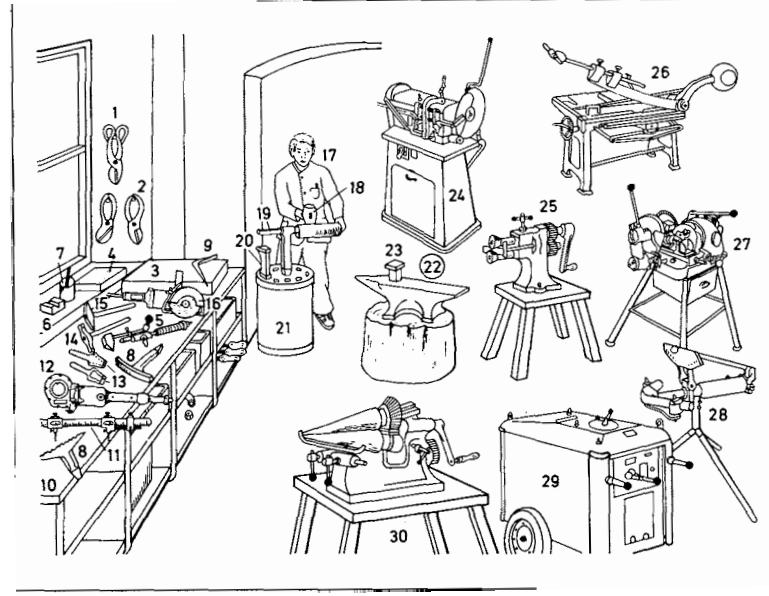


- 1 basement wall, a concrete wall
- 2 footing (foundation)
- 3 foundation base
- 4 damp course (damp-proof course)
- 5 waterproofing
- 6 rendering coat
- 7 brick paving
- 8 sand bed
- 9 ground
- 10 shuttering
- 11 peg
- 12 hardcore
- 13 oversite concrete
- 14 cement screed
- 15 brickwork base
- 16 basement stairs, solid concrete stairs
- 17 block step
- 18 curtail step (bottom step)
- 19 top step
- 20 nosing
- 21 skirting (skirting board, *Am.* mop-board, washboard, scrub board, base)
- 22 balustrade of metal bars
- 23 ground-floor (*Am.* first-floor) landing
- 24 front door
- 25 foot scraper
- 26 flagstone paving
- 27 mortar bed
- 28 concrete ceiling, a reinforced concrete slab
- 29 ground-floor (*Am.* first-floor) brick wall
- 30 ramp
- 31 wedge-shaped step
- 32 tread
- 33 riser
- 34-41 landing
- 34 landing beam
- 35 ribbed reinforced concrete floor
- 36 rib
- 37 steel-bar reinforcement
- 38 subfloor (blind floor)
- 39 level layer
- 40 finishing layer
- 41 top layer (screed)
- 42-44 dog-legged staircase, a staircase without a well
- 42 curtail step (bottom step)
- 43 newel post (newel)
- 44 outer string (*Am.* outer stringer)
- 45 wall string (*Am.* wall stringer)
- 46 staircase bolt
- 47 tread
- 48 riser
- 49 wreath piece (wreathed string)
- 50 balustrade
- 51 baluster
- 52-62 intermediate landing
- 52 wreath
- 53 handrail (guard rail)
- 54 head post
- 55 landing beam
- 56 lining board
- 57 fillet
- 58 lightweight building board
- 59 ceiling plaster
- 60 wall plaster
- 61 false ceiling
- 62 strip flooring (overlay flooring, parquet strip)
- 63 skirting board (*Am.* mopboard, washboard, scrub board, base)
- 64 beading
- 65 staircase window
- 66 main landing beam
- 67 fillet (cleat)
- 68, 69 false ceiling
- 68 false floor (inserted floor)
- 69 floor filling (plugging, pug)
- 70 laths
- 71 lathing
- 72 ceiling plaster
- 73 subfloor (blind floor)
- 74 parquet floor with tongued-and-grooved blocks
- 75 quarter-newelled (*Am.* quarter-neweled) staircase
- 76 winding staircase (spiral staircase) with open newels (open-newel staircase)
- 77 winding staircase (spiral staircase) with solid newels (solid-newel staircase)
- 78 newel (solid newel)
- 79 handrail





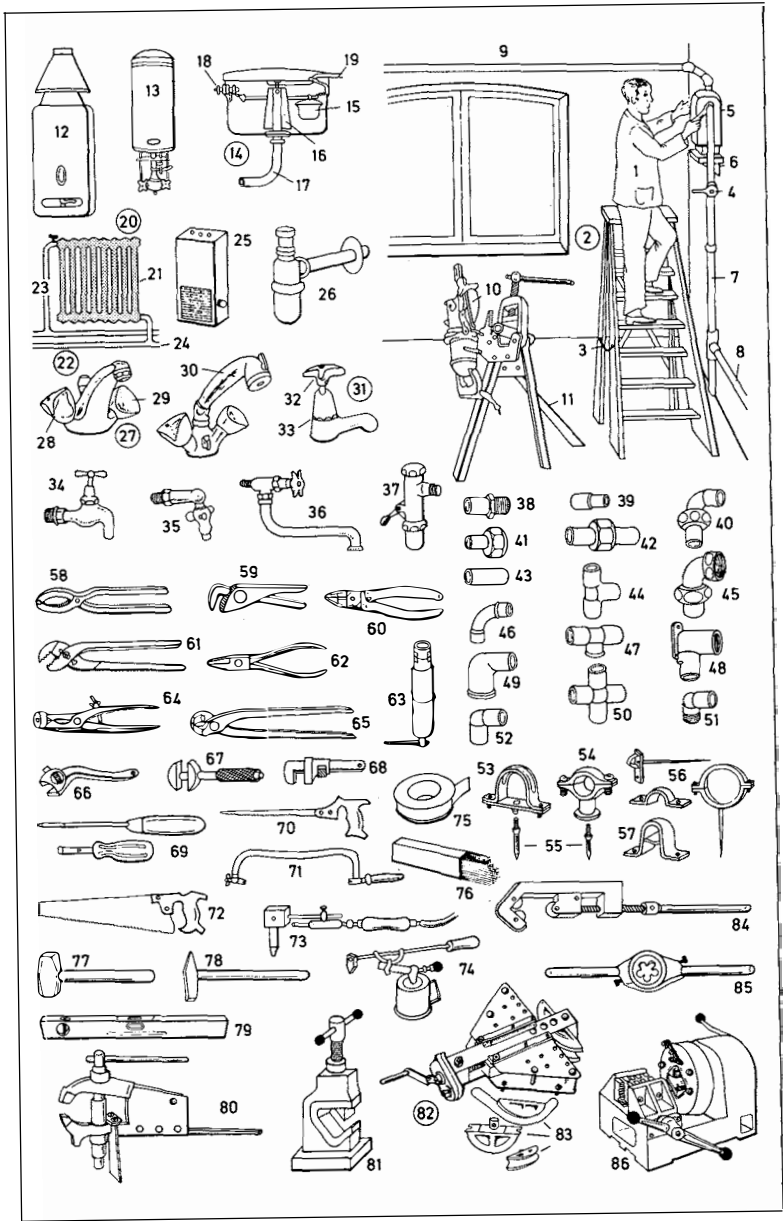
- |  |   |
|--|---|
| 1 glazier's workshop   | 14 leaded light   |
| 2 frame wood samples (frame samples)   | 15 workbench  |
| 3 frame wood   | 16 pane of glass  |
| 4 mitre joint (mitre, <i>Am.</i> miter joint, miter)   | 17 putty  |
| 5 sheet glass; <i>kinds</i> : window glass, frosted glass, patterned glass, crystal plate glass, thick glass, milk glass, laminated glass (safety glass, shatterproof glass) | 18 glazier's hammer                                       |
| 6 cast glass; <i>kinds</i> : stained glass, ornamental glass, raw glass, bull's-eye glass, wired glass, line glass (lined glass)   | 19 glass pliers   |
| 7 mitring ( <i>Am.</i> mitering) machine   | 20 glazier's square                                       |
| 8 glassworker (e.g. building glazier, glazier, decorative glass worker)  | 21 glazier's rule   |
| 9 glass holder   | 22 glazier's beam compass                                 |
| 10 piece of broken glass   | 23 eyelet   |
| 11 lead hammer   | 24 glazing sprig  |
| 12 lead knife  | 25, 26 glass cutters                                      |
| 13 came (lead came)  | 25 diamond glass cutter                                   |
|  | 26 steel-wheel (steel) glass cutter                       |
|  | 27 putty knife  |
|  | 28 pin wire   |
|  | 29 panel pin  |
|  | 30 mitre ( <i>Am.</i> miter) block (mitre box) [with saw] |
|  | 31 mitre ( <i>Am.</i> miter) shoot (mitre board)          |



- |   |   |
|---|---|
| 1 metal shears (tinner's snips, <i>Am.</i> tinner's shears) | 18 mallet   |
| 2 elbow snips (angle shears)                                | 19 mandrel  |
| 3 gib   | 20 socket (tinner's socket)                                   |
| 4 lapping plate   | 21 block  |
| 5-7 propane soldering apparatus                             | 22 anvil  |
| 5 propane soldering iron, a hatchet iron                    | 23 stake  |
| 6 soldering stone, a sal-ammoniac block                     | 24 circular saw (buzz saw)                                    |
| 7 soldering fluid (flux)                                    | 25 flanging, swaging, and wiring machine                      |
| 8 beading iron for forming reinforcement beading            | 26 sheet shears (guillotine)                                  |
| 9 angled reamer   | 27 screw-cutting machine (thread-cutting machine, die stocks) |
| 10 workbench (bench)  | 28 pipe-bending machine (bending machine, pipe bender)        |
| 11 beam compass (trammel, <i>Am.</i> beam trammel)          | 29 welding transformer  |
| 12 electric hand die  | 30 bending machine (rounding machine) for shaping funnels     |
| 13 hollow punch   |   |
| 14 chamfering hammer  |   |
| 15 beading swage (beading hammer)                           |   |
| 16 abrasive-wheel cutting-off machine                       |   |
| 17 plumber  |   |

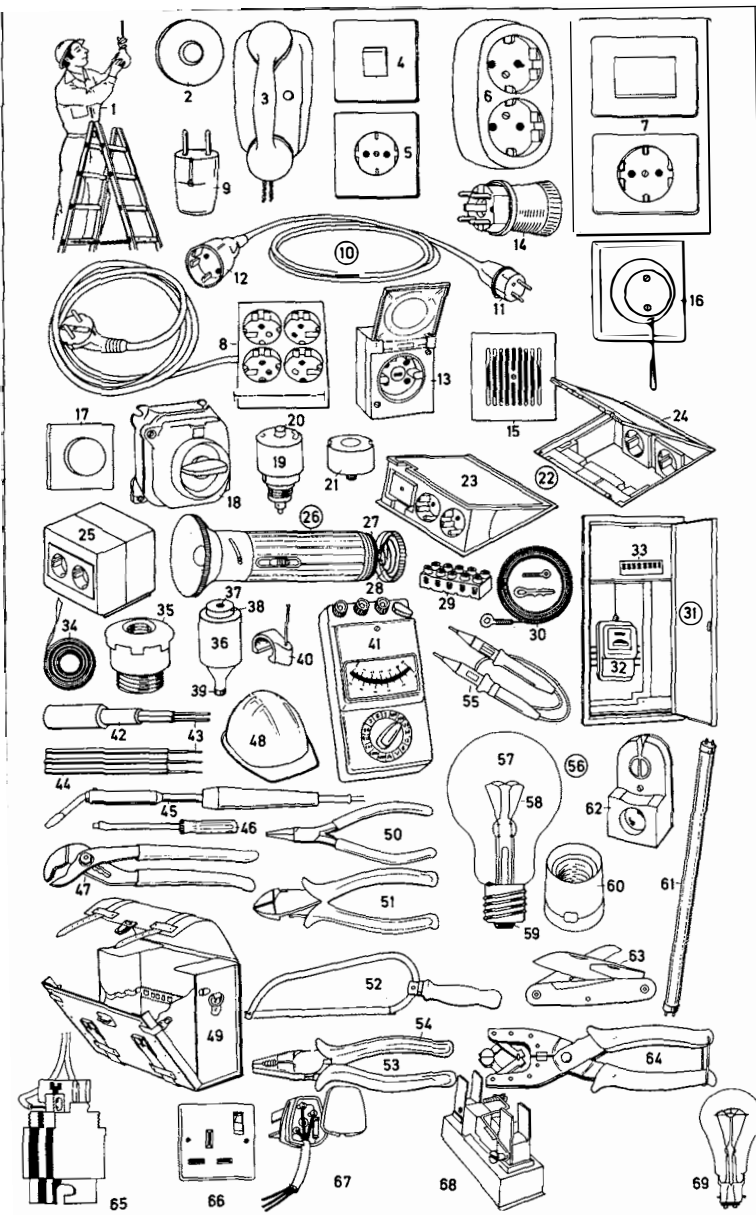
- 1 gas fitter and plumber  
2 stepladder  
3 safety chain  
4 stop valve  
5 gas meter  
6 bracket  
7 service riser  
8 distributing pipe  
9 supply pipe  
10 pipe-cutting machine  
11 pipe repair stand  
**12-25 gas and water appliances**  
**12, 13** geyser, an instantaneous water heater  
12 gas water heater  
13 electric water heater  
14 toilet cistern  
15 float  
16 bell  
17 flush pipe  
18 water inlet  
19 flushing lever (lever)  
20 radiator  
21 radiator rib  
22 two-pipe system  
23 flow pipe  
24 return pipe  
25 gas heater  
**26-37 plumbing fixtures**  
26 trap (anti-syphon trap)  
27 mixer tap (*Am.* mixing faucet) for washbasins  
28 hot tap  
29 cold tap  
30 extendible shower attachment  
31 water tap (pillar tap) for wash-basins  
32 spindle top  
33 shield  
34 draw-off tap (*Am.* faucet)  
35 supatap  
36 swivel tap  
37 flushing valve  
**38-52 fittings**  
38 joint with male thread  
39 reducing socket (reducing coupler)  
40 elbow screw joint (elbow coupling)  
41 reducing socket (reducing coupler) with female thread  
42 screw joint

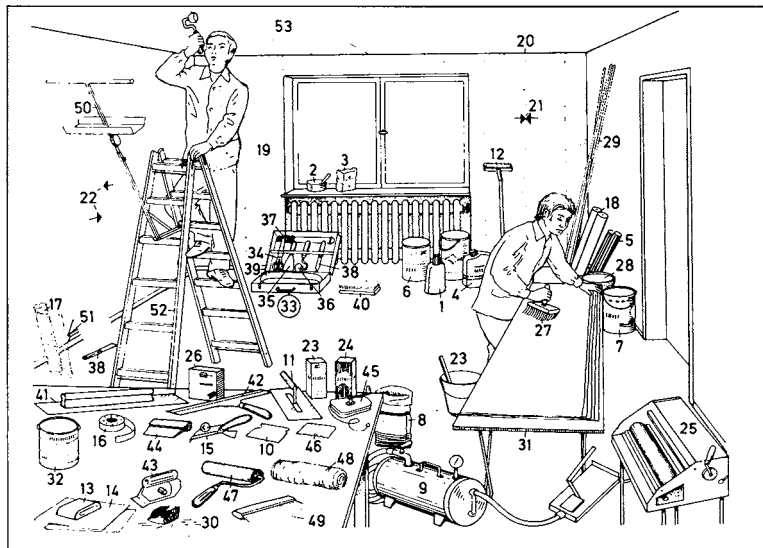
- 43 coupler (socket)  
44 T-joint (T-junction joint, tee)  
45 elbow screw joint with female thread  
46 bend  
47 T-joint (T-junction joint, tee) with female taper thread  
48 ceiling joint  
49 reducing elbow  
50 cross  
51 elbow joint with male thread  
52 elbow joint  
**53-57 pipe supports**  
53 saddle clip  
54 spacing bracket  
55 plug  
56 pipe clips  
57 two-piece spacing clip  
**58-86 plumber's tools, gas fitter's tools**  
58 gas pliers  
59 footprints  
60 combination cutting pliers  
61 water pump pliers  
62 flat-nose pliers  
63 nipple key  
64 round-nose pliers  
65 pincers  
66 adjustable S-wrench  
67 screw wrench  
68 shifting spanner  
69 screwdriver  
70 compass saw (keyhole saw)  
71 hacksaw frame  
72 hand saw  
73 soldering iron  
74 blowlamp (blowtorch) [for soldering]  
75 sealing tape  
76 tin-lead solder  
77 club hammer  
78 hammer  
79 spirit level  
80 steel-leg vice (*Am.* vise)  
81 pipe vice (*Am.* vise)  
82 pipe-bending machine  
83 former (template)  
84 pipe cutter  
85 hand die  
86 screw-cutting machine (thread-cutting machine)



## 127 Electrician

- 1 electrician (electrical fitter, wire-man)
- 2 bell push (doorbell) for low-voltage safety current
- 3 house telephone with call button
- 4 [flush-mounted] rocker switch
- 5 [flush-mounted] earthed socket (wall socket, plug point, *Am.* wall outlet, convenience outlet, outlet)
- 6 [surface-mounted] earthed double socket (double wall socket, double plug point, *Am.* double wall outlet, double convenience outlet, double outlet)
- 7 switched socket (switch and socket)
- 8 four-socket (four-way) adapter
- 9 earthed plug
- 10 extension lead (*Am.* extension cord)
- 11 extension plug
- 12 extension socket
- 13 surface-mounted three-pole earthed socket [for three-phase circuit] with neutral conductor
- 14 three-phase plug
- 15 electric bell (electric buzzer)
- 16 pull-switch (cord-operated wall switch)
- 17 dimmer switch [for smooth adjustment of lamp brightness]
- 18 drill-cast rotary switch
- 19 miniature circuit breaker (screw-in circuit breaker, fuse)
- 20 resetting button
- 21 set screw [for fuses and miniature circuit breakers]
- 22 underfloor mounting (underfloor sockets)
- 23 hinged floor socket for power lines and communication lines
- 24 sunken floor socket with hinged lid (snap lid)
- 25 surface-mounted socket outlet (plug point) box
- 26 pocket torch, a torch (*Am.* flashlight)
- 27 dry cell battery
- 28 contact spring
- 29 strip of thermoplastic connectors
- 30 steel draw-in wire (draw wire) with threading key, and ring attached
- 31 electricity meter cupboard
- 32 electricity meter
- 33 miniature circuit breakers (miniature circuit breaker consumer unit)
- 34 insulating tape (*Am.* friction tape)
- 35 fuse holder
- 36 circuit breaker (fuse), a fuse cartridge with fusible element
- 37 colour (*Am.* color) indicator [showing current rating]
- 38, 39 contact maker
- 40 cable clip
- 41 universal test meter (multiple meter for measuring current and voltage)
- 42 thermoplastic moisture-proof cable
- 43 copper conductor
- 44 three-core cable
- 45 electric soldering iron
- 46 screwdriver
- 47 water pump pliers
- 48 shock-resisting safety helmet
- 49 tool case
- 50 round-nose pliers
- 51 cutting pliers
- 52 junior hacksaw
- 53 combination cutting pliers
- 54 insulated handle
- 55 continuity tester
- 56 electric light bulb (general service lamp, filament lamp)
- 57 glass bulb (bulb)
- 58 coiled-coil filament
- 59 screw base
- 60 lampholder
- 61 fluorescent tube
- 62 bracket for fluorescent tubes
- 63 electrician's knife
- 64 wire strippers
- 65 bayonet fitting
- 66 three-pin socket with switch
- 67 three-pin plug
- 68 fuse carrier with fuse wire
- 69 light bulb with bayonet fitting



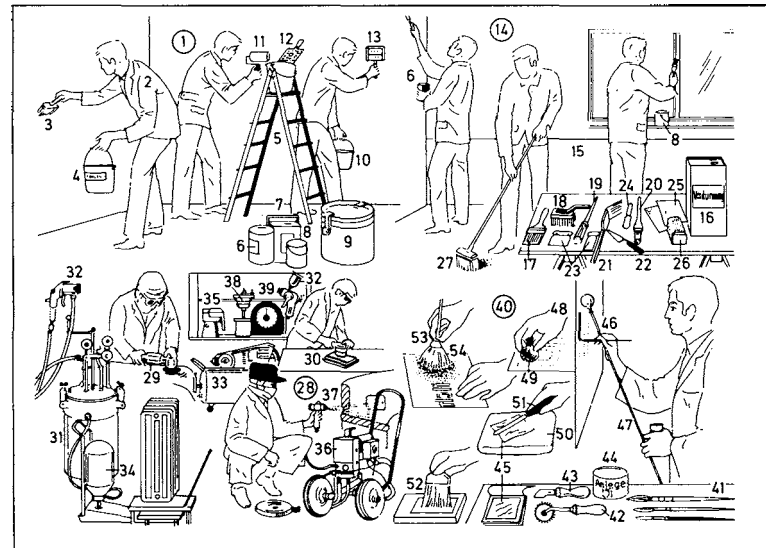
**1-17 preparation of surfaces**

- 1 wallpaper-stripping liquid (stripper)
- 2 plaster (plaster of Paris)
- 3 filler
- 4 glue size (size)
- 5 lining paper, a backing paper
- 6 primer
- 7 fluote
- 8 shredded lining paper
- 9 wallpaper-stripping machine (stripper)
- 10 scraper
- 11 smoother
- 12 perforator
- 13 sandpaper block
- 14 sandpaper
- 15 stripping knife
- 16 masking tape
- 17 strip of sheet metal [on which wallpaper is laid for cutting]

**18-53 wallpapering (paper hanging)**

- 18 wallpaper (*kinds*: wood pulp paper, wood chip paper, fabric wallhangings, synthetic wallpaper, metallic paper, natural (e.g. wood or cork) paper, tapestry wallpaper)
- 19 length of wallpaper
- 20 butted paper edges
- 21 matching edge
- 22 non-matching edge
- 23 wallpaper paste

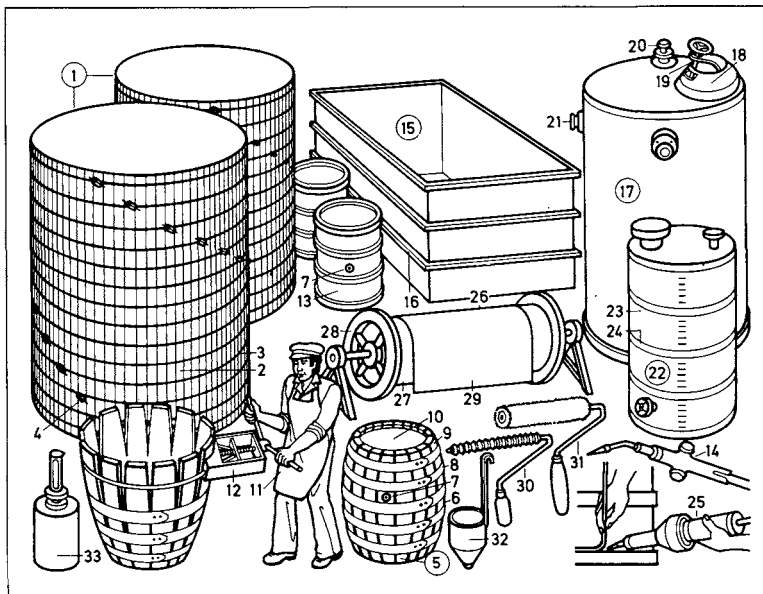
- 24 heavy-duty paste
- 25 pasting machine
- 26 paste [for the pasting machine]
- 27 paste brush
- 28 emulsion paste
- 29 picture rail
- 30 beading pins
- 31 pasteboard (paperhanger's bench)
- 32 gloss finish
- 33 paperhanging kit
- 34 shears (bull-nosed scissors)
- 35 filling knife
- 36 seam roller
- 37 hacking knife
- 38 knife (trimming knife)
- 39 straightedge
- 40 paperhanging brush
- 41 wallpaper-cutting board
- 42 cutter
- 43 trimmer
- 44 plastic spatula
- 45 chalked string
- 46 spreader
- 47 paper roller
- 48 flannel cloth
- 49 dry brush
- 50 ceiling paperhanger
- 51 overlap angle
- 52 paperhanger's trestles
- 53 ceiling paper

**1 painting**

- 1 painting
- 2 painter
- 3 paintbrush
- 4 emulsion paint (emulsion)
- 5 stepladder
- 6 can (tin) of paint
- 7, 8 cans (tins) of paint
- 9 can (tin) with fixed handle
- 10 paint bucket
- 11 paint roller
- 12 grill [for removing excess paint from the roller]
- 13 stippling roller
- 14 varnishing
- 15 oil-painted dado
- 16 canister for thinner
- 17 flat brush for larger surfaces (flat wall brush)
- 18 stippler
- 19 fitch
- 20 cutting-in brush
- 21 radiator brush (flay brush)
- 22 paint scraper
- 23 scraper
- 24 putty knife
- 25 sandpaper
- 26 sandpaper block
- 27 floor brush

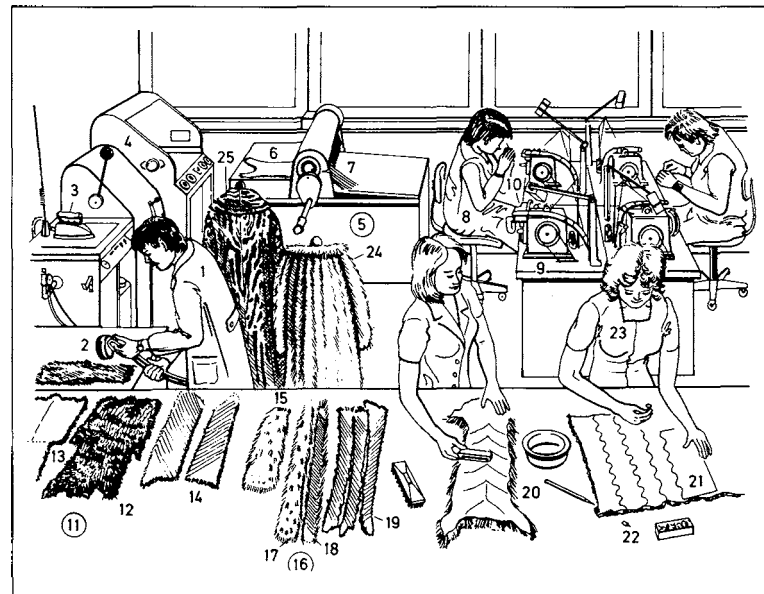
**28 sanding and spraying**

- 28 sanding and spraying
- 29 grinder
- 30 sander
- 31 pressure pot
- 32 spray gun
- 33 compressor (air compressor)
- 34 flow coating machine for flow coating radiators, etc.
- 35 hand spray
- 36 airless spray unit
- 37 airless spray gun
- 38 efflux viscometer
- 39 seconds timer
- 40 lettering and gilding
- 41 lettering brush (signwriting brush, pencil)
- 42 tracing wheel
- 43 stencil knife
- 44 oil gold size
- 45 gold leaf
- 46 outline drawing
- 47 mahlstick
- 48 pouncing
- 49 pounce bag
- 50 gilder's cushion
- 51 gilder's knife
- 52 sizing gold leaf
- 53 filling in the letters with stipple paint
- 54 gilder's mop



### 1-33 cooper's and tank construction engineer's workshops

- |  |  |
|--|--|
| 1 tank   | 18 manhole   |
| 2 circumference made of staves (staved circumference)                                  | 19 manhole cover with handwheel  |
| 3 iron rod   | 20 flange mount  |
| 4 turnbuckle   | 21 flange-type stopcock  |
| 5 barrel (cask)  | 22 measuring tank  |
| 6 body of barrel (of cask)   | 23 shell (circumference)   |
| 7 bunghole   | 24 shrink ring   |
| 8 band (hoop) of barrel  | 25 hot-air gun   |
| 9 barrel stave   | 26 roller made of glass fibre (Am. glass fiber) reinforced synthetic resin |
| 10 barrelhead (heading)  | 27 cylinder  |
| 11 cooper  | 28 flange  |
| 12 trusser   | 29 glass cloth   |
| 13 drum  | 30 grooved roller  |
| 14 gas welding torch   | 31 lambskin roller   |
| 15 staining vat, made of thermoplastics  | 32 ladle for testing viscosity   |
| 16 iron reinforcing bands  | 33 measuring vessel for hardener   |
| 17 storage container, made of glass fibre (Am. glass fiber) reinforced polyester resin |  |



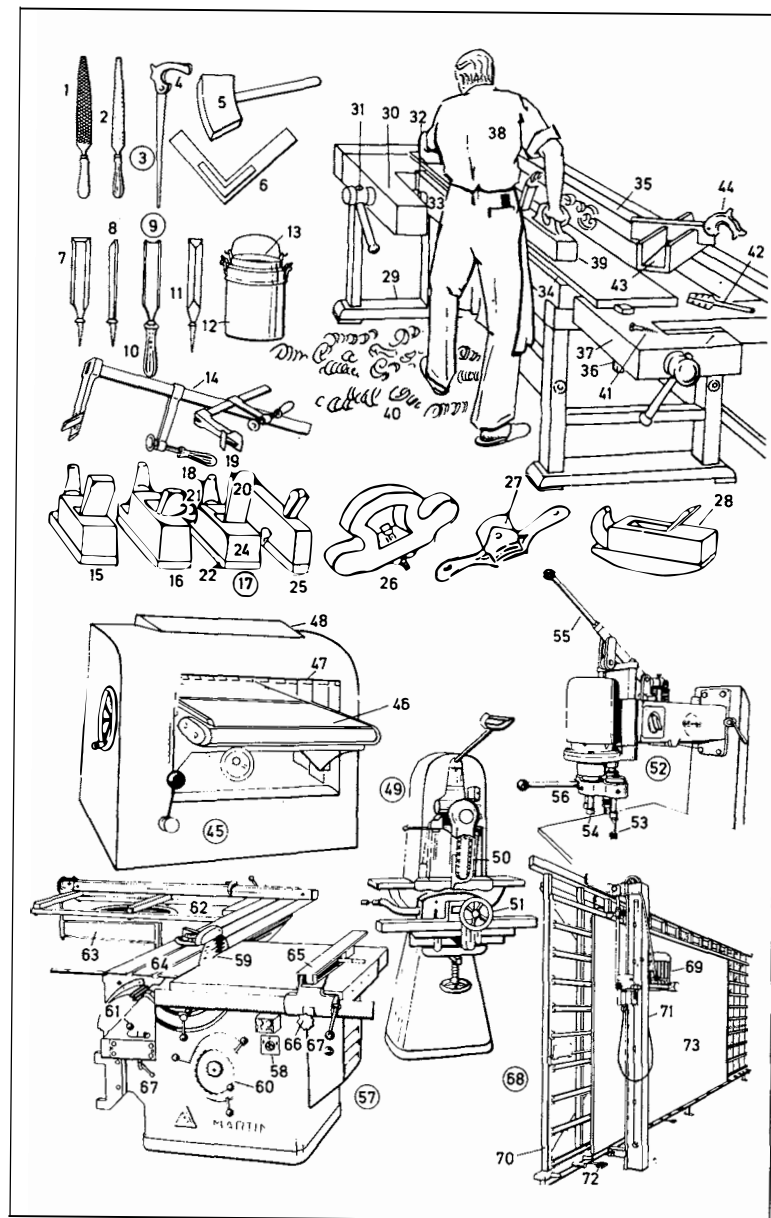
### 1-25 furrier's workroom

- |  |                                   |
|--|-----------------------------------|
| 1 furrier                                  | 20 lynx fur, sewn together (sewn) |
| 2 steam spray gun                          | 21 broadtail                      |
| 3 steam iron                               | 22 fur marker                     |
| 4 beating machine                          | 23 fur worker                     |
| 5 cutting machine for letting out furskins | 24 mink coat                      |
| 6 uncut furskin                            | 25 ocelot coat                    |
| 7 let-out strips (let-out sections)        |                                   |
| 8 fur worker                               |                                   |
| 9 fur-sewing machine                       |                                   |
| 10 blower for letting out                  |                                   |
| 11-21 furskins                             |                                   |
| 11 mink skin                               |                                   |
| 12 fur side                                |                                   |
| 13 leather side                            |                                   |
| 14 cut furskin                             |                                   |
| 15 lynx skin before letting out            |                                   |
| 16 let-out lynx skin                       |                                   |
| 17 fur side                                |                                   |
| 18 leather side                            |                                   |
| 19 let-out mink skin                       |                                   |

**1-73 joiner's workshop****1-28 joiner's tools**

- 1 wood rasp
- 2 wood file
- 3 compass saw (keyhole saw)
- 4 saw handle
- 5 [square-headed] mallet
- 6 try square
- 7-11 chisels**
- 7 bevelled-edge chisel (chisel)
- 8 mortise (mortice) chisel
- 9 gouge
- 10 handle
- 11 framing chisel (cant chisel)
- 12 glue pot in water bath
- 13 glue pot (glue well), an insert for joiner's glue
- 14 handscrew
- 15-28 planes**
- 15 smoothing plane
- 16 jack plane
- 17 toothing plane
- 18 handle (toat)
- 19 wedge
- 20 plane iron (cutter)
- 21 mouth
- 22 sole
- 23 side
- 24 stock (body)
- 25 rebate (rabbet) plane
- 26 router plane (old woman's tooth)
- 27 spokeshave
- 28 compass plane
- 29-37 woodworker's bench**
- 29 foot
- 30 front vice (*Am. vise*)
- 31 vice (*Am. vise*) handle
- 32 vice (*Am. vise*) screw
- 33 jaw
- 34 bench top
- 35 well
- 36 bench stop (bench holdfast)
- 37 tail vice (*Am. vise*)
- 38 cabinet maker (joiner)
- 39 trying plane
- 40 shavings
- 41 wood screw

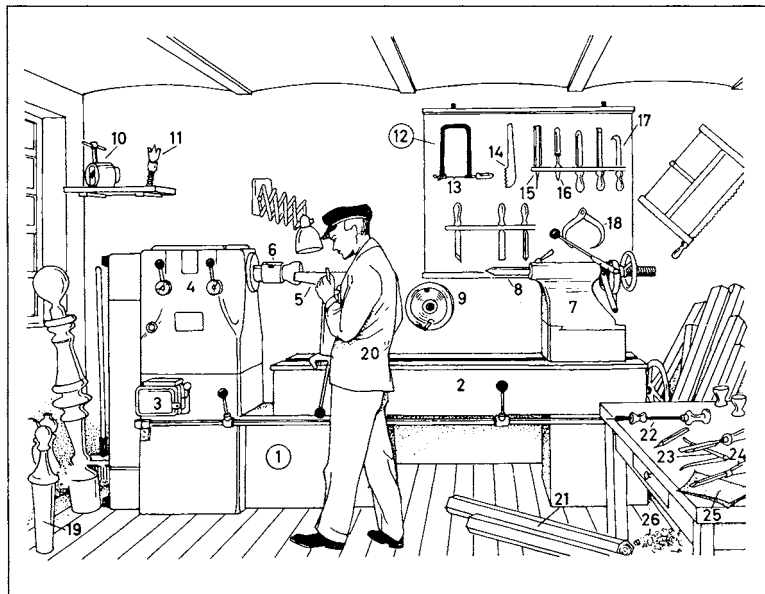
- 42 saw set
- 43 mitre (*Am. miter*) box
- 44 tenon saw
- 45 thicknesser (thicknessing machine)
- 46 thicknessing table with rollers
- 47 kick-back guard
- 48 chip-extractor opening
- 49 chain mortising machine (chain mortiser)
- 50 endless mortising chain
- 51 clamp (work clamp)
- 52 knot hole moulding (*Am. molding*) machine
- 53 knot hole cutter
- 54 quick-action chuck
- 55 hand lever
- 56 change-gear handle
- 57 sizing and edging machine
- 58 main switch
- 59 circular-saw (buzz saw) blade
- 60 height (rise and fall) adjustment wheel
- 61 V-way
- 62 framing table
- 63 extension arm (arm)
- 64 trimming table
- 65 fence
- 66 fence adjustment handle
- 67 clamp lever
- 68 board-sawing machine
- 69 swivel motor
- 70 board support
- 71 saw carriage
- 72 pedal for raising the transport rollers
- 73 blockboard







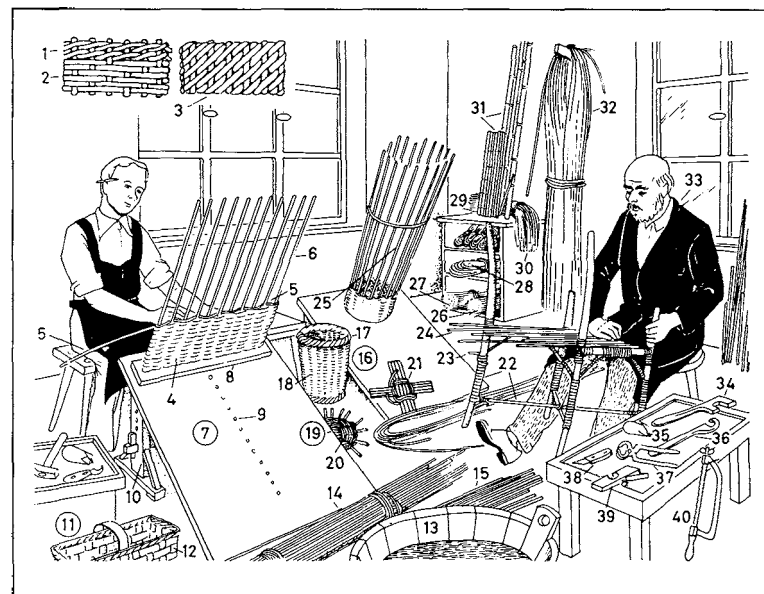


**1-26 turnery (turner's workshop)**

- 1 wood-turning lathe (lathe)
- 2 lathe bed
- 3 starting resistance (starting resistor)
- 4 gearbox
- 5 tool rest
- 6 chuck
- 7 tailstock
- 8 centre (*Am.* center)
- 9 driving plate with pin
- 10 two-jaw chuck
- 11 live centre (*Am.* center)
- 12 fretsaw
- 13 fretsaw blade
- 14, 15, 24 turning tools
- 14 thread chaser, for cutting threads in wood
- 15 gouge, for rough turning
- 16 spoon bit (shell bit)
- 17 hollowing tool
- 18 outside calliper (caliper)
- 19 turned work (turned wood)

**20 master turner (turner)**

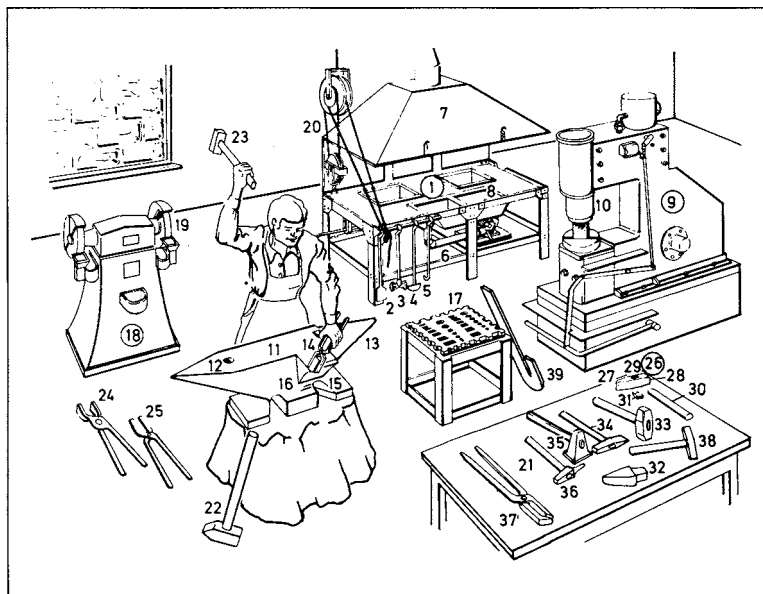
- 21 [piece of] rough wood
- 22 drill
- 23 inside calliper (caliper)
- 24 parting tool
- 25 glass paper (sandpaper, emery paper)
- 26 shavings

**1-40 basket making (basketry, basketwork)****1-4 weaves (strokes)**

- 1 randing
- 2 rib randing
- 3 oblique randing
- 4 randing, a piece of wickerwork (screen work)
- 5 weaver
- 6 stake
- 7 workboard: *also*: lapboard
- 8 screw block
- 9 hole for holding the block
- 10 stand
- 11 chip basket (spale basket)
- 12 chip (spale)
- 13 soaking tub
- 14 willow stakes (osier stakes)
- 15 willow rods (osier rods)
- 16 basket, a piece of wickerwork (basketwork)
- 17 border
- 18 woven side
- 19 round base

**20 woven base****21 slath****22-24 covering a frame**

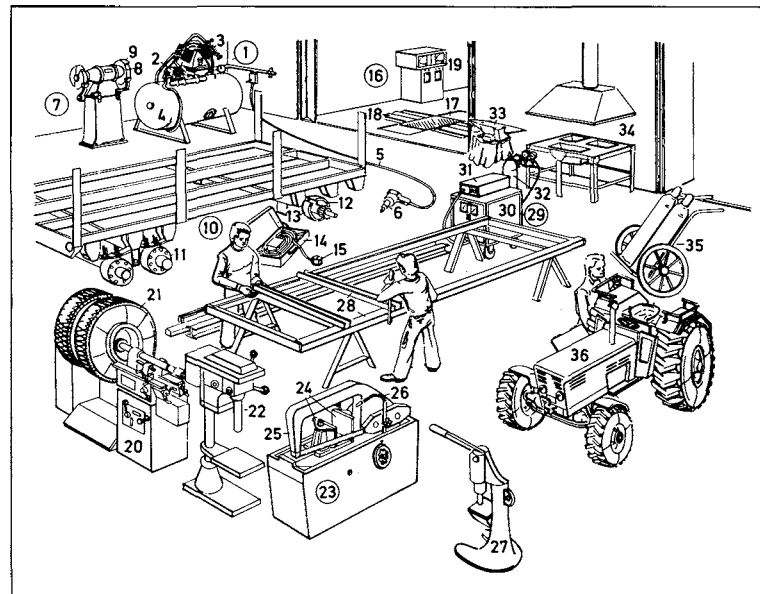
- 22 frame
- 23 end
- 24 rib
- 25 upsett
- 26 grass; *kinds*: esparto grass, alfalfa grass
- 27 rush (bulrush, reed mace)
- 28 reed
- 29 raffia (bast)
- 30 straw
- 31 bamboo cane
- 32 rattan (ratan) chair cane
- 33 basket maker
- 34 bending tool
- 35 cutting point (bodkin)
- 36 rapping iron
- 37 pincers
- 38 picking knife
- 39 shave
- 40 hacksaw



### 1-8 hearth (forge) with blacksmith's fire

- 1 hearth (forge)
- 2 shovel (slice)
- 3 swab
- 4 rake
- 5 poker
- 6 blast pipe (tue iron)
- 7 chimney (cowl, hood)
- 8 water trough (quenching trough, bosh)
- 9 power hammer
- 10 ram (tup)
- 11-16 anvil**
- 11 anvil
- 12 flat beak (beck, bick)
- 13 round beak (beck, bick)
- 14 auxiliary table
- 15 foot
- 16 upsetting block
- 17 swage block
- 18 tool-grinding machine (tool grinder)

- 19 grinding wheel
- 20 block and tackle
- 21 workbench (bench)
- 22-39 blacksmith's tools**
- 22 sledge hammer
- 23 blacksmith's hand hammer
- 24 flat tongs
- 25 round tongs
- 26 parts of the hammer
- 27 peen (pane, pein)
- 28 face
- 29 eye
- 30 haft
- 31 cotter punch
- 32 hardy (hardie)
- 33 set hammer
- 34 sett (set, sate)
- 35 flat-face hammer (flatter)
- 36 round punch
- 37 angle tongs
- 38 blacksmith's chisel (scaling hammer, chipping hammer)
- 39 moving iron (bending iron)

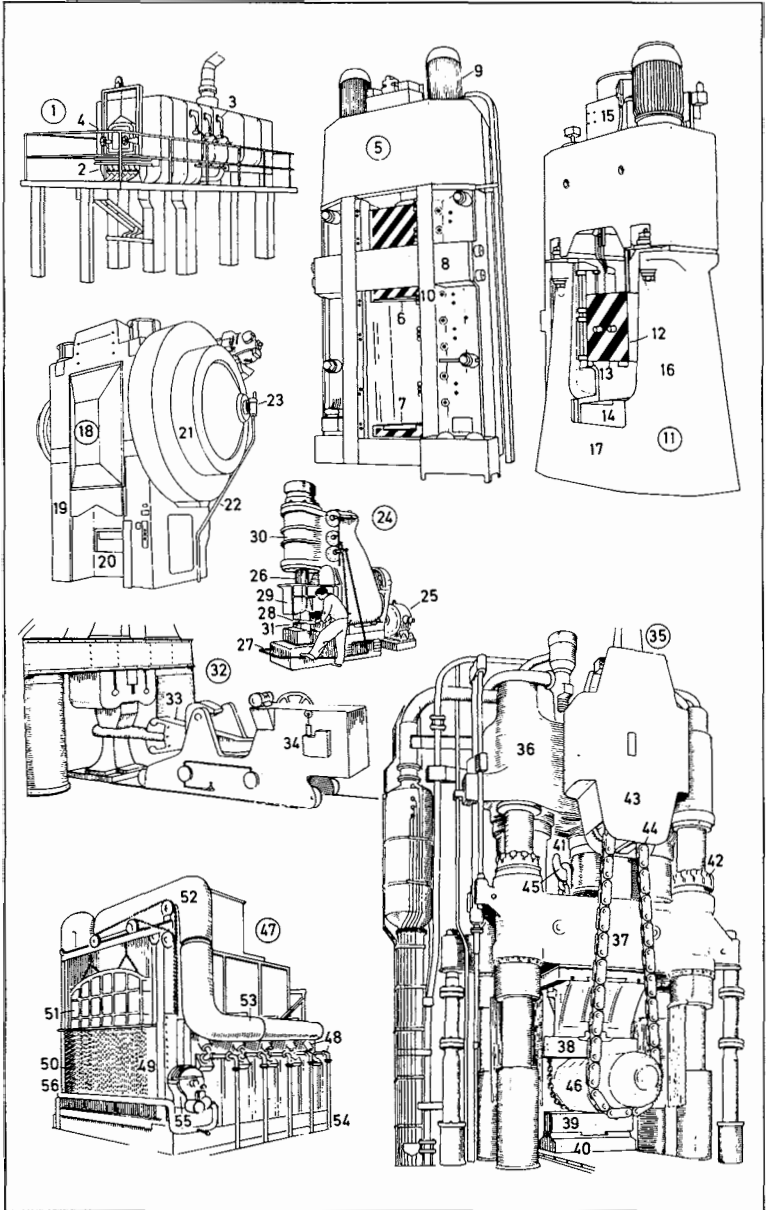


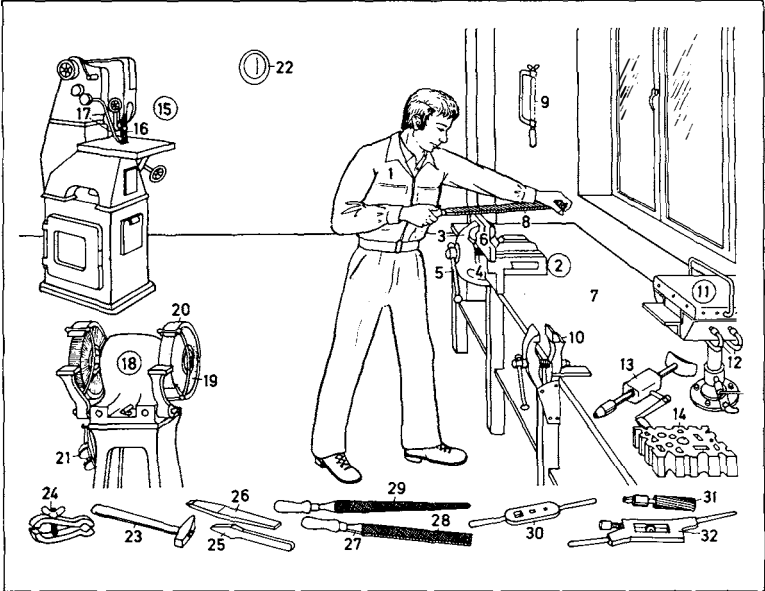
- 1 compressed-air system
- 2 electric motor
- 3 compressor
- 4 compressed-air tank
- 5 compressed-air line
- 6 percussion screwdriver
- 7 pedestal grinding machine (floor grinding machine)
- 8 grinding wheel
- 9 guard
- 10 trailer
- 11 brake drum
- 12 brake shoe
- 13 brake lining
- 14 testing kit
- 15 pressure gauge (Am. gage)
- 16 brake-testing equipment, a rolling road
- 17 pit
- 18 braking roller
- 19 meter (recording meter)
- 20 precision lathe for brake drums
- 21 lorry wheel
- 22 boring mill
- 23 power saw, a hacksaw (power hacksaw)
- 24 vice (Am. vise)
- 25 saw frame
- 26 coolant supply pipe
- 27 riveting machine
- 28 trailer frame (chassis) under construction
- 29 inert-gas welding equipment
- 30 rectifier
- 31 control unit
- 32 CO<sub>2</sub> cylinder
- 33 anvil
- 34 hearth (forge) with blacksmith's fire
- 35 trolley for gas cylinders
- 36 vehicle under repair, a tractor

139 Hammer Forging (Smith Forging) and Drop Forging

- |  |                                    |
|--|------------------------------------|
| 1 continuous furnace with grid hearth for annealing of round stock | 44 burden chain (chain sling)      |
| 2 discharge opening (discharge door)                               | 45 crane hook                      |
| 3 gas burners  | 46 workpiece                       |
| 4 charging door  | 47 gas furnace (gas-fired furnace) |
| 5 counterblow hammer   | 48 gas burner                      |
| 6 upper ram  | 49 charging opening                |
| 7 lower ram  | 50 chain curtain                   |
| 8 ram guide  | 51 vertical-lift door              |
| 9 hydraulic drive  | 52 hot-air duct                    |
| 10 column  | 53 air preheater                   |
| 11 short-stroke drop hammer  | 54 gas pipe                        |
| 12 ram (tup)   | 55 electric door-lifting mechanism |
| 13 upper die block   | 56 air blast                       |
| 14 lower die block   |                                    |
| 15 hydraulic drive   |                                    |
| 16 frame   |                                    |
| 17 anvil   |                                    |
| 18 forging and sizing press  |                                    |
| 19 standard  |                                    |
| 20 table   |                                    |
| 21 disc (disk) clutch  |                                    |
| 22 compressed-air pipe   |                                    |
| 23 solenoid valve  |                                    |
| 24 air-lift gravity hammer (air-lift drop hammer)                  |                                    |
| 25 drive motor   |                                    |
| 26 hammer (tup)  |                                    |
| 27 foot control (foot pedal)                                       |                                    |
| 28 preshaped (blocked) workpiece                                   |                                    |
| 29 hammer guide  |                                    |
| 30 hammer cylinder   |                                    |
| 31 anvil   |                                    |
| 32 mechanical manipulator to move the workpiece in hammer forging  |                                    |
| 33 dogs  |                                    |
| 34 counterweight   |                                    |
| 35 hydraulic forging press   |                                    |
| 36 crown   |                                    |
| 37 cross head  |                                    |
| 38 upper die block   |                                    |
| 39 lower die block   |                                    |
| 40 anvil   |                                    |
| 41 hydraulic piston  |                                    |
| 42 pillar guide  |                                    |
| 43 rollover device   |                                    |

Hammer Forging (Smith Forging) and Drop Forging 139

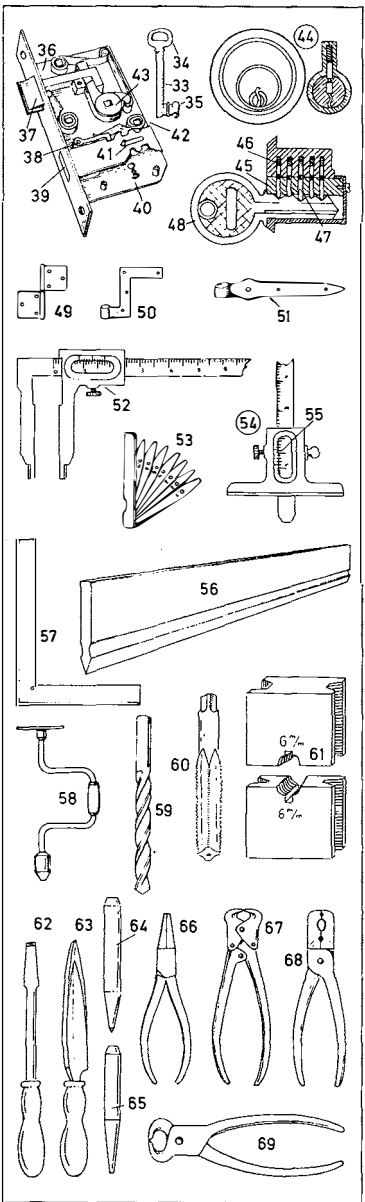


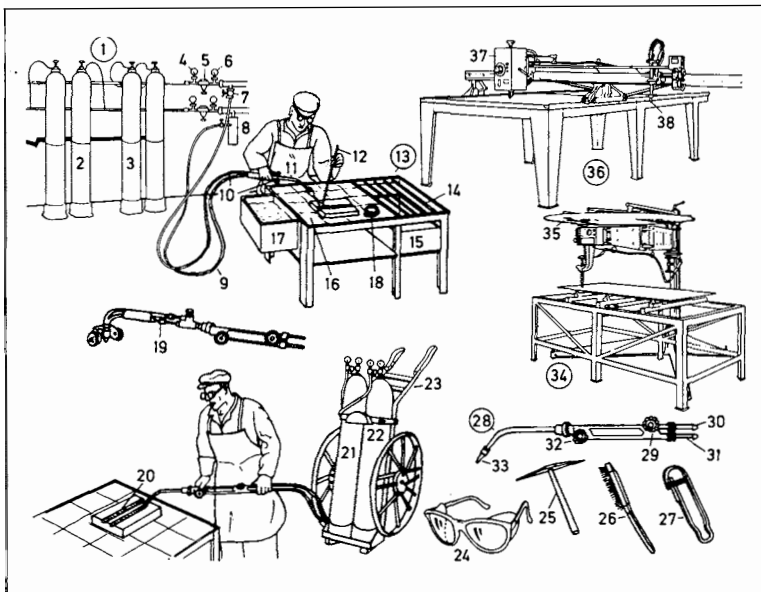


- 1-22 metalwork shop** (mechanic's workshop, fitter's workshop, locksmith's workshop)  
**1** metalworker (*e.g.* mechanic, fitter, locksmith; *form. also:* wrought-iron craftsman)  
**2** parallel-jaw vice (*Am. vise*)  
**3** jaw  
**4** screw  
**5** handle  
**6** workpiece  
**7** workbench (bench)  
**8** files (*kinds:* rough file, smooth file, precision file)  
**9** hacksaw  
**10** leg vice (*Am. vise*), a spring vice  
**11** muffle furnace, a gas-fired furnace  
**12** gas pipe  
**13** hand brace (hand drill)  
**14** swage block  
**15** filing machine  
**16** file  
**17** compressed-air pipe

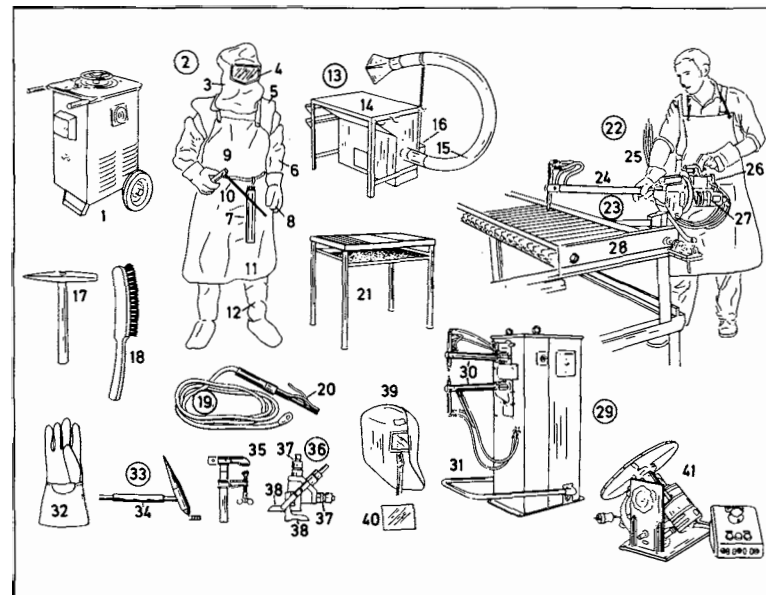
- 18** grinding machine (grinder)  
**19** grinding wheel  
**20** guard  
**21** goggles (safety glasses)  
**22** safety helmet  
**23** machinist's hammer  
**24** hand vice (*Am. vise*)  
**25** cape chisel (cross-cut chisel)  
**26** flat chisel  
**27** flat file  
**28** file cut (cut)  
**29** round file (*also:* half-round file)  
**30** tap wrench  
**31** reamer  
**32** die (die and stock)

- 33-35 key**  
**33** stem (shank)  
**34** bow  
**35** bit  
**36-43 door lock, a mortise (mortice) lock**  
**36** back plate  
**37** spring bolt (latch bolt)  
**38** tumbler  
**39** bolt  
**40** keyhole  
**41** bolt guide pin  
**42** tumbler spring  
**43** follower, with square hole  
**44** cylinder lock (safety lock)  
**45** cylinder (plug)  
**46** spring  
**47** pin  
**48** safety key, a flat key  
**49** lift-off hinge  
**50** hook-and-ride band  
**51** strap hinge  
**52** vernier calliper (caliper) gauge (*Am. gage*)  
**53** feeler gauge (*Am. gage*)  
**54** vernier depth gauge (*Am. gage*)  
**55** vernier  
**56** straightedge  
**57** square  
**58** breast drill  
**59** twist bit (twist drill)  
**60** screw tap (tap)  
**61** halves of a screw die  
**62** screwdriver  
**63** scraper (*also:* pointed triangle scraper)  
**64** centre (*Am. center*) punch  
**65** round punch  
**66** flat-nose pliers  
**67** detachable-jaw cut nippers  
**68** gas pliers  
**69** pincers





- |   |  |
|---|--|
| 1 gas cylinder manifold   | 21 oxygen cylinder                       |
| 2 acetylene cylinder  | 22 acetylene cylinder                    |
| 3 oxygen cylinder   | 23 cylinder trolley                      |
| 4 high-pressure manometer   | 24 welding goggles                       |
| 5 pressure-reducing valve (reducing valve, pressure regulator)        | 25 chipping hammer                       |
| 6 low-pressure manometer  | 26 wire brush                            |
| 7 stop valve  | 27 torch lighter (blowpipe lighter)      |
| 8 hydraulic back-pressure valve for low-pressure installations        | 28 welding torch (blowpipe)              |
| 9 gas hose  | 29 oxygen control                        |
| 10 oxygen hose  | 30 oxygen connection                     |
| 11 welding torch (blowpipe)   | 31 gas connection (acetylene connection) |
| 12 welding rod (filler rod)   | 32 gas control (acetylene control)       |
| 13 welding bench  | 33 welding nozzle                        |
| 14 grating  | 34 cutting machine                       |
| 15 scrap box  | 35 circular template                     |
| 16 bench covering of chamotte slabs                                   | 36 universal cutting machine             |
| 17 water tank   | 37 tracing head                          |
| 18 welding paste (flux)   | 38 cutting nozzle                        |
| 19 welding torch (blowpipe) with cutting attachment and guide tractor |  |
| 20 workpiece  |  |

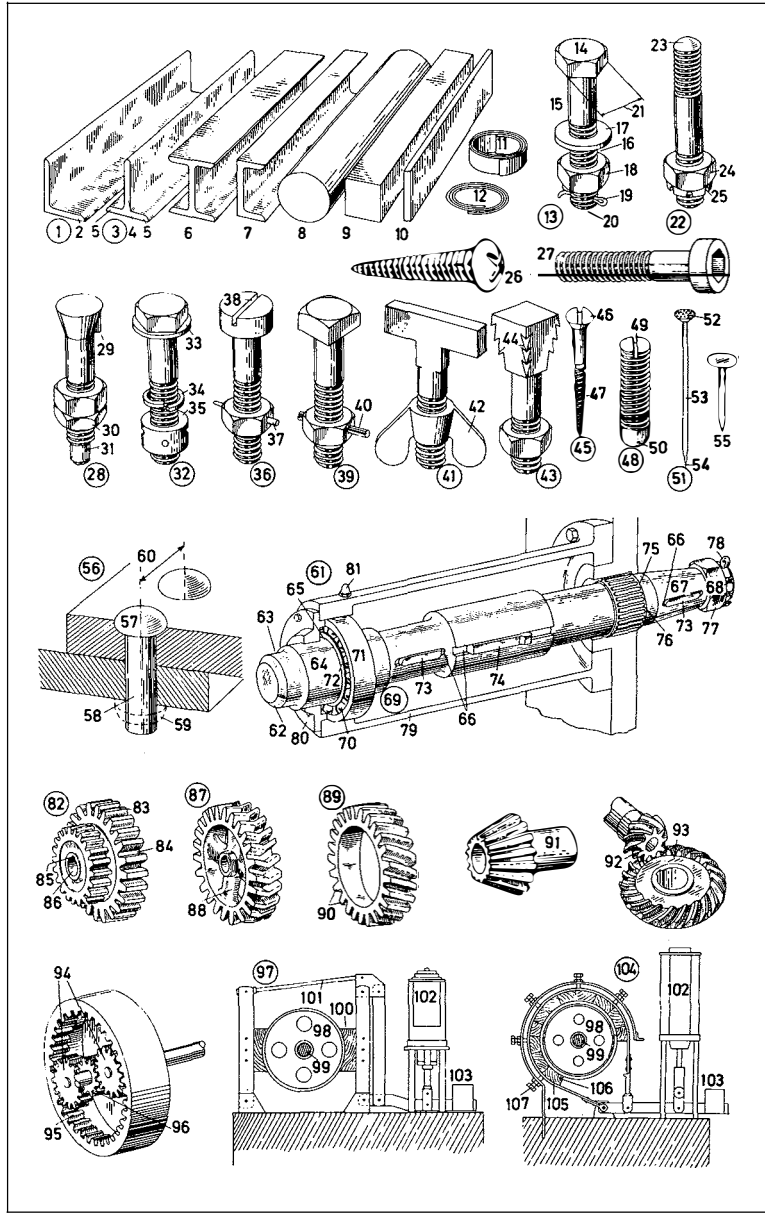


- |  |   |
|--|---|
| 1 welding transformer                                  | 23 spot welding electrode holder  |
| 2 <b>arc welder</b>                                    | 24 electrode arm  |
| 3 arc welding helmet                                   | 25 power supply (lead)  |
| 4 flip-up window                                       | 26 electrode-pressure cylinder  |
| 5 shoulder guard                                       | 27 welding transformer  |
| 6 protective sleeve                                    | 28 workpiece  |
| 7 electrode case                                       | 29 foot-operated spot welder  |
| 8 three-fingered welding glove                         | 30 welder electrode arms  |
| 9 electrode holder                                     | 31 foot pedal for welding pressure adjustment                                     |
| 10 electrode   | 32 five-fingered welding glove  |
| 11 leather apron                                       | 33 inert-gas torch for inert-gas welding (gas-shielded arc welding)               |
| 12 shin guard  | 34 inert-gas (shielding-gas) supply   |
| 13 <b>welding table with fume extraction equipment</b> | 35 work clamp (earthing clamp)  |
| 14 table top   | 36 fillet gauge ( <i>Am. gage</i> ) (weld gauge) [for measuring throat thickness] |
| 15 movable extractor duct                              | 37 micrometer   |
| 16 extractor support                                   | 38 measuring arm  |
| 17 chipping hammer                                     | 39 arc welding helmet   |
| 18 wire brush  | 40 filter lens  |
| 19 welding lead  | 41 small turntable  |
| 20 electrode holder                                    |   |
| 21 welding bench                                       |   |
| 22 <b>spot welding</b>                                 |   |

[material: steel, brass, aluminium (*Am.* aluminium), plastics, etc.; in the following, steel was chosen as an example]

- 1 angle iron (angle)
- 2 leg (flange)
- 3-7 steel girders
- 3 T-iron (tee-iron)
- 4 vertical leg
- 5 flange
- 6 H-girder (H-beam)
- 7 E-channel (channel iron)
- 8 round bar
- 9 square iron (*Am.* square stock)
- 10 flat bar
- 11 strip steel
- 12 iron wire
- 13-50 screws and bolts
- 13 hexagonal-head bolt
- 14 head
- 15 shank
- 16 thread
- 17 washer
- 18 hexagonal nut
- 19 split pin
- 20 rounded end
- 21 width of head (of flats)
- 22 stud
- 23 point (end)
- 24 castle nut (castellated nut)
- 25 hole for the split pin
- 26 cross-head screw, a sheet-metal screw (self-tapping screw)
- 27 hexagonal socket head screw
- 28 countersunk-head bolt
- 29 catch
- 30 locknut (locking nut)
- 31 bolt (pin)
- 32 collar-head bolt
- 33 set collar (integral collar)
- 34 spring washer (washer)
- 35 round nut, an adjusting nut
- 36 cheese-head screw, a slotted screw
- 37 tapered pin
- 38 screw slot (screw slit, screw groove)
- 39 square-head bolt
- 40 grooved pin, a cylindrical pin
- 41 T-head bolt
- 42 wing nut (fly nut, butterfly nut)
- 43 rag bolt
- 44 barb
- 45 wood screw
- 46 countersunk head
- 47 wood screw thread
- 48 grub screw
- 49 pin slot (pin slit, pin groove)
- 50 round end
- 51 nail (wire nail)
- 52 head
- 53 shank
- 54 point
- 55 roofing nail

- 56 riveting (lap riveting)
- 57-60 rivet
- 57 set head (swage head, die head), a rivet head
- 58 rivet shank
- 59 closing head
- 60 pitch of rivets
- 61 shaft
- 62 chamfer (bevel)
- 63 journal
- 64 neck
- 65 seat
- 66 keyway
- 67 conical seat (cone)
- 68 thread
- 69 ball bearing, an antifriction bearing
- 70 steel ball (ball)
- 71 outer race
- 72 inner race
- 73, 74 keys
- 73 sunk key (feather)
- 74 gib (gib-headed key)
- 75, 76 needle roller bearing
- 75 needle cage
- 76 needle
- 77 castle nut (castellated nut)
- 78 split pin
- 79 casing
- 80 casing cover
- 81 grease nipple (lubricating nipple)
- 82-96 gear wheels, cog wheels
- 82 stepped gear wheel
- 83 cog (tooth)
- 84 space between teeth
- 85 keyway (key seat, key slot)
- 86 bore
- 87 herringbone gear wheel
- 88 spoke (arm)
- 89 helical gearing (helical spur wheel)
- 90 sprocket
- 91 bevel gear wheel (bevel wheel)
- 92, 93 spiral toothings
- 92 pinion
- 93 crown wheel
- 94-96 epicyclic gear (planetary gear)
- 94 planet wheels
- 95 internal gear
- 96 sun wheel (sun gear)
- 97-107 absorption dynamometer
- 97 shoe brake (check brake, block brake)
- 98 brake pulley
- 99 brake shaft (brake axle)
- 100 brake block (brake shoe)
- 101 pull rod
- 102 brake magnet
- 103 brake weight
- 104 band brake
- 105 brake band
- 106 brake lining
- 107 adjusting screw, for even application of the brake

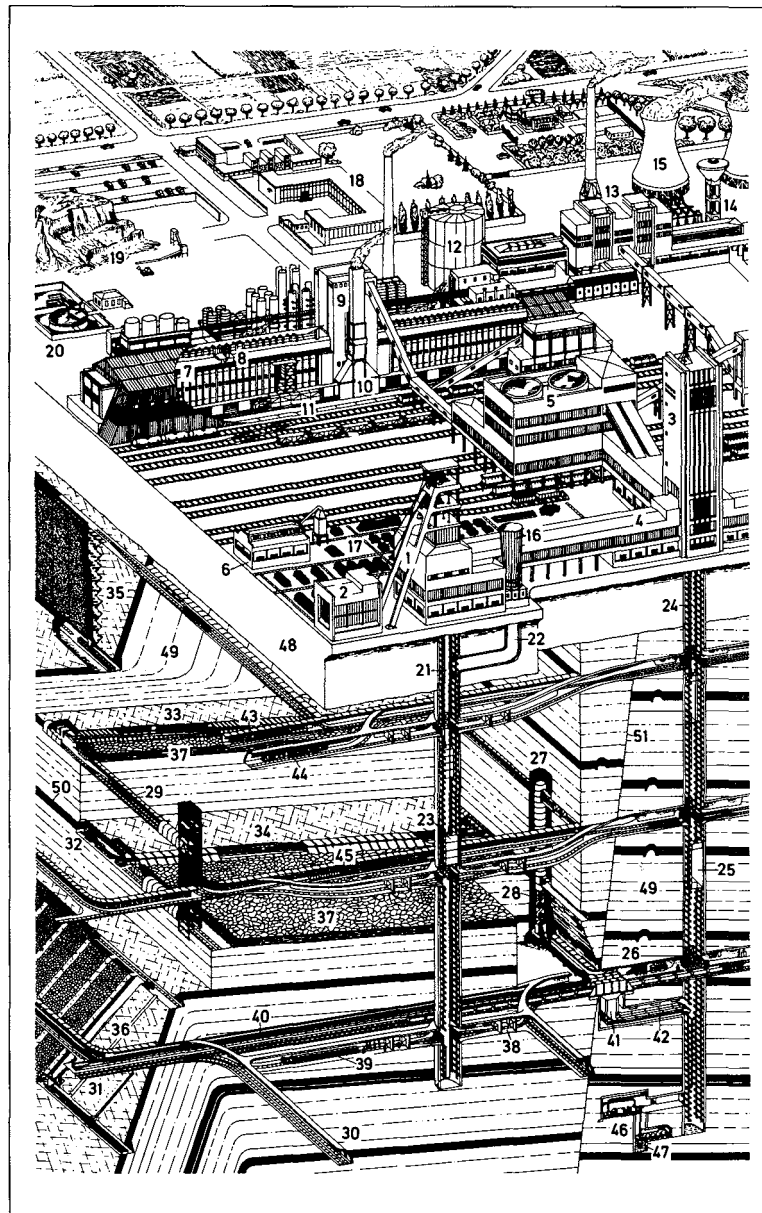


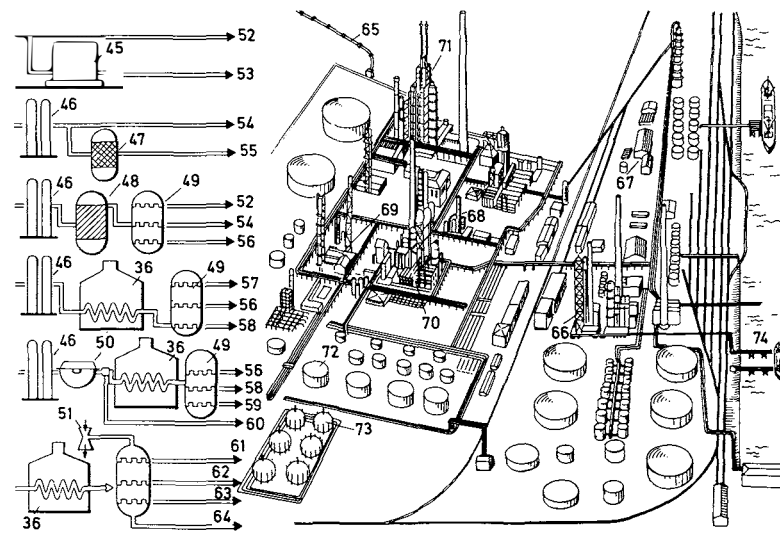
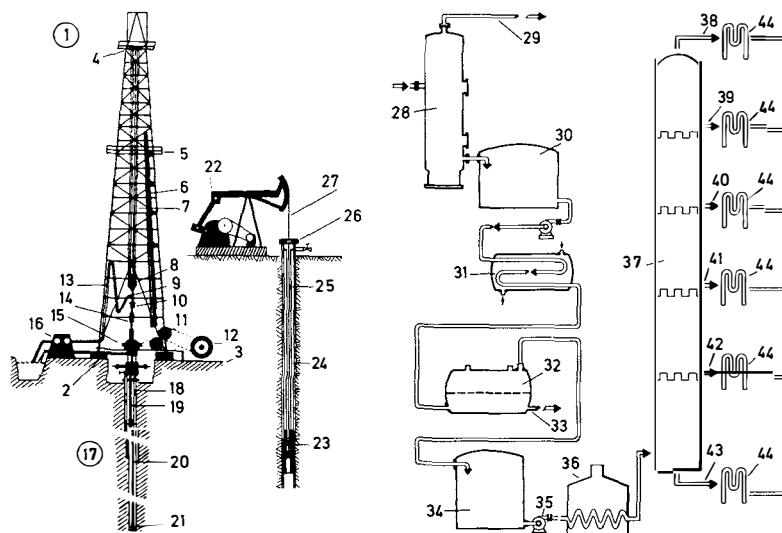


**1-51 coal mine** (colliery, pit)

- 1 pithead gear (headgear)
- 2 winding engine house
- 3 pithead frame (head frame)
- 4 pithead building
- 5 processing plant
- 6 sawmill
- 7-11 coking plant**
- 7 battery of coke ovens
- 8 larry car (larry, charging car)
- 9 coking coal tower
- 10 coke-quenching tower
- 11 coke-quenching car
- 12 gasometer
- 13 power plant (power station)
- 14 water tower
- 15 cooling tower
- 16 mine fan
- 17 depot
- 18 administration building (office building, offices)
- 19 tip heap (spoil heap)
- 20 cleaning plant
- 21-51 underground workings** (underground mining)
- 21 ventilation shaft
- 22 fan drift
- 23 cage-winding system with cages
- 24 main shaft
- 25 skip-winding system
- 26 winding inset
- 27 staple shaft
- 28 spiral chute
- 29 gallery along seam
- 30 lateral
- 31 cross-cut
- 32 tunnelling (*Am.* tunneling) machine
- 33-37 longwall faces**
- 33 horizontal ploughed longwall face
- 34 horizontal cut longwall face
- 35 vertical pneumatic pick longwall face
- 36 diagonal ram longwall face
- 37 goaf (gob, waste)
- 38 air lock
- 39 transportation of men by cars

- 40 belt conveying
- 41 raw coal bunker
- 42 charging conveyor
- 43 transportation of supplies by monorail car
- 44 transportation of men by monorail car
- 45 transportation of supplies by mine car
- 46 drainage
- 47 sump (sink)
- 48 capping
- 49 [layer of] coal-bearing rock
- 50 coal seam
- 51 fault



**1-21 oil drilling**

- 1 drilling rig
- 2 substructure
- 3 crown safety platform
- 4 crown blocks
- 5 working platform, an intermediate platform
- 6 drill pipes
- 7 drilling cable (drilling line)
- 8 travelling (*Am.* traveling) block
- 9 hook
- 10 [rotary] swivel
- 11 hoist
- 12 engine
- 13 standpipe and rotary hose
- 14 kelly
- 15 rotary table
- 16 slush pump (mud pump)
- 17 well
- 18 casing
- 19 drilling pipe
- 20 tubing
- 21 drilling bit; *kinds*: fishtail (blade) bit, rock (*Am.* roller) bit, core bit

**22-27 oil (crude oil) production**

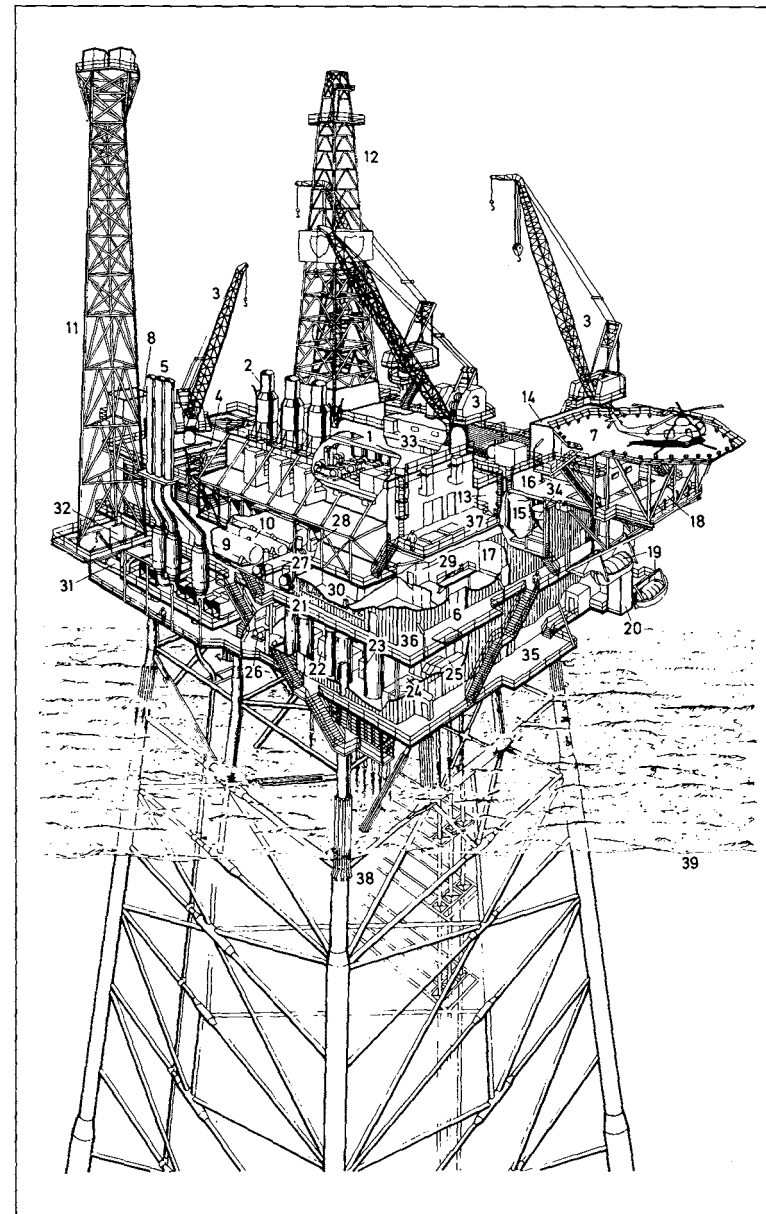
- 22 pumping unit (pump)
- 23 plunger
- 24 tubing
- 25 sucker rods (pumping rods)
- 26 stuffing box
- 27 polish (polished) rod
- 28-35 **treatment of crude oil** [diagram]
- 28 gas separator
- 29 gas pipe (gas outlet)
- 30 wet oil tank (wash tank)
- 31 water heater
- 32 water and brine separator
- 33 salt water pipe (salt water outlet)
- 34 oil tank
- 35 trunk pipeline for oil [to the refinery or transport by tanker lorry (*Am.* tank truck), oil tanker or pipeline]
- 36-64 **processing of crude oil** [diagram]
- 36 oil furnace (pipe still)
- 37 fractionating column (distillation column) with trays
- 38 top gases (tops)

- 39 light distillation products
- 40 heavy distillation products
- 41 petroleum
- 42 gas oil component
- 43 residue
- 44 condenser (cooler)
- 45 compressor
- 46 desulphurizing (desulphurization, *Am.* desulfurizing, desulfurization) plant
- 47 reformer (hydroformer, platformer)
- 48 catalytic cracker (cat cracker)
- 49 distillation column
- 50 de-waxing (wax separation)
- 51 vacuum equipment
- 52-64 **oil products**
- 52 fuel gas
- 53 liquefied petroleum gas (liquid gas)
- 54 regular grade petrol (*Am.* gasoline)
- 55 super grade petrol (*Am.* gasoline)
- 56 diesel oil

- 57 aviation fuel
- 58 light fuel oil
- 59 heavy fuel oil
- 60 paraffin (paraffin oil, kerosene)
- 61 spindle oil
- 62 lubricating oil
- 63 cylinder oil
- 64 bitumen
- 65-74 **oil refinery**
- 65 pipeline (oil pipeline)
- 66 distillation plants
- 67 lubricating oil refinery
- 68 desulphurizing (desulphurization, *Am.* desulfurizing, desulfurization) plant
- 69 gas-separating plant
- 70 catalytic cracking plant
- 71 catalytic reformer
- 72 storage tank
- 73 spherical tank
- 74 tanker terminal

**1-39 drilling rig (oil rig)****1-37 drilling platform**

- 1 power station
- 2 generator exhausts
- 3 revolving crane (pedestal crane)
- 4 piperack
- 5 turbine exhausts
- 6 materials store
- 7 helicopter deck (heliport deck, heliport)
- 8 elevator
- 9 production oil and gas separator
- 10 test oil and gas separators (test separators)
- 11 emergency flare stack
- 12 derrick
- 13 diesel tank
- 14 office building
- 15 cement storage tanks
- 16 drinking water tank
- 17 salt water tank
- 18 jet fuel tanks
- 19 lifeboats
- 20 elevator shaft
- 21 compressed-air reservoir
- 22 pumping station
- 23 air compressor
- 24 air lock
- 25 seawater desalination plant
- 26 inlet filters for diesel fuel
- 27 gas cooler
- 28 control panel for the separators
- 29 toilets (lavatories)
- 30 workshop
- 31 pig trap [the 'pig' is used to clean the oil pipeline]
- 32 control room
- 33 accommodation modules (accommodation)
- 34 high-pressure cementing pumps
- 35 lower deck
- 36 middle deck
- 37 top deck (main deck)
- 38 substructure
- 39 mean sea level



1-20 blast furnace plant

- 1 blast furnace, a shaft furnace
- 2 furnace incline (lift) for ore and flux or coke
- 3 skip hoist
- 4 charging platform
- 5 receiving hopper
- 6 bell
- 7 blast furnace shaft
- 8 smelting section
- 9 slag escape
- 10 slag ladle
- 11 pig iron (crude iron, iron) runout
- 12 pig iron (crude iron, iron) ladle
- 13 downtake
- 14 dust catcher, a dust-collecting machine
- 15 hot-blast stove
- 16 external combustion chamber
- 17 blast main
- 18 gas pipe
- 19 hot-blast pipe
- 20 tuyère

21-69 steelworks

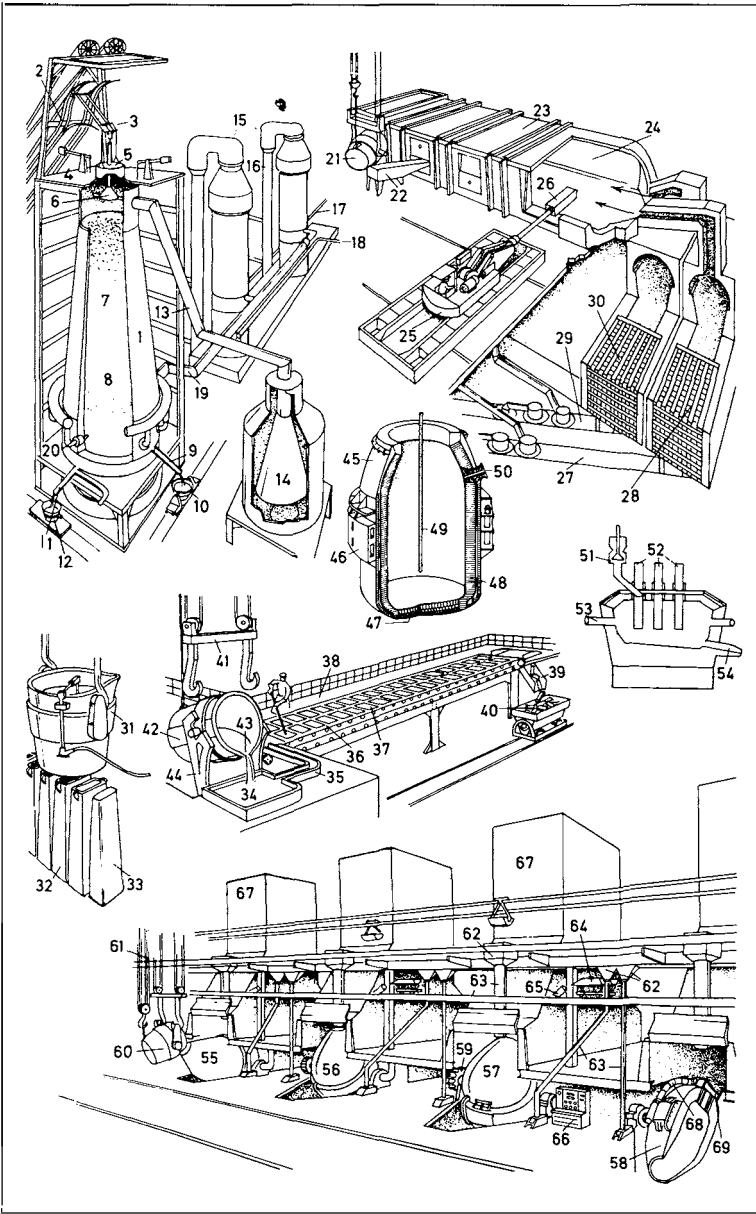
21-30 Siemens-Martin open-hearth furnace

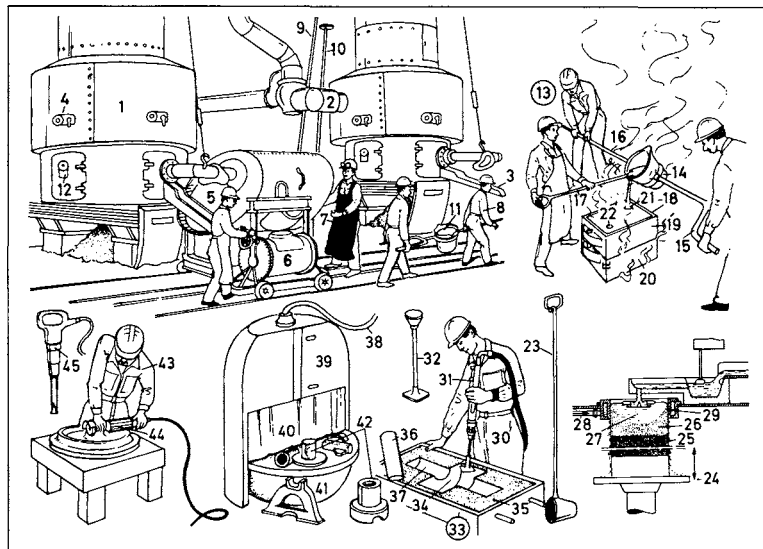
- 21 pig iron (crude iron, iron) ladle
- 22 feed runner
- 23 stationary furnace
- 24 hearth
- 25 charging machine
- 26 scrap iron charging box
- 27 gas pipe
- 28 gas regenerator chamber
- 29 air feed pipe
- 30 air regenerator chamber
- 31 [bottom-pouring] steel-casting ladle with stopper
- 32 ingot mould (*Am. mold*)
- 33 steel ingot

34-44 pig-casting machine

- 34 pouring end
- 35 metal runner
- 36 series (strand) of moulds (*Am. molds*)
- 37 mould (*Am. mold*)
- 38 catwalk

- 39 discharging chute
- 40 pig
- 41 travelling (*Am. traveling*) crane
- 42 top-pouring pig iron (crude iron, iron) ladle
- 43 pouring ladle lip
- 44 tilting device (tipping device, *Am. dumping device*)
- 45-50 oxygen-blowing converter (*L-D converter, Linz-Donawitz converter*)
- 45 conical converter top
- 46 mantle
- 47 solid converter bottom
- 48 fireproof lining (refractory lining)
- 49 oxygen lance
- 50 tapping hole (tap hole)
- 51-54 Siemens electric low-shaft furnace
- 51 feed
- 52 electrodes [arranged in a circle]
- 53 bustle pipe
- 54 runout
- 55-69 Thomas converter (basic Bessemer converter)
- 55 charging position for molten pig iron
- 56 charging position for lime
- 57 blow position
- 58 discharging position
- 59 tilting device (tipping device, *Am. dumping device*)
- 60 crane-operated ladle
- 61 auxiliary crane hoist
- 62 lime bunker
- 63 downpipe
- 64 tipping car (*Am. dump truck*)
- 65 scrap iron feed
- 66 control desk
- 67 converter chimney
- 68 blast main
- 69 wind box



**1-45 iron foundry****1-12 melting plant**

- 1 cupola furnace (cupola), a melting furnace
- 2 blast main (blast inlet, blast pipe)
- 3 tapping spout
- 4 spyhole
- 5 tilting-type [hot-metal] receiver
- 6 mobile drum-type ladle
- 7 melter
- 8 founder (caster)
- 9 tap bar (tapping bar)
- 10 bott stick (*Am.* bot stick)
- 11 molten iron
- 12 slag spout
- 13 casting team
- 14 hand shank
- 15 double handle (crutch)
- 16 carrying bar
- 17 skimmer rod
- 18 closed moulding (*Am.* molding) box
- 19 upper frame (cope)
- 20 lower frame (drag)
- 21 runner (runner gate, down-gate)

**22 riser (riser gate)****23 hand ladle****24-29 continuous casting**

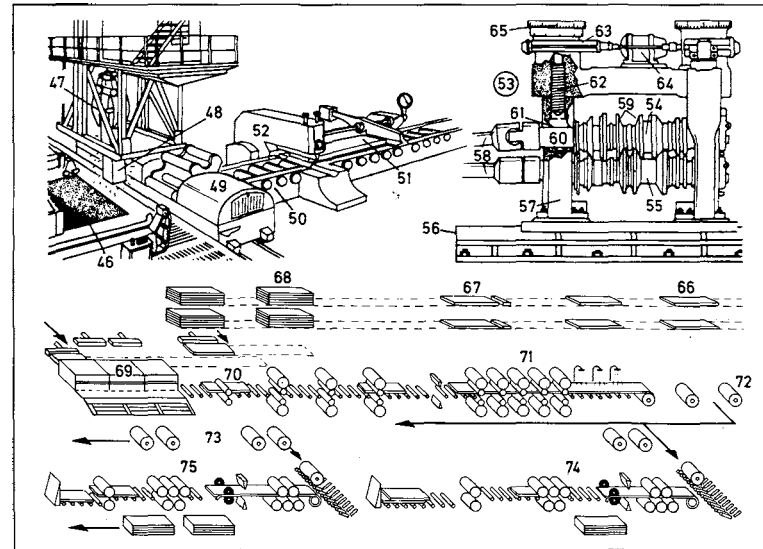
- 24 sinking pouring floor
- 25 solidifying pig
- 26 solid stage
- 27 liquid stage
- 28 water-cooling system
- 29 mould (*Am.* mold) wall

**30-37 moulding (*Am.* molding) department (moulding shop)**

- 30 moulder (*Am.* molder)
- 31 pneumatic rammer
- 32 hand rammer
- 33 open moulding (*Am.* molding) box
- 34 pattern
- 35 moulding (*Am.* molding) sand
- 36 core
- 37 core print

**38-45 cleaning shop (fettling shop)**

- 38 steel grit or sand delivery pipe
- 39 rotary-table shot-blasting machine
- 40 grit guard
- 41 revolving table
- 42 casting

**43 fettler****44 pneumatic grinder****45 pneumatic chisel****46-75 rolling mill**

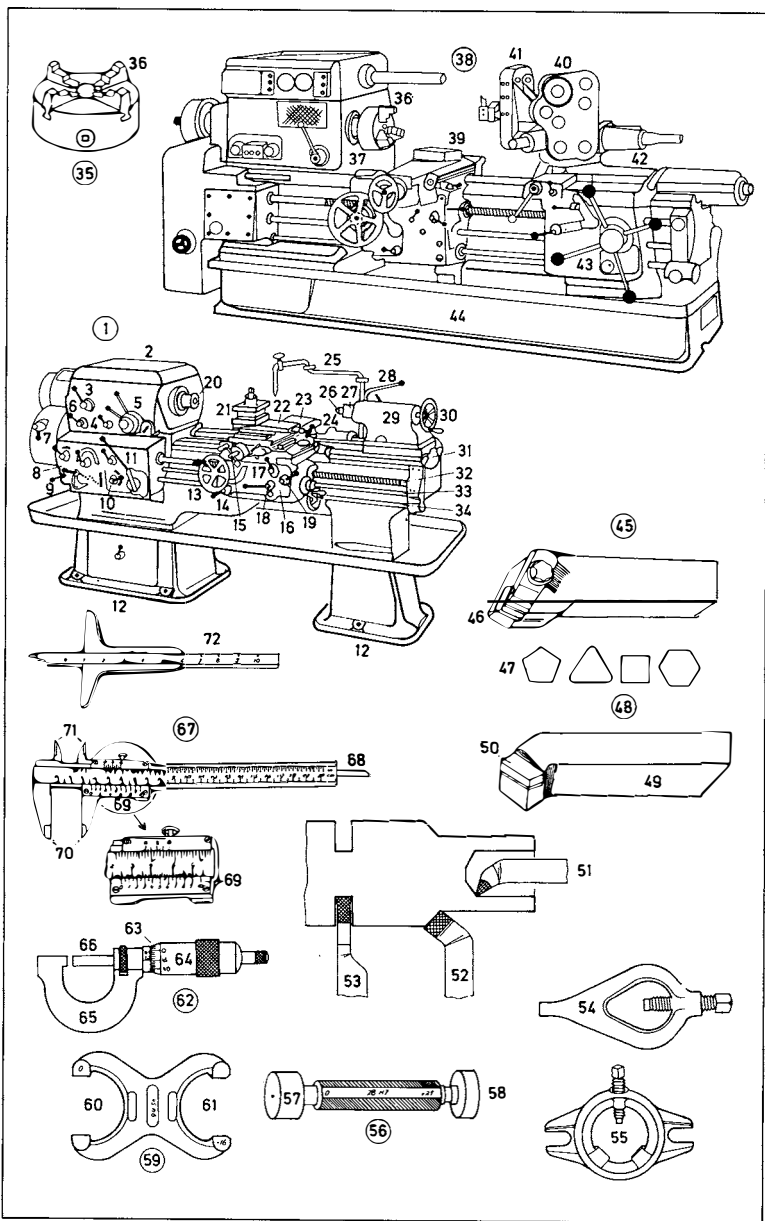
- 46 soaking pit
- 47 soaking pit crane
- 48 ingot
- 49 ingot tipper
- 50 roller table
- 51 workpiece
- 52 bloom shears
- 53 two-high mill
- 54 upper roll (upper roller)
- 55 lower roll (lower roller)
- 56-60 roll stand
- 56 base plate
- 57 housing (frame)
- 58 coupling spindle
- 59 groove
- 60 roll bearing
- 61-65 adjusting equipment
- 61 chock
- 62 main screw
- 63 gear

**64 motor****65 indicator for rough and fine adjustment****66-75 continuous rolling mill train for the manufacture of strip [diagram]**

- 66-68 processing of semi-finished product
- 66 semi-finished product
- 67 gas cutting installation
- 68 stack of finished steel sheets
- 69 continuous reheating furnaces
- 70 blooming train
- 71 finishing train
- 72 coiler
- 73 stock of coils for sale
- 74 5 mm shearing train
- 75 10 mm shearing train

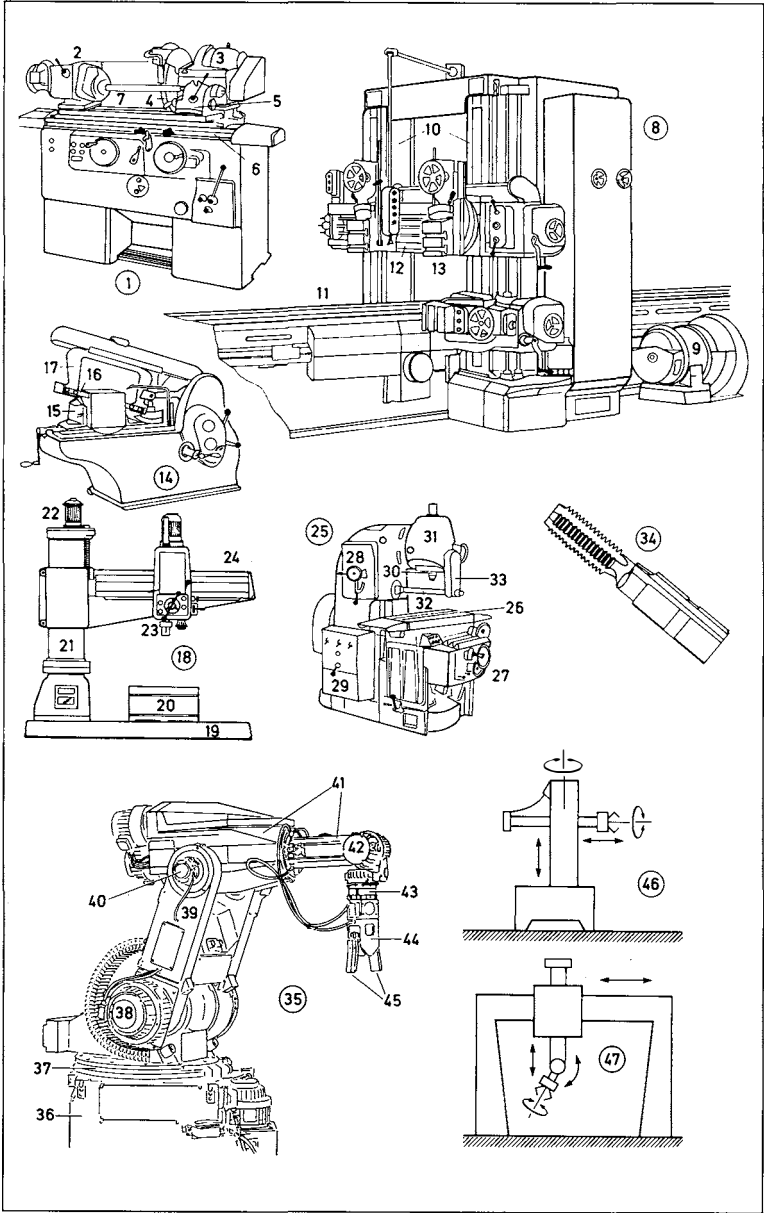
- 1 centre (*Am.* center) lathe
- 2 headstock with gear control (geared headstock)
- 3 reduction drive lever
- 4 lever for normal and coarse threads
- 5 speed change lever
- 6 leadscrew reverse-gear lever
- 7 change-gear box
- 8 feed gearbox (Norton tumbler gear)
- 9 levers for changing the feed and thread pitch
- 10 feed gear lever (tumbler lever)
- 11 switch lever for right or left hand action of main spindle
- 12 lathe foot (footpiece)
- 13 leadscrew handwheel for traversing of saddle (longitudinal movement of saddle)
- 14 tumbler reverse lever
- 15 feed screw
- 16 apron (saddle apron, carriage apron)
- 17 lever for longitudinal and transverse motion
- 18 drop (dropping) worm (feed trip, feed tripping device) for engaging feed mechanisms
- 19 lever for engaging half nut of lead-screw (lever for clasp nut engagement)
- 20 lathe spindle
- 21 tool post
- 22 top slide (tool slide, tool rest)
- 23 cross slide
- 24 bed slide
- 25 coolant supply pipe
- 26 tailstock centre (*Am.* center)
- 27 barrel (tailstock barrel)
- 28 tailstock barrel clamp lever
- 29 tailstock
- 30 tailstock barrel adjusting handwheel
- 31 lathe bed
- 32 leadscrew
- 33 feed shaft
- 34 reverse shaft for right and left hand motion and engaging and disengaging
- 35 four-jaw chuck (four-jaw independent chuck)
- 36 gripping jaw
- 37 three-jaw chuck (three-jaw self-centering, *Am.* self-centering, chuck)
- 38 turret lathe

- 39 cross slide
- 40 turret
- 41 combination toolholder (multiple turning head)
- 42 top slide
- 43 star wheel
- 44 coolant tray for collecting coolant and swarf
- 45-53 lathe tools
- 45 tool bit holder (clamp tip tool) for adjustable cutting tips
- 46 adjustable cutting tip (clamp tip) of cemented carbide or oxide ceramic
- 47 shapes of adjustable oxide ceramic tips
- 48 lathe tool with cemented carbide cutting edge
- 49 tool shank
- 50 brazed cemented carbide cutting tip (cutting edge)
- 51 internal facing tool (boring tool) for corner work
- 52 general-purpose lathe tool
- 53 parting (parting-off) tool
- 54 lathe carrier
- 55 driving (driver) plate
- 56-72 measuring instruments
- 56 plug gauge (*Am.* gage)
- 57 'GO' gauging (*Am.* gaging) member (end)
- 58 'NOT GO' gauging (*Am.* gaging) member (end)
- 59 calliper (caliper, snap) gauge (*Am.* gage)
- 60 'GO' side
- 61 'NOT GO' side
- 62 micrometer
- 63 measuring scale
- 64 graduated thimble
- 65 frame
- 66 spindle (screwed spindle)
- 67 vernier calliper (caliper) gauge (*Am.* gage)
- 68 depth gauge (*Am.* gage) attachment rule
- 69 vernier scale
- 70 outside jaws
- 71 inside jaws
- 72 vernier depth gauge (*Am.* gage)



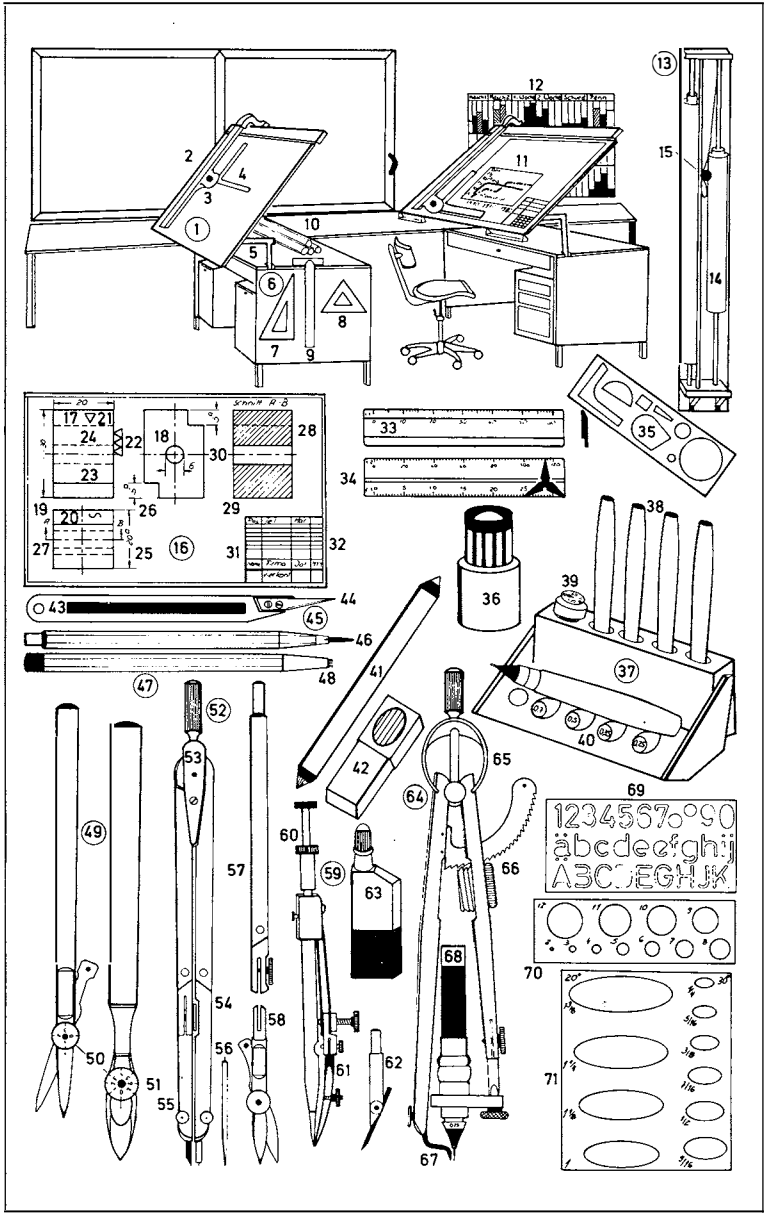
- 1 universal grinding machine
- 2 headstock
- 3 wheelhead slide
- 4 grinding wheel
- 5 tailstock
- 6 grinding machine bed
- 7 grinding machine table
- 8 two-column planing machine (two-column planer)
- 9 drive motor, a direct current motor
- 10 column
- 11 planer table
- 12 cross slide (rail)
- 13 tool box
- 14 hacksaw
- 15 clamping device
- 16 saw blade
- 17 saw frame
- 18 radial (radial-arm) drilling machine
- 19 bed (base plate)
- 20 block for workpiece
- 21 pillar
- 22 lifting motor
- 23 drill spindle
- 24 arm
- 25 universal milling machine
- 26 milling machine table
- 27 table feed drive
- 28 switch lever for spindle rotation speed
- 29 control box (control unit)
- 30 vertical milling spindle
- 31 vertical drive head
- 32 horizontal milling spindle
- 33 end support for steadying horizontal spindle
- 34 machine tap
- 35 articulated robot, an industrial robot
- 36 base plate
- 37 rotating column (base rotating axis)
- 38 shoulder joint
- 39 upper arm
- 40 elbow joint
- 41 tubular forearm

- 42 wrist joint
- 43 gripper mounting flange
- 44 gripper
- 45 fingers
- 46 upright robot (linear-axis robot, rectilinear robot)
- 47 portal robot (gantry robot)

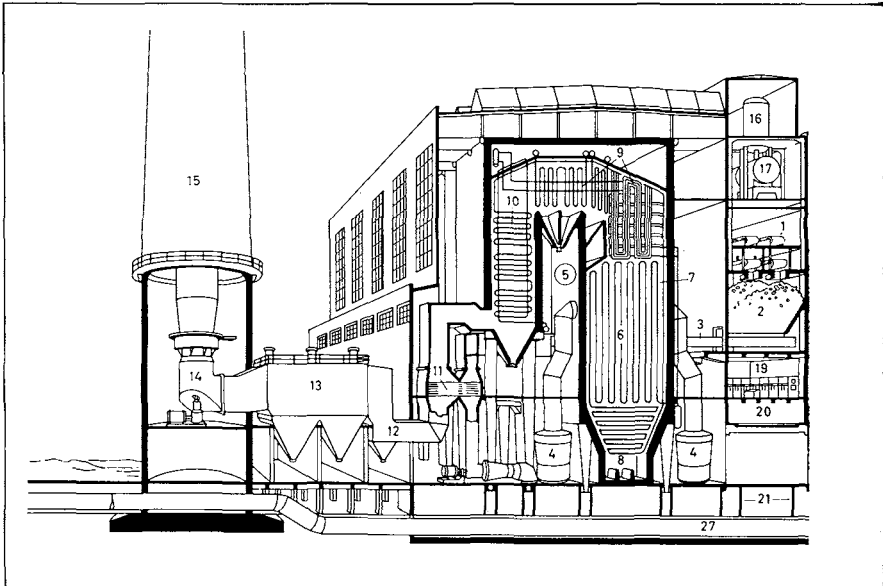


- 1 drawing board
- 2 drafting machine with parallel motion
- 3 adjustable knob
- 4 drawing head (adjustable set square)
- 5 drawing board adjustment
- 6 drawing table
- 7 set square (triangle)
- 8 triangle
- 9 T-square (tee-square)
- 10 rolled drawing
- 11 diagram
- 12 time schedule
- 13 paper stand
- 14 roll of paper
- 15 cutter
- 16 technical drawing (drawing, design)
- 17 front view (front elevation)
- 18 side view (side elevation)
- 19 plan
- 20 surface not to be machined
- 21 surface to be machined
- 22 surface to be superfinished
- 23 visible edge
- 24 hidden edge
- 25 dimension line
- 26 arrow head
- 27 section line
- 28 section A-B
- 29 hatched surface
- 30 centre (*Am.* center) line
- 31 title panel (title block)
- 32 technical data
- 33 ruler (rule)
- 34 triangular scale
- 35 erasing shield
- 36 drawing ink cartridge
- 37 holders for tubular drawing pens
- 38 set of tubular drawing pens
- 39 hygrometer
- 40 cap with indication of nib size
- 41 pencil-type eraser
- 42 eraser
- 43 erasing knife
- 44 erasing knife blade

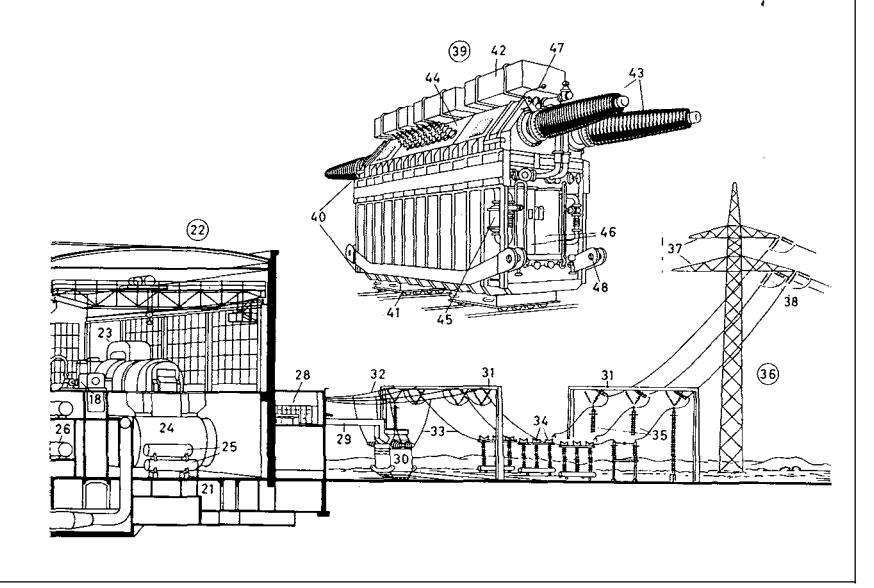
- 45 clutch-type pencil
- 46 pencil lead (refill lead, refill, spare lead)
- 47 glass eraser
- 48 glass fibres (*Am.* fibers)
- 49 ruling pen
- 50 cross joint
- 51 index plate
- 52 compass with interchangeable attachments
- 53 compass head
- 54 needle point attachment
- 55 pencil point attachment
- 56 needle
- 57 lengthening arm (extension bar)
- 58 ruling pen attachment
- 59 pump compass (drop compass)
- 60 piston
- 61 ruling pen attachment
- 62 pencil attachment
- 63 drawing ink container
- 64 spring bow (rapid adjustment, ratchet-type) compass
- 65 spring ring hinge
- 66 spring-loaded fine adjustment for arcs
- 67 right-angle needle
- 68 tubular ink unit
- 69 stencil lettering guide (lettering stencil)
- 70 circle template
- 71 ellipse template







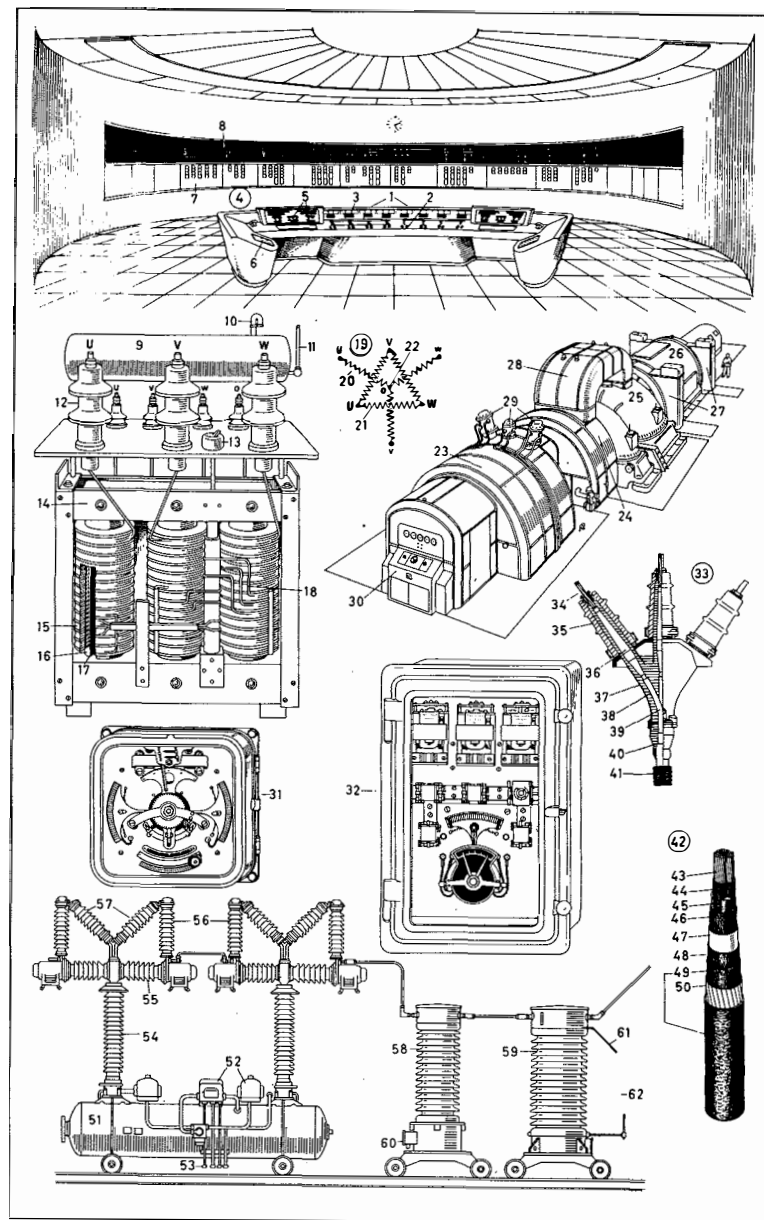
- 1-28 steam-generating station, an electric power plant
1-21 boiler house
1 coal conveyor
2 coal bunker
3 travelling-grate (*Am.* traveling-grate) stoker
4 coal mill
5 steam boiler, a water-tube boiler (radiant-type boiler)
6 burners
7 water pipes
8 ash pit (clinker pit)
9 superheater
10 water preheater
11 air preheater
12 gas flue
13 electrostatic precipitator
14 induced-draught (*Am.* induced-draft) fan
15 chimney (smokestack)
16 de-aerator
17 feedwater tank
- 18 boiler feed pump
19 control room
20 cable tunnel
21 cable vault
22 turbine house
23 steam turbine with alternator
24 surface condenser
25 low-pressure preheater
26 high-pressure preheater (*econo-*mizer)
27 cooling water pipe
28 control room
29-35 outdoor substation, a substation
29 busbars
30 power transformer, a mobile (*transportable*) transformer
31 stay poles (guy poles)
32 high-voltage transmission line
33 high-voltage conductor
34 air-blast circuit breaker (*circuit* breaker)
35 surge diverter (*Am.* lightning arrester, arrester)



- 36 overhead line support, a lattice steel tower
37 cross arm (*traverse*)
38 strain insulator
39 mobile (*transportable*) transformer (*power transformer, transformer*)
40 transformer tank
41 bogie (*Am.* truck)
42 oil conservator
43 primary voltage terminal (*primary voltage bushing*)
44 low-voltage terminals (*low-voltage bushings*)
45 oil-circulating pump
46 oil cooler
47 arcing horn
48 transport lug

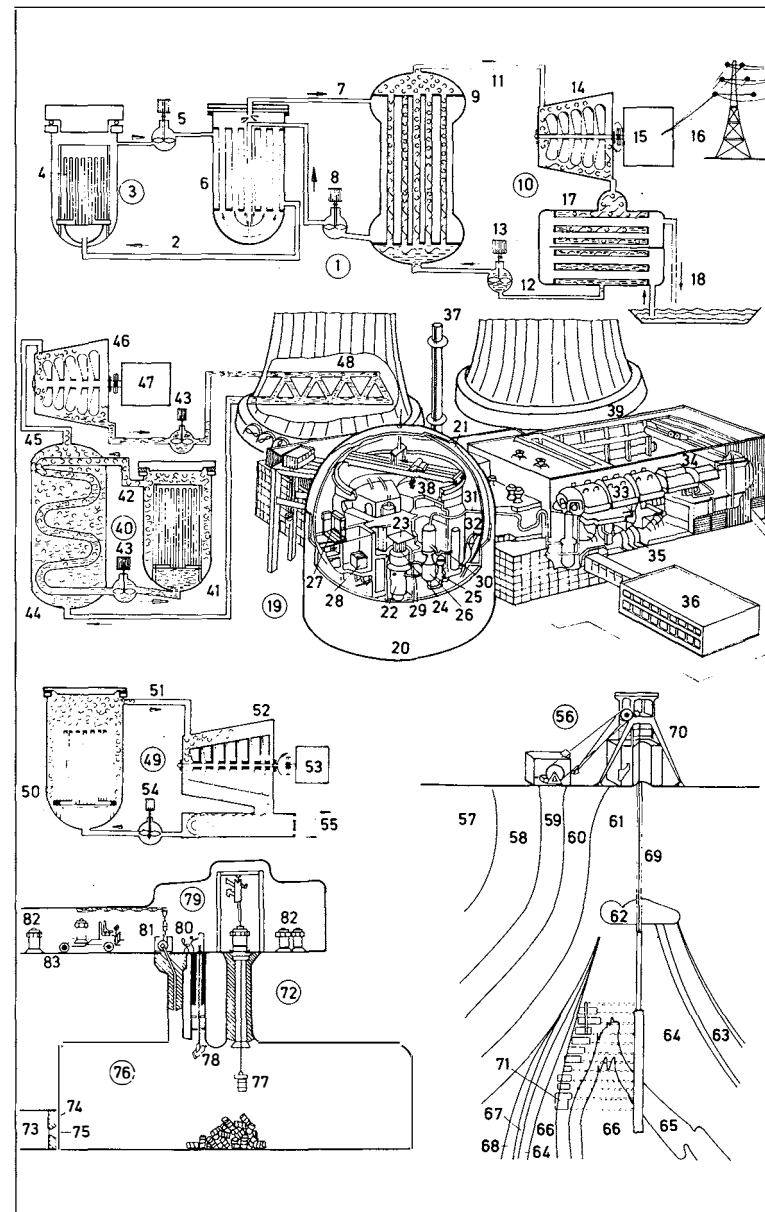
**1-8 control room****1-6 control console** (control desk)

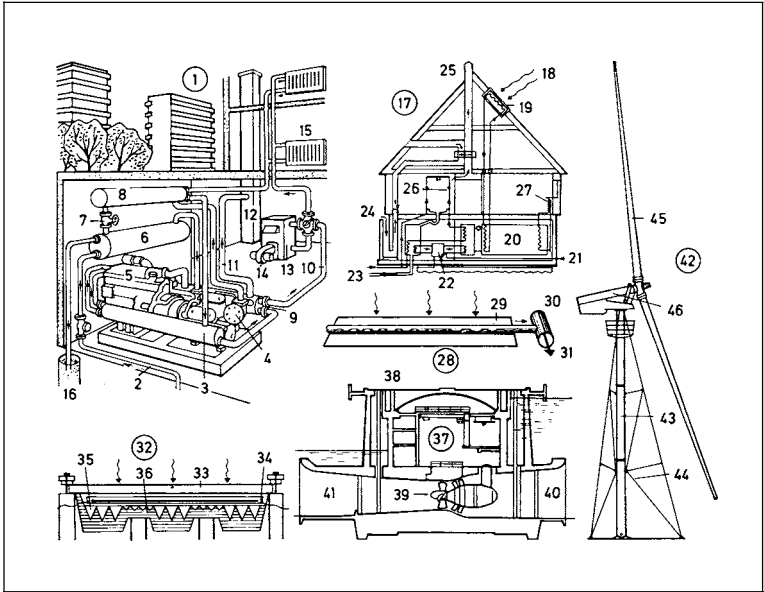
- 1** control board (control panel) for the alternators
- 2** master switch
- 3** signal light
- 4** feeder panel
- 5** monitoring controls for the switching systems

**6** controls**7** revertive signal panel**8** matrix mimic board**9-18 transformer****9** oil conservator**10** breather**11** oil gauge (*Am. gage*)**12** feed-through terminal (feed-through insulator)**13** on-load tap changer**14** yoke**15** primary winding (primary)**16** secondary winding (secondary, low-voltage winding)**17** core**18** tap (tapping)**19 transformer connection****20** star connection (star network, Y-connection)**21** delta connection (mesh connection)**22** neutral point**23-30 steam turbine**, a turbogenerator unit**23** high-pressure cylinder**24** medium-pressure cylinder**25** low-pressure cylinder**26** three-phase generator (generator)**27** hydrogen cooler**28** leakage steam path**29** jet nozzle**30** turbine monitoring panel with measuring instruments**31** automatic voltage regulator**32** synchro**33** cable box**34** conductor**35** feed-through terminal (feed-through insulator)**36** core**37** casing**38** filling compound (filler)**39** lead sheath**40** lead-in tube**41** cable**42** **high voltage cable**, for three-phase current**43** conductor**44** metallic paper (metallized paper)**45** tracer (tracer element)**46** varnished-cambric tape**47** lead sheath**48** asphalted paper**49** jute serving**50** steel tape or steel wire armour (*Am. armor*)**51-62 air-blast circuit breaker**, a circuit breaker**51** compressed-air tank**52** control valve (main operating valve)**53** compressed-air inlet**54** support insulator, a hollow porcelain supporting insulator**55** interrupter**56** resistor**57** auxiliary contacts**58** current transformer**59** voltage transformer (potential transformer)**60** operating mechanism housing**61** arcing horn**62** spark gap

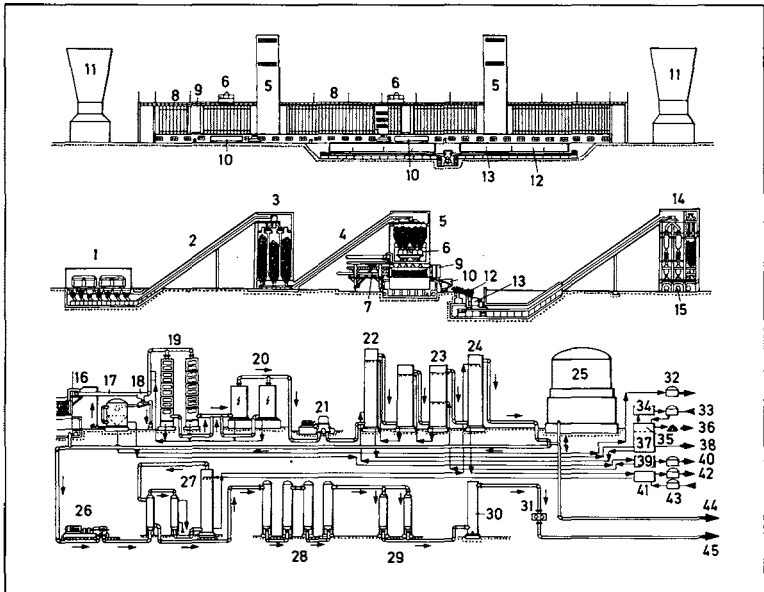
## 154 Nuclear Energy

- 1 **fast-breeder reactor** (fast breeder) [diagram]
- 2 primary circuit (primary loop, primary sodium system)
- 3 reactor
- 4 fuel rods (fuel pins)
- 5 primary sodium pump
- 6 heat exchanger
- 7 secondary circuit (secondary loop, secondary sodium system)
- 8 secondary sodium pump
- 9 steam generator
- 10 cooling water flow circuit
- 11 steam line
- 12 feedwater line
- 13 feed pump
- 14 steam turbine
- 15 generator
- 16 transmission line
- 17 condenser
- 18 cooling water
- 19 **nuclear reactor**, a pressurized-water reactor (nuclear power plant, atomic power plant)
- 20 concrete shield (reactor building)
- 21 steel containment (steel shell) with air extraction vent
- 22 reactor pressure vessel
- 23 control rod drive
- 24 control rods
- 25 primary coolant pump
- 26 steam generator
- 27 fuel-handling hoists
- 28 fuel storage
- 29 coolant flow passage
- 30 feedwater line
- 31 prime steam line
- 32 manway
- 33 turbogenerator set
- 34 turbogenerator
- 35 condenser
- 36 service building
- 37 exhaust gas stack
- 38 polar crane
- 39 cooling tower, a dry cooling tower
- 40 pressurized-water system
- 41 reactor
- 42 primary circuit (primary loop)
- 43 circulation pump (recirculation pump)
- 44 heat exchanger (steam generator)
- 45 secondary circuit (secondary loop, feedwater steam circuit)
- 46 steam turbine
- 47 generator
- 48 cooling system
- 49 boiling water system [diagram]
- 50 reactor
- 51 steam and recirculation water flow paths
- 52 steam turbine
- 53 generator
- 54 circulation pump (recirculation pump)
- 55 coolant system (cooling with water from river)
- 56 **radioactive waste storage** in salt mine
- 57-68 geological structure of abandoned salt mine converted for disposal of radioactive waste (nuclear waste)
- 57 Lower Keuper
- 58 Upper Muschelkalk
- 59 Middle Muschelkalk
- 60 Lower Muschelkalk
- 61 Bunter downthrow
- 62 residue of leached (lixiviated) Zechstein (Upper Permian)
- 63 Aller rock salt
- 64 Leine rock salt
- 65 Stassfurt seam (potash salt seam, potash salt bed)
- 66 Stassfurt salt
- 67 grenzanhydrite
- 68 Zechstein shale
- 69 shaft
- 70 minehead buildings
- 71 storage chamber
- 72 storage of medium-active waste in salt mine
- 73 511 m level
- 74 protective screen (anti-radiation screen)
- 75 lead glass window
- 76 storage chamber
- 77 drum containing radioactive waste
- 78 television camera
- 79 charging chamber
- 80 control desk (control panel)
- 81 upward ventilator
- 82 shielded container
- 83 490 m level

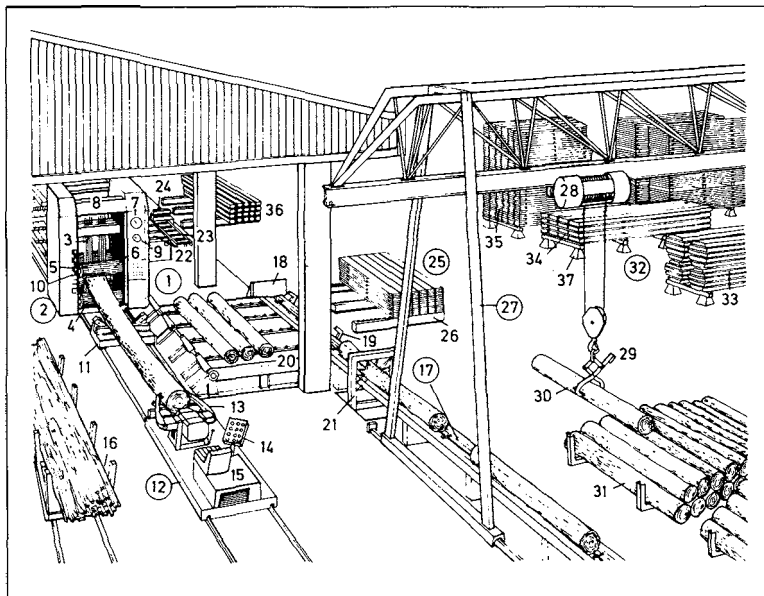




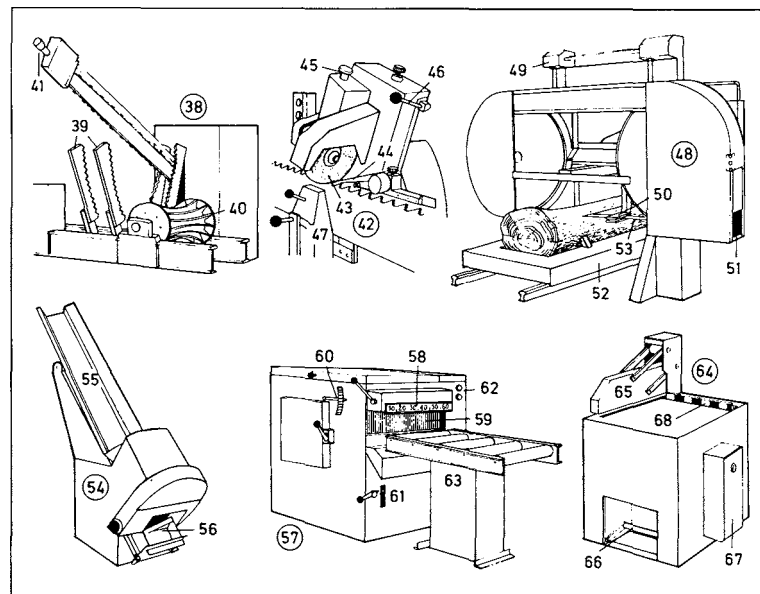
- 1 heat pump system
- 2 source water inlet
- 3 cooling water heat exchanger
- 4 compressor
- 5 natural-gas or diesel engine
- 6 evaporator
- 7 pressure release valve
- 8 condenser
- 9 waste-gas heat exchanger
- 10 flow pipe
- 11 vent pipe
- 12 chimney
- 13 boiler
- 14 fan
- 15 radiator
- 16 sink
- 17-36 utilization of solar energy
- 17 solar (solar-heated) house
- 18 solar radiation (sunlight, insolation)
- 19 collector
- 20 hot reservoir (heat reservoir)
- 21 power supply
- 22 heat pump
- 23 water outlet
- 24 air supply
- 25 flue
- 26 hot water supply
- 27 radiator heating
- 28 flat plate solar collector
- 29 blackened receiver surface with asphalted aluminium (*Am.* aluminium) foil
- 30 steel tube
- 31 heat transfer fluid
- 32 flat plate solar collector, containing solar cell
- 33 glass cover
- 34 solar cell
- 35 air ducts
- 36 insulation
- 37 tidal power plant [section]
- 38 dam
- 39 reversible turbine
- 40 turbine inlet for water from the sea
- 41 turbine inlet for water from the basin
- 42 wind power plant (wind generator aerogenerator)
- 43 truss tower
- 44 guy wire
- 45 rotor
- 46 generator with variable pitch for power regulation



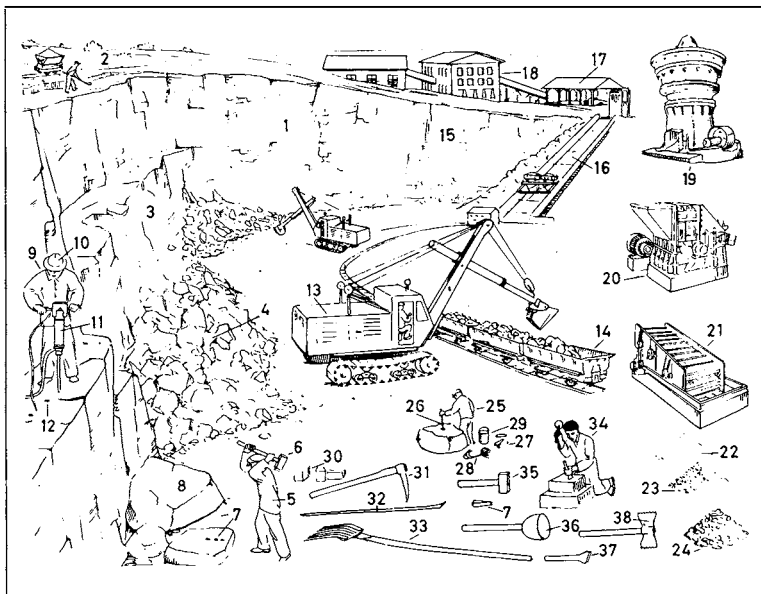
- 1-15 coking plant
- 1 dumping of coking coal
- 2 belt conveyor
- 3 blending bunker
- 4 service bunker conveyor
- 5 service bunker
- 6 larry car (larry, charging car)
- 7 pusher ram
- 8 battery of coke ovens
- 9 coke guide
- 10 quenching car, with engine
- 11 quenching tower
- 12 coke loading bay (coke wharf)
- 13 coke wharf conveyor
- 14 screening of coke and breeze
- 15 coke loading
- 16-45 coke-oven gas processing
- 16 discharge (release) of gas from the coke ovens
- 17 gas-collecting main
- 18 coal tar extraction
- 19 gas cooler
- 20 electrostatic precipitator
- 21 gas extractor
- 22 hydrogen sulphide (*Am.* hydrogen sulphide) scrubber (hydrogen sulphide wet collector)
- 23 ammonia scrubber (ammonia wet collector)
- 24 benzene (benzol) scrubber
- 25 gas holder
- 26 gas compressor
- 27 debenzoling by cooler and heat exchanger
- 28 desulphurization (*Am.* desulfurization) of pressure gas
- 29 gas cooling
- 30 gas drying
- 31 gas meter
- 32 crude tar tank
- 33 sulphuric acid (*Am.* sulfuric acid) supply
- 34 production of sulphuric acid (*Am.* sulfuric acid)
- 35 production of ammonium sulphate (*Am.* ammonium sulfate)
- 36 ammonium sulphate (*Am.* ammonium sulfate)
- 37 recovery plant for recovering the scrubbing agents
- 38 waste water discharge
- 39 phenol extraction from the gas water
- 40 crude phenol tank
- 41 production of crude benzol (crude benzene)
- 42 crude benzol (crude benzene) tank
- 43 scrubbing oil tank
- 44 low-pressure gas main
- 45 high-pressure gas main



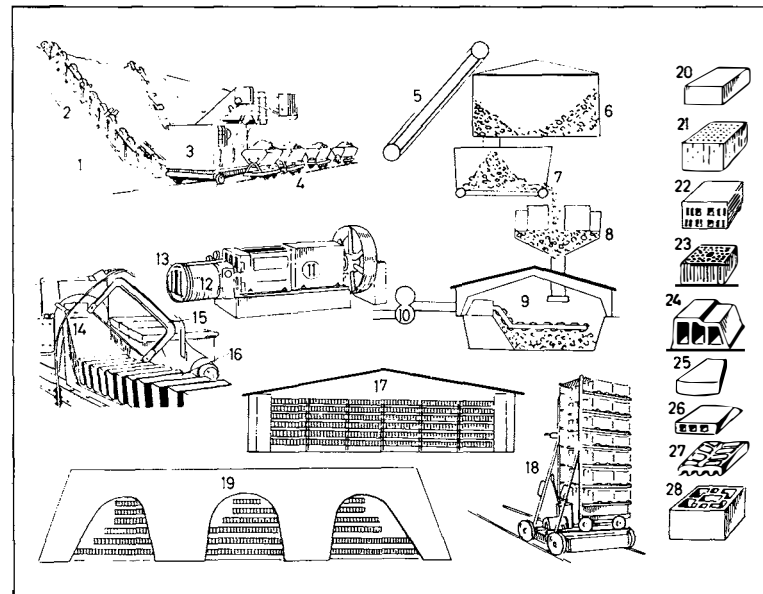
- |   |                                    |
|---|------------------------------------|
| <b>1 sawmill</b>                                      | <b>23</b> roller table             |
| <b>2</b> vertical frame saw ( <i>Am. gang mill</i> )  | <b>24</b> undercut swing saw       |
| <b>3</b> saw blades                                   | <b>25</b> piling                   |
| <b>4</b> feed roller                                  | <b>26</b> roller trestles          |
| <b>5</b> guide roller                                 | <b>27</b> gantry crane             |
| <b>6</b> fluting (grooving, grooves)                  | <b>28</b> crane motor              |
| <b>7</b> oil pressure gauge ( <i>Am. gage</i> )       | <b>29</b> pivoted log grips        |
| <b>8</b> saw frame                                    | <b>30</b> roundwood (round timber) |
| <b>9</b> feed indicator                               | <b>31</b> log dump                 |
| <b>10</b> log capacity scale                          | <b>32</b> squared timber store     |
| <b>11</b> auxiliary carriage                          | <b>33</b> sawn logs                |
| <b>12</b> carriage                                    | <b>34</b> planks                   |
| <b>13</b> log grips                                   | <b>35</b> boards (planks)          |
| <b>14</b> remote control panel                        | <b>36</b> squared timber           |
| <b>15</b> carriage motor                              | <b>37</b> stack bearer             |
| <b>16</b> truck for splinters (splints)               |                                    |
| <b>17</b> endless log chain ( <i>Am. jack chain</i> ) |                                    |
| <b>18</b> stop plate                                  |                                    |
| <b>19</b> log-kicker arms                             |                                    |
| <b>20</b> cross conveyor                              |                                    |
| <b>21</b> washer (washing machine)                    |                                    |
| <b>22</b> cross chain conveyor for sawn timber        |                                    |



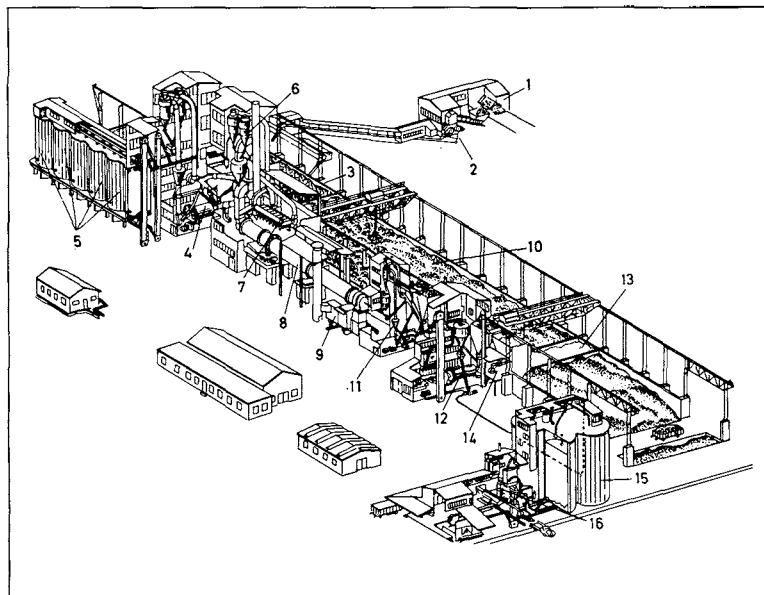
- |  |  |
|--|--|
| <b>38</b> automatic cross-cut chain saw          | <b>60</b> height scale                             |
| <b>39</b> log grips                              | <b>61</b> in-feed scale                            |
| <b>40</b> feed roller                            | <b>62</b> indicator lamps                          |
| <b>41</b> chain-tensioning device                | <b>63</b> feed table                               |
| <b>42</b> saw-sharpening machine                 | <b>64</b> undercut swing saw                       |
| <b>43</b> grinding wheel (teeth grinder)         | <b>65</b> automatic hold-down with protective hood |
| <b>44</b> feed pawl                              | <b>66</b> foot switch                              |
| <b>45</b> depth adjustment for the teeth grinder | <b>67</b> distribution board (panelboard)          |
| <b>46</b> lifter (lever) for the grinder chuck   | <b>68</b> length stop                              |
| <b>47</b> holding device for the saw blade       |  |
| <b>48</b> horizontal bandsaw for sawing logs     |  |
| <b>49</b> height adjustment                      |  |
| <b>50</b> chip remover                           |  |
| <b>51</b> chip extractor                         |  |
| <b>52</b> carriage                               |  |
| <b>53</b> bandsaw blade                          |  |
| <b>54</b> automatic blocking saw                 |  |
| <b>55</b> feed channel                           |  |
| <b>56</b> discharge opening                      |  |
| <b>57</b> twin edger (double edger)              |  |
| <b>58</b> breadth scale (width scale)            |  |
| <b>59</b> kick-back guard (plates)               |  |



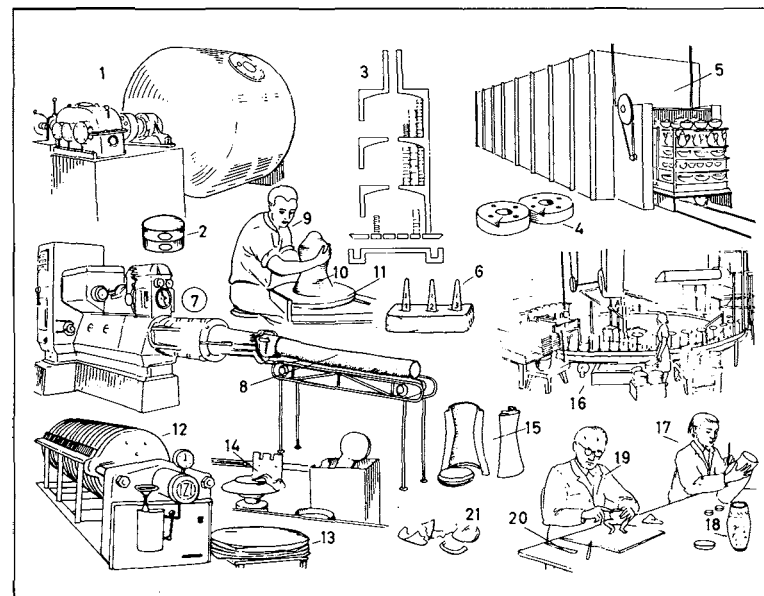
- |   |  |
|---|--|
| 1 quarry, an open-cast working  | 22 screenings (fine dust)                      |
| 2 overburden  | 23 stone chippings                             |
| 3 working face  | 24 crushed stone                               |
| 4 loose rock pile (blasted rock)  | 25 shot firer                                  |
| 5 quarryman (quarrier), a quarry worker   | 26 measuring rod                               |
| 6 sledge hammer   | 27 blasting cartridge                          |
| 7 wedge   | 28 fuse (blasting fuse)                        |
| 8 block of stone  | 29 plugging sand (stemming sand) bucket        |
| 9 driller   | 30 dressed stone                               |
| 10 safety helmet  | 31 pick  |
| 11 hammer drill (hard-rock drill)   | 32 crowbar (pinch bar)                         |
| 12 borehole   | 33 fork  |
| 13 universal excavator  | 34 stonemason                                  |
| 14 large-capacity truck   | 35-38 stonemason's tools                       |
| 15 rock face  | 35 stonemason's hammer                         |
| 16 inclined hoist   | 36 mallet                                      |
| 17 primary crusher  | 37 drove chisel (drove, boaster, broad chisel) |
| 18 stone-crushing plant   | 38 dressing axe ( <i>Am. ax</i> )              |
| 19 coarse rotary (gyratory) crusher; <i>sim.</i> : fine rotary (gyratory) crusher |  |
| 20 hammer crusher (impact crusher)  |  |
| 21 vibrating screen   |  |



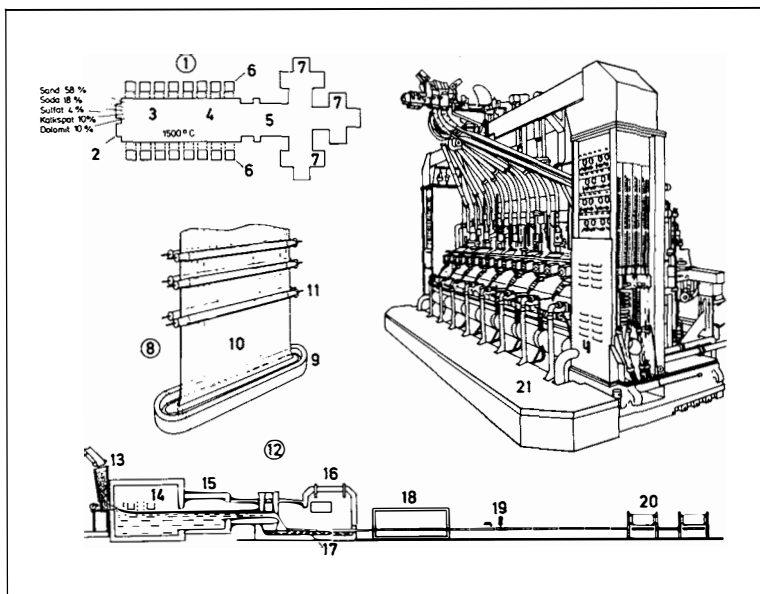
- |  |  |
|--|--|
| 1 clay pit   | 19 circular kiln (brick kiln)                      |
| 2 loam, an impure clay (raw clay)                      | 20 solid brick (building brick)                    |
| 3 overburden excavator, a large-scale excavator        | 21, 22 perforated bricks and hollow blocks         |
| 4 narrow-gauge ( <i>Am. narrow-gage</i> ) track system | 21 perforated brick with vertical perforations     |
| 5 inclined hoist                                       | 22 hollow clay block with horizontal perforations  |
| 6 soursing chambers                                    | 23 hollow clay block with vertical perforations    |
| 7 box feeder (feeder)                                  | 24 floor brick                                     |
| 8 edge runner mill (edge mill, pan grinding mill)      | 25 compass brick (radial brick, radiating brick)   |
| 9 rolling plant  | 26 hollow flooring block                           |
| 10 double-shaft trough mixer (mixer)                   | 27 paving brick                                    |
| 11 extrusion press (brick-pressing machine)            | 28 cellular brick [for fireplaces] (chimney brick) |
| 12 vacuum chamber                                      |  |
| 13 die   |  |
| 14 clay column   |  |
| 15 cutter (brick cutter)                               |  |
| 16 unfired brick (green brick)                         |  |
| 17 drying shed   |  |
| 18 mechanical finger car (stacker truck)               |  |



- 1 raw materials (limestone, clay and marl)
- 2 hammer crusher (hammer mill)
- 3 raw material store
- 4 raw mill for simultaneously grinding and drying the raw materials with exhaust gas from the heat exchanger
- 5 raw meal silos
- 6 heat exchanger (cyclone heat exchanger)
- 7 dust collector (an electrostatic precipitator) for the heat exchanger exhaust from the raw mill
- 8 rotary kiln
- 9 clinker cooler
- 10 clinker store
- 11 primary air blower
- 12 cement-grinding mill
- 13 gypsum store
- 14 gypsum crusher
- 15 cement silo
- 16 cement-packing plant



- 1 grinding cylinder (ball mill) for the preparation of the raw material in water
- 2 sample sagger (saggar, seggar), with aperture for observing the firing process
- 3 bottle kiln (beehive kiln) [diagram]
- 4 firing mould (*Am. mold*)
- 5 tunnel kiln
- 6 Seger cone (pyrometric cone, *Am. Orton cone*) for measuring high temperatures
- 7 de-airing pug mill (de-airing pug press), an extrusion press
- 8 clay column
- 9 thrower throwing a ball (bat) of clay
- 10 slug of clay
- 11 turntable; *sim.*: potter's wheel
- 12 filter press
- 13 filter cake
- 14 jiggering, with a profiling tool; *sim.*: jolly
- 15 plaster mould (*Am. mold*) for slip casting
- 16 turntable glazing machine
- 17 porcelain painter (*china painter*)
- 18 hand-painted vase
- 19 repairer
- 20 pallet (modelling, *Am. modeling, tool*)
- 21 shards (sherds, potsherds)



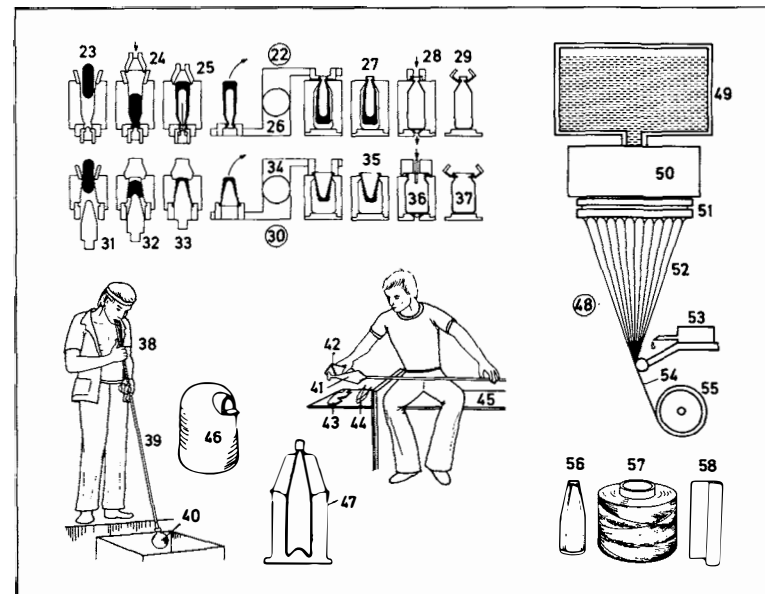
### 1-20 sheet glass production (flat glass production)

- 1 glass furnace (tank furnace) for the Fourcault process [diagram]
- 2 filling end, for feeding in the batch (frit)
- 3 melting bath
- 4 refining bath (fining bath)
- 5 working baths (working area)
- 6 burners
- 7 drawing machines
- 8 Fourcault glass-drawing machine
- 9 slot
- 10 glass ribbon (ribbon of glass, sheet of glass) being drawn upwards
- 11 rollers (drawing rolls)
- 12 float glass process
- 13 batch (frit) feeder (funnel)
- 14 melting bath
- 15 cooling tank
- 16 float bath in a protective inert-gas atmosphere

- 17 molten tin
- 18 annealing lehr
- 19 automatic cutter
- 20 stacking machines
- 21 IS (individual-section) machine, a bottle-making machine

### 22-37 blowing processes

- 22 blow-and-blow process
- 23 introduction of the gob of molten glass
- 24 first blowing
- 25 suction
- 26 transfer from the parison mould (Am. mold) to the blow mould (Am. mold)
- 27 reheating
- 28 blowing (suction, final shaping)
- 29 delivery of the completed vessel
- 30 press-and-blow process
- 31 introduction of the gob of molten glass
- 32 plunger



- 33 pressing
- 34 transfer from the press mould (Am. mold) to the blow mould (Am. mold)
- 35 reheating
- 36 blowing (suction, final shaping)
- 37 delivery of the completed vessel
- 38-47 glassmaking (glassblowing, glassblowing by hand, glass forming)
- 38 glassmaker (glassblower)
- 39 blowing iron
- 40 gob
- 41 hand-blown goblet
- 42 clappers for shaping the base (foot) of the goblet
- 43 trimming tool
- 44 tongs
- 45 glassmaker's chair (gaffer's chair)
- 46 covered glasshouse pot
- 47 mould (Am. mold), into which the parison is blown

### 48-55 production of glass fibre (Am. glass fiber)

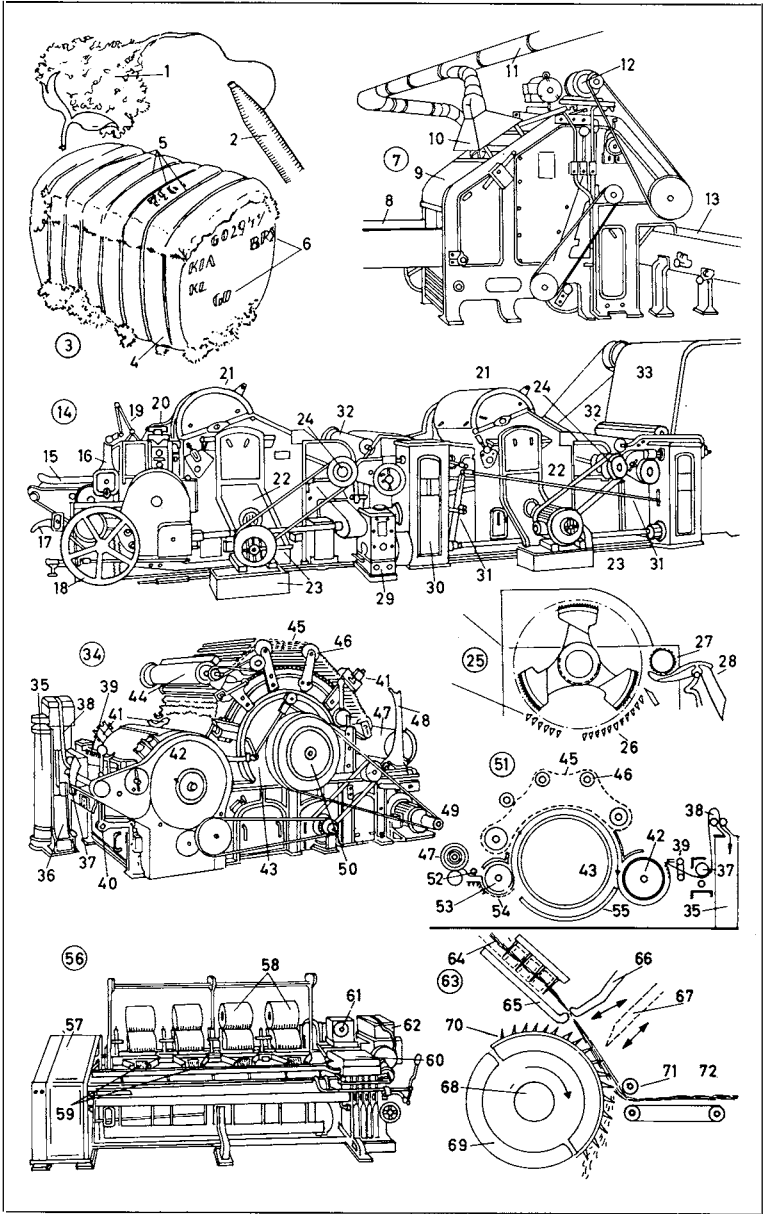
- 48 continuous filament process
- 49 glass furnace
- 50 bushing containing molten glass
- 51 bushing tips
- 52 glass filaments
- 53 sizing
- 54 strand (thread)
- 55 spool
- 56-58 glass fibre (Am. glass fiber) products
- 56 glass yarn (glass thread)
- 57 sleeved glass yarn (glass thread)
- 58 glass wool



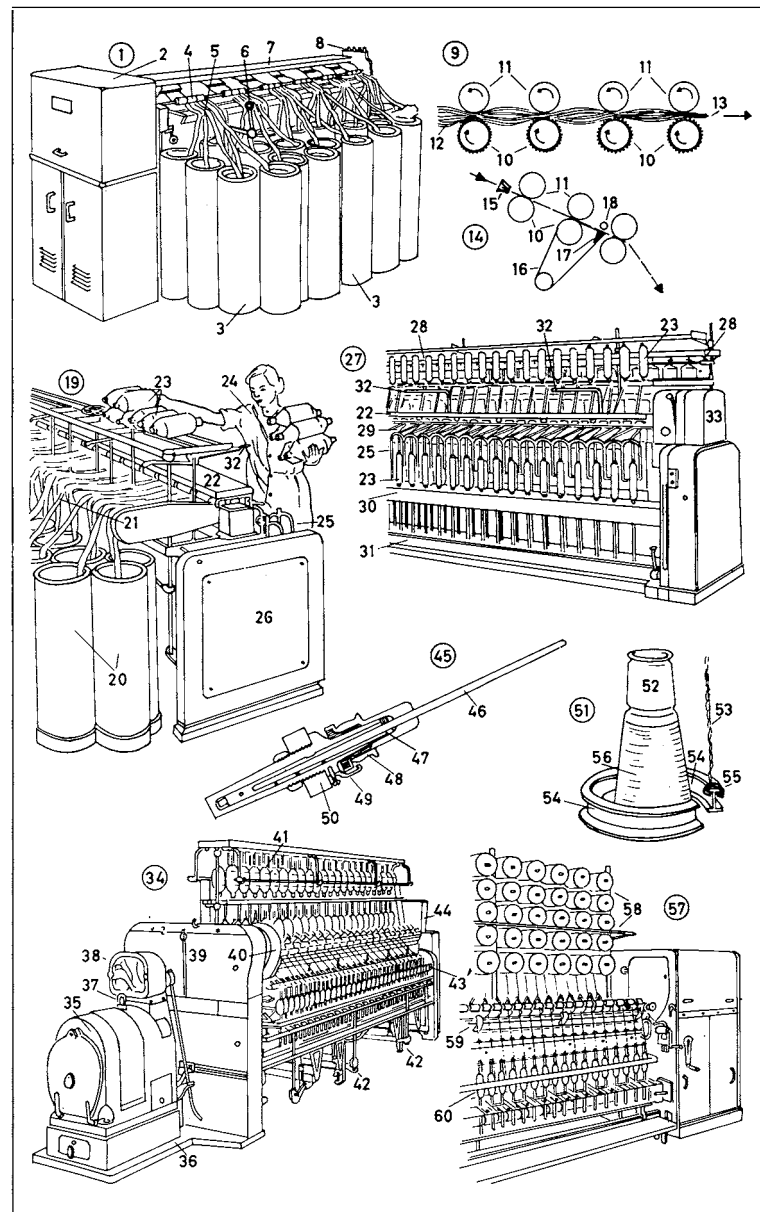
1-13 supply of cotton

- 1 ripe cotton boll
- 2 full cop (cop wound with weft yarn)
- 3 compressed cotton bale
- 4 jute wrapping
- 5 steel band
- 6 identification mark of the bale
- 7 bale opener (bale breaker)
- 8 cotton-feeding brattice
- 9 cotton feed
- 10 dust extraction fan
- 11 duct to the dust-collecting chamber
- 12 drive motor
- 13 conveyor brattice
- 14 **double scutcher** (machine with two scutchers)
- 15 lap cradle
- 16 rack head
- 17 starting handle
- 18 handwheel, for raising and lowering the rack head
- 19 movable lap-turner
- 20 calender rollers
- 21 cover for the perforated cylinders
- 22 dust escape flue (dust discharge flue)
- 23 drive motors (beater drive motors)
- 24 beater driving shaft
- 25 three-blade beater (Kirschner beater)
- 26 grid [for impurities to drop]
- 27 pedal roller (pedal cylinder)
- 28 control lever for the pedal roller, a pedal lever
- 29 variable change-speed gear
- 30 cone drum box
- 31 stop and start levers for the hopper
- 32 wooden hopper delivery roller
- 33 hopper feeder
- 34 **carding machine** (card, carding engine)
- 35 card can (carding can), for receiving the coiled sliver
- 36 can holder
- 37 calender rollers
- 38 carded sliver (card sliver)

- 39 vibrating doffer comb
- 40 start-stop lever
- 41 grinding-roller bearing
- 42 doffer
- 43 cylinder
- 44 flat clearer
- 45 flats
- 46 supporting pulleys for the flats
- 47 scutcher lap (carded lap)
- 48 scutcher lap holder
- 49 drive motor with flat belt
- 50 main drive pulley (fast-and-loose drive pulley)
- 51 principle of the card (of the carding engine)
- 52 fluted feed roller
- 53 licker-in (taker-in, licker-in roller)
- 54 licker-in undercasing
- 55 cylinder undercasing
- 56 **combing machine** (comber)
- 57 drive gearbox (driving gear)
- 58 laps ready for combing
- 59 calender rollers
- 60 comber draw box
- 61 counter
- 62 coiler top
- 63 principle of the comber
- 64 lap
- 65 bottom nipper
- 66 top nipper
- 67 top comb
- 68 combing cylinder
- 69 plain part of the cylinder
- 70 needled part of the cylinder
- 71 detaching rollers
- 72 carded and combed sliver



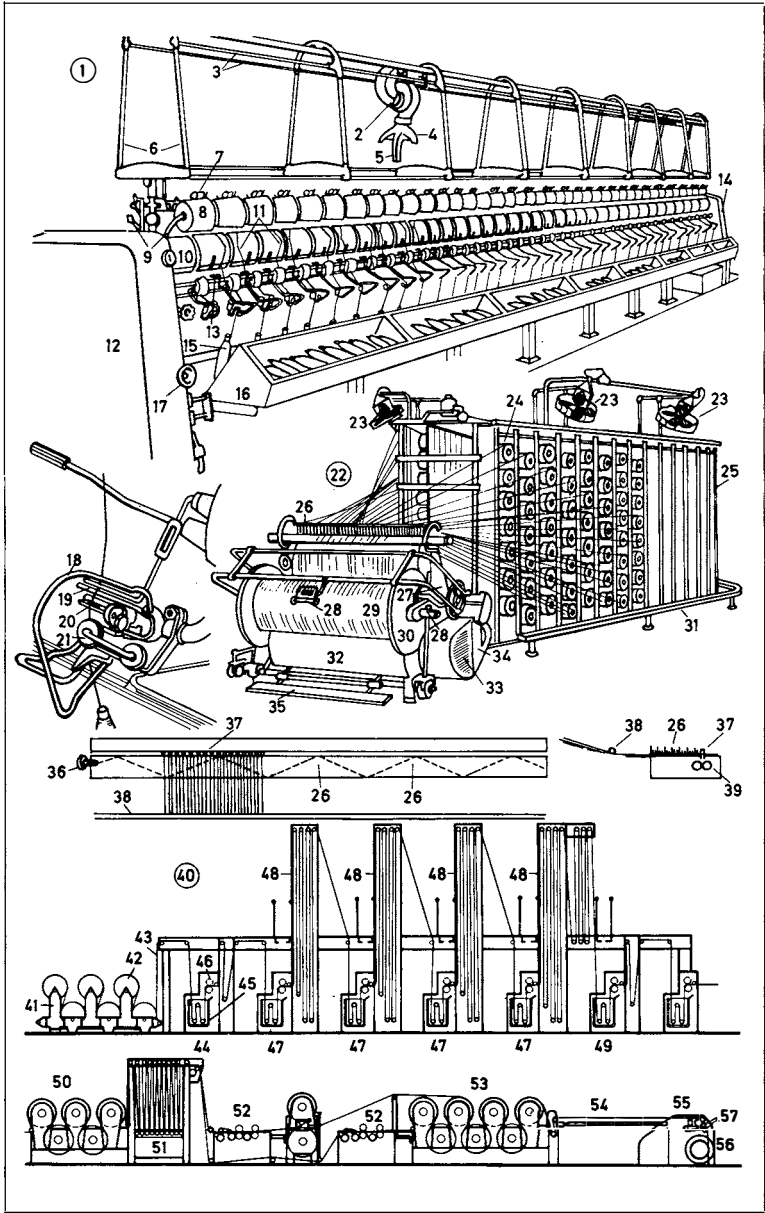
- 1 draw frame
- 2 gearbox with built-in motor
- 3 sliver cans
- 4 broken thread detector roller
- 5 doubling of the slivers
- 6 stopping handle
- 7 draw frame cover
- 8 indicator lamps (signal lights)
- 9 simple four-roller draw frame [diagram]
- 10 bottom rollers (lower rollers), fluted steel rollers
- 11 top rollers (upper rollers) covered with synthetic rubber
- 12 doubled slivers before drafting
- 13 thin sliver after drafting
- 14 high-draft system (high-draft draw frame) [diagram]
- 15 feeding-in of the sliver
- 16 leather apron (composition apron)
- 17 guide bar
- 18 light top roller (guide roller)
- 19 high-draft speed frame (fly frame, slubbing frame)
- 20 sliver cans
- 21 feeding of the slivers to the drafting rollers
- 22 drafting rollers with top clearers
- 23 roving bobbins
- 24 fly frame operator (operative)
- 25 flyer
- 26 frame end plate
- 27 intermediate yarn-forming frame
- 28 bobbin creel (creel)
- 29 roving emerging from the drafting rollers
- 30 lifter rail (separating rail)
- 31 spindle drive
- 32 stopping handle
- 33 gearbox, with built-on motor
- 34 ring frame (ring spinning frame)
- 35 three-phase motor
- 36 motor base plate (bedplate)
- 37 lifting bolt [for motor removal]
- 38 control gear for spindle speed
- 39 gearbox
- 40 change wheels for varying the spindle speed [to change the yarn count]
- 41 full creel
- 42 shafts and levers for raising and lowering the ring rail
- 43 spindles with separators
- 44 suction box connected to the front roller underclearers
- 45 standard ring spindle
- 46 spindle shaft
- 47 roller bearing
- 48 wharve (pulley)
- 49 spindle catch
- 50 spindle rail
- 51 ring and traveller (*Am.* traveler)
- 52 top of the ring tube (of the bobbin)
- 53 yarn (thread)
- 54 ring fitted into the ring rail
- 55 traveller (*Am.* traveler)
- 56 yarn wound onto the bobbin
- 57 doubling frame
- 58 creel, with cross-wound cheeses
- 59 delivery rollers
- 60 bobbins of doubled yarn



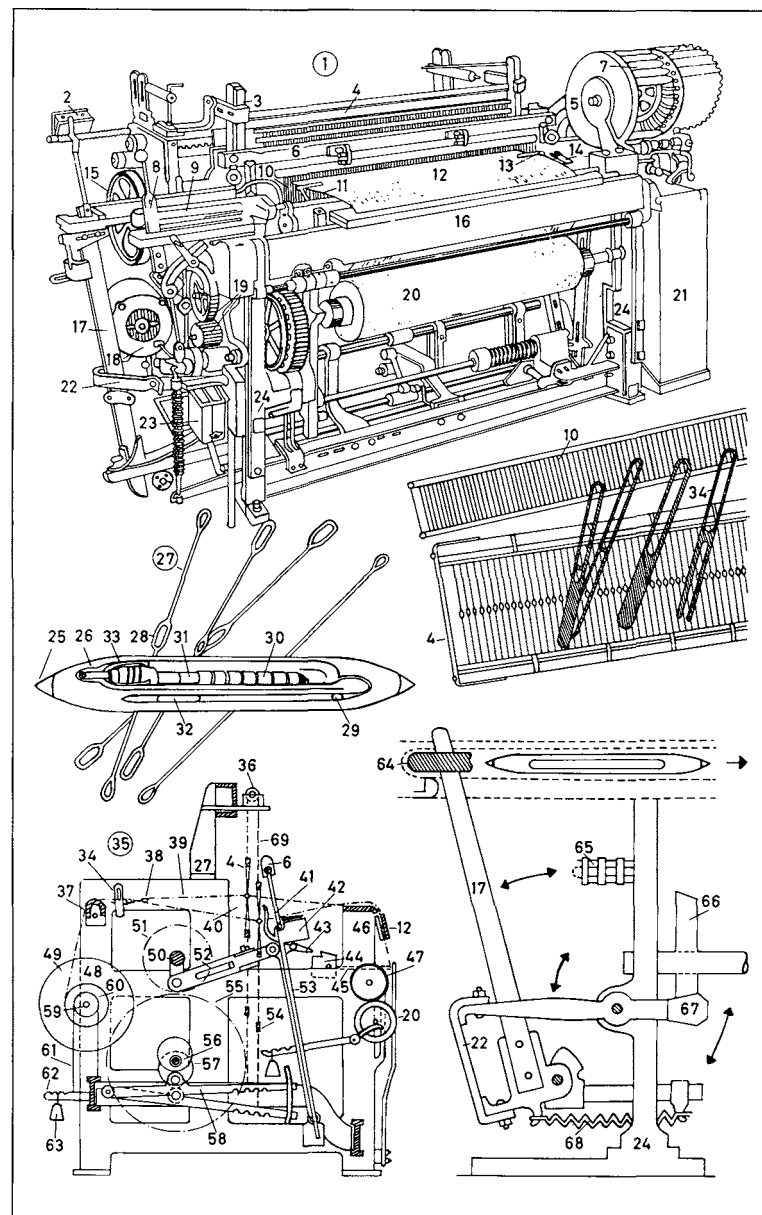
1-57 processes preparatory to weaving

- 1 cone-winding frame
- 2 travelling (*Am.* traveling) blower
- 3 guide rail, for the travelling (*Am.* traveling) blower
- 4 blowing assembly
- 5 blower aperture
- 6 superstructure for the blower rail
- 7 full-cone indicator
- 8 cross-wound cone
- 9 cone creel
- 10 grooved cylinder
- 11 guiding slot for cross-winding the threads
- 12 side frame, housing the motor
- 13 tension and slub-catching device
- 14 off-end framing with filter
- 15 yarn package, a ring tube or mule cop
- 16 yarn package container
- 17 starting and stopping lever
- 18 self-threading guide
- 19 broken thread stop motion
- 20 thread clearer
- 21 weighting disc (disk) for tensioning the thread
- 22 warping machine
- 23 fan
- 24 cross-wound cone
- 25 creel
- 26 adjustable comb
- 27 warping machine frame
- 28 yarn length recorder
- 29 warp beam
- 30 beam flange
- 31 guard rail
- 32 driving drum (driving cylinder)
- 33 belt drive
- 34 motor
- 35 release for starting the driving drum
- 36 screw for adjusting the comb setting
- 37 drop pins, for stopping the machine when a thread breaks
- 38 guide bar
- 39 drop pin rollers

- 40 indigo dying and sizing machine
- 41 take-off stand
- 42 warp beam
- 43 warp
- 44 wetting trough
- 45 immersion roller
- 46 squeeze roller (mangle)
- 47 dye liquor padding trough
- 48 air oxidation passage
- 49 washing trough
- 50 drying cylinders for pre-drying
- 51 tension compensator (tension equalizer)
- 52 sizing machine
- 53 drying cylinders
- 54 *for cotton:* stenter; *for wool:* tenter
- 55 beaming machine
- 56 sized warp beam
- 57 rollers



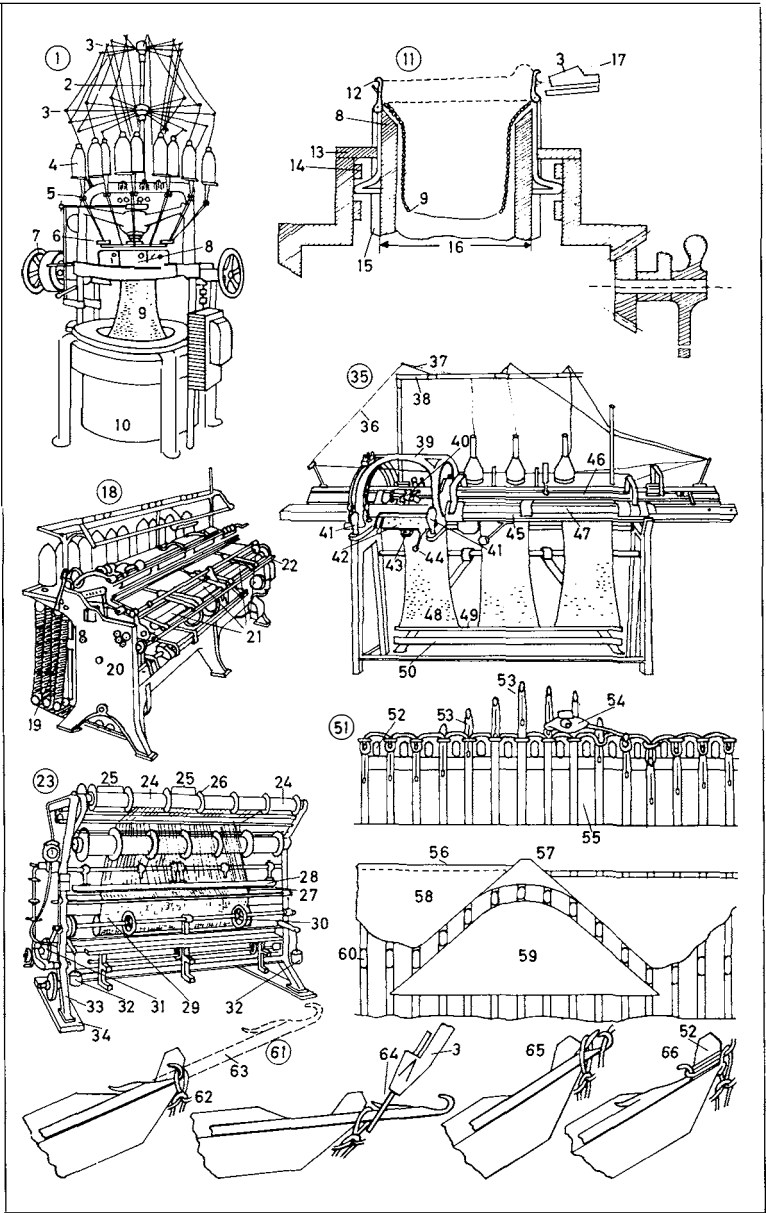
- |  |  |
|--|--|
| 1 weaving machine (automatic loom)                   | 41 sley (slay)                         |
| 2 pick counter (tachometer)                          | 42 race board                          |
| 3 shaft (heald shaft, heald frame) guide             | 43 stop rod blade for the stop motion  |
| 4 shafts (heald shafts, heald frames)                | 44 bumper steel                        |
| 5 rotary battery for weft replenishment              | 45 bumper steel stop rod               |
| 6 sley (slay) cap                                    | 46 breast beam                         |
| 7 weft pirn  | 47 cloth take-up roller                |
| 8 starting and stopping handle                       | 48 warp beam                           |
| 9 shuttle box, with shuttles                         | 49 beam flange                         |
| 10 reed  | 50 crankshaft                          |
| 11 selvage (selvage)                                 | 51 crankshaft wheel                    |
| 12 cloth (woven fabric)                              | 52 connector                           |
| 13 temple (cloth temple)                             | 53 sley (slay)                         |
| 14 electric weft feeler                              | 54 lam rods                            |
| 15 flywheel  | 55 camshaft wheel                      |
| 16 breast beam board                                 | 56 camshaft (tappet shaft)             |
| 17 picking stick (pick stick)                        | 57 tappet (shedding tappet)            |
| 18 electric motor                                    | 58 treadle lever                       |
| 19 cloth take-up motion                              | 59 let-off motion                      |
| 20 cloth roller (fabric roller)                      | 60 beam motion control                 |
| 21 can for empty pirns                               | 61 rope of the warp let-off motion     |
| 22 lug strap, for moving the picking stick           | 62 let-off weight lever                |
| 23 fuse box  | 63 control weight [for the treadle]    |
| 24 loom framing                                      | 64 picker with leather or bakelite pad |
| 25 metal shuttle tip                                 | 65 picking stick buffer                |
| 26 shuttle   | 66 picking cam                         |
| 27 heald (heddle, wire heald, wire heddle)           | 67 picking bowl                        |
| 28 eye (eyelet, heald eyelet, heddle eyelet)         | 68 picking stick return spring         |
| 29 eye (shuttle eye)                                 |  |
| 30 pirn  |  |
| 31 metal contact sleeve for the weft feeler          |  |
| 32 slot for the feeler                               |  |
| 33 spring-clip pirn holder                           |  |
| 34 drop wire   |  |
| 35 weaving machine (automatic loom) [side elevation] |  |
| 36 heald shaft guiding wheels                        |  |
| 37 backrest  |  |
| 38 lease rods  |  |
| 39 warp (warp thread)                                |  |
| 40 shed  |  |



1-66 hosiery mill

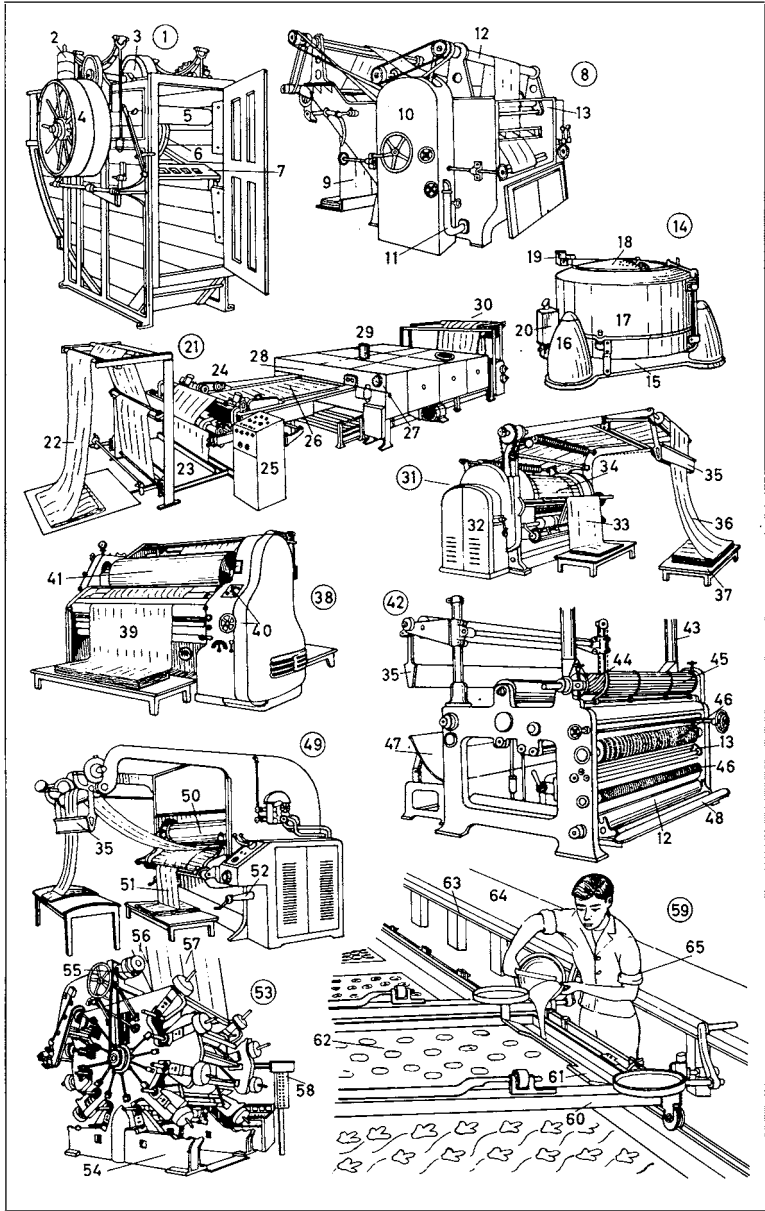
- 1 circular knitting machine for the manufacture of tubular fabric
- 2 yarn guide support post (thread guide support post)
- 3 yarn guide (thread guide)
- 4 bottle bobbin
- 5 yarn-tensioning device
- 6 yarn feeder
- 7 handwheel for rotating the machine by hand
- 8 needle cylinder (cylindrical needle holder)
- 9 tubular fabric
- 10 fabric drum (fabric box, fabric container)
- 11 needle cylinder (cylindrical needle holder) [section]
- 12 latch needles arranged in a circle
- 13 cam housing
- 14 needle cams
- 15 needle trick
- 16 cylinder diameter (*also*: diameter of tubular fabric)
- 17 thread (yarn)
- 18 Cotton's patent flat knitting machine for ladies' fully-fashioned hose
- 19 pattern control chain
- 20 side frame
- 21 knitting head
- 22 starting rod
- 23 Raschel warp-knitting machine
- 24 warp (warp beam)
- 25 yarn-distributing (yarn-dividing) beam
- 26 beam flange
- 27 row of needles
- 28 needle bar
- 29 fabric (Raschel fabric) [curtain lace and net fabrics] on the fabric roll
- 30 handwheel
- 31 motor drive gear
- 32 take-down weight
- 33 frame
- 34 base plate

- 35 hand flat (flat-bed) knitting machine
- 36 thread (yarn)
- 37 return spring
- 38 support for springs
- 39 carriage
- 40 feeder-selecting device
- 41 carriage handles
- 42 scale for regulating size of stitches
- 43 course counter (tachometer)
- 44 machine control lever
- 45 carriage rail
- 46 back row of needles
- 47 front row of needles
- 48 knitted fabric
- 49 tension bar
- 50 tension weight
- 51 needle bed showing knitting action
- 52 teeth of knock-over bit
- 53 needles in parallel rows
- 54 yarn guide (thread guide)
- 55 needle bed
- 56 retaining plate for latch needles
- 57 guard cam
- 58 sinker
- 59 needle-raising cam
- 60 needle butt
- 61 latch needle
- 62 loop
- 63 pushing the needle through the fabric
- 64 yarn guide (thread guide) placing yarn in the needle hook
- 65 loop formation
- 66 casting off of loop



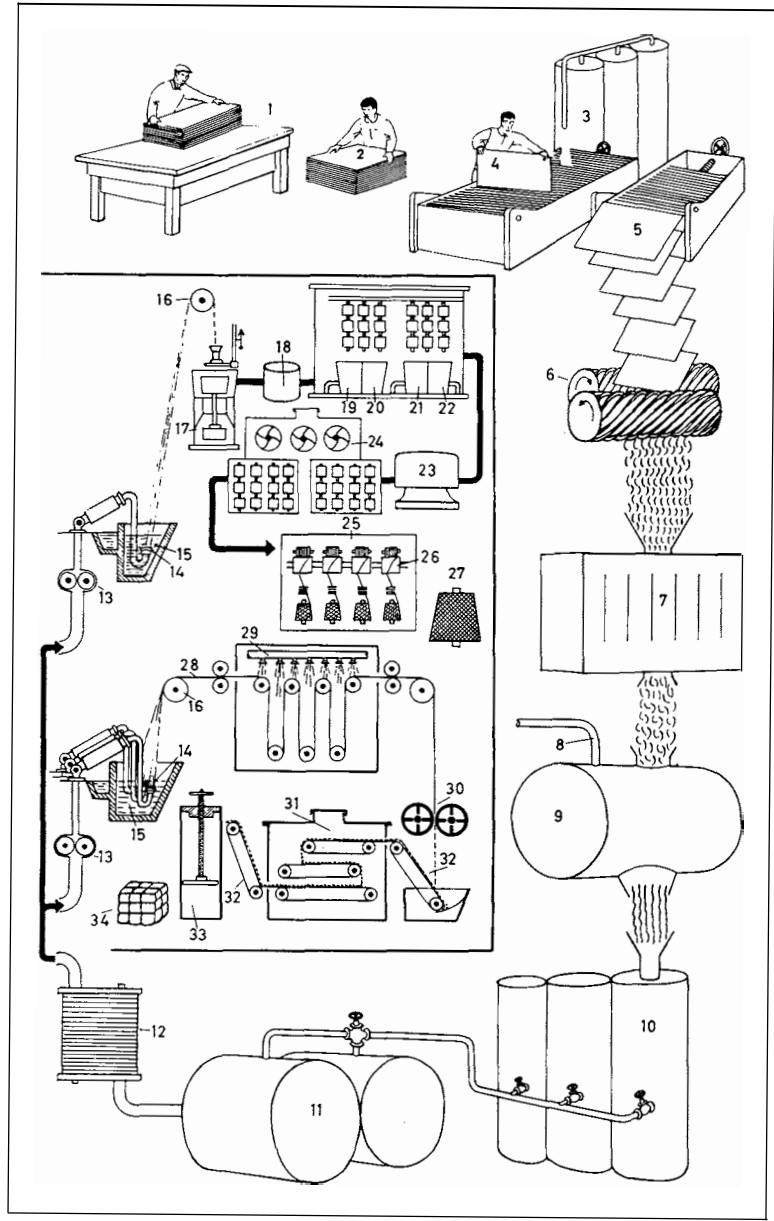
- 1-65 finishing
- 1 rotary milling (fulling) machine for felting the woollen (*Am.* woollen) fabric
- 2 pressure weights
- 3 top milling roller (top fulling roller)
- 4 drive wheel of bottom milling roller (bottom fulling roller)
- 5 fabric guide roller
- 6 bottom milling roller (bottom fulling roller)
- 7 draft board
- 8 open-width scouring machine for finer fabrics
- 9 fabric being drawn off the machine
- 10 drive gearbox
- 11 water inlet pipe
- 12 drawing-in roller
- 13 scroll-opening roller
- 14 pendulum-type hydro-extractor (centrifuge), for extracting liquors from the fabric
- 15 machine base
- 16 casing over suspension
- 17 outer casing containing rotating cage (rotating basket)
- 18 hydro-extractor (centrifuge) lid
- 19 stop-motion device (stopping device)
- 20 automatic starting and braking device
- 21 *for cotton:* stenter; *for wool:* tenter
- 22 air-dry fabric
- 23 operator's (operative's) platform
- 24 feeding of fabric by guides onto stenter (tenter) pins or clips
- 25 electric control panel
- 26 initial overfeed to produce shrink-resistant fabric when dried
- 27 thermometer
- 28 drying section
- 29 air outlet
- 30 plaiter (fabric-plaiting device)
- 31 wire-roller fabric-raising machine for producing raised or nap surface
- 32 drive gearbox

- 33 unraised cloth
- 34 wire-covered rollers
- 35 plaiter (cuttling device)
- 36 raised fabric
- 37 plaiting-down platform
- 38 rotary press (calendering machine), for press finishing
- 39 fabric
- 40 control buttons and control wheels
- 41 heated press bowl
- 42 rotary cloth-shearing machine
- 43 suction slot, for removing loose fibres (*Am.* fibers)
- 44 doctor blade (cutting cylinder)
- 45 protective guard
- 46 rotating brush
- 47 curved scray entry
- 48 treadle control
- 49 [non-shrinking]decatizing (decatizing) fabric-finishing machine
- 50 perforated decatizing (decatizing) cylinder
- 51 piece of fabric
- 52 cranked control handle
- 53 ten-colour (*Am.* ten-color) roller printing machine
- 54 base of the machine
- 55 drive motor
- 56 blanket [of rubber or felt]
- 57 fabric after printing (printed fabric)
- 58 electric control panel (control unit)
- 59 screen printing
- 60 mobile screen frame
- 61 squeegee
- 62 pattern stencil
- 63 screen table
- 64 fabric gummed down on table ready for printing
- 65 screen printing operator (operative)



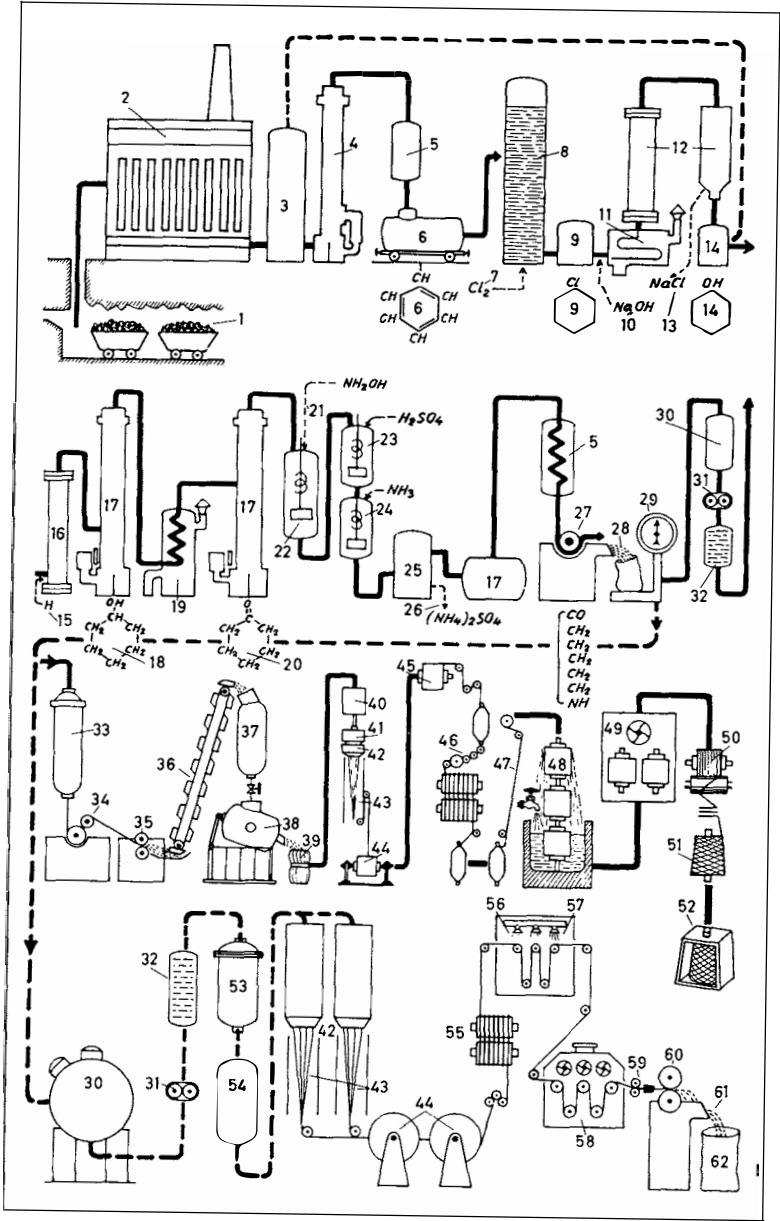
- 1-34 manufacture of continuous filament and staple fibre (Am. fiber) viscose rayon yarns by means of the viscose process
- 1-12 from raw material to viscose rayon
- 1 basic material [beech and spruce cellulose in form of sheets]
- 2 mixing cellulose sheets
- 3 caustic soda
- 4 steeping cellulose sheets in caustic soda
- 5 pressing out excess caustic soda
- 6 shredding the cellulose sheets
- 7 maturing (controlled oxidation) of the alkali-cellulose crumbs
- 8 carbon disulphide (Am. carbon disulfide)
- 9 conversion of alkali-cellulose into cellulose xanthate
- 10 dissolving the xanthate in caustic soda for the preparation of the viscose spinning solution
- 11 vacuum ripening tanks
- 12 filter presses
- 13-27 from viscose to viscose rayon thread
- 13 metering pump
- 14 multi-holed spinneret (spinning jet)
- 15 coagulating (spinning) bath for converting (coagulating) viscose (viscous solution) into solid filaments
- 16 Godet wheel, a glass pulley
- 17 Topham centrifugal pot (box) for twisting the filaments into yarn
- 18 viscose rayon cake
- 19-27 processing of the cake
- 19 washing
- 20 desulphurizing (desulphurization, Am. desulfurizing, desulfurization)
- 21 bleaching
- 22 treating of cake to give filaments softness and suppleness
- 23 hydro-extraction to remove surplus moisture

- 24 drying in heated room
- 25 winding yarn from cake into cone form
- 26 cone-winding machine
- 27 viscose rayon yarn on cone ready for use
- 28-34 from viscose spinning solution to viscose rayon staple fibre (Am. fiber)
- 28 filament tow
- 29 overhead spray washing plant
- 30 cutting machine for cutting filament tow to desired length
- 31 multiple drying machine for cut-up staple fibre (Am. fiber) layer (lap)
- 32 conveyor belt (conveyor)
- 33 baling press
- 34 bale of viscose rayon ready for dispatch (despatch)



- 1-62 manufacture of **polyamide**  
(nylon 6, perlon) **fibres** (Am. fibers)
- 1 coal [raw material for manufacture of polyamide (nylon 6, perlon) fibres (Am. fibers)]
- 2 coking plant for dry coal distillation
- 3 extraction of coal tar and phenol
- 4 gradual distillation of tar
- 5 condenser
- 6 benzene extraction and dispatch (despatch)
- 7 chlorine
- 8 benzene chlorination
- 9 monochlorobenzene (chlorobenzene)
- 10 caustic soda solution
- 11 evaporation of chlorobenzene and caustic soda
- 12 autoclave
- 13 sodium chloride (common salt), a by-product
- 14 phenol (carbolic acid)
- 15 hydrogen inlet
- 16 hydrogenation of phenol to produce raw cyclohexanol
- 17 distillation
- 18 pure cyclohexanol
- 19 oxidation (dehydrogenation)
- 20 formation of cyclohexanone (pimehinketone)
- 21 hydroxylamine inlet
- 22 formation of cyclohexanoxime
- 23 addition of sulphuric acid (Am. sulfuric acid) to effect molecular rearrangement
- 24 ammonia to neutralize sulphuric acid (Am. sulfuric acid)
- 25 formation of caprolactam oil
- 26 ammonium sulphate (Am. ammonium sulfate) solution
- 27 cooling cylinder
- 28 caprolactam
- 29 weighing apparatus
- 30 melting pot
- 31 pump

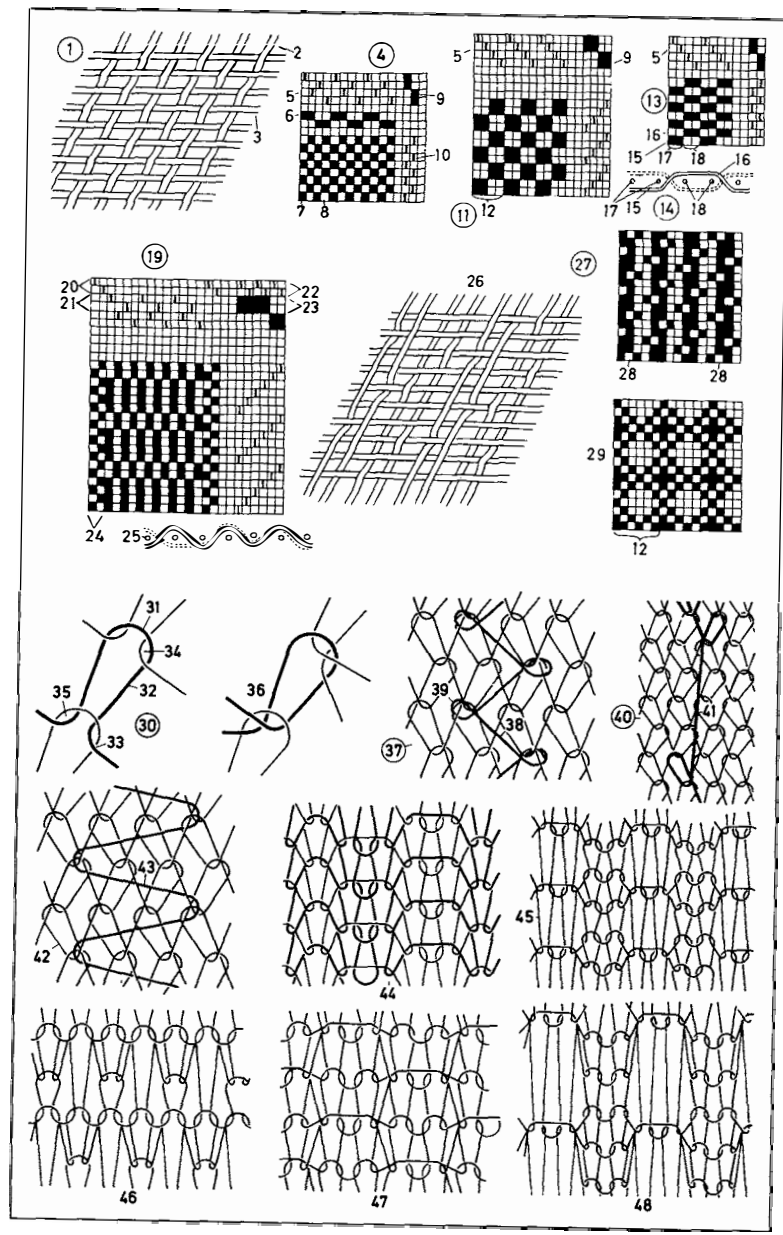
- 32 filter
- 33 polymerization in the autoclave
- 34 cooling of the polyamide
- 35 solidification of the polyamide
- 36 vertical lift (Am. elevator)
- 37 extractor for separating the polyamide from the remaining lactam oil
- 38 drier
- 39 dry polyamide chips
- 40 chip container
- 41 top of spinneret for melting the polyamide and forcing it through spinneret holes (spinning jets)
- 42 spinneret holes (spinning jets)
- 43 solidification of polyamide filaments in the cooling tower
- 44 collection of extruded filaments into thread form
- 45 preliminary stretching (preliminary drawing)
- 46 stretching (cold-drawing) of the polyamide thread to achieve high tensile strength
- 47 final stretching (final drawing)
- 48 washing of yarn packages
- 49 drying chamber
- 50 rewinding
- 51 polyamide cone
- 52 polyamide cone ready for dispatch (despatch)
- 53 mixer
- 54 polymerization under vacua
- 55 stretching (drawing)
- 56 washing
- 57 finishing of tow for spinning
- 58 drying of tow
- 59 crimping of tow
- 60 cutting of tow into normal staple lengths
- 61 polyamide staple
- 62 bale of polyamide staple





- 1-29 weaves [black squares: warp thread raised, weft thread lowered; white squares: weft thread raised, warp thread lowered]
- 1 plain weave (tabby weave) [weave viewed from above]
- 2 warp thread
- 3 weft thread
- 4 draft (point paper design) for plain weave
- 5 threading draft
- 6 denting draft (reed-threading draft)
- 7 raised warp thread
- 8 lowered warp thread
- 9 tie-up of shafts in pairs
- 10 treadling diagram
- 11 draft for basket weave (hopsack weave, matt weave)
- 12 pattern repeat
- 13 draft for warp rib weave
- 14 section of warp rib fabric, a section through the warp
- 15 lowered weft thread
- 16 raised weft thread
- 17 first and second warp threads [raised]
- 18 third and fourth warp threads [lowered]
- 19 draft for combined rib weave
- 20 selvage (selvage) thread draft (additional shafts for the selvage)
- 21 draft for the fabric shafts
- 22 tie-up of selvage (selvage) shafts
- 23 tie-up of fabric shafts
- 24 selvage (selvage) in plain weave
- 25 section through combination rib weave
- 26 thread interlacing of reversible warp-faced cord
- 27 draft (point paper design) for reversible warp-faced cord
- 28 interlacing points
- 29 weaving draft for honeycomb weave in the fabric
- 30-48 basic knits
- 30 loop, an open loop

- 31 head
- 32 side
- 33 neck
- 34 head interlocking point
- 35 neck interlocking point
- 36 closed loop
- 37 mesh [with inlaid yarn]
- 38 diagonal floating yarn (diagonal floating thread)
- 39 loop interlocking at the head
- 40 float
- 41 loose floating yarn (loose floating thread)
- 42 course
- 43 inlaid yarn
- 44 tuck and miss stitch
- 45 pulled-up tuck stitch
- 46 staggered tuck stitch
- 47 2 x 2 tuck and miss stitch
- 48 double pulled-up tuck stitch



- 1-52 sulphate (*Am.* sulfate) pulp mill (kraft pulp mill) [in diagram form]

1 chippers with dust extractor

2 rotary screen (riffler)

3 chip packer (chip distributor)

4 blower

5 disintegrator (crusher, chip crusher)

6 dust-settling chamber

7 digester

8 liquor preheater

9 control tap

10 swing pipe

11 blow tank (diffuser)

12 blow valve

13 blow pit (diffuser)

14 turpentine separator

15 centralized separator

16 jet condenser (injection condenser)

17 storage tank for condensate

18 hot water tank

19 heat exchanger

20 filter

21 presorter

22 centrifugal screen

23 rotary sorter (rotary strainer)

24 concentrator (thickener, decker)

25 vat (chest)

26 collecting tank for backwater (low box)

27 conical refiner (cone refiner, Jordan, Jordan refiner)

28 black liquor filter

29 black liquor storage tank

30 condenser

31 separators

32 heaters (heating elements)

33 liquor pump

34 heavy liquor pump

35 mixing tank

36 salt cake storage tank (sodium sulphate storage tank)

37 dissolving tank (dissolver)

38 steam heater

39 electrostatic precipitator

40 air pump

41 storage tank for the uncleared green liquor

42 concentrator (thickener, decker)

43 green liquor preheater

44 concentrator (thickener, decker) for the weak wash liquor (wash water)

45 storage tank for the weak liquor

46 storage tank for the cooking liquor

47 agitator (stirrer)

48 concentrator (thickener, decker)

49 causticizing agitators (causticizing stirrers)

50 classifier

51 lime slaker

52 reconverted lime

53-65 groundwood mill (mechanical pulp mill) [diagram]

53 continuous grinder (continuous chain grinder)

54 strainer (knotter)

55 pulp water pump

56 centrifugal screen

57 screen (sorter)

58 secondary screen (secondary sorter)

59 rejects chest

60 conical refiner (cone refiner, Jordan, Jordan refiner)

61 pulp-drying machine (pulp machine)

62 concentrator (thickener, decker)

63 waste water pump (white water pump, pulp water pump)

64 steam pipe

65 water pipe

66 continuous grinder (continuous chain grinder)

67 feed chain

68 groundwood

69 reduction gear for the feed chain drive

70 stone-dressing device

71 grinding stone (grindstone, pulpstone)

72 spray pipe

73 conical refiner (cone refiner, Jordan, Jordan refiner)

74 handwheel for adjusting the clearance between the knives (blades)

75 rotating bladed cone (rotating bladed plug)

76 stationary bladed shell

77 inlet for unrefined cellulose (chemical wood pulp, chemical pulp) or groundwood pulp (mechanical pulp)

78 outlet for refined cellulose (chemical wood pulp, chemical pulp) or groundwood pulp (mechanical pulp)

79-86 stuff (stock) preparation plant [diagram]

79 conveyor belt (conveyor) for loading cellulose (chemical wood pulp, chemical pulp) or groundwood pulp (mechanical pulp)

80 pulper

81 dump chest

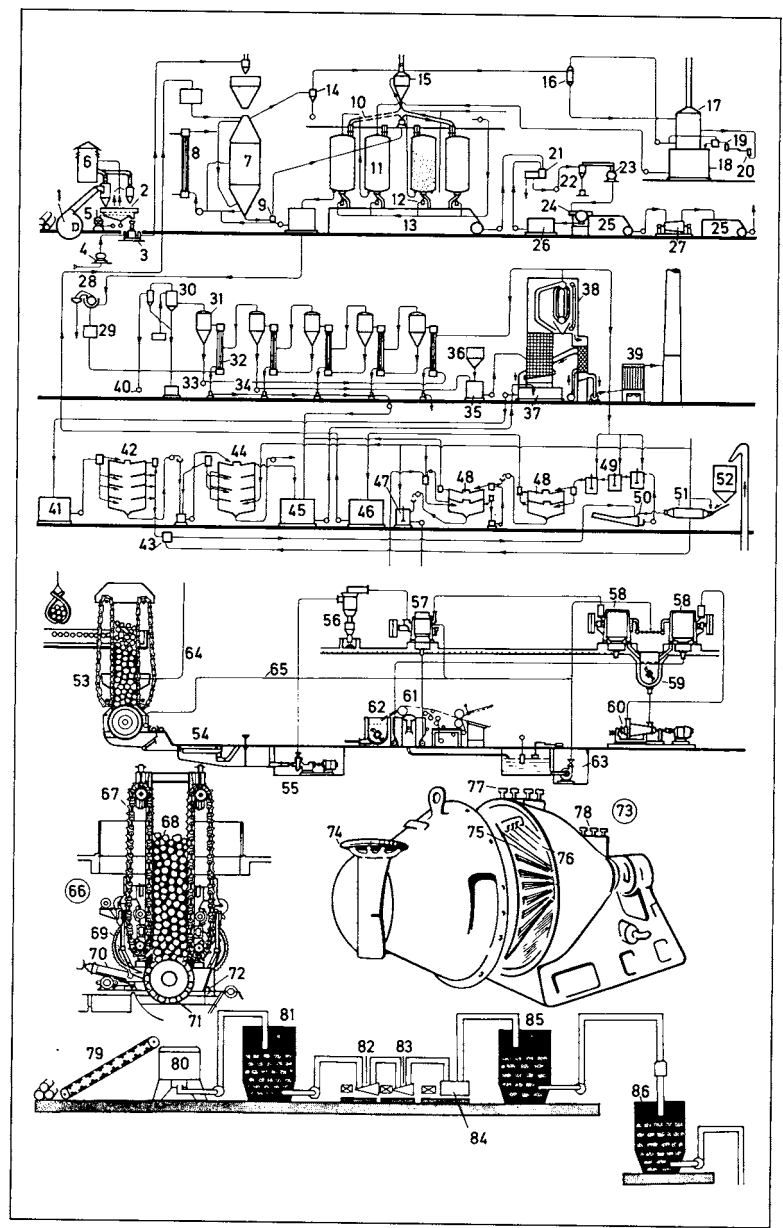
82 cone breaker

83 conical refiner (cone refiner, Jordan, Jordan refiner)

84 refiner

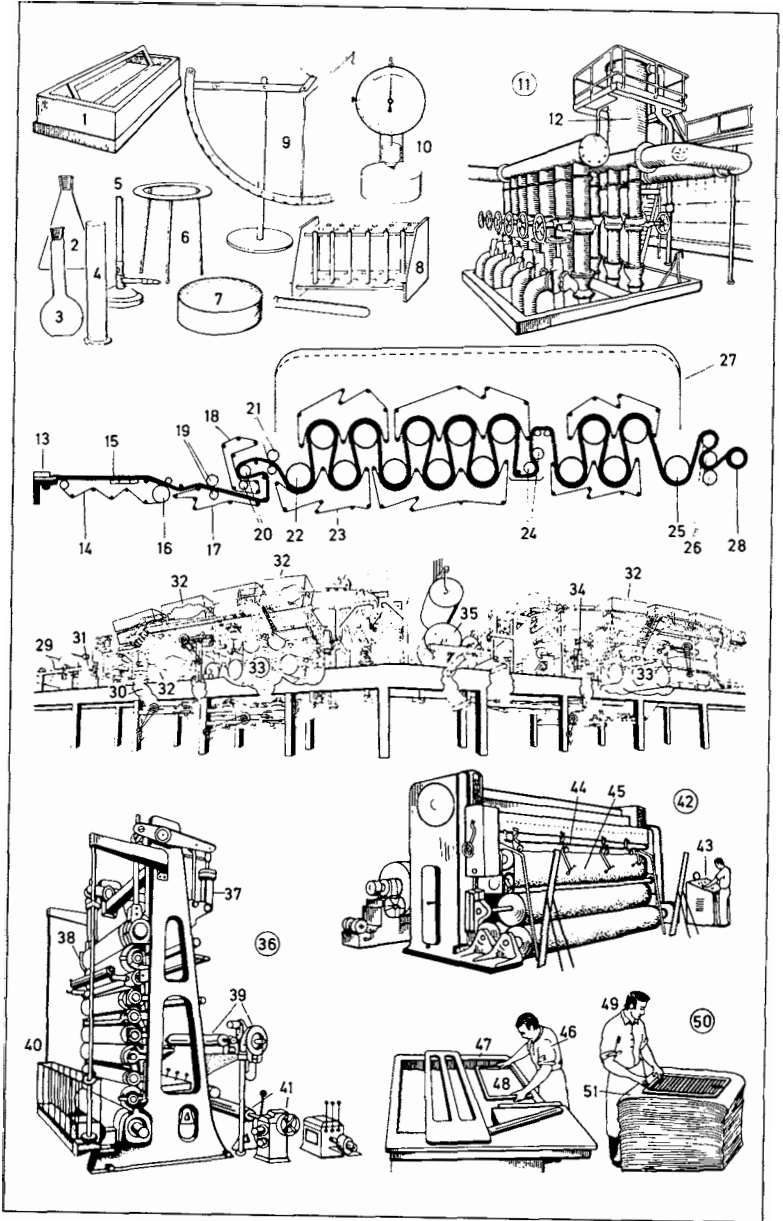
85 stuff chest (stock chest)

86 machine chest (stuff chest)



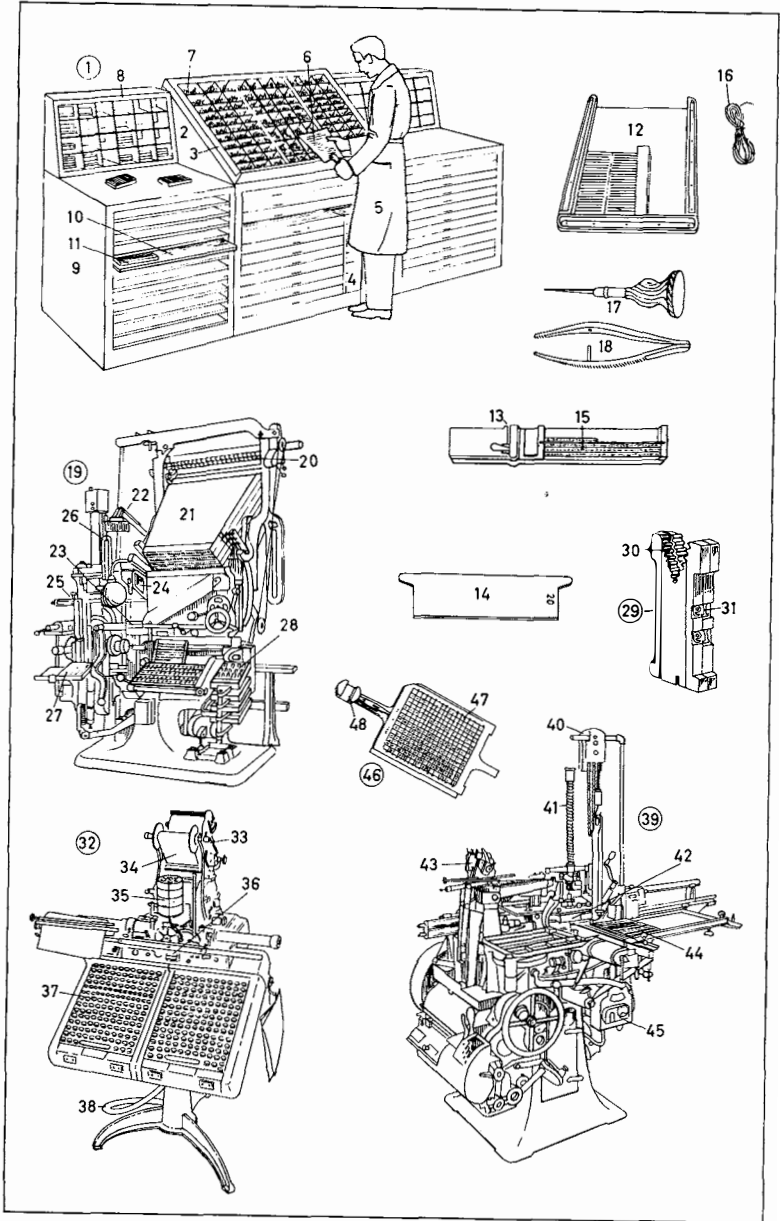
- 1 stuff chest (stock chest, machine chest), a mixing chest for stuff (stock)
- 2-10 laboratory apparatus (laboratory equipment) for analysing stuff (stock) and paper
- 2 Erlenmeyer flask
- 3 volumetric flask
- 4 measuring cylinder
- 5 Bunsen burner
- 6 tripod
- 7 petri dish
- 8 test tube rack
- 9 balance for measuring basis weight
- 10 micrometer
- 11 centrifugal cleaners ahead of the breastbox (headbox, stuff box) of a paper machine
- 12 standpipe
- 13-28 paper machine (production line) [diagram]
- 13 feed-in from the machine chest (stuff chest) with sand table (sand trap, riffler) and knoter
- 14 wire (machine wire)
- 15 vacuum box (suction box)
- 16 suction roll
- 17 first wet felt
- 18 second wet felt
- 19 first press
- 20 second press
- 21 offset press
- 22 drying cylinder (drier)
- 23 dry felt (drier felt)
- 24 size press
- 25 cooling roll
- 26 calender rolls
- 27 machine hood
- 28 delivery reel
- 29-35 blade coating machine (blade coater)
- 29 raw paper (body paper)
- 30 web
- 31 coater for the top side
- 32 infrared drier
- 33 heated drying cylinder
- 34 coater for the underside (wire side)

- 35 reel of coated paper
- 36 calender (super-calender)
- 37 hydraulic system for the press rolls
- 38 calender roll
- 39 unwind station
- 40 lift platform
- 41 rewind station (rewinder, re-reeler, reeling machine, re-reeling machine)
- 42 roll cutter
- 43 control panel
- 44 cutter
- 45 web
- 46-51 papermaking by hand
- 46 vatman
- 47 vat
- 48 mould (*Am. mold*)
- 49 coucher (couchman)
- 50 post ready for pressing
- 51 felt



- 1 hand-setting room (hand-composing room)
- 2 composing frame
- 3 case (typecase)
- 4 case cabinet (case rack)
- 5 hand compositor (compositor, typesetter, maker-up)
- 6 manuscript (typescript)
- 7 sorts (types, type characters, characters)
- 8 rack (case) for furniture (spacing material)
- 9 standing type rack (standing matter rack)
- 10 storage shelf (shelf for storing formes, *Am.* forms)
- 11 standing type (standing matter)
- 12 galley
- 13 composing stick (setting stick)
- 14 composing rule (setting rule)
- 15 type (type matter, matter)
- 16 page cord
- 17 bodkin
- 18 tweezers
- 19 Linotype line-composing (line-casting, slug-composing, slug-casting) machine, a multi-magazine machine
- 20 distributing mechanism (distributor)
- 21 type magazines with matrices (matrixes)
- 22 elevator carrier for distributing the matrices (matrixes)
- 23 assembler
- 24 spacebands
- 25 casting mechanism
- 26 metal feeder
- 27 machine-set matter (cast lines, slugs)
- 28 matrices (matrixes) for hand-setting (sorts)
- 29 Linotype matrix
- 30 teeth for the distributing mechanism (distributor)
- 31 face (type face, matrix)

- 32-45 monotype single-unit composing (typesetting) and casting machine (monotype single-unit composition caster)
- 32 monotype standard composing (typesetting) machine (keyboard)
- 33 paper tower
- 34 paper ribbon
- 35 justifying scale
- 36 unit indicator
- 37 keyboard
- 38 compressed-air hose
- 39 monotype casting machine (monotype caster)
- 40 automatic metal feeder
- 41 pump compression spring (pump pressure spring)
- 42 matrix case (die case)
- 43 paper tower
- 44 galley with types (letters, characters, cast single types, cast single letters)
- 45 electric heater (electric heating unit)
- 46 matrix case (die case)
- 47 type matrices (matrixes) (letter matrixes)
- 48 guide block for engaging with the cross-slide guide



- 1-17 composition (type matter, type)
1 initial (initial letter)
2 bold type (bold, boldfaced type, heavy type, boldface)
3 semibold type (semibold)
4 line
5 space
6 ligature (double letter)
7 italic type (italics)
8 light face type (light face)
9 extra bold type (extra bold)
10 bold condensed type (bold condensed)
11 majuscule (capital letter, capital, upper case letter)
12 minuscule (small letter, lower case letter)
13 letter spacing (interspacing)
14 small capitals
15 break
16 indention
17 space
18 type sizes [one typographic point = 0.376 mm (Didot system), 0.351 mm (Pica system)]
19 six-to-pica (2 points)
20 half nonpareil (four-to-pica) (3 points)
21 brilliant (4 points); *sim.*: diamond (4½ points)
22 pearl (5 points); *sim.*: ruby (*Am.* agate) (5½ points)
23 nonpareil (6 points); *sim.*: minionette (6½ points)
24 minion (7 points)
25 brevier (8 points)
26 bourgeois (9 points)
27 long primer (10 points)
28 pica (12 points)
29 English (14 points)
30 great primer (two-line brevier, *Am.* Columbian) (16 points)
31 paragon (two-line primer) (20 points)
32-37 typefounding (type casting)
32 punch cutter
33 graver (burin, cutter)
34 magnifying glass (magnifier)
35 punch blank (die blank)
36 finished steel punch (finished steel die)
37 punched matrix (stamped matrix, strike, drive)
38 type (type character, character)
39 head
40 shoulder
41 counter
42 face (type face)
43 type line (bodyline)
44 height to paper (type height)
45 height of shank (height of shoulder)
46 body size (type size, point size)
47 nick
48 set (width)
49 matrix-boring machine (matrix-engraving machine), a special-purpose boring machine
50 stand
51 cutter (cutting head)
52 cutting table
53 pantograph carriage
54 V-way
55 pattern
56 pattern table
57 follower
58 pantograph
59 matrix clamp
60 cutter spindle
61 drive motor

1
3
9
2

**Alfred John Dodsley**, essayist and journalist, was born in Wenlock on the 5th August 1841 and died on the 4th October 1920 in Birmingham. His father was a journeyman thatcher and as a boy Dodsley was sent to work in the fields as a bird-scarer. Having taught himself to read and write fluently – for many years the only books he possessed were a Bible and a volume of Tillotson's sermons – he went to Shrewsbury to study. Living in extreme poverty he began to write for the *EAST HEREFORDSHIRE GAZETTE* and a collection of his essays together with some poems on country life was published in 1868 under the title "*Rural Thoughts*". Among his most popular works were "*The Diary of a Derbyshire Shepherd*" (1872), "*Rural Verses*" (1879), "*Leaves from a Countryman's Notebook*" (1893) and "*Memoirs of Nineteenth Century Shropshire*", published posthumously. Dodsley also contributed many articles on country life to London papers and championed the cause of the agricultural worker during the depression of the 1880's. The latter years of his life were embittered by controversy raised by his protests against the unemployment caused by mechanised farming. He was for many years president of the **Society for the Protection of the Liberties of the Farm-worker**.

19
20
21
22
23
24
25
26
27
28
29
30
31

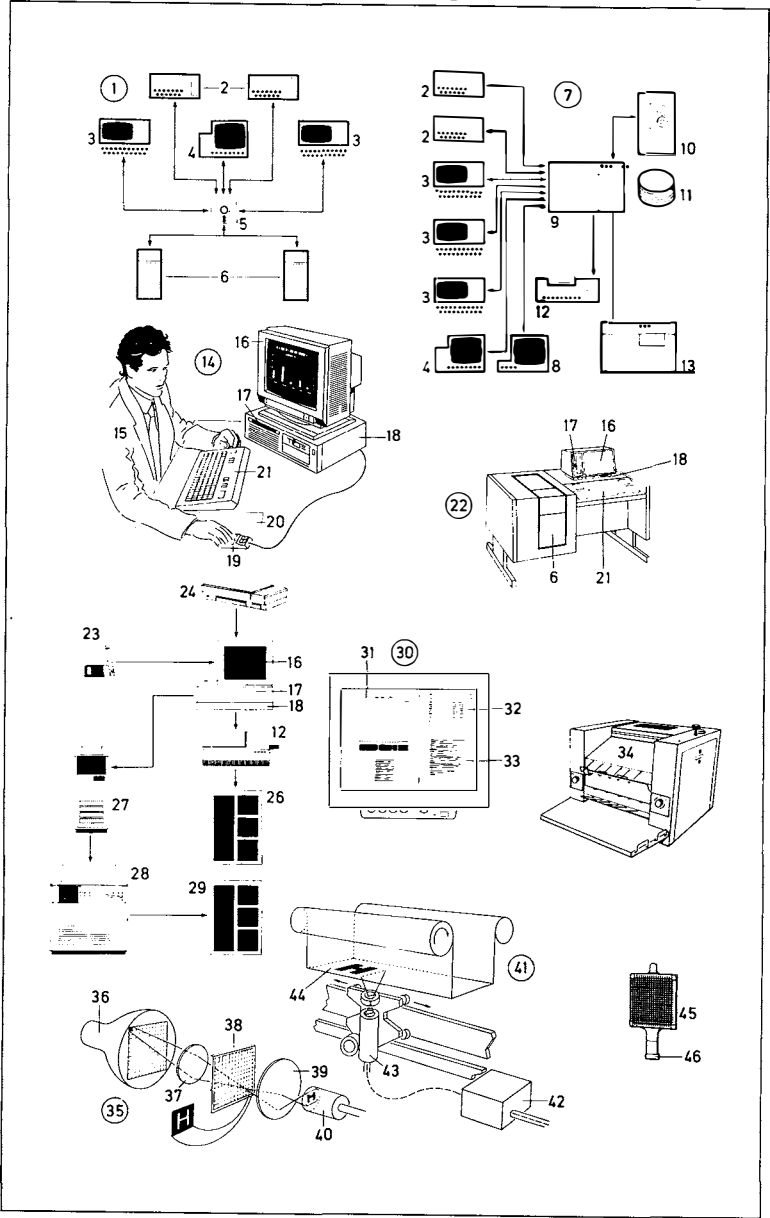
18
N n
N n
N n
N n
N n
N n
N n
N n
N n
N n
N n
N n

34
32
33
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61

# 176 Typesetting Room III (Phototypesetting, Photocomposition, Photosetting)

- 1-21 phototypesetting configurations
- 1 off-line configuration
- 2,3 data capture
- 2 terminal for keying unformatted text
- 3 text capture and correction terminal
- 4 layout terminal (page-layout terminal)
- 5 data carrier, a diskette (floppy disk)
- 6 (photo)typesetting unit (photo-typesetter)
- 7 on-line configuration
- 8 make-up terminal (page make-up terminal)
- 9 central processing unit (typesetting computer)
- 10 magnetic tape unit (magnetic tape drive)
- 11 disk store
- 12 printer, a laser printer
- 13 phototypesetting machine (photo-typesetter)
- 14 text capture (text-capture terminal)
- 15 typesetter (keyboarder or typographer)
- 16 screen (monitor)
- 17 floppy disk drive
- 18 computer and memory unit with central processing unit and hard disk
- 19 mouse, an input device
- 20 mouse mat
- 21 keyboard, an input device
- 22 direct-entry phototypesetter
- 23-33 desktop publishing (DTP)
- 23 diskette (floppy disk) with text, layout, and graphics programs
- 24 scanner (flat-bed scanner)
- 25 personal computer (PC) or workstation
- 26 printout (computer printout)
- 27 raster image processor (RIP)
- 28 laser phototypesetter
- 29 proof
- 30 high-resolution graphics screen, a large-format colour monitor
- 31 display window
- 32 typographic parameters
- 33 (typographic) command window
- 34 film copier
- 35-46 cathode ray tube (CRT) typesetter
- 35 scanning system
- 36 scan-generating (scanning) cathode ray tube (CRT)
- 37 lens
- 38 character grid (matrix case)
- 39 condenser lens
- 40 photomultiplier
- 41 output system
- 42 video amplifier
- 43 character-generating tube (CRT character generator)
- 44 exposure plane
- 45 matrix case
- 46 guide claw

# Typesetting Room III (Phototypesetting, Photocomposition, Photosetting)



- 1

overhead process camera (overhead copying camera)
- 2

focusing screen (ground glass screen)
- 3

hinged screen holder
- 4

graticule
- 5

control console
- 6

hinged bracket-mounted control panel
- 7

percentage focusing charts
- 8

vacuum film holder
- 9

screen magazine
- 10

bellows
- 11

standard
- 12

register device
- 13

overhead gantry
- 14

copyboard
- 15

copyholder
- 16

lamp bracket
- 17

xenon lamp
- 18

copy (original)
- 19

retouching and stripping desk
- 20

illuminated screen
- 21

height and angle adjustment
- 22

copyboard
- 23

linen tester, a magnifying glass
- 24

universal process and reproduction camera
- 25

camera body
- 26

bellows
- 27

lens carrier
- 28

angled mirror
- 29

stand
- 30

copyboard
- 31

halogen lamp
- 32

vertical process camera, a compact camera
- 33

camera body
- 34

focusing screen (ground glass screen)
- 35

vacuum back
- 36

control panel
- 37

flash lamp
- 38

mirror for right-reading images
- 39

scanner (colour, *Am. color*, correction unit)
- 40

base frame
- 41

lamp compartment
- 42

xenon lamp housing
- 43

feed motors
- 44

transparency arm
- 45

scanning drum
- 46

scanning head
- 47

mask-scanning head
- 48

mask drum
- 49

recording space
- 50

daylight cassette
- 51

colour (*Am. color*) computer with control unit and selective colour correction
- 52

engraving machine
- 53

seamless engraving adjustment
- 54

drive clutch
- 55

clutch flange
- 56

drive unit
- 57

machine bed
- 58

equipment carrier
- 59

bed slide
- 60

control panel
- 61

bearing block
- 62

tailstock
- 63

scanning head
- 64

copy cylinder
- 65

centre (*Am. center*) bearing
- 66

engraving system
- 67

printing cylinder
- 68

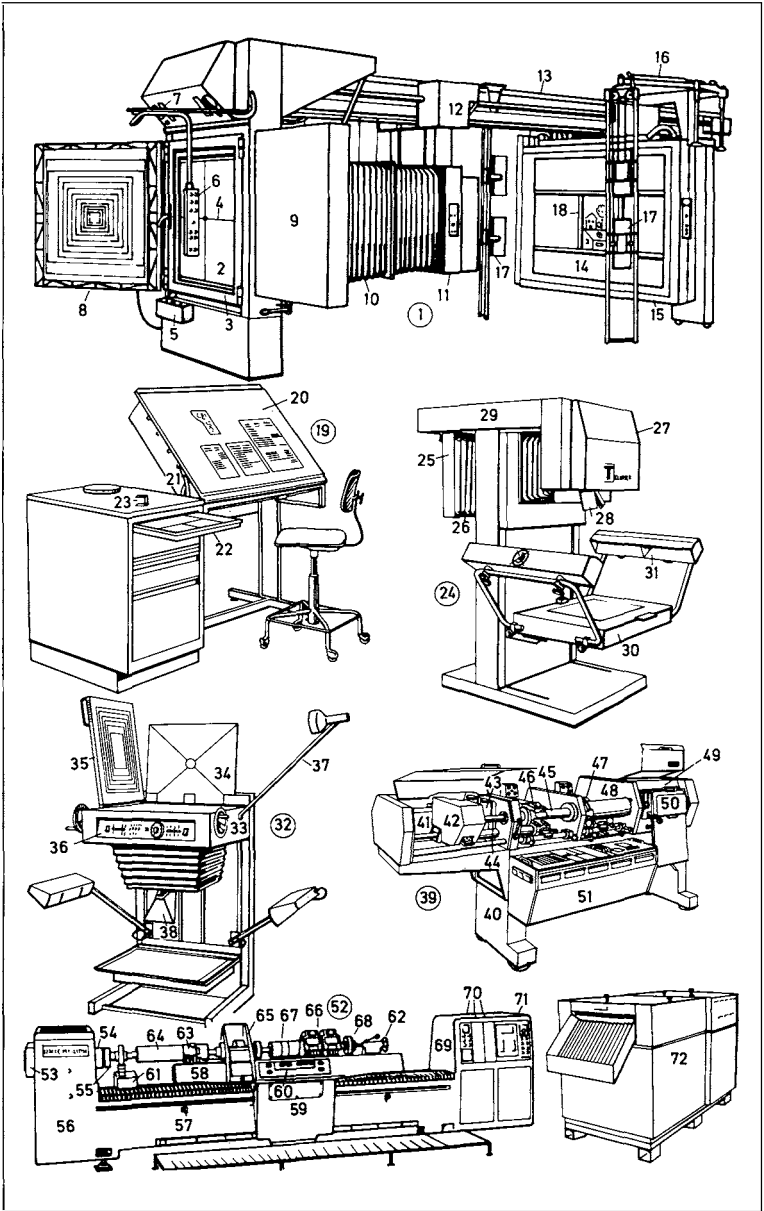
cylinder arm
- 69

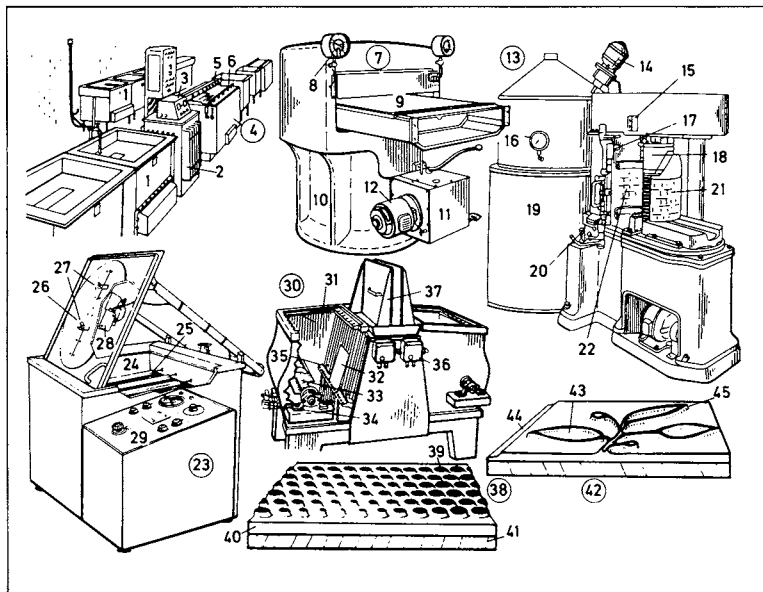
electronics (electronic) cabinet
- 70

computers
- 71

program input
- 72

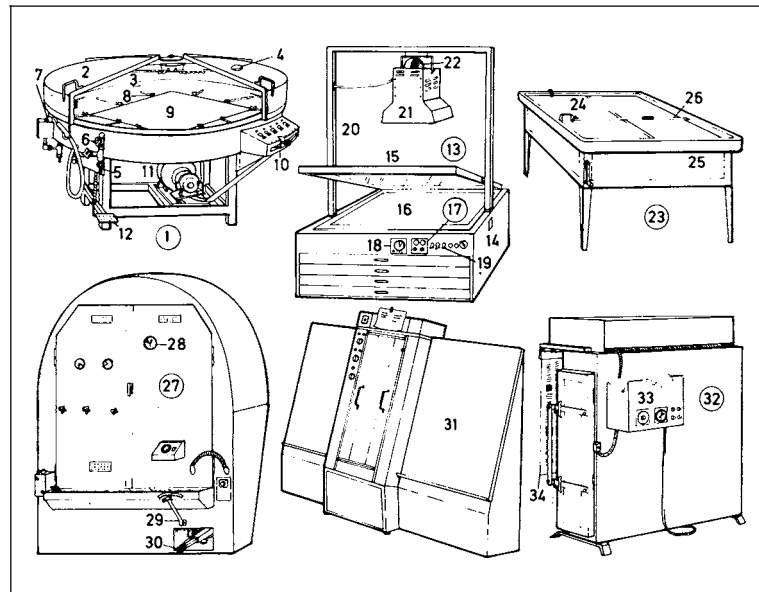
automatic film processor for scanner films



**1-6 electrotyping plant**

- 1 cleaning tank
- 2 rectifier
- 3 measuring and control unit
- 4 electroplating tank (electroplating bath, electroplating vat)
- 5 anode rod (with copper anodes)
- 6 plate rod (cathode)
- 7 **hydraulic moulding** (*Am.* molding) press
- 8 pressure gauge (*Am.* gage) (manometer)
- 9 apron
- 10 round base
- 11 hydraulic pressure pump
- 12 drive motor
- 13 **curved plate casting machine** (curved electrotype casting machine)
- 14 motor
- 15 control knobs
- 16 pyrometer
- 17 mouth piece
- 18 core
- 19 melting furnace
- 20 starting lever
- 21 cast curved plate (cast curved electrotype) for rotary printing
- 22 fixed mould (*Am.* mold)
- 23 **etching machine**

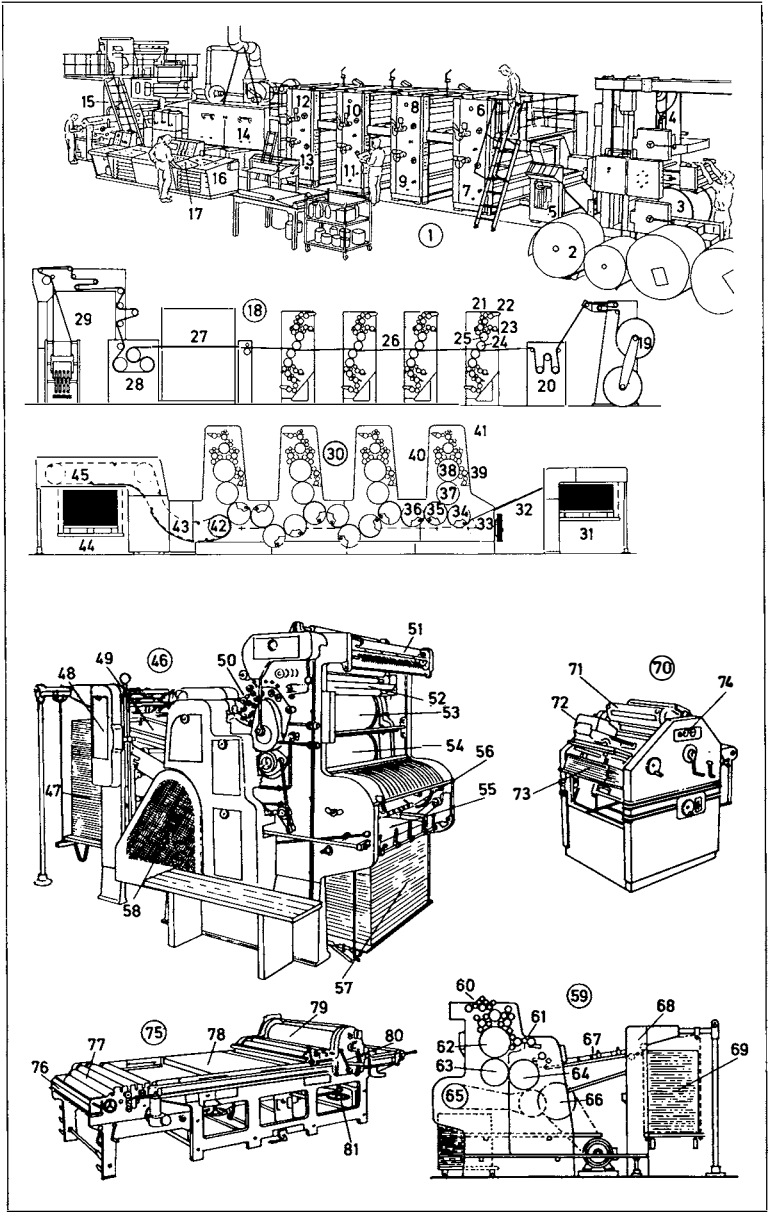
- 24 etching tank with etching solution (etchant, mordant) and filming agent (film former)
- 25 paddles
- 26 turntable
- 27 plate clamp
- 28 drive motor
- 29 control unit
- 30 **twin etching machine**
- 31 etching tank (etching bath) [in section]
- 32 photoprinted zinc plate
- 33 paddle
- 34 outlet cock (drain cock, *Am.* faucet)
- 35 plate rack
- 36 control switches
- 37 lid
- 38 **halftone photoengraving** (halftone block, halftone plate), a block (plate, printing plate)
- 39 dot (halftone dot), a printing element
- 40 etched zinc plate
- 41 block mount (block mounting, plate mount, plate mounting)
- 42 **line block** (line engraving, line etching, line plate, line cut)
- 43 non-printing, deep-etched areas
- 44 flange (bevel edge)
- 45 sidewall



- 1 plate whirler (whirler, plate-coating machine) for coating offset plates
- 2 sliding lid
- 3 electric heater
- 4 temperature gauge (*Am.* gage)
- 5 water connection for the spray unit
- 6 spray unit
- 7 hand spray
- 8 plate clamps
- 9 zinc plate (*also*: magnesium plate, copper plate)
- 10 control panel
- 11 drive motor
- 12 brake pedal
- 13 vacuum printing frame (vacuum frame, printing-down frame)
- 14 base of the vacuum printing frame (vacuum frame, printing-down frame)
- 15 plate glass frame
- 16 coated offset plate
- 17 control panel
- 18 exposure timer
- 19 vacuum pump switches
- 20 support
- 21 point light exposure lamp, a quartz-halogen lamp
- 22 fan blower
- 23 stripping table (make-up table) for stripping films
- 24 crystal glass screen
- 25 light box
- 26 straightedge rules
- 27 vertical plate-drying cabinet
- 28 hygrometer
- 29 speed control
- 30 brake pedal
- 31 processing machine for presensitized plates
- 32 burning-in oven for glue-enamel plates (diazo plates)
- 33 control box (control unit)
- 34 diazo plate



- 1 four-colour (*Am.* four-color) rotary off-set press (rotary offset machine, web-offset press)
- 2 roll of unprinted paper (blank paper)
- 3 reel stand (carrier for the roll of unprinted paper)
- 4 forwarding rolls
- 5 side margin control (margin control, side control, side lay control)
- 6-13 inking units (inker units)
- 6, 8, 10, 12 inking units (inker units) in the upper printing unit
- 6, 7 perfecting unit (double unit) for yellow
- 7, 9, 11, 13 inking units (inker units) in the lower printing unit
- 8, 9 perfecting unit (double unit) for cyan
- 10, 11 perfecting unit (double unit) for magenta
- 12, 13 perfecting unit (double unit) for black
- 14 drier
- 15 folder (folder unit)
- 16 control desk
- 17 sheet
- 18 four-colour (*Am.* four-color) rotary off-set press (rotary offset machine, web-offset press) [diagram]
- 19 reel stand
- 20 side margin control (margin control, side control, side lay control)
- 21 inking rollers (ink rollers, inkers)
- 22 ink duct (ink fountain)
- 23 damping rollers (dampening rollers, dampers, dampeners)
- 24 blanket cylinder
- 25 plate cylinder
- 26 route of the paper (of the web)
- 27 drier
- 28 chilling rolls (cooling rollers, chill rollers)
- 29 folder (folder unit)
- 30 four-colour (*Am.* four-color) sheet-fed offset machine (offset press) [diagram]
- 31 sheet feeder (feeder)
- 32 feed table (feed board)
- 33 route of the sheets through swing-grippers to the feed drum
- 34 feed drum
- 35 impression cylinder
- 36 transfer drums (transfer cylinders)
- 37 blanket cylinder
- 38 plate cylinder
- 39 damping unit (dampening unit)
- 40 inking unit (inker unit)
- 41 printing unit
- 42 delivery cylinder
- 43 chain delivery
- 44 delivery pile
- 45 delivery unit (delivery mechanism)
- 46 single-colour (*Am.* single-color) offset press (offset machine)
- 47 pile of paper (sheets, printing paper)
- 48 sheet feeder (feeder), an automatic pile feeder
- 49 feed table (feed board)
- 50 inking rollers (ink rollers, inkers)
- 51 inking unit (inker unit)
- 52 damping rollers (dampening rollers, dampers, dampeners)
- 53 plate cylinder, a zinc plate
- 54 blanket cylinder, a steel cylinder with rubber blanket
- 55 pile delivery unit for the printed sheets
- 56 gripper bar, a chain gripper
- 57 pile of printed paper (printed sheets)
- 58 guard for the V-belt (vee-belt) drive
- 59 single-colour (*Am.* single-color) offset press (offset machine) [diagram]
- 60 inking unit (inker unit) with inking rollers (ink rollers, inkers)
- 61 damping unit (dampening unit) with damping rollers (dampening rollers, dampers, dampeners)
- 62 plate cylinder
- 63 blanket cylinder
- 64 impression cylinder
- 65 delivery cylinders with grippers
- 66 drive wheel
- 67 feed table (feed board)
- 68 sheet feeder (feeder)
- 69 pile of unprinted paper (blank paper, unprinted sheets, blank sheets)
- 70 small sheet-fed offset press
- 71 inking unit (inker unit)
- 72 suction feeder
- 73 pile feeder
- 74 instrument panel (control panel) with counter, pressure gauge (*Am.* gage), air regulator, and control switch for the sheet feeder (feeder)
- 75 flat-bed offset press (offset machine) ('Mailänder' proofing press, proof press)
- 76 inking unit (inker unit)
- 77 inking rollers (ink rollers, inkers)
- 78 bed (press bed, type bed, forme bed, *Am.* form bed)
- 79 cylinder with rubber blanket
- 80 starting and stopping lever for the printing unit
- 81 impression-setting wheel (impression-adjusting wheel)

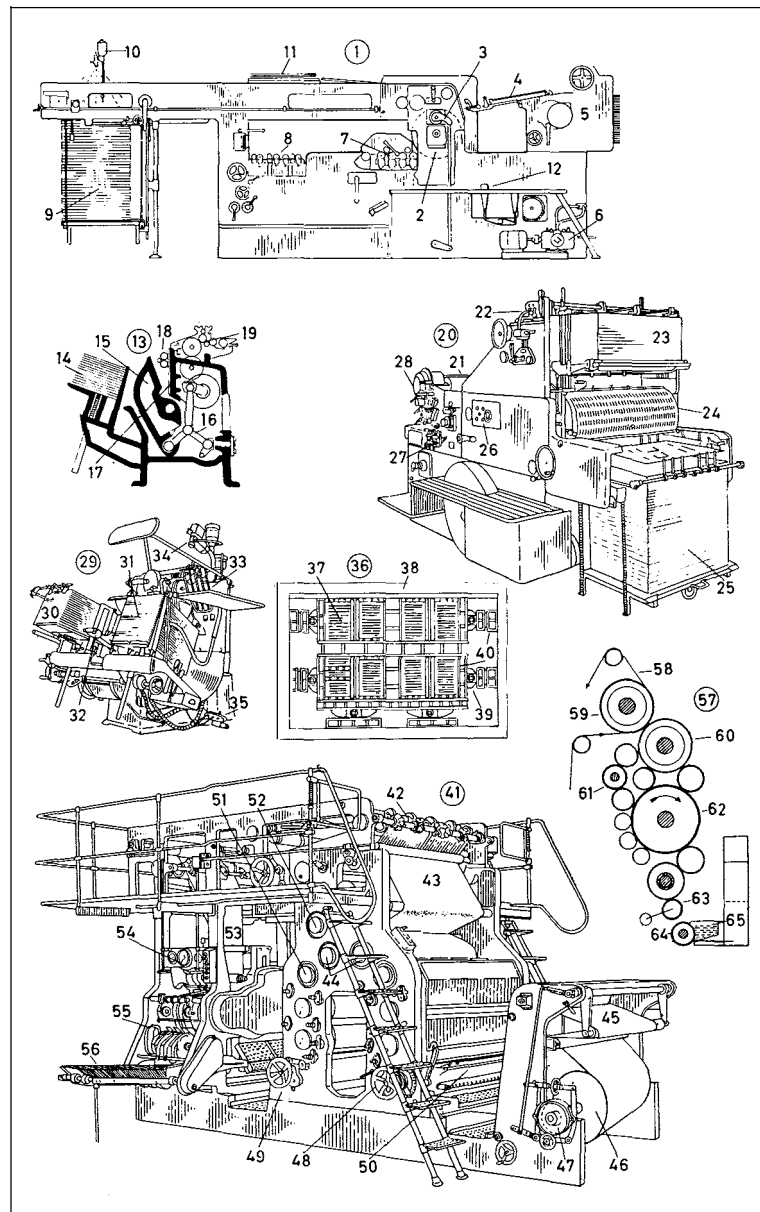


# 1-65 presses (machines) for letterpress printing (letterpress printing machines)

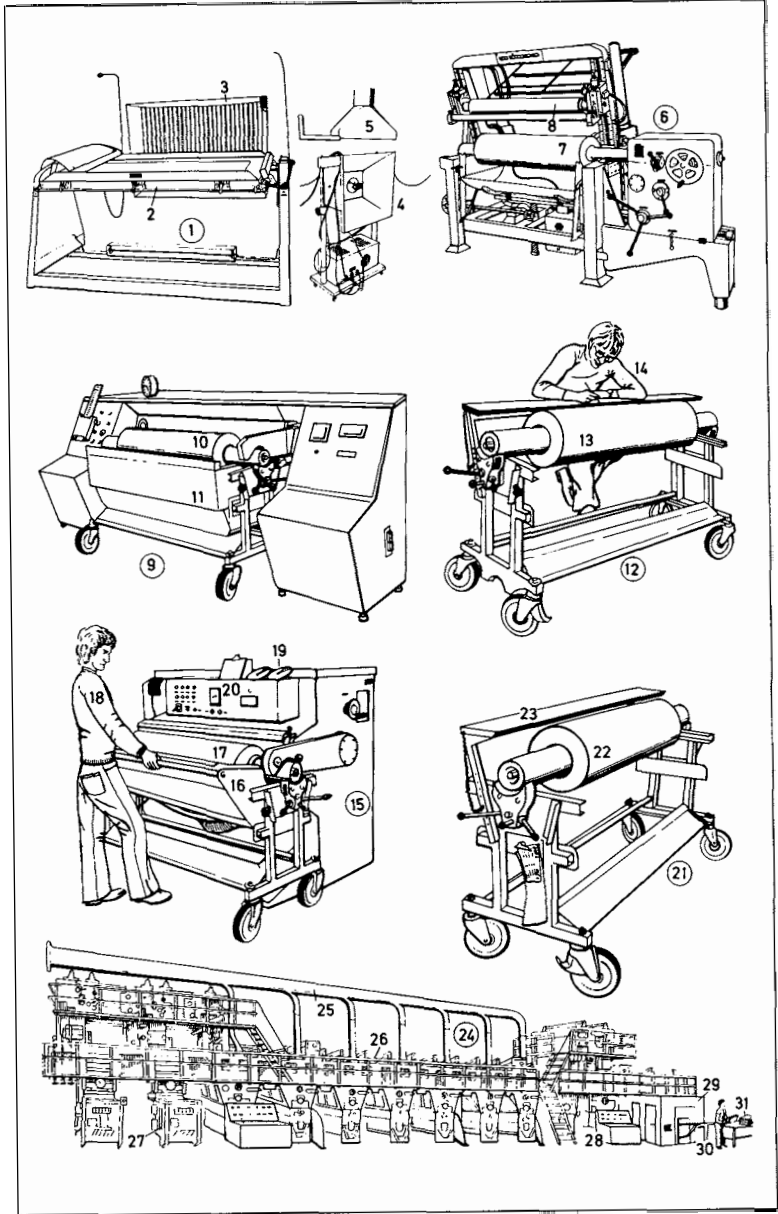
## 1 two-revolution flat-bed cylinder press

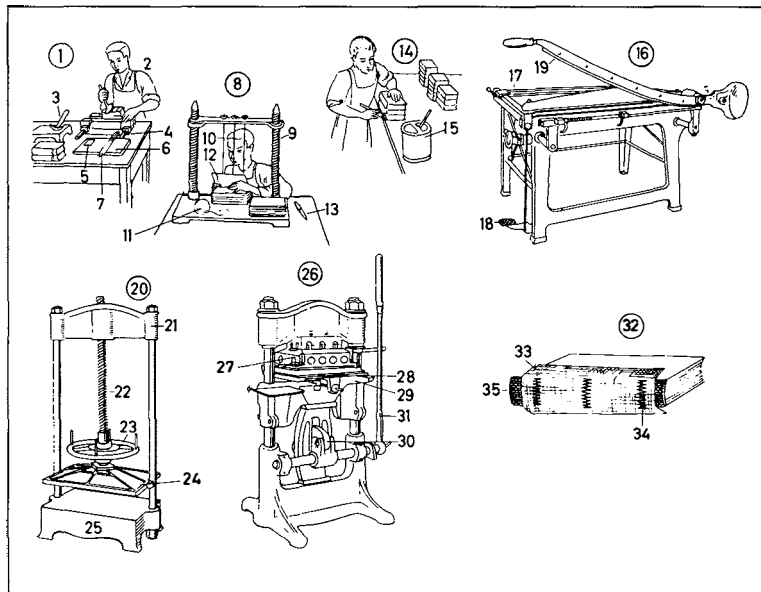
- 2 impression cylinder
- 3 lever for raising or lowering the cylinder
- 4 feed table (feed board)
- 5 automatic sheet feeder (feeder) [operated by vacuum and air blasts]
- 6 air pump for the feeder and delivery
- 7 inking unit (inker unit) with distributing rollers (distributor rollers, distributors) and forme rollers (*Am.* form rollers)
- 8 ink slab (ink plate) inking unit (inker unit)
- 9 delivery pile for printed paper
- 10 sprayer (anti set-off apparatus, anti set-off spray) for dusting the printed sheets
- 11 interleaving device
- 12 foot pedal for starting and stopping the press
- 13 **platen press** (platen machine, platen) [in section]
- 14 paper feed and delivery (paper feeding and delivery unit)
- 15 platen
- 16 toggle action (toggle-joint action)
- 17 bed (type bed, press bed, forme bed, *Am.* form bed)
- 18 forme rollers (*Am.* form rollers) (forme-inking, *Am.* form-inking, rollers)
- 19 inking unit (inker unit) for distributing the ink (printing ink)
- 20 **stop-cylinder press** (stop-cylinder machine)
- 21 feed table (feed board)
- 22 feeder mechanism (feeding apparatus, feeder)
- 23 pile of unprinted paper (blank paper, unprinted sheets, blank sheets)
- 24 guard for the sheet feeder (feeder)
- 25 pile of printed paper (printed sheets)
- 26 control mechanism
- 27 forme rollers (*Am.* form rollers) (forme-inking, *Am.* form-inking, rollers)
- 28 inking unit (inker unit)

- 29 [Heidelberg] **platen press** (platen machine, platen)
- 30 feed table (feed board) with pile of unprinted paper (blank paper, unprinted sheets, blank sheets)
- 31 delivery table
- 32 starting and stopping lever
- 33 delivery blower
- 34 spray gun (sprayer)
- 35 air pump for vacuum and air blasts
- 36 **locked-up forme** (*Am.* form)
- 37 type (type matter, matter)
- 38 chase
- 39 quoin
- 40 length of furniture
- 41 **rotary letterpress press** (rotary letterpress machine, web-fed letterpress machine) for newspapers of up to 16 pages
- 42 slitters for dividing the width of the web
- 43 web
- 44 impression cylinder
- 45 jockey roller (compensating roller, compensator, tension roller)
- 46 roll of paper
- 47 automatic brake
- 48 first printing unit
- 49 perfecting unit
- 50 inking unit (inker unit)
- 51 plate cylinder
- 52 second printing unit
- 53 former
- 54 tachometer with sheet counter
- 55 folder (folder unit)
- 56 folded newspaper
- 57 **inking unit** (inker unit) for the rotary press (web-fed press) [in section]
- 58 web
- 59 impression cylinder
- 60 plate cylinder
- 61 forme rollers (*Am.* form rollers) (forme-inking, *Am.* form-inking, rollers)
- 62 distributing rollers (distributor rollers, distributors)
- 63 lifter roller (ductor, ductor roller)
- 64 duct roller (fountain roller, ink fountain roller)
- 65 ink duct (ink fountain)



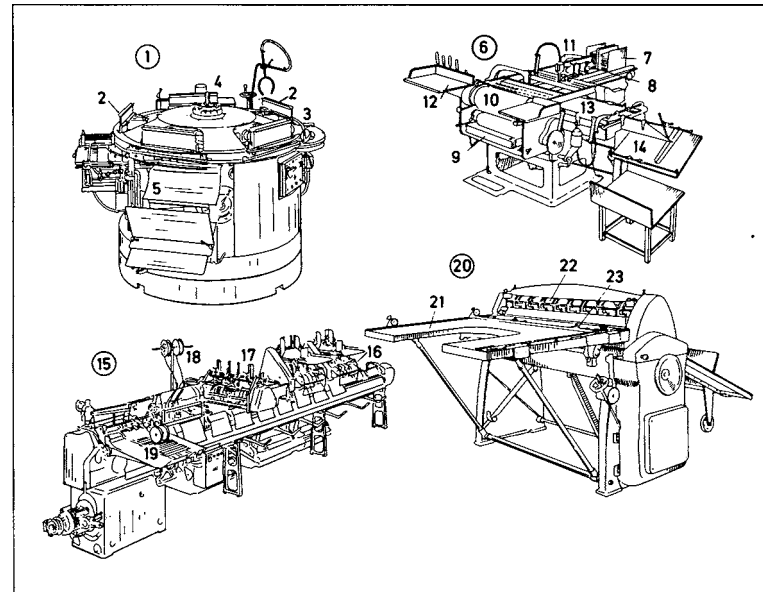
- 1 exposure of the carbon tissue (pigment paper)
- 2 vacuum frame
- 3 exposing lamp, a bank of quartz-halogen lamps
- 4 point source lamp
- 5 heat extractor
- 6 carbon tissue transfer machine (laydown machine, laying machine)
- 7 polished copper cylinder
- 8 rubber roller for pressing on the printed carbon tissue (pigment paper)
- 9 cylinder-processing machine
- 10 gravure cylinder coated with carbon tissue (pigment paper)
- 11 developing tank
- 12 staging
- 13 developed cylinder
- 14 retoucher painting out (stopping out)
- 15 etching machine
- 16 etching tank with etching solution (etchant, mordant)
- 17 printed gravure cylinder
- 18 gravure etcher
- 19 calculator dial
- 20 timer
- 21 revising (correcting) the cylinder
- 22 etched gravure cylinder
- 23 ledge
- 24 multicolour (*Am.* multicolor) rotogravure press
- 25 exhaust pipe for solvent fumes
- 26 reversible printing unit
- 27 folder (folder unit)
- 28 control desk
- 29 newspaper delivery unit
- 30 conveyor belt (conveyor)
- 31 bundled stack of newspapers





### 1-35 hand bookbinding (hand bindery)

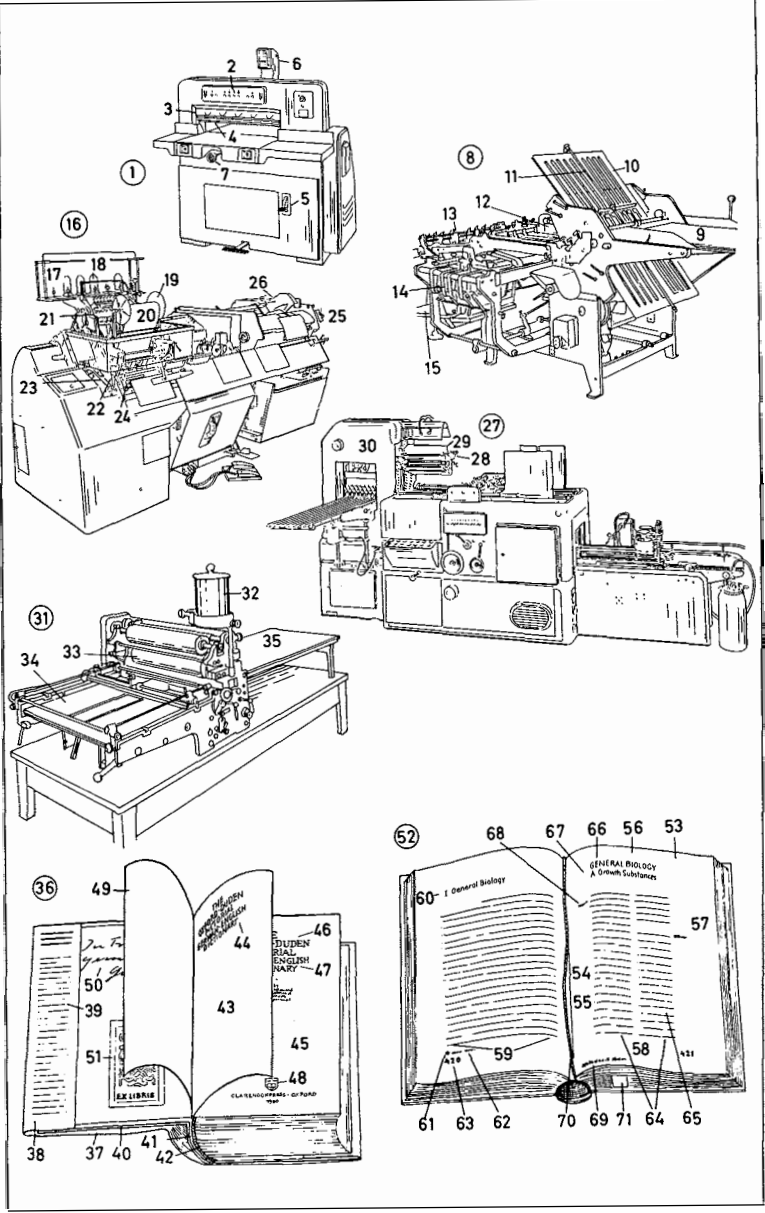
- 1 gilding the spine of the book
- 2 gold finisher (gilder), a bookbinder
- 3 fillet
- 4 holding press (finishing press)
- 5 gold leaf
- 6 gold cushion
- 7 gold knife
- 8 sewing (stitching)
- 9 sewing frame
- 10 sewing cord
- 11 ball of thread (sewing thread)
- 12 section (signature)
- 13 bookbinder's knife
- 14 gluing the spine
- 15 glue pot
- 16 board cutter (guillotine)
- 17 back gauge (*Am. gage*)
- 18 clamp with foot pedal
- 19 cutting blade
- 20 standing press, a nipping press
- 21 head piece (head beam)
- 22 spindle
- 23 handwheel
- 24 platen
- 25 bed (base)
- 26 gilding (gold blocking) and embossing press, a hand-lever press; *sim.*: toggle-joint press (toggle-lever press)
- 27 heating box
- 28 sliding plate
- 29 embossing platen
- 30 toggle action (toggle-joint action)
- 31 hand lever
- 32 book sewn on gauze (mull, scrim) (book block)
- 33 gauze (mull, scrim)
- 34 sewing (stitching)
- 35 headband



### 1-23 bookbinding machines

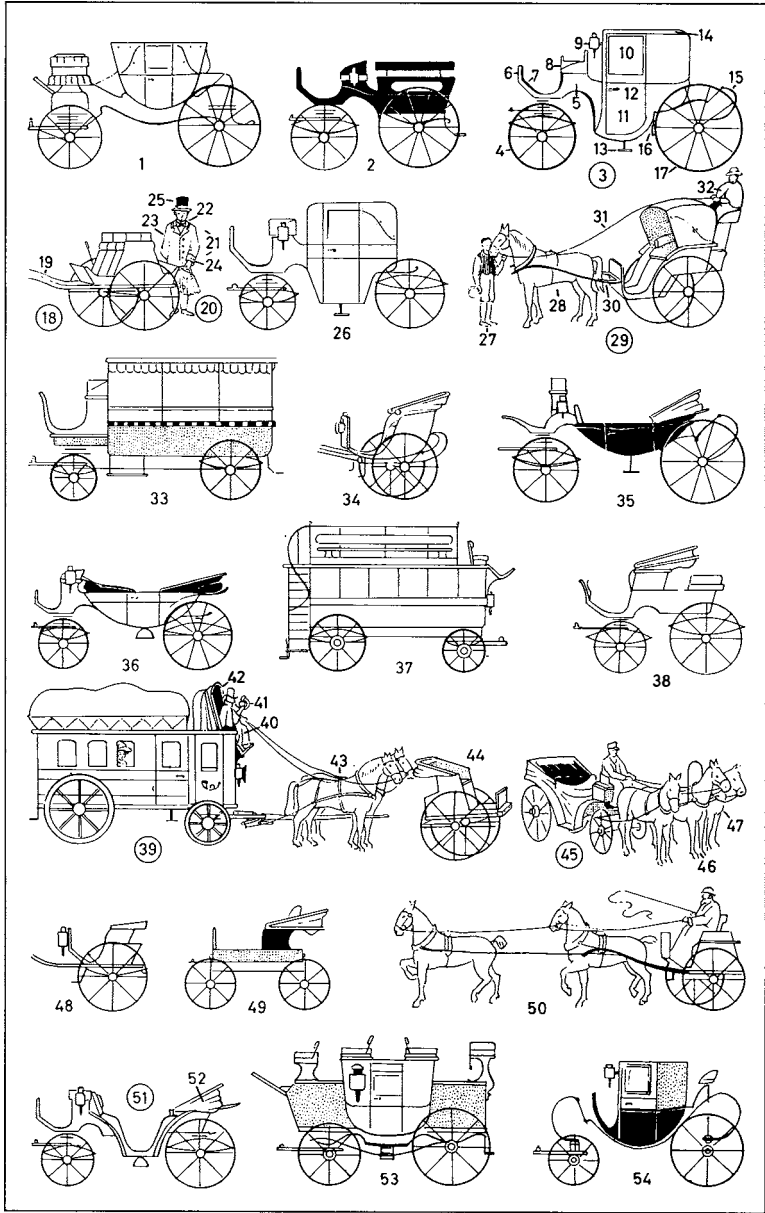
- 1 adhesive binder (perfect binder) for short runs
- 2 manual feed station
- 3 cutoff knife and roughing station
- 4 gluing mechanism
- 5 delivery (book delivery)
- 6 case maker (case-making machine)
- 7 board feed hoppers
- 8 pick-up suckers
- 9 glue tank
- 10 cover cylinder
- 11 picker head
- 12 feed table for covering materials [linen, paper, leather]
- 13 pressing mechanism
- 14 delivery table
- 15 gang stitcher (gathering and wire-stitching machine, gatherer and wire stitcher)
- 16 sheet feeder (sheet-feeding station)
- 17 folder-feeding station
- 18 stitching wire feed mechanism
- 19 delivery table
- 20 rotary board cutter (rotary board-cutting machine)
- 21 feed table with cut-out section
- 22 rotary cutter
- 23 feed guide

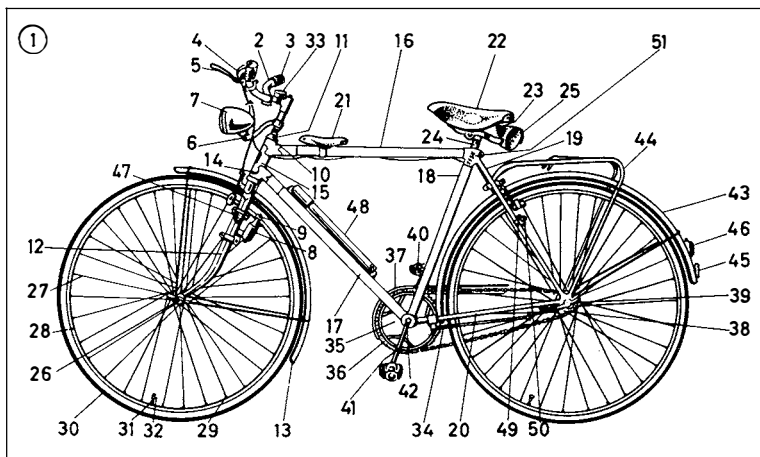
- 1-35
bookbinding machines
- 1
guillotine (guillotine cutter, automatic guillotine cutter)
- 2
control panel
- 3
clamp
- 4
back gauge (Am. gage)
- 5
calibrated pressure adjustment [to clamp]
- 6
illuminated cutting scale
- 7
single-hand control for the back gauge (Am. gage)
- 8
combined buckle and knife folding machine (combined buckle and knife folder)
- 9
feed table (feed board)
- 10
fold plates
- 11
stop for making the buckle fold
- 12
cross fold knives
- 13
belt delivery for parallel-folded signatures
- 14
third cross fold unit
- 15
delivery tray for cross-folded signatures
- 16
sewing machine (book-sewing machine)
- 17
spool holder
- 18
thread cop (thread spool)
- 19
gauze roll holder (mull roll holder, scrim roll holder)
- 20
gauze (mull, scrim)
- 21
needle cylinders with sewing needles
- 22
sewn book
- 23
delivery
- 24
reciprocating saddle
- 25
sheet feeder (feeder)
- 26
feed hopper
- 27
casing-in machine
- 28
joint and side pasting attachment
- 29
blade
- 30
preheater unit
- 31
gluing machine for whole-surface, stencil, edge, and strip gluing
- 32
glue tank
- 33
glue roller
- 34
feed table
- 35
delivery
- 36
book
- 37
dust jacket (dust cover, book jacket, wrapper), a publisher's wrapper
- 38
jacket flap
- 39
blurb
- 40-42
binding
- 40
cover (book cover, case)
- 41
spine (backbone, back)
- 42
tailband (footband)
- 43-47
preliminary matter (prelims, front matter)
- 43
half-title
- 44
half-title (bastard title, fly title)
- 45
title page
- 46
full title (main title)
- 47
subtitle
- 48
publisher's imprint (imprint)
- 49
fly leaf (endpaper, endleaf)
- 50
handwritten dedication
- 51
bookplate (ex libris)
- 52
open book
- 53
page
- 54
fold
- 55-58
margin
- 55
back margin (inside margin, gutter)
- 56
head margin (upper margin)
- 57
fore edge margin (outside margin, fore edge)
- 58
tail margin (foot margin, tail, foot)
- 59
type area
- 60
chapter heading
- 61
asterisk
- 62
footnote
- 63
page number
- 64
double-column page
- 65
column
- 66
running title (running head)
- 67
caption
- 68
marginal note (side note)
- 69
signature (signature code)
- 70
attached bookmark (attached bookmarker)
- 71
loose bookmark (loose bookmarker)



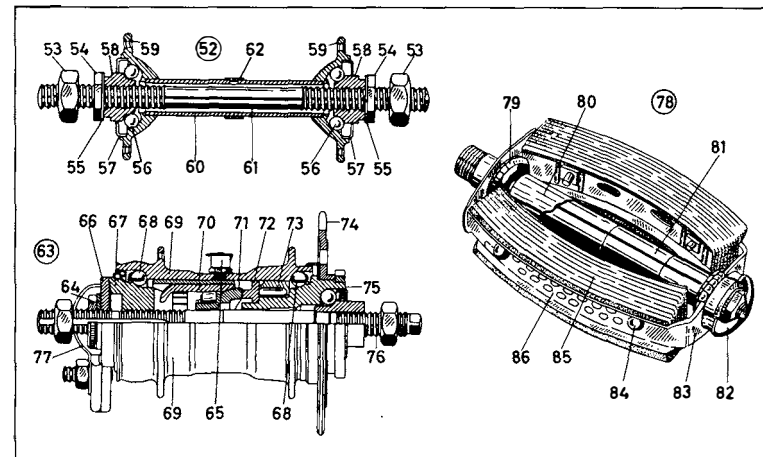
- 1-54 carriages (horse-drawn vehicles)  
1-3, 26-39, 45, 51-54 carriages and coaches (coach wagons)  
1 berlin  
2 wagonette; *larger*: brake (break)  
3 coupé; *sim.*: brougham  
4 front wheel  
5 coach body  
6 dashboard (splashboard)  
7 footboard  
8 coach box (box, coachman's seat, driver's seat)  
9 lamp (lantern)  
10 window  
11 door (coach door)  
12 door handle (handle)  
13 footboard (carriage step, coach step, step, footpiece)  
14 fixed top  
15 spring  
16 brake (brake block)  
17 back wheel (rear wheel)  
18 dogcart, a one-horse carriage  
19 shafts (thills, poles)  
20 lackey (lacquy, footman)  
21 livery  
22 braided (gallooned) collar  
23 braided (gallooned) coat  
24 braided (gallooned) sleeve  
25 top hat  
26 hackney carriage (hackney coach, cab, growler, *Am.* hack)  
27 stableman (groom)  
28 coach horse (carriage horse, cab horse, thill horse, thiller)  
29 hansom cab (hansom), a cabriolet, a one-horse chaise (one-horse carriage)  
30 shafts (thills, poles)  
31 reins (rein, *Am.* line)  
32 coachman (driver) with inverness  
33 covered char-a-banc (brake, break), a pleasure vehicle  
34 gig (chaise)  
35 barouche  
36 landau, a two-horse carriage; *sim.*: landaulet, landalette

- 37 omnibus (horse-drawn omnibus)  
38 phaeton  
39 Continental stagecoach (mail-coach, diligence); *also*: road coach  
40 mailcoach driver  
41 posthorn  
42 hood  
43 post horses (relay horses, relays)  
44 tilbury  
45 troika (Russian three-horse carriage)  
46 leader  
47 wheeler (wheelhorse, pole horse)  
48 English buggy  
49 American buggy  
50 tandem  
51 vis-à-vis  
52 collapsible hood (collapsible top)  
53 mailcoach (English stagecoach)  
54 covered (closed) chaise





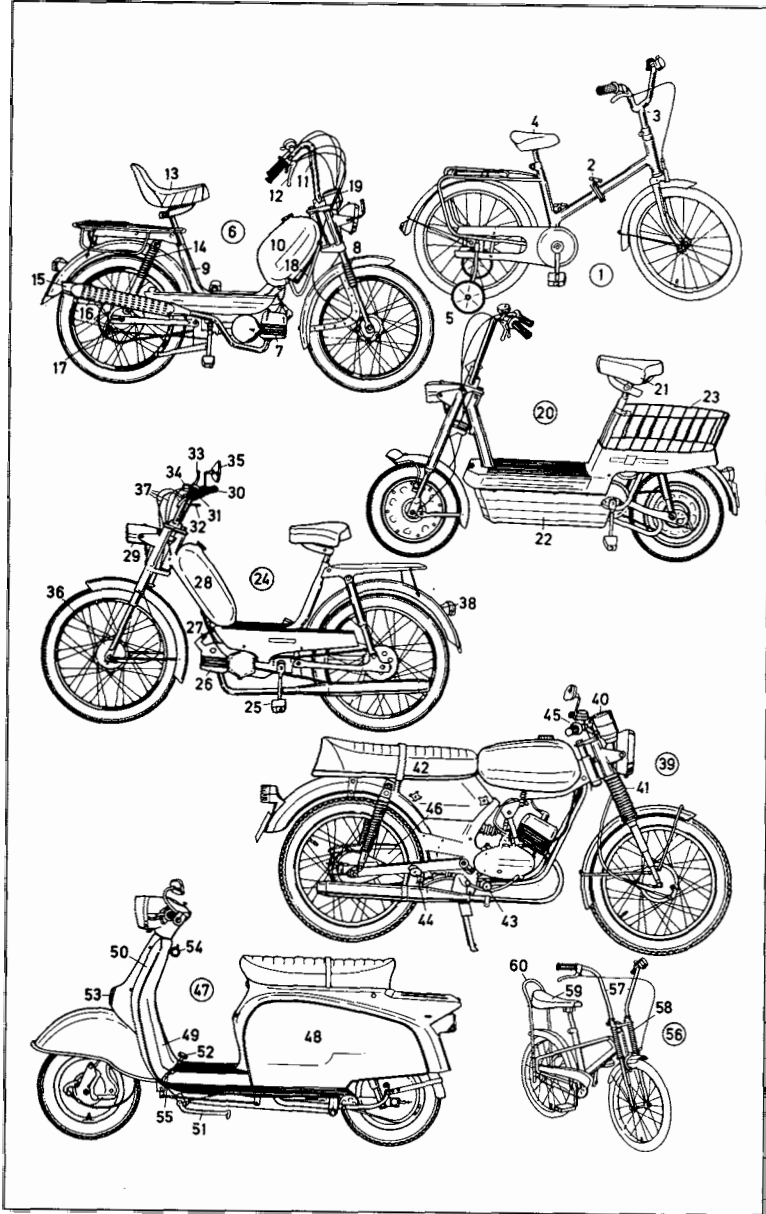
- 1 bicycle (cycle, *coll.* bike, *Am.* wheel), a gent's bicycle, a touring bicycle (touring cycle, roadster)  
 2 handlebar (handlebars), a touring cycle handlebar  
 3 handlebar grip (handgrip, grip)  
 4 bicycle bell  
 5 hand brake (front brake), a rim brake  
 6 lamp bracket  
 7 headlamp (bicycle lamp)  
 8 dynamo  
 9 pulley  
 10-12 front forks  
 10 handlebar stem  
 11 steering head  
 12 fork blades (fork ends)  
 13 front mudguard (*Am.* front fender)  
 14-20 bicycle frame  
 14 steering tube (fork column)  
 15 head badge  
 16 crossbar (top tube)  
 17 down tube  
 18 seat tube  
 19 seat stays  
 20 chain stays  
 21 child's seat (child carrier seat)  
 22 bicycle saddle  
 23 saddle springs  
 24 seat pillar  
 25 tool bag  
 26-32 wheel (front wheel)  
 26 hub  
 27 spoke  
 28 rim (wheel rim)  
 29 spoke nipple (spoke flange, spoke end)  
 30 tyre (*Am.* tire) (pneumatic tyre, high-pressure tyre); *inside*: tube (inner tube); *outside*: tyre (outer case, cover)  
 31 valve, a tube valve with valve tube or a patent valve with ball  
 32 valve sealing cap  
 33 bicycle speedometer with milometer  
 34 kick stand (prop stand)  
 35-42 bicycle drive (chain drive)  
 35 chain wheel  
 36 chain, a roller chain  
 37 chain guard  
 38 sprocket wheel (sprocket)  
 39 wing nut (fly nut, butterfly nut)  
 40 pedal  
 41 crank  
 42 bottom bracket bearing



- 43 rear mudguard (*Am.* rear fender)  
 44 luggage carrier (carrier)  
 45 reflector  
 46 rear light (rear lamp)  
 47 footrest  
 48 bicycle pump  
 49 bicycle lock, a wheel lock  
 50 patent key  
 51 cycle serial number (factory number, frame number)  
 52 front hub (front hub assembly)  
 53 wheel nut  
 54 locknut (locking nut)  
 55 washer (slotted cone adjusting washer)  
 56 ball bearing  
 57 dust cap  
 58 cone (adjusting cone)  
 59 centre (*Am.* center) hub  
 60 spindle  
 61 axle  
 62 clip covering lubrication hole (lubricator)  
 63 free-wheel hub with back-pedal brake (with coaster brake)  
 64 safety nut  
 65 lubricator  
 66 brake arm  
 67 brake arm cone  
 68 bearing cup with ball bearings in ball race  
 69 hub shell (hub body, hub barrel)  
 70 brake casing  
 71 brake cone  
 72 driver  
 73 driving barrel  
 74 sprocket  
 75 thread head  
 76 axle  
 77 bracket  
 78 bicycle pedal (pedal, reflector pedal)  
 79 cup  
 80 spindle  
 81 axle  
 82 dust cap  
 83 pedal frame  
 84 rubber stud  
 85 rubber block (rubber tread)  
 86 glass reflector

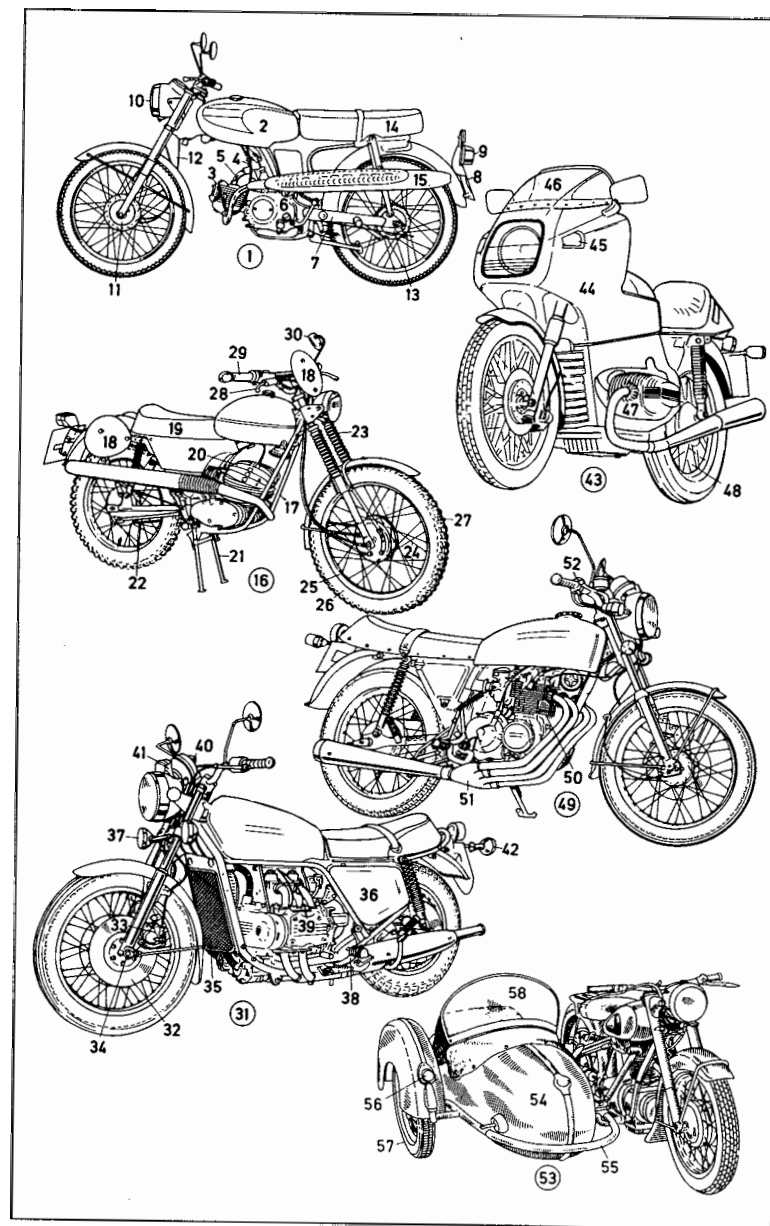
- 1 folding bicycle
- 2 hinge (*also*: locking lever)
- 3 adjustable handlebar (handlebars)
- 4 adjustable saddle
- 5 stabilizers
- 6 motor-assisted bicycle
- 7 air-cooled two-stroke engine
- 8 telescopic forks
- 9 tubular frame
- 10 fuel tank (petrol tank, *Am.* gasoline tank)
- 11 semi-rise handlebars
- 12 two-speed gear-change (gearshift)
- 13 high-back polo saddle
- 14 swinging-arm rear fork
- 15 upswept exhaust
- 16 heat shield
- 17 drive chain
- 18 crash bar (roll bar)
- 19 speedometer (*coll.* speedo)
- 20 battery-powered moped, an electrically-powered vehicle
- 21 swivel saddle
- 22 battery compartment
- 23 wire basket
- 24 touring moped (moped)
- 25 pedal crank (pedal drive, starter pedal)
- 26 single-cylinder two-stroke engine
- 27 spark-plug cap
- 28 fuel tank (petrol tank, *Am.* gasoline tank)
- 29 moped headlamp (front lamp)
- 30-35 handlebar fittings
- 30 twist grip throttle control (throttle twist grip)
- 31 twist grip (gear-change, gearshift)
- 32 clutch lever
- 33 hand brake lever
- 34 speedometer (*coll.* speedo)
- 35 rear-view mirror (mirror)
- 36 front wheel drum brake (drum brake)
- 37 Bowden cables (brake cables)
- 38 stop and tail light unit
- 39 light motorcycle with kickstarter

- 40 housing for instruments with speedometer and electronic rev counter (revolution counter)
- 41 telescopic shock absorber
- 42 twin seat
- 43 kickstarter
- 44 pillion footrest, a footrest
- 45 handlebar (handlebars)
- 46 chain guard
- 47 motor scooter (scooter)
- 48 removable side panel
- 49 tubular frame
- 50 metal fairings
- 51 prop stand (stand)
- 52 foot brake
- 53 horn (hooter)
- 54 hook for handbag or briefcase
- 55 foot gear-change control (foot gearshift control)
- 56 high-riser; *sim.*: Chopper
- 57 high-rise handlebar (handlebars)
- 58 imitation motorcycle fork
- 59 banana saddle
- 60 chrome bracket



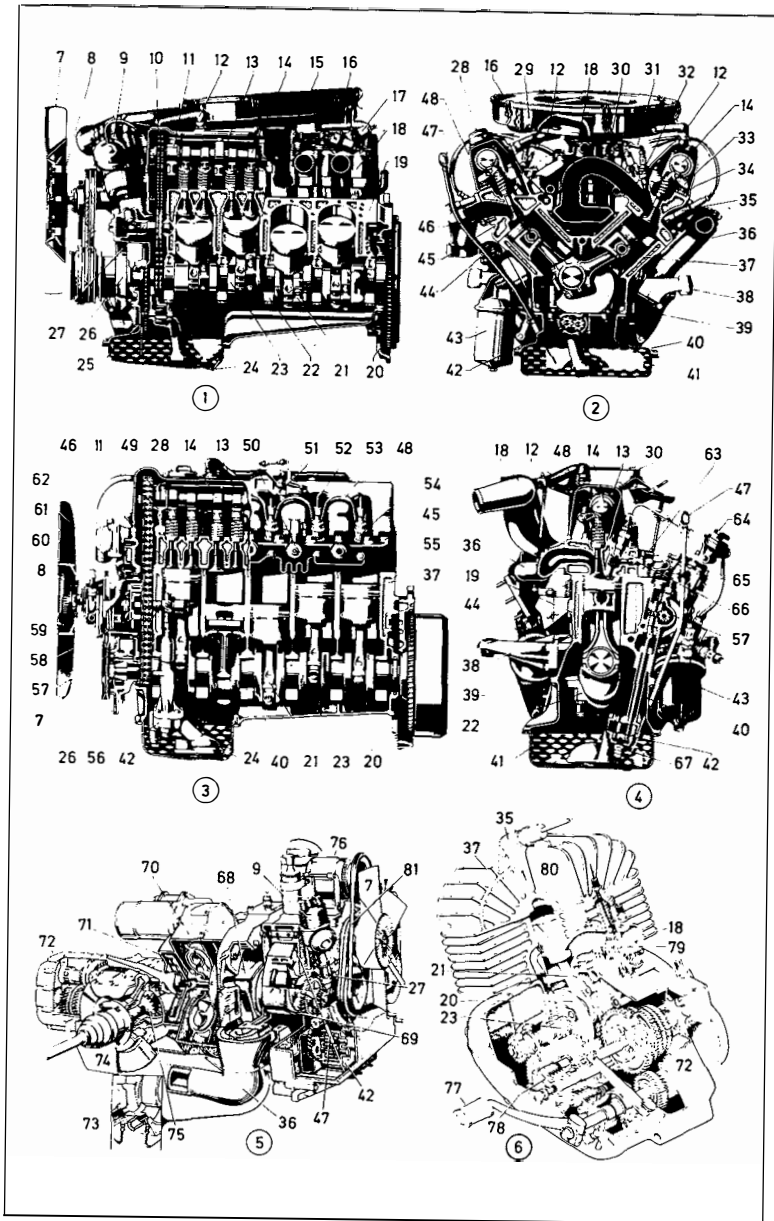


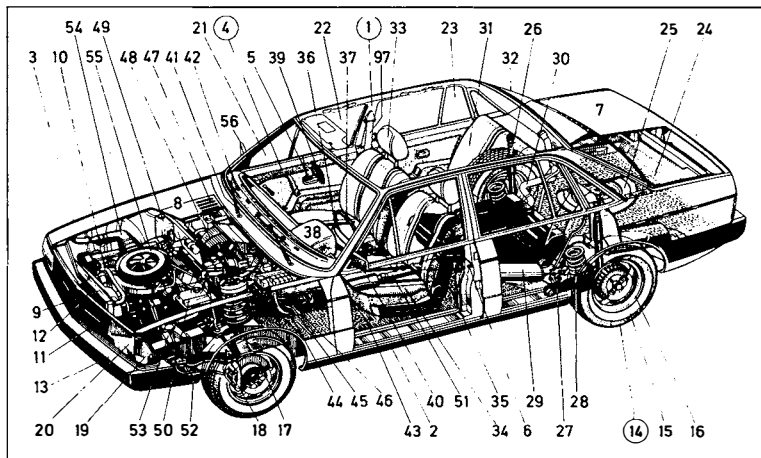
- 1 lightweight motorcycle (light motorcycle) [50 cc]
- 2 fuel tank (petrol tank, *Am.* gasoline tank)
- 3 air-cooled single-cylinder four-stroke engine (with overhead camshaft)
- 4 carburettor (*Am.* carburetor)
- 5 intake pipe
- 6 five-speed gearbox
- 7 swinging-arm rear fork
- 8 number plate (*Am.* license plate)
- 9 stop and tail light (rear light)
- 10 headlight (headlamp)
- 11 front drum brake
- 12 brake cable (brake line), a Bowden cable
- 13 rear drum brake
- 14 racing-style twin seat
- 15 upswept exhaust
- 16 scrambling motorcycle (cross-country motorcycle) [125 cc], a light motorcycle
- 17 lightweight cradle frame
- 18 number disc (disk)
- 19 solo seat
- 20 cooling ribs
- 21 motorcycle stand
- 22 motorcycle chain
- 23 telescopic shock absorber
- 24 spokes
- 25 rim (wheel rim)
- 26 motorcycle tyre (*Am.* tire)
- 27 tyre (*Am.* tire) tread
- 28 gear-change lever (gearshift lever)
- 29 twist grip throttle control (throttle twist grip)
- 30 rear-view mirror (mirror)
- 31-58 heavy (heavyweight, large-capacity) motorcycles
- 31 heavyweight motorcycle with water-cooled engine
- 32 front disc (disk) brake
- 33 disc (disk) brake calliper (caliper)
- 34 floating axle
- 35 water cooler
- 36 fuel tank (petrol tank, *Am.* gasoline tank)
- 37 indicator (indicator light, turn indicator light)
- 38 kickstarter
- 39 water-cooled engine
- 40 speedometer
- 41 rev counter (revolution counter)
- 42 rear indicator (indicator light)
- 43 heavy (heavyweight, high-performance) machine with fairing [1000 cc]
- 44 integrated streamlining, an integrated fairing
- 45 indicator (indicator light, turn indicator light)
- 46 anti-mist windscreen (*Am.* windshield)
- 47 horizontally-opposed twin engine with cardan transmission
- 48 light alloy wheel
- 49 four-cylinder machine [400 cc]
- 50 air-cooled four-cylinder four-stroke engine
- 51 four-pipe megaphone exhaust pipe
- 52 electric starter button
- 53 sidecar machine
- 54 sidecar body
- 55 sidecar crash bar
- 56 sidelight (*Am.* sidemarker lamp)
- 57 sidecar wheel
- 58 sidecar windscreen (*Am.* windshield)



- 1 eight-cylinder V (vee) fuel-injection spark-ignition engine (Otto-cycle engine)
- 2 cross-section of spark-ignition engine (Otto-cycle internal combustion engine)
- 3 sectional view of five-cylinder in-line diesel engine
- 4 cross-section of diesel engine
- 5 two-rotor Wankel engine (rotary engine)
- 6 single-cylinder two-stroke internal combustion engine
- 7 fan
- 8 fan clutch for viscous drive
- 9 ignition distributor (distributor) with vacuum timing control
- 10 double roller chain
- 11 camshaft bearing
- 12 air-bleed duct
- 13 oil pipe for camshaft lubrication
- 14 camshaft, an overhead camshaft
- 15 venturi throat
- 16 intake silencer (absorption silencer, *Am.* absorption muffler)
- 17 fuel pressure regulator
- 18 inlet manifold
- 19 cylinder crankcase
- 20 flywheel
- 21 connecting rod (piston rod)
- 22 cover of crankshaft bearing
- 23 crankshaft
- 24 oil bleeder screw (oil drain plug)
- 25 roller chain of oil pump drive
- 26 vibration damper
- 27 distributor shaft for the ignition distributor (distributor)
- 28 oil filler neck
- 29 diaphragm spring
- 30 control linkage
- 31 fuel supply pipe (*Am.* fuel line)
- 32 fuel injector (injection nozzle)
- 33 rocker arm
- 34 rocker arm mounting
- 35 spark plug (sparking plug) with suppressor
- 36 exhaust manifold
- 37 piston with piston rings and oil scraper ring
- 38 engine mounting
- 39 dog flange (dog)

- 40 crankcase
- 41 oil sump (sump)
- 42 oil pump
- 43 oil filter
- 44 starter motor (starting motor)
- 45 cylinder head
- 46 exhaust valve
- 47 dipstick
- 48 cylinder head cover
- 49 double bushing chain
- 50 warm-up regulator
- 51 tapered needle for idling adjustment
- 52 fuel pressure pipe (fuel pressure line)
- 53 fuel leak line (drip fuel line)
- 54 injection nozzle (spray nozzle)
- 55 heater plug
- 56 thrust washer
- 57 intermediate gear shaft for the injection pump drive
- 58 injection timer unit
- 59 vacuum pump (low-pressure regulator)
- 60 cam for vacuum pump
- 61 water pump (coolant pump)
- 62 cooling water thermostat
- 63 thermo time switch
- 64 fuel hand pump
- 65 injection pump
- 66 glow plug
- 67 oil pressure limiting valve
- 68 rotor
- 69 seal
- 70 torque converter
- 71 single-plate clutch
- 72 multi-speed gearing (multi-step gearing)
- 73 port liners in the exhaust manifold for emission control
- 74 disc (disk) brake
- 75 differential gear (differential)
- 76 generator
- 77 foot gear-change control (foot gearshift control)
- 78 dry multi-plate clutch
- 79 cross-draught (*Am.* cross-draft) carburettor (*Am.* carburetor)
- 80 cooling ribs
- 81 V-belt (fan belt)





1-56 motor car (car, *Am. automobile*, auto), a passenger vehicle

1 monocoque body (unitary body)

2 chassis, the understructure of the body

3 front wing (*Am. front fender*)

4 car door

5 door handle

6 door lock

7 boot lid (*Am. trunk lid*)

8 bonnet (*Am. hood*)

9 radiator

10 cooling water pipe

11 radiator grill

12 badging

13 rubber-covered front bumper (*Am. front fender*)

14 car wheel, a disc (disk) wheel

15 car tyre (*Am. automobile tire*)

16 rim (wheel rim)

17-18 disc (disk) brake

17 brake disc (disk) (braking disc)

18 calliper (caliper)

19 front indicator light (front turn indicator light)

20 headlight (headlamp) with main beam (high beam), dipped beam (low beam), sidelight (side lamp, *Am. sidemark lamp*)

21 windscreen (*Am. windshield*), a panoramic windscreen

22 crank-operated car window

23 quarter light (quarter vent)

24 boot (*Am. trunk*)

25 spare wheel

26 damper (shock absorber)

27 trailing arm

28 coil spring

29 silencer (*Am. muffler*)

30 automatic ventilation system

31 rear seats

32 rear window

33 adjustable headrest (head restraint)

34 driver's seat, a reclining seat

35 reclining backrest

36 passenger seat

37 steering wheel

38 centre (*Am. center*) console containing speedometer (*coll. speedo*), revolution counter (rev counter, tachometer), clock, fuel gauge (*Am. gage*), water temperature gauge, oil temperature gauge

39 inside rear-view mirror

40 left-hand wing mirror

41 windscreen wiper (*Am. windshield wiper*)

42 defroster vents

43 carpeting

44 clutch pedal (*coll. clutch*)

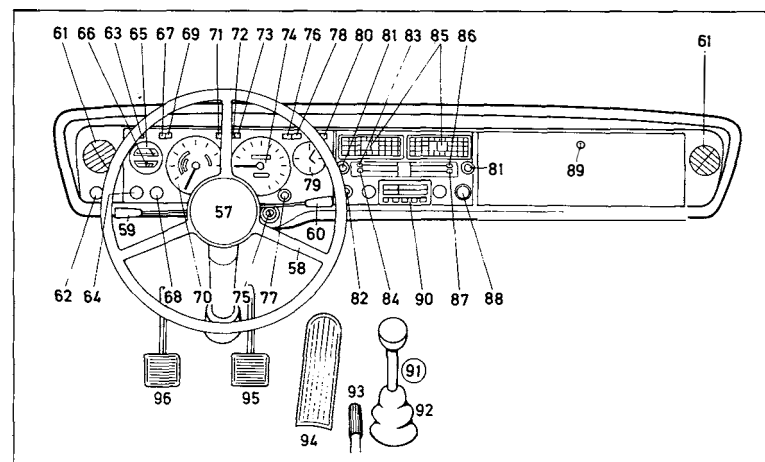
45 brake pedal (*coll. brake*)

46 accelerator pedal (*coll. accelerator*)

47 inlet vent

48 blower fan

49 brake fluid reservoir



50 battery

51 exhaust pipe

52 front running gear with front wheel drive

53 engine mounting

54 intake silencer (*Am. intake muffler*)

55 air filter (air cleaner)

56 right-hand wing mirror

57-90 dashboard (fascia panel)

57 controlled-collapse steering column

58 steering wheel spoke

59 indicator and dimming switch

60 wiper/washer switch and horn

61 side window blower

62 sidelight, headlight, and parking light switch

63 fog lamp warning light

64 fog headlamp and rear lamp switch

65 fuel gauge (*Am. gage*)

66 water temperature gauge (*Am. gage*)

67 warning light for rear fog lamp

68 hazard flasher switch

69 main beam warning light

70 electric rev counter (revolution counter)

71 fuel warning light

72 warning light for the hand brake and dual-circuit brake system

73 oil pressure warning light

74 speedometer (*coll. speedo*) with trip mileage recorder

75 starter and steering lock

76 warning lights for turn indicators and hazard flashers

77 switch for the courtesy light and reset button for the trip mileage recorder

78 ammeter

79 electric clock

80 warning light for heated rear window

81 switch for the leg space ventilation

82 rear window heating switch

83 ventilation switch

84 temperature regulator

85 fresh-air inlet and control

86 fresh-air regulator

87 warm-air regulator

88 cigar lighter

89 glove compartment (glove box) lock

90 car radio

91 gear lever (gearshift lever), a floor-type gear-change

92 leather gaiter

93 hand brake lever

94 accelerator pedal

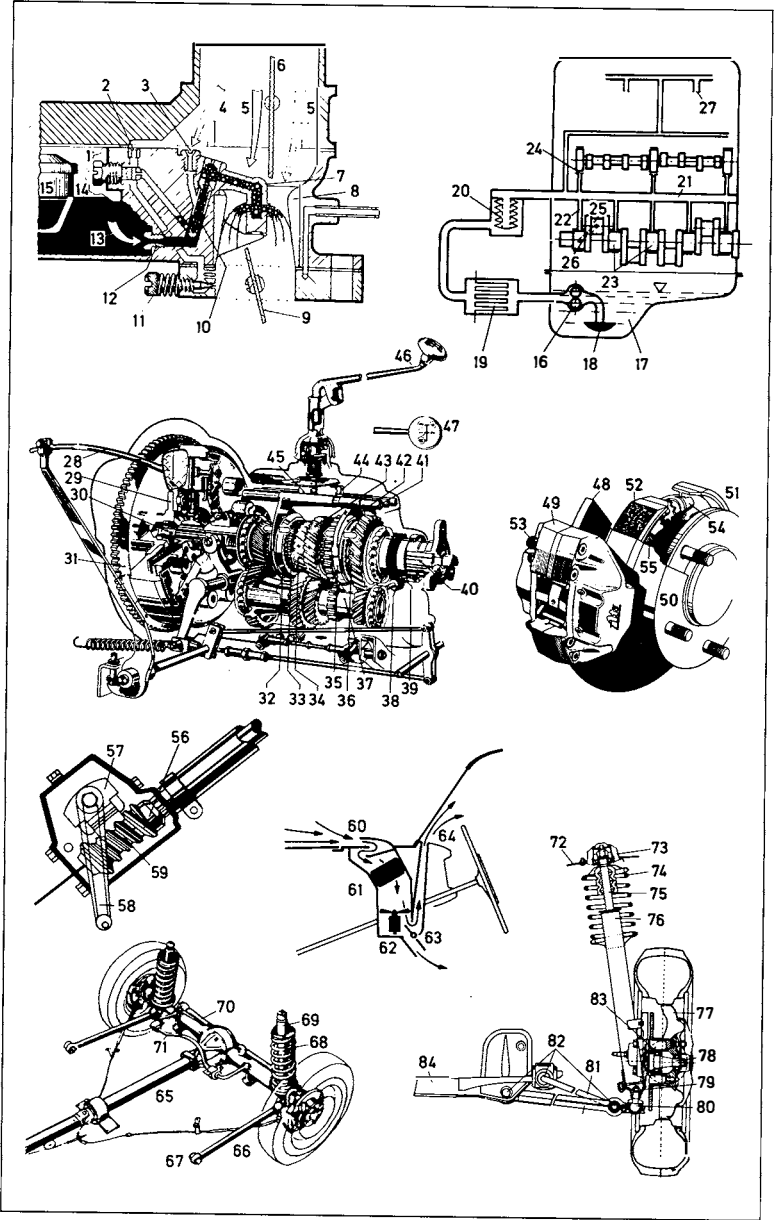
95 brake pedal

96 clutch pedal

97 seat belt (safety belt)

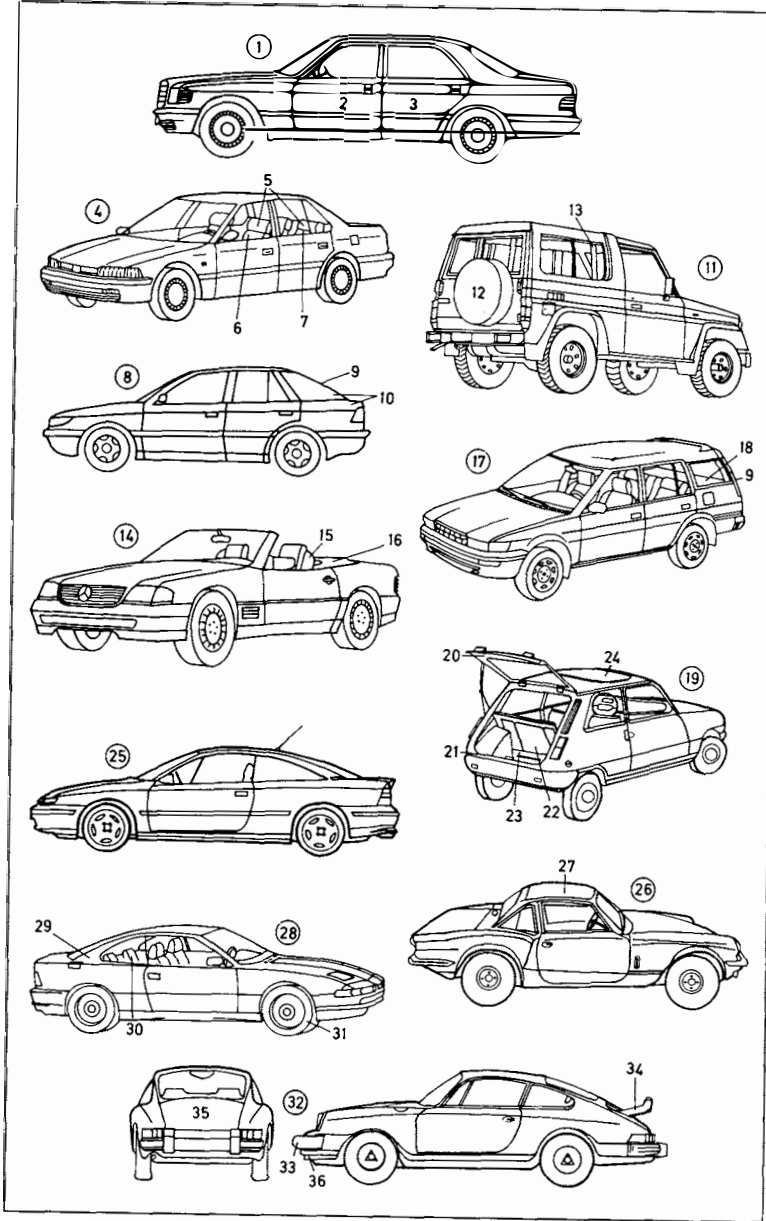
- 1-15 carburettor (*Am.* carburetor), a down-draught (*Am.* down-draft) carburettor
- 1 idling jet (slow-running jet)
- 2 idling air jet (idle air bleed)
- 3 air correction jet
- 4 compensating airstream
- 5 main airstream
- 6 choke flap
- 7 plunger
- 8 venturi
- 9 throttle valve (butterfly valve)
- 10 emulsion tube
- 11 idle mixture adjustment screw
- 12 main jet
- 13 fuel inlet (*Am.* gasoline inlet) (inlet manifold)
- 14 float chamber
- 15 float
- 16-27 pressure-feed lubricating system
- 16 oil pump
- 17 oil sump
- 18 sump filter
- 19 oil cooler
- 20 oil filter
- 21 main oil gallery (drilled gallery)
- 22 crankshaft drilling (crankshaft tributary, crankshaft bleed)
- 23 crankshaft bearing (main bearing)
- 24 camshaft bearing
- 25 connecting-rod bearing
- 26 gudgeon pin (piston pin)
- 27 bleed
- 28-47 four-speed synchromesh gearbox
- 28 clutch pedal
- 29 crankshaft
- 30 drive shaft (propeller shaft)
- 31 starting gear ring
- 32 sliding sleeve for 3rd and 4th gear
- 33 synchronizing cone
- 34 helical gear wheel for 3rd gear
- 35 sliding sleeve for 1st and 2nd gear
- 36 helical gear wheel for 1st gear
- 37 lay shaft
- 38 speedometer drive
- 39 helical gear wheel for speedometer drive
- 40 main shaft
- 41 gearshift rods
- 42 selector fork for 1st and 2nd gear
- 43 helical gear wheel for 2nd gear

- 44 selector head with reverse gear
- 45 selector fork for 3rd and 4th gear
- 46 gear lever (gearshift lever)
- 47 gear-change pattern (gearshift pattern, shift pattern)
- 48-55 disc (disk) brake [assembly]
- 48 brake disc (disk) (braking disc)
- 49 calliper (caliper), a fixed calliper with friction pads
- 50 servo cylinder (servo unit)
- 51 brake shoes
- 52 brake lining
- 53 outlet to brake line
- 54 wheel cylinder
- 55 return spring
- 56-59 steering gear (worm-and-nut steering gear)
- 56 steering column
- 57 worm gear sector
- 58 steering drop arm
- 59 worm
- 60-64 water-controlled heater
- 60 air intake
- 61 heat exchanger (heater box)
- 62 blower fan
- 63 flap valve
- 64 defroster vent
- 65-71 live axle (rigid axle)
- 65 propeller shaft
- 66 trailing arm
- 67 rubber bush
- 68 coil spring
- 69 damper (shock absorber)
- 70 Panhard rod
- 71 stabilizer bar
- 72-84 MacPherson strut unit
- 72 body-fixing plate
- 73 upper bearing
- 74 suspension spring
- 75 piston rod
- 76 suspension damper
- 77 rim (wheel rim)
- 78 stub axle
- 79 steering arm
- 80 track-rod ball-joint
- 81 trailing link arm
- 82 bump rubber (rubber bonding)
- 83 lower bearing
- 84 lower suspension arm



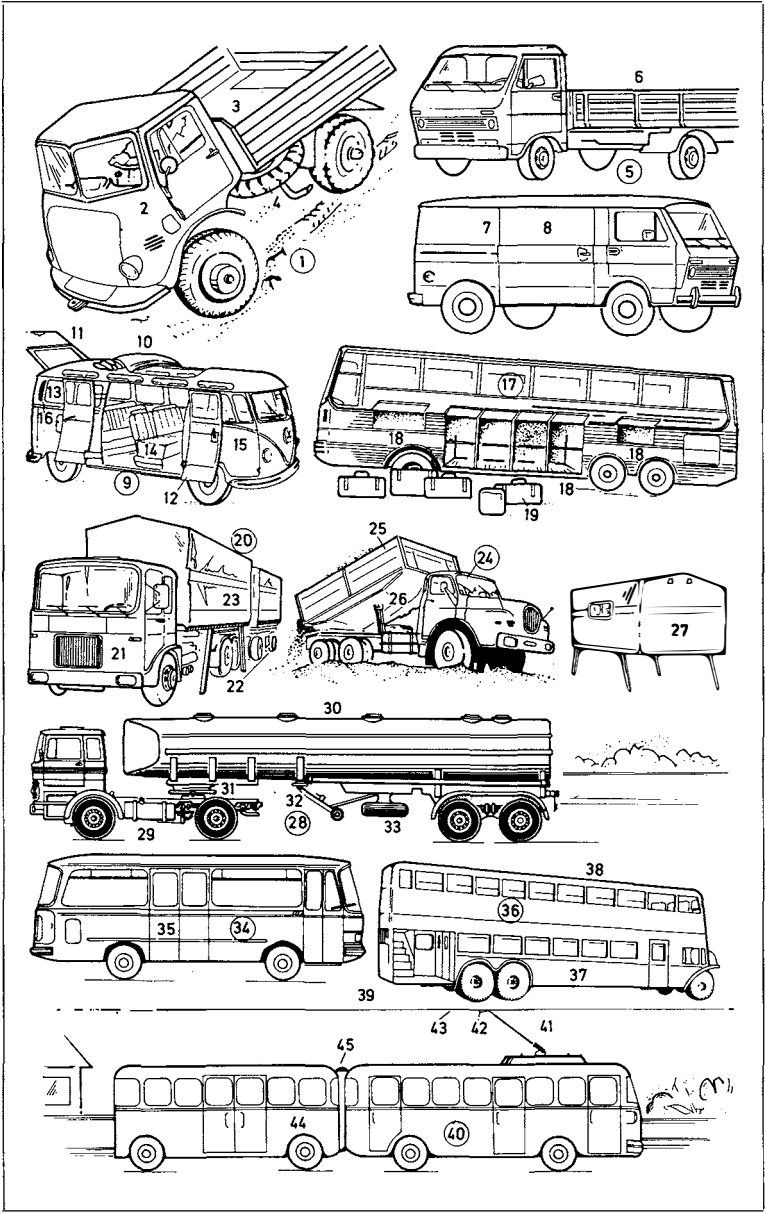
- 1-36 car models (Am. automobile models)
- 1 four-door touring saloon (Am. four-door sedan) in the upper-middle range
- 2 driver's door
- 3 rear door
- 4-10 four-door saloon (Am. four-door sedan) and four-door hatchback in the middle range
- 4 saloon (Am. sedan)
- 5 headrests (head restraints)
- 6 front seat
- 7 rear seat (back seat)
- 8 fastback saloon (Am. fastback sedan) (stubback saloon, Am. stubback sedan)
- 9 tailgate
- 10 fastback (stubback)
- 11 cross-country vehicle with all-wheel drive (four-wheel drive)
- 12 spare wheel
- 13 roll bar
- 14 cabriolet sports coupé (cabriolet sports car)
- 15 integral seat
- 16 automatic hood (Am. top) (power-operated hood, Am. top)
- 17 estate car (estate, shooting brake, Am. station wagon)
- 18 boot space (luggage compartment)
- 19 small three-door car
- 20 back (tailgate)
- 21 sill
- 22 folding back seat
- 23 boot (luggage compartment, Am. trunk)
- 24 (sliding) sunroof (steel sliding sunroof)
- 25 three-door hatchback
- 26 roadster (sports cabrio, sports cabriolet), a two-seater
- 27 hard top
- 28 sports coupé, a two-plus-two (two-seater with occasional seats)
- 29 fastback
- 30 occasional seat

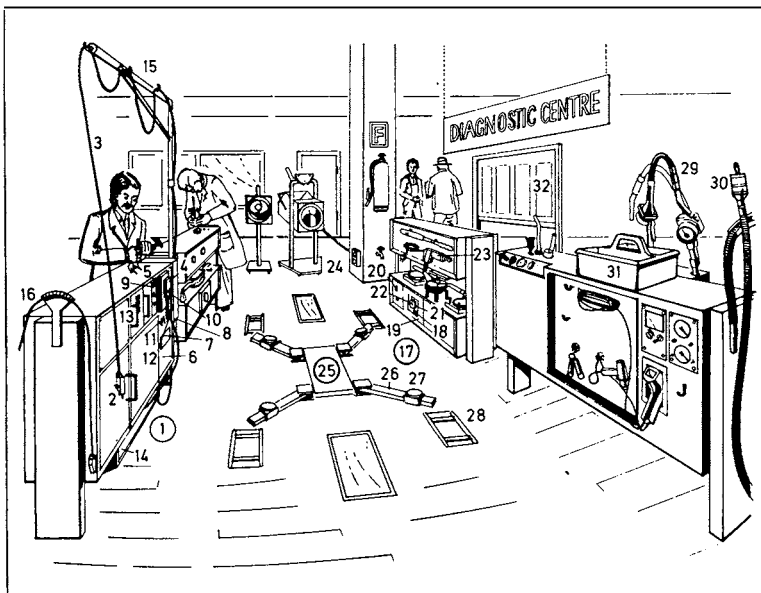
- 31 low-profile tyre (Am. tire) (wide wheel)
- 32 gran turismo car (GT car)
- 33 integral bumper (Am. integral fender)
- 34 rear spoiler
- 35 back
- 36 front spoiler



- 1 light cross-country lorry (light truck, pick-up truck) with all-wheel drive (four-wheel drive)
- 2 cab (driver's cab)
- 3 loading platform (body)
- 4 spare tyre (Am. spare tire), a cross-country tyre
- 5 light lorry (light truck, pick-up truck)
- 6 platform truck
- 7 medium van
- 8 sliding side door [for loading and unloading]
- 9 minibus
- 10 folding top (sliding roof)
- 11 rear door
- 12 hinged side door
- 13 luggage compartment
- 14 passenger seat
- 15 cab (driver's cab)
- 16 air inlet
- 17 motor coach (coach, bus)
- 18 luggage locker
- 19 hand luggage (suitcase, case)
- 20 heavy lorry (heavy truck, heavy motor truck)
- 21 tractive unit (tractor, towing vehicle)
- 22 trailer (drawbar trailer)
- 23 swop platform (body)
- 24 three-way tipper (three-way dump truck)
- 25 tipping body (dump body)
- 26 hydraulic cylinder
- 27 supported container platform
- 28 articulated vehicle, a vehicle tanker
- 29 tractive unit (tractor, towing vehicle)
- 30-33 semi-trailer (skeletal)
- 30 tank
- 31 turntable
- 32 undercarriage
- 33 spare wheel
- 34 midi bus [for short-route town operations]
- 35 outward-opening doors
- 36 double-deck bus (double-decker bus)

- 37 lower deck (lower saloon)
- 38 upper deck (upper saloon)
- 39 boarding platform
- 40 trolley bus
- 41 current collector
- 42 trolley (trolley shoe)
- 43 overhead wires
- 44 trolley bus trailer
- 45 pneumatically sprung rubber connection





**1-55 agent's garage** (distributor's garage, *Am. specialty shop*)

**1-23 diagnostic test bay**

**1** computer

**2** main computer socket

**3** computer harness (computer cable)

**4** switch from automatic to manual

**5** slot for program cards

**6** printout machine (printer)

**7** condition report (data printout)

**8** master selector (hand control)

**9** light read-out [green: OK; red: not OK]

**10** rack for program cards

**11** mains button

**12** switch for fast readout

**13** firing sequence insert

**14** shelf for used cards

**15** cable boom

**16** oil temperature sensor

**17** test equipment for wheel and steering alignment

**18** right-hand optic plate

**19** actuating transistors

**20** projector switch

**21** check light for wheel alignment, a row of photocells

**22** check light for steering alignment, a row of photocells

**23** power screwdriver

**24** beam setter

**25** hydraulic lift

**26** adjustable arm of hydraulic lift

**27** hydraulic lift pad

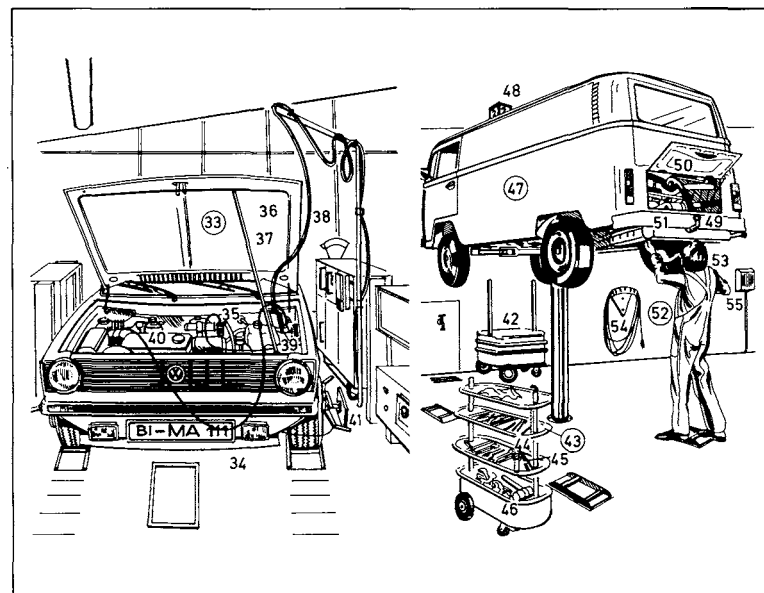
**28** excavation

**29** pressure gauge (*Am. gage*)

**30** grease gun

**31** storage box for small parts

**32** wall chart [of spare parts]



**33** automatic computer test

**34** motor car (car, *Am. automobile, auto*), a passenger vehicle

**35** engine compartment

**36** bonnet (*Am. hood*)

**37** bonnet support (*Am. hood support*)

**38** computer harness (computer cable)

**39** main computer socket

**40** oil temperature sensor

**41** wheel mirror for visual wheel and steering alignment

**42** tool trolley

**43** tools

**44** impact wrench

**45** torque wrench

**46** body hammer (roughing-out hammer)

**47** vehicle under repair, a minibus

**48** car location number

**49** rear engine

**50** tailgate

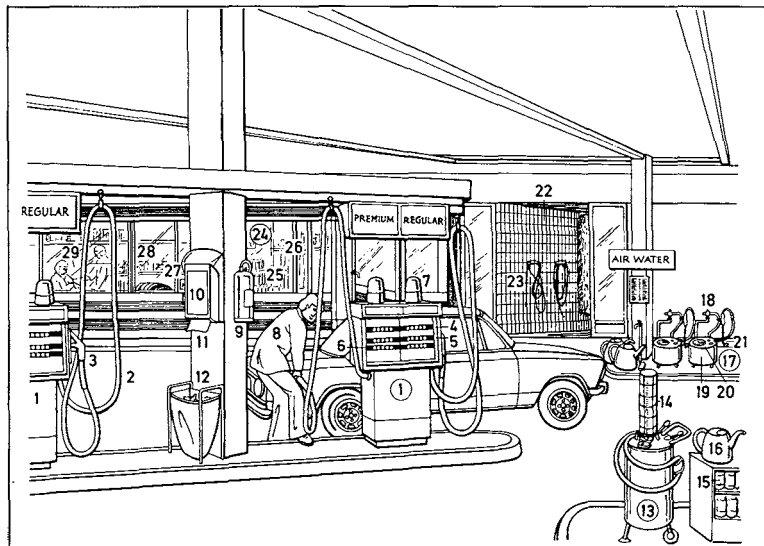
**51** exhaust system

**52** exhaust repair

**53** motor car mechanic (motor vehicle mechanic, *Am. automotive mechanic*)

**54** air hose

**55** intercom



1-29 service station (petrol station, filling station, *Am.* gasoline station, gas station), a self-service station

1 petrol (*Am.* gasoline) pump (blending pump) for unleaded (lead-free) premium grade and regular petrol (*Am.* gasoline) (*sim.*: for derv)

2 hose (petrol pump, *Am.* gasoline pump, hose)

3 nozzle

4 cash readout

5 volume readout

6 price display

7 indicator light

8 driver using self-service petrol pump (*Am.* gasoline pump)

9 fire extinguisher

10 paper-towel dispenser

11 paper towel

12 litter receptacle

13 two-stroke blending pump

14 meter

15 engine oil

16 oil can

17 tyre pressure gauge (*Am.* tire pressure gage)

18 air hose

19 static air tank

20 pressure gauge (*Am.* gage) (manometer)

21 air filler neck

22 repair bay (repair shop)

23 car-wash hose, a hose (hosepipe)

24 accessory shop

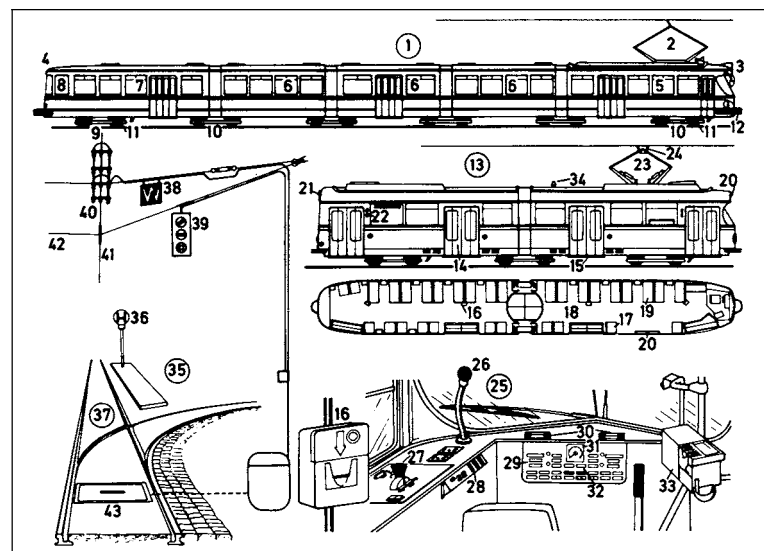
25 petrol can (*Am.* gasoline can)

26 rain cape

27 car tyres (*Am.* automobile tires)

28 car accessories

29 cash desk (console)



1 twelve-axe articulated railcar for interurban rail service

2 current collector

3 head of the railcar

4 rear of the railcar

5 carriage A containing the motor

6 carriage B (*also*: carriages C and D)

7 carriage E containing the motor

8 rear controller

9 driving bogie

10 carrying bogie

11 wheel guard

12 bumper (*Am.* fender)

13 six-axe articulated railcar ('Mannheim' type) for tram (*Am.* streetcar, trolley) and urban rail services

14 entrance and exit door, a double folding door

15 step

16 ticket-cancelling machine

17 single seat

18 standing room portion

19 double seat

20 route (number) and destination sign

21 route sign (number sign)

22 indicator (indicator light)

23 pantograph (current collector)

24 carbon or aluminium (*Am.* aluminum) alloy trolley shoes

25 driver's position

26 microphone

27 controller

28 radio equipment (radio communication set)

29 dashboard

30 dashboard lighting

31 speedometer

32 buttons controlling doors, windscreen wipers, internal and external lighting

33 ticket counter with change machine

34 radio antenna

35 tram stop (*Am.* streetcar stop, trolley stop)

36 tram stop sign (*Am.* streetcar stop sign, trolley stop sign)

37 electric change points

38 points signal (switch signal)

39 points change indicator

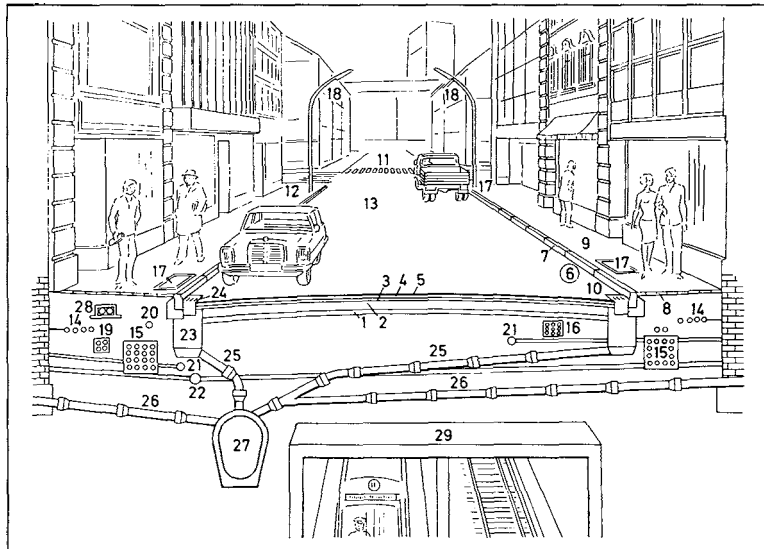
40 trolley wire contact point

41 trolley wire (overhead contact wire)

42 overhead cross wire

43 electric (*also*: electrohydraulic, electromechanical) points mechanism

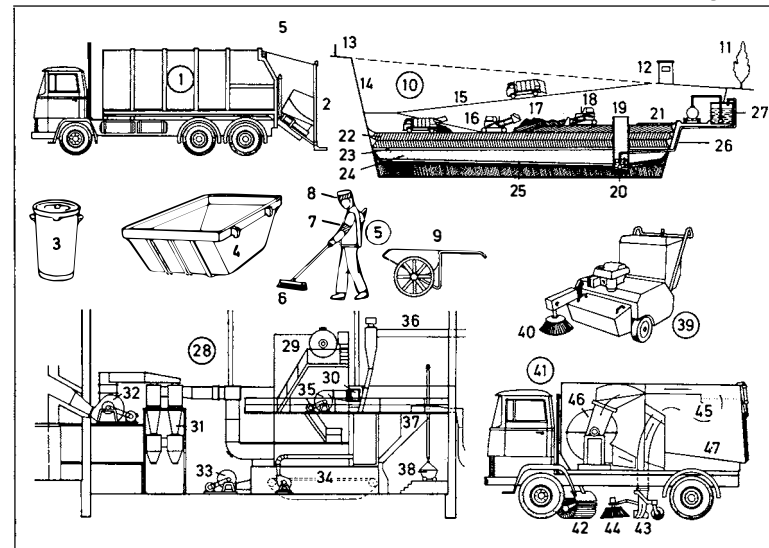


**1-5 road layers**

- 1 anti-frost layer
- 2 bituminous sub-base course
- 3 base course
- 4 binder course
- 5 bituminous surface
- 6 kerb (curb)
- 7 kerbstone (curbstone)
- 8 paving (pavement)
- 9 pavement (*Am.* sidewalk, walk-way)
- 10 gutter
- 11 pedestrian crossing (zebra crossing, *Am.* crosswalk)
- 12 street corner
- 13 street
- 14 electricity cables
- 15 telephone cables
- 16 telephone cable pipeline
- 17 cable manhole with cover (with manhole cover)
- 18 lamp post with lamp
- 19 electricity cables for technical installations

**20 subscribers' (*Am.* customers') tele-  
phone lines**

- 21 gas main
- 22 water main
- 23 drain
- 24 drain cover
- 25 drain pipe
- 26 waste pipe
- 27 combined sewer
- 28 district heating main
- 29 underground tunnel

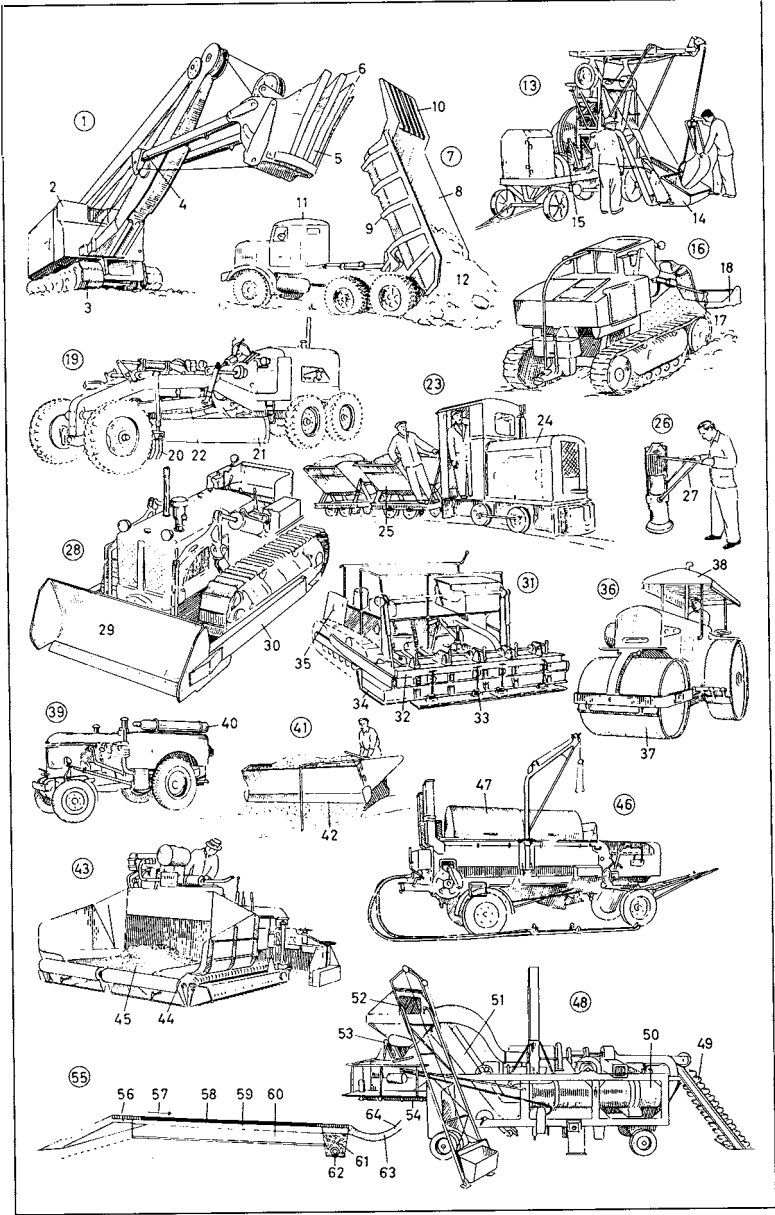


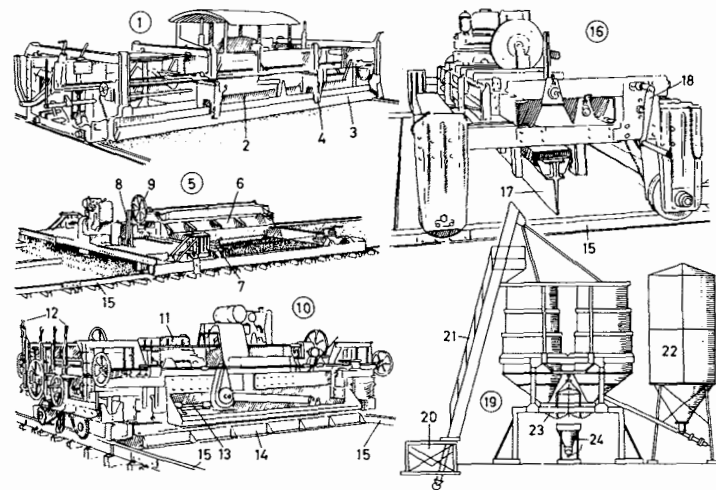
- 1 refuse collection vehicle (*Am.* garbage truck)
- 2 dustbin-tipping device (*Am.* garbage can dumping device), a dust-free emptying system
- 3 dustbin (*Am.* garbage can, trash can)
- 4 refuse container (*Am.* garbage container)
- 5 road sweeper (*Am.* street sweeper)
- 6 broom
- 7 fluorescent armband
- 8 cap with fluorescent band
- 9 road sweeper's (*Am.* street sweeper's) barrow
- 10 controlled tip (*Am.* sanitary landfill, sanitary fill)
- 11 screen
- 12 weigh office
- 13 fence
- 14 embankment
- 15 access ramp
- 16 bulldozer
- 17 refuse (*Am.* garbage)
- 18 bulldozer for dumping and compacting
- 19 pump shaft
- 20 waste water pump
- 21 porous cover
- 22 compacted and decomposed refuse
- 23 gravel filter layer

- 24 morainic filter layer
- 25 drainage layer
- 26 drain pipe
- 27 water tank
- 28 refuse (*Am.* garbage) incineration unit
- 29 furnace
- 30 oil-firing system
- 31 separation plant
- 32 extraction fan
- 33 low-pressure fan for the grate
- 34 continuous feed grate
- 35 fan for the oil-firing system
- 36 conveyor for separately incinerated material
- 37 coal feed conveyor
- 38 truck for carrying fuller's earth
- 39 mechanical sweeper
- 40 circular broom
- 41 road-sweeping lorry (street-cleaning lorry, street cleaner)
- 42 cylinder broom
- 43 suction port
- 44 feeder broom
- 45 air flow
- 46 fan
- 47 dust collector

- 1-54 road-building machinery
- 1 shovel (power shovel, excavator)
- 2 machine housing
- 3 caterpillar mounting (*Am.* caterpillar tractor)
- 4 digging bucket arm (dipper stick)
- 5 digging bucket (bucket)
- 6 digging bucket (bucket) teeth
- 7 tipper (dump truck), a heavy lorry (*Am.* truck)
- 8 tipping body (*Am.* dump body)
- 9 reinforcing rib
- 10 extended front
- 11 cab (driver's cab)
- 12 bulk material
- 13 concrete scraper, an aggregate scraper
- 14 skip hoist
- 15 mixing drum (mixer drum), a mixing machine
- 16 caterpillar hauling scraper
- 17 scraper blade
- 18 levelling (*Am.* leveling) blade (smoothing blade)
- 19 grader (motor grader)
- 20 scarifier (ripper, road ripper, rooter)
- 21 grader levelling (*Am.* leveling) blade (grader ploughshare, *Am.* plowshare)
- 22 blade-slewing gear (slew turntable)
- 23 light railway (narrow-gauge, *Am.* narrow-gage, railway)
- 24 light railway (narrow-gauge, *Am.* narrow-gage) diesel locomotive
- 25 trailer wagon (wagon truck, skip)
- 26 tamper (rammer) *heavier*: frog
- 27 guide rods
- 28 bulldozer
- 29 bulldozer blade
- 30 pushing frame
- 31 road-metal spreading machine (macadamspreader, stone spreader)
- 32 tamping beam
- 33 sole-plate
- 34 side stop
- 35 side of storage bin

- 36 three-wheeled roller, a road roller
- 37 roller
- 38 all-weather roof
- 39 mobile diesel-powered air compressor
- 40 oxygen cylinder
- 41 self-propelled gritter
- 42 spreading flap
- 43 surface finisher
- 44 side stop
- 45 bin
- 46 tar-spraying machine (bituminous distributor) with tar and bitumen heater
- 47 tar storage tank
- 48 fully automatic asphalt drying and mixing plant
- 49 bucket elevator (elevating conveyor)
- 50 asphalt-mixing drum (asphalt mixer drum)
- 51 filler hoist
- 52 filler opening
- 53 binder injector
- 54 mixed asphalt outlet
- 55 typical cross-section of a bituminous road
- 56 grass verge
- 57 crossfall
- 58 asphalt surface (bituminous layer, bituminous coating)
- 59 base (base course)
- 60 hardcore sub-base course (Telford base) or gravel sub-base course, an anti-frost layer
- 61 sub-drainage
- 62 perforated cement pipe
- 63 drainage ditch
- 64 soil covering

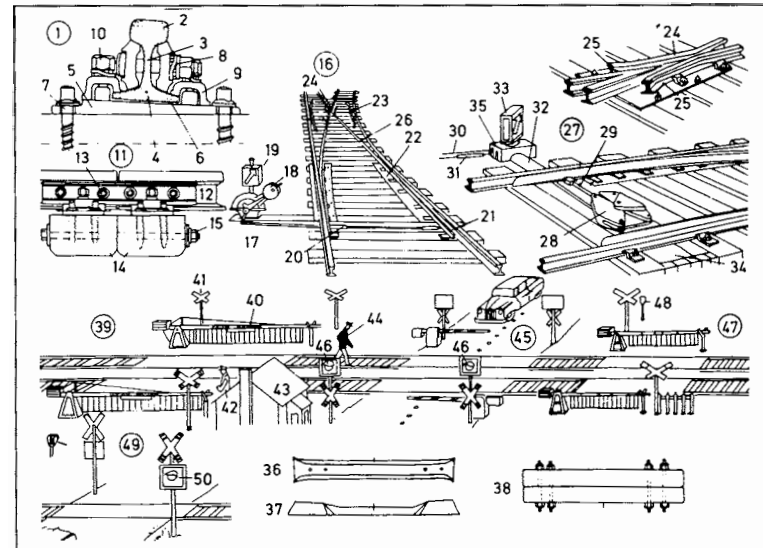




### 1-24 concrete road construction (highway construction)

- 1 subgrade grader
- 2 tamping beam (consolidating beam)
- 3 levelling (*Am.* leveling) beam
- 4 roller guides for the levelling (*Am.* leveling) beam
- 5 concrete spreader
- 6 concrete spreader box
- 7 cable guides
- 8 control levers
- 9 handwheel for emptying the boxes
- 10 concrete-vibrating compactor
- 11 gearing (gears)
- 12 control levers (operating levers)
- 13 axle drive shaft to vibrators (tamper) of vibrating beam
- 14 screeding board (screeding beam)
- 15 road form
- 16 joint cutter
- 17 joint-cutting blade
- 18 crank for propelling machine

- 19 concrete-mixing plant, a stationary central mixing plant, an automatic batching and mixing plant
- 20 collecting bin
- 21 bucket elevator
- 22 cement store
- 23 concrete mixer
- 24 concrete pump hopper



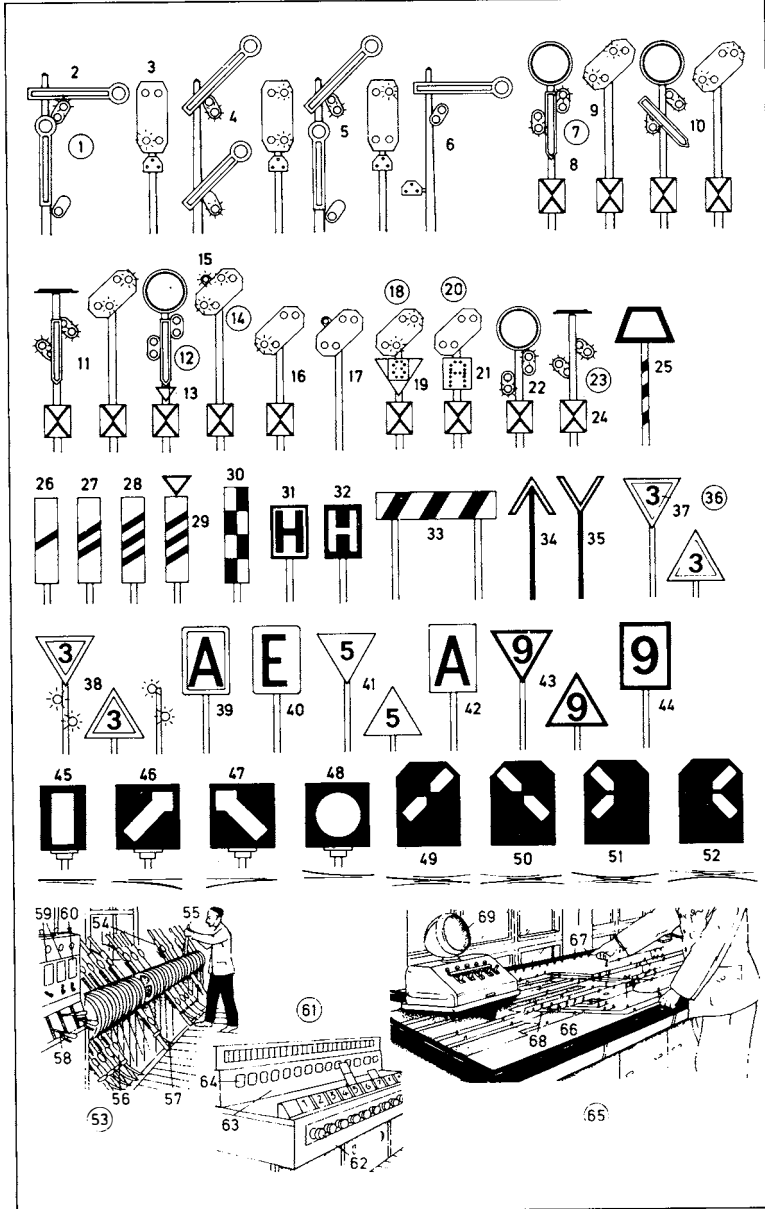
### 1-38 line (track)

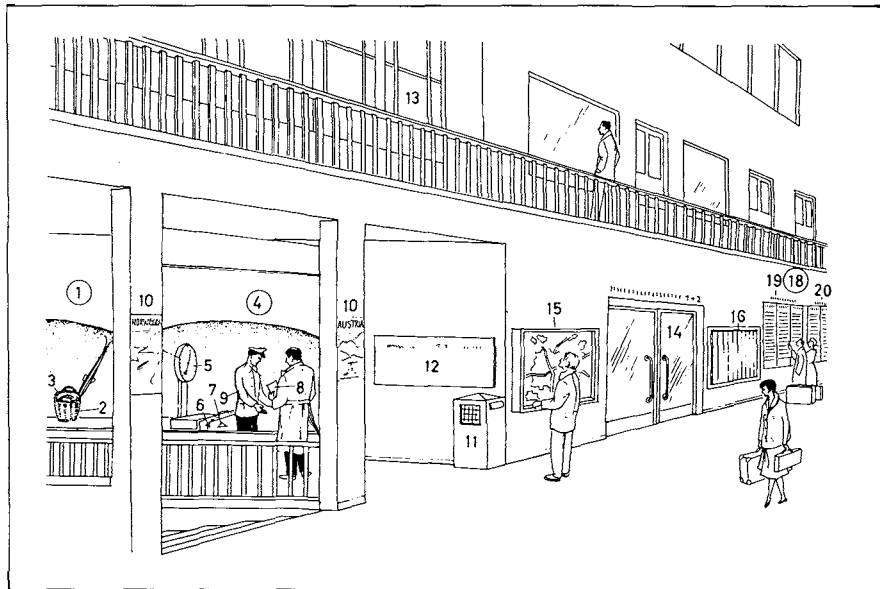
- 1 rail
- 2 rail head
- 3 web (rail web)
- 4 rail foot (rail bottom)
- 5 sole-plate (base plate)
- 6 cushion
- 7 coach screw (coach bolt)
- 8 lock washers (spring washers)
- 9 rail clip (clip)
- 10 T-head bolt
- 11 rail joint (joint)
- 12 fishplate
- 13 fishbolt
- 14 coupled sleeper (*Am.* coupled tie, coupled crosstie)
- 15 coupling bolt
- 16 manually-operated points (manually-operated switch)
- 17 switch stand
- 18 weight
- 19 points signal (switch signal, points signal lamp, switch signal lamp)
- 20 pull rod
- 21 switch blade (switch tongue)
- 22 slide chair
- 23 check rail (guard rail)
- 24 frog
- 25 wing rail
- 26 closure rail
- 27 remote-controlled points (remote-controlled switch)

- 28 point lock (switch lock)
- 29 stretcher bar
- 30 point wire
- 31 turnbuckle
- 32 channel
- 33 electrically illuminated points signal (switch signal)
- 34 trough
- 35 points motor with protective casing
- 36 steel sleeper (*Am.* steel tie, steel crosstie)
- 37 concrete sleeper (*Am.* concrete tie, concrete crosstie)
- 38 coupled sleeper (*Am.* coupled tie, coupled crosstie)
- 39-50 level crossings (*Am.* grade crossings)
- 39 protected level crossing (*Am.* protected grade crossing)
- 40 barrier (gate)
- 41 warning cross (*Am.* crossbuck)
- 42 crossing keeper (*Am.* gateman)
- 43 crossing keeper's box (*Am.* gateman's box)
- 44 linesman (*Am.* trackwalker)
- 45 half-barrier crossing
- 46 warning light
- 47 intercom-controlled crossing; *sim.*: telephone-controlled crossing
- 48 intercom system
- 49 unprotected level crossing (*Am.* unprotected grade crossing)
- 50 warning light

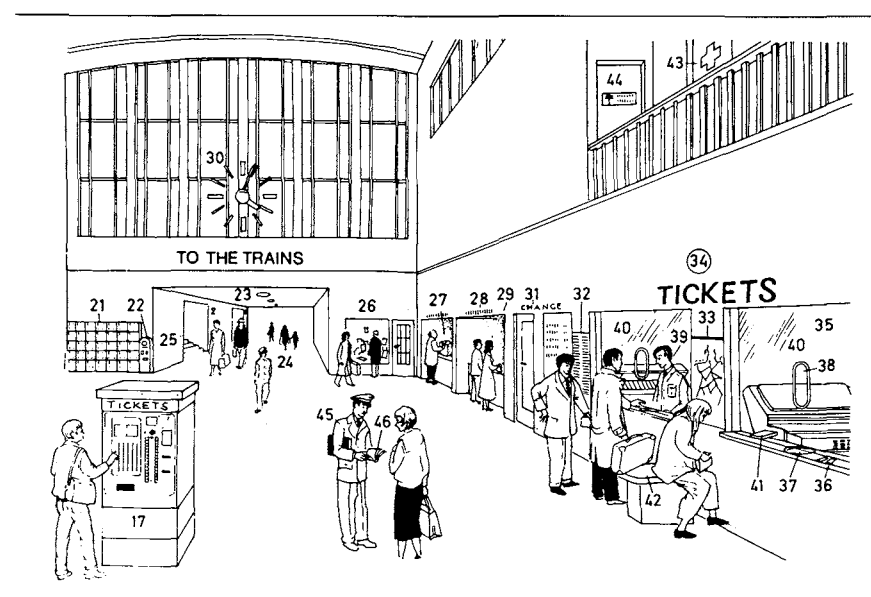
- 1-6 **stop signals** (main signals)
- 1 stop signal (main signal), a semaphore signal in 'stop' position
- 2 signal arm (semaphore arm)
- 3 electric stop signal (colour light, *Am.* color light, signal) at 'stop'
- 4 signal position: 'proceed at low speed'
- 5 signal position: 'proceed'
- 6 substitute signal
- 7-24 **distant signals**
- 7 semaphore signal at 'be prepared to stop at next signal'
- 8 supplementary semaphore arm
- 9 colour light (*Am.* color light) distant signal at 'be prepared to stop at next signal'
- 10 signal position: 'be prepared to proceed at low speed'
- 11 signal position: 'proceed main signal ahead'
- 12 semaphore signal with indicator plate showing a reduction in braking distance of more than 5%
- 13 triangle (triangle sign)
- 14 colour light (*Am.* color light) distant signal with indicator light for showing reduced braking distance
- 15 supplementary white light
- 16 distant signal indicating 'be prepared to stop at next signal' (yellow light)
- 17 second distant signal (distant signal with supplementary light, without indicator plate)
- 18 distant signal with speed indicator
- 19 distant speed indicator
- 20 distant signal with route indicator
- 21 route indicator
- 22 distant signal without supplementary arm in position: 'be prepared to stop at next signal'
- 23 distant signal without supplementary arm in 'be prepared to proceed' position
- 24 distant signal identification plate
- 25-44 **supplementary signals**
- 25 stop board for indicating the stopping point at a control point
- 26-29 **approach signs**
- 26 approach sign 100 m from distant signal
- 27 approach sign 175 m from distant signal
- 28 approach sign 250 m from distant signal
- 29 approach sign at a distance of 5% less than the braking distance on the section
- 30 chequered sign indicating stop signals (main signals) not positioned immediately to the right of or over the line (track)
- 31, 32 stop boards to indicate the stopping point of the front of the train

- 33 stop board indicating 'be prepared to stop'
- 34, 35 snow plough (*Am.* snowplow) signs
- 34 'raise snow plough (*Am.* snowplow)' sign
- 35 'lower snow plough (*Am.* snowplow)' sign
- 36-44 **speed restriction signs**
- 36-38 **speed restriction sign** [maximum speed  $3 \times 10 = 30$  kph]
- 36 sign for day running
- 37 speed code number
- 38 illuminated sign for night running
- 39 commencement of temporary speed restriction
- 40 termination of temporary speed restriction
- 41 speed restriction sign for a section with a permanent speed restriction [maximum speed  $5 \times 10 = 50$  kph]
- 42 commencement of permanent speed restriction
- 43 speed restriction warning sign [only on main lines]
- 44 speed restriction sign [only on main lines]
- 45-52 **point signals** (switch signals)
- 45-48 **single points** (single switches)
- 45 route straight ahead (main line)
- 46 [right] branch
- 47 [left] branch
- 48 branch [seen from the frog]
- 49-52 **double crossover**
- 49 route straight ahead from left to right
- 50 route straight ahead from right to left
- 51 turnout to the left from the left
- 52 turnout to the right from the right
- 53 **manually-operated signal box** (*Am.* signal tower, switch tower)
- 54 lever mechanism
- 55 points lever (switch lever) [blue], a lock lever
- 56 signal lever [red]
- 57 catch
- 58 route lever
- 59 block instruments
- 60 block section panel
- 61 **electrically-operated signal box** (*Am.* signal tower, switch tower)
- 62 points (switch) and signal knobs
- 63 lock indicator panel
- 64 track and signal indicator
- 65 **track diagram control layout**
- 66 track diagram control panel (domino panel)
- 67 push buttons
- 68 routes
- 69 intercom system

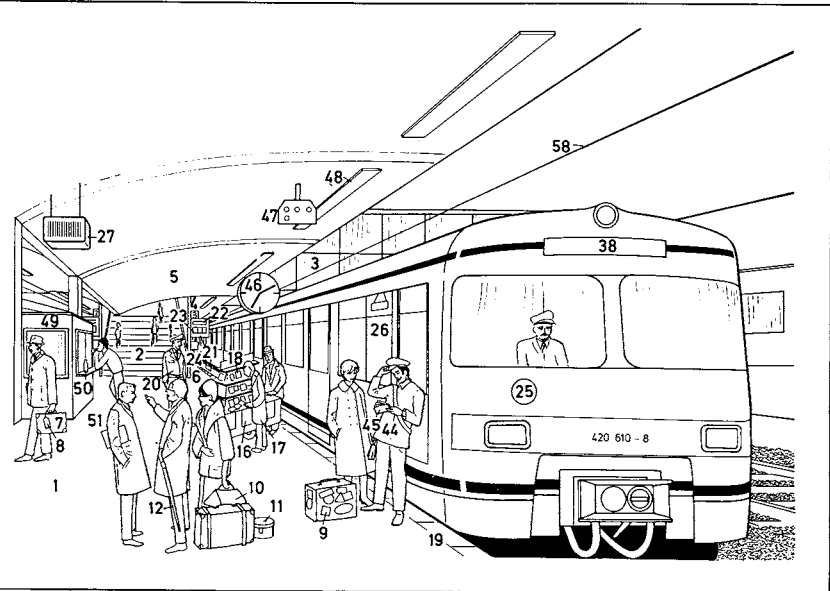
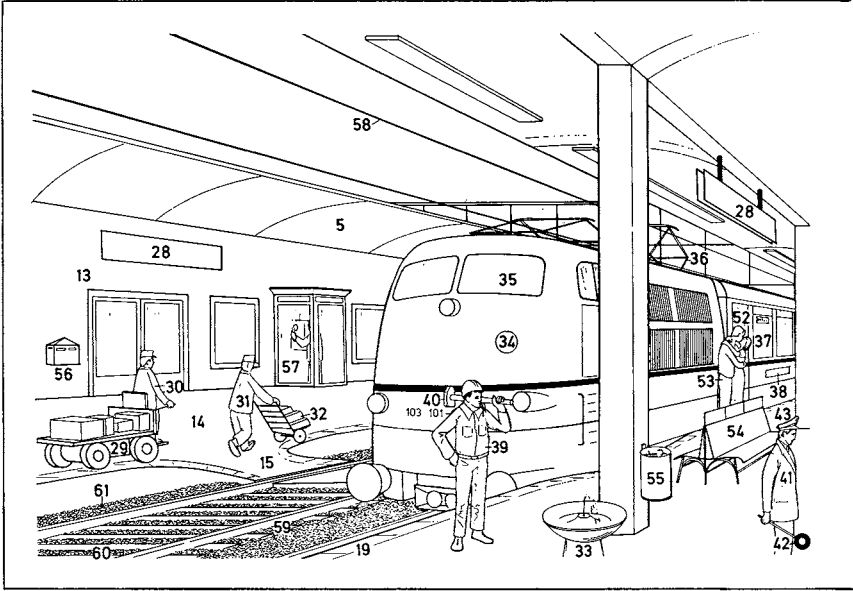




- 1 parcels office
- 2 parcels
- 3 basket [with lock]
- 4 luggage counter
- 5 platform scale with dial
- 6 suitcase (case)
- 7 luggage sticker
- 8 luggage receipt
- 9 luggage clerk
- 10 poster (advertisement)
- 11 station post box (*Am.* station mail-box)
- 12 station guide
- 13 station restaurant
- 14 waiting room
- 15 map of the town (street map)
- 16 timetable (*Am.* schedule)
- 17 ticket machine
- 18 arrivals and departures board (timetable)
- 19 arrival timetable (*Am.* arrival schedule)
- 20 departure timetable (*Am.* departure schedule)



- |   |  |
|---|--|
| <b>21</b> left luggage lockers  | <b>39</b> ticket clerk ( <i>Am.</i> ticket agent)                                |
| <b>22</b> change machine  | <b>40</b> pane of glass (window)   |
| <b>23</b> tunnel to the platforms   | <b>41</b> pocket timetable ( <i>Am.</i> pocket train schedule)                   |
| <b>24</b> passengers  | <b>42</b> luggage rest   |
| <b>25</b> steps to the platforms  | <b>43</b> first aid station  |
| <b>26</b> station bookstall ( <i>Am.</i> station bookstand)                     | <b>44</b> Travellers' ( <i>Am.</i> Travelers') Aid                               |
| <b>27</b> left luggage office (left luggage)                                    | <b>45</b> railway ( <i>Am.</i> railroad) information clerk                       |
| <b>28</b> travel centre ( <i>Am.</i> center); <i>also:</i> accommodation bureau | <b>46</b> official timetable (official railway guide, <i>Am.</i> train schedule) |
| <b>29</b> information office ( <i>Am.</i> information bureau)                   |  |
| <b>30</b> station clock   |  |
| <b>31</b> bank branch with foreign exchange counter                             |  |
| <b>32</b> indicator board showing exchange rates                                |  |
| <b>33</b> railway map ( <i>Am.</i> railroad map)                                |  |
| <b>34</b> ticket office   |  |
| <b>35</b> ticket counter  |  |
| <b>36</b> ticket  |  |
| <b>37</b> revolving tray  |  |
| <b>38</b> grill   |  |

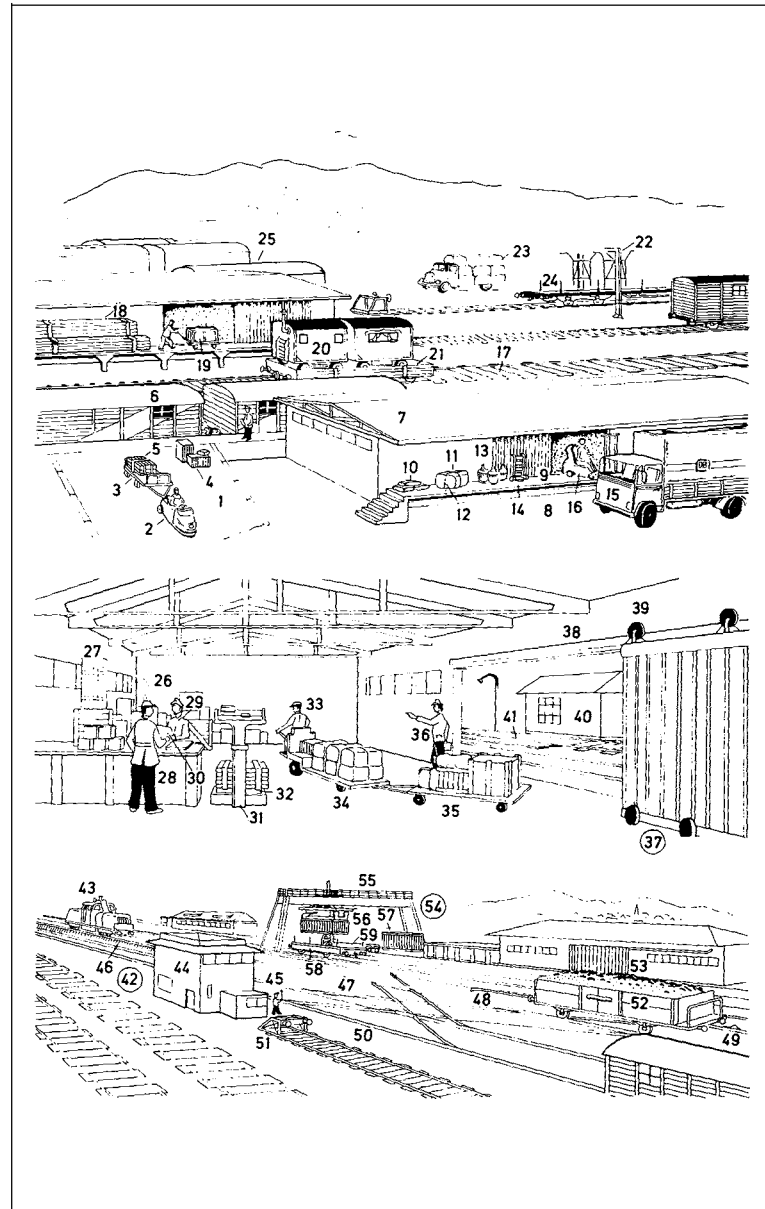


- 1 platform
- 2 steps to the platform
- 3 bridge
- 4 platform number
- 5 platform roofing
- 6 passengers
- 7-12 luggage
- 7 suitcase (case)
- 8 luggage label
- 9 hotel sticker
- 10 travelling (Am. traveling) bag
- 11 hat box
- 12 umbrella, a walking-stick umbrella
- 13 offices
- 14 platform
- 15 crossing
- 16 news trolley
- 17 news vendor (Am. news dealer)
- 18 reading matter for the journey
- 19 edge of the platform
- 20 railway policeman (Am. railroad policeman)
- 21 destination board

- 22 destination indicator
- 23 departure time indicator
- 24 delay indicator
- 25 suburban train, a railcar
- 26 special compartment
- 27 platform loudspeaker
- 28 station sign
- 29 electric trolley (electric truck)
- 30 loading foreman
- 31 porter (Am. redcap)
- 32 barrow
- 33 drinking fountain
- 34 electric Eurocity express; also: IC express (Intercity express)
- 35 electric locomotive, an express locomotive
- 36 collector bow (sliding bow)
- 37 secretarial compartment
- 38 destination board
- 39 wheel tapper
- 40 wheel-tapping hammer
- 41 station foreman
- 42 signal

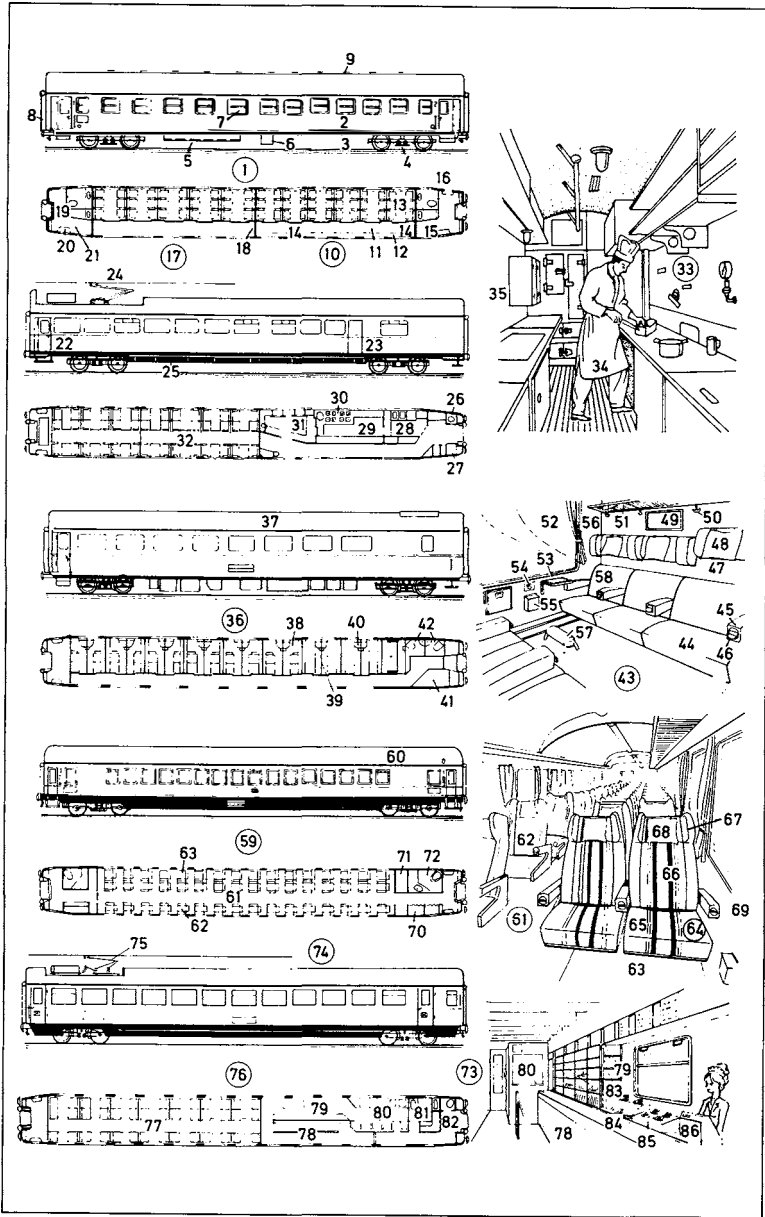
- 43 red cap
- 44 inspector
- 45 pocket timetable (Am. pocket train schedule)
- 46 platform clock
- 47 starting signal
- 48 platform lighting
- 49 refreshment kiosk
- 50 beer bottle
- 51 newspaper
- 52 parting kiss
- 53 embrace
- 54 platform seat
- 55 litter bin (Am. trash bin)
- 56 platform post box (Am. platform mailbox)
- 57 platform telephone
- 58 trolley wire (overhead contact wire)
- 59-61 track
- 59 rail
- 60 sleeper (Am. tie, crosstie)
- 61 ballast (bed)

- 1 ramp (vehicle ramp); *sim.*: live-stock ramp
- 2 electric truck
- 3 trailer
- 4 part loads (*Am.* package freight, less-than-carload freight); *in general traffic*: general goods in general consignments (in mixed consignments)
- 5 crate
- 6 goods van (*Am.* freight car)
- 7 goods shed (*Am.* freight house)
- 8 loading strip
- 9 loading dock
- 10 bale of peat
- 11 bale of linen (of linen cloth)
- 12 fastening (cord)
- 13 wicker bottle (wickered bottle, demijohn)
- 14 trolley
- 15 goods lorry (*Am.* freight truck)
- 16 forklift truck (fork truck, forklift)
- 17 loading siding
- 18 bulky goods
- 19 small railway-owned (*Am.* railroad-owned) container
- 20 showman's caravan (*sim.* circus caravan)
- 21 flat wagon (*Am.* flat freight car)
- 22 loading gauge (*Am.* gage)
- 23 bale of straw
- 24 flat wagon (*Am.* flatcar) with side stakes
- 25 fleet of lorries (*Am.* trucks)
- 26-39 goods shed (*Am.* freight house)
- 26 goods office (forwarding office, *Am.* freight office)
- 27 part-load goods (*Am.* package freight)
- 28 forwarding agent (*Am.* freight agent, shipper)
- 29 loading foreman
- 30 consignment note (waybill)
- 31 weighing machine
- 32 pallet
- 33 porter
- 34 electric cart (electric truck)
- 35 trailer
- 36 loading supervisor
- 37 goods shed door (*Am.* freight house door)
- 38 rail (slide rail)
- 39 roller
- 40 weighbridge office
- 41 weighbridge
- 42 marshalling yard (*Am.* classification yard, switch yard)
- 43 shunting engine (shunting locomotive, shunter, *Am.* switch engine, switcher)
- 44 marshalling yard signal box (*Am.* classification yard switch tower)
- 45 yardmaster
- 46 hump
- 47 sorting siding (classification siding, classification track)
- 48 rail brake (retarder)
- 49 slipper brake (slipper)
- 50 storage siding (siding)
- 51 buffer (buffers, *Am.* bumper)
- 52 wagon load (*Am.* carload)
- 53 warehouse
- 54 container station
- 55 gantry crane
- 56 lifting gear (hoisting gear)
- 57 container
- 58 container wagon (*Am.* container car)
- 59 semi-trailer

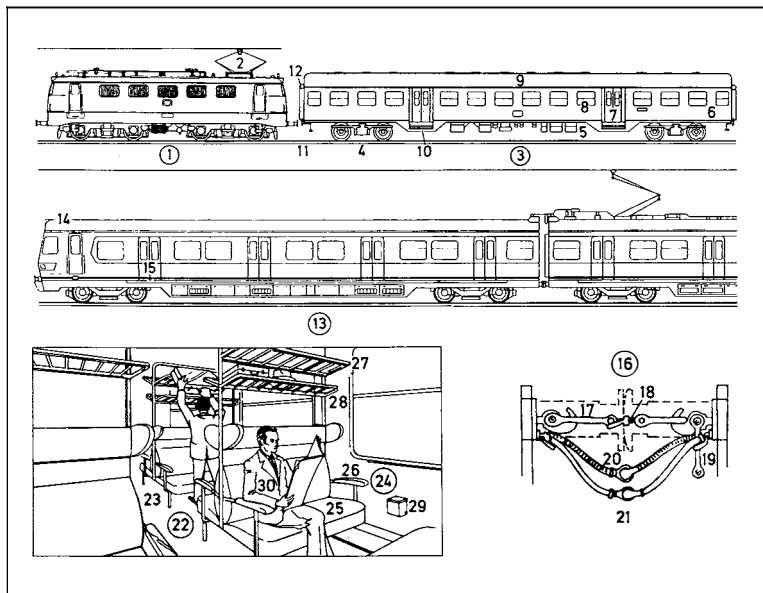


- 1-21 **express train coach** (express train carriage, express train car, corridor compartment coach), a passenger coach
- 1 side elevation (side view)  
2 coach body  
3 underframe (frame)  
4 bogie (truck) with steel and rubber suspension and shock absorbers  
5 battery containers (battery boxes)  
6 steam and electric heat exchanger for the heating system  
7 sliding window  
8 rubber connecting seal  
9 ventilator
- 10-21 **plan**  
10 second-class section  
11 corridor  
12 folding seat (tip-up seat)  
13 passenger compartment (compartment)  
14 compartment door  
15 washroom  
16 toilet (lavatory, WC)  
17 first-class section  
18 swing door  
19 sliding connecting door  
20 door  
21 vestibule
- 22-32 **dining car** (restaurant car, diner)  
22-25 **side elevation** (side view)  
22 door  
23 loading door  
24 current collector for supplying power during stops  
25 battery boxes (battery containers)
- 26-32 **plan**  
26 staff washroom  
27 storage cupboard  
28 washing-up area  
29 kitchen  
30 electric oven with eight hotplates  
31 counter  
32 dining compartment  
33 dining car kitchen  
34 chef (head cook)  
35 kitchen cabinet  
36 sleeping car (sleeper)  
37 side elevation (side view)  
38-42 **plan**  
38 two-seat twin-berth compartment (two-seat two-berth compartment, *Am. bedroom*)

- 39 folding doors  
40 washstand  
41 office  
42 toilet (lavatory, WC)  
43 express train compartment  
44 upholstered reclining seat  
45 armrest  
46 ashtray in the armrest  
47 adjustable headrest  
48 antimacassar  
49 mirror  
50 coat hook  
51 luggage rack  
52 compartment window  
53 fold-away table (pull-down table)  
54 heating regulator  
55 litter receptacle  
56 curtain  
57 footrest  
58 corner seat  
59 open car  
60 side elevation (side view)
- 61-72 **plan**  
61 open carriage  
62 row of single seats  
63 row of double seats  
64 reclining seat  
65 seat upholstery  
66 backrest  
67 headrest  
68 down-filled headrest cushion with nylon cover  
69 armrest with ashtray  
70 cloakroom  
71 luggage compartment  
72 toilet (lavatory, WC)  
73 buffet car (quick-service buffet car), a self-service restaurant car  
74 side elevation (side view)  
75 current collector for supplying power during stops  
76 plan  
77 dining compartment  
78-79 **buffet** (buffet compartment)  
78 customer area  
79 serving area  
80 kitchen  
81 staff compartment  
82 staff toilet (staff lavatory, staff WC)  
83 food compartments  
84 plates  
85 cutlery  
86 till (cash register)

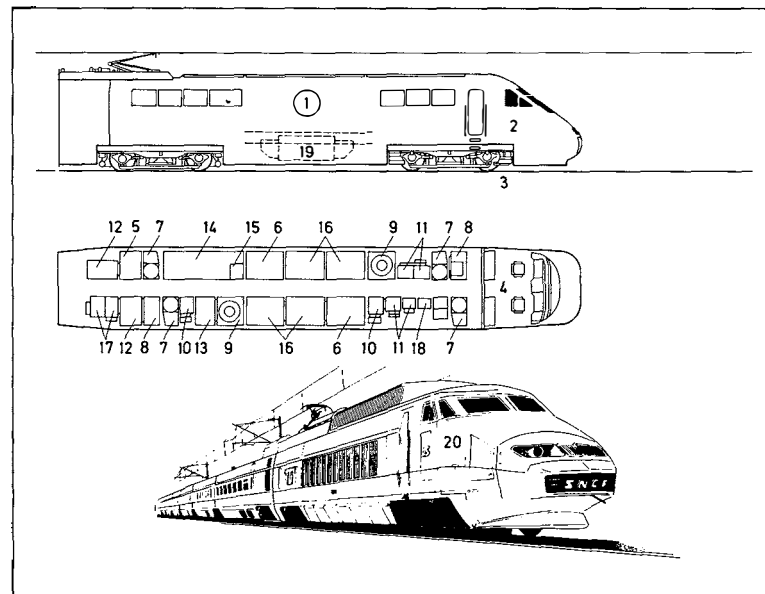




**1-30 local train service****1-12 local train** (short-distance train)

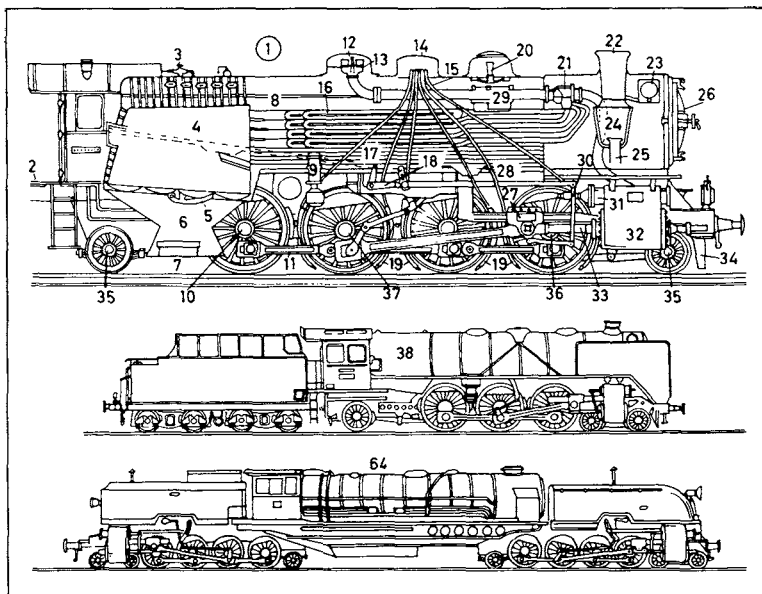
- 1** electric locomotive
- 2** current collector
- 3** four-axled coach (four-axled car) for short-distance routes, a passenger coach (passenger car)
- 4** bogie (truck) [with disc (disk) brakes]
- 5** underframe (frame)
- 6** coach body with metal panelling (*Am.* paneling)
- 7** double folding doors
- 8** compartment window
- 9** open carriage
- 10** entrance
- 11** connecting corridor
- 12** rubber connecting seal
- 13** light railcar, a short-distance railcar
- 14** cab (driver's cab, *Am.* engineer's cab)
- 15** carriage door

- 16** connecting hoses and coupling
- 17** coupling link
- 18** tensioning device (coupling screw with tensioning lever)
- 19** unlinked coupling
- 20** heating coupling hose (steam coupling hose)
- 21** coupling hose (connecting hose) for the compressed-air braking system
- 22** second-class section
- 23** central gangway
- 24** compartment
- 25** upholstered seat
- 26** armrest
- 27** luggage rack
- 28** hat and light luggage rack
- 29** ashtray
- 30** passenger

**1-19 Intercity Express**

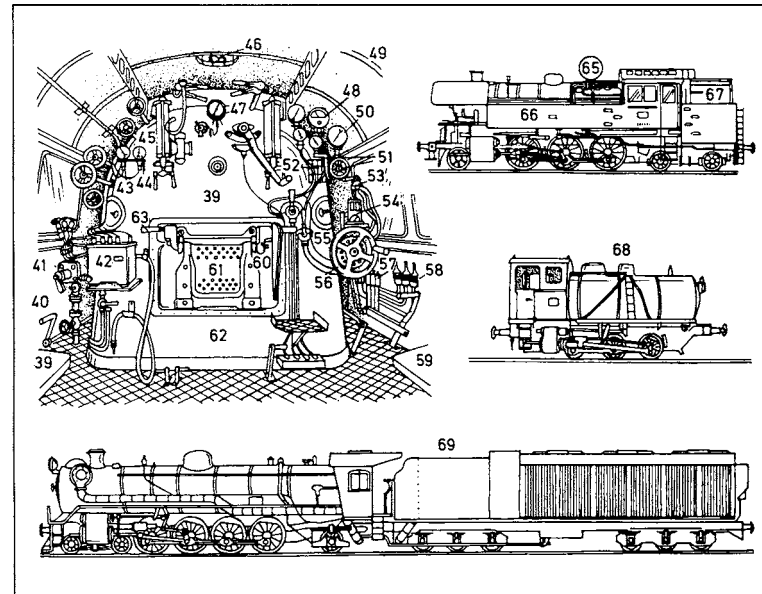
- 1** German Federal Railway trainset
- 2** driving unit (power car)
- 3** driving bogie with traction motors
- 4** cab (driver's cab, *Am.* engineer's cab)
- 5** powersupply (traction current filter)
- 6** contactors (converters, inductance)
- 7** traction motor blower
- 8** inductance protection (converter)
- 9** oil-cooling plant
- 10** converter for the auxiliaries
- 11** electronics
- 12** control current equipment
- 13** auxiliaries (switchgear)
- 14** pneumatic equipment
- 15** air-conditioning plant
- 16** main current converters
- 17** measuring equipment (diagnosis)
- 18** continuous automatic train-running control
- 19** transformer

**20 TGV** (Train à Grande Vitesse) of the Société Nationale des Chemins de Fer Français (SNCF)

**1-69 steam locomotives****2-37 locomotive boiler and driving gear**

- 2 tender platform with coupling
- 3 safety valve for excess boiler pressure
- 4 firebox
- 5 drop grate
- 6 ashpan with damper doors
- 7 bottom door of the ashpan
- 8 smoke tubes (flue tubes)
- 9 feed pump
- 10 axle bearing
- 11 coupling rod
- 12 steam dome
- 13 regulator valve (regulator main valve)
- 14 sand dome
- 15 sand pipes (sand tubes)
- 16 boiler (boiler barrel)
- 17 fire tubes or steam tubes
- 18 reversing gear (steam reversing gear)
- 19 sand pipes

- 20 feed valve
- 21 steam collector
- 22 chimney (smokestack, smoke outlet and waste steam exhaust)
- 23 feedwater preheater (feedwater heater, economizer)
- 24 spark arrester
- 25 blast pipe
- 26 smokebox door
- 27 cross head
- 28 mud drum
- 29 top feedwater tray
- 30 combination lever
- 31 steam chest
- 32 cylinder
- 33 piston rod with stuffing box (packing box)
- 34 guard iron (rail guard, *Am.* pilot, cowcatcher)
- 35 carrying axle (running axle, dead axle)
- 36 coupled axle
- 37 driving axle
- 38 express locomotive with tender

**39-63 cab (driver's cab, *Am.* engineer's cab)**

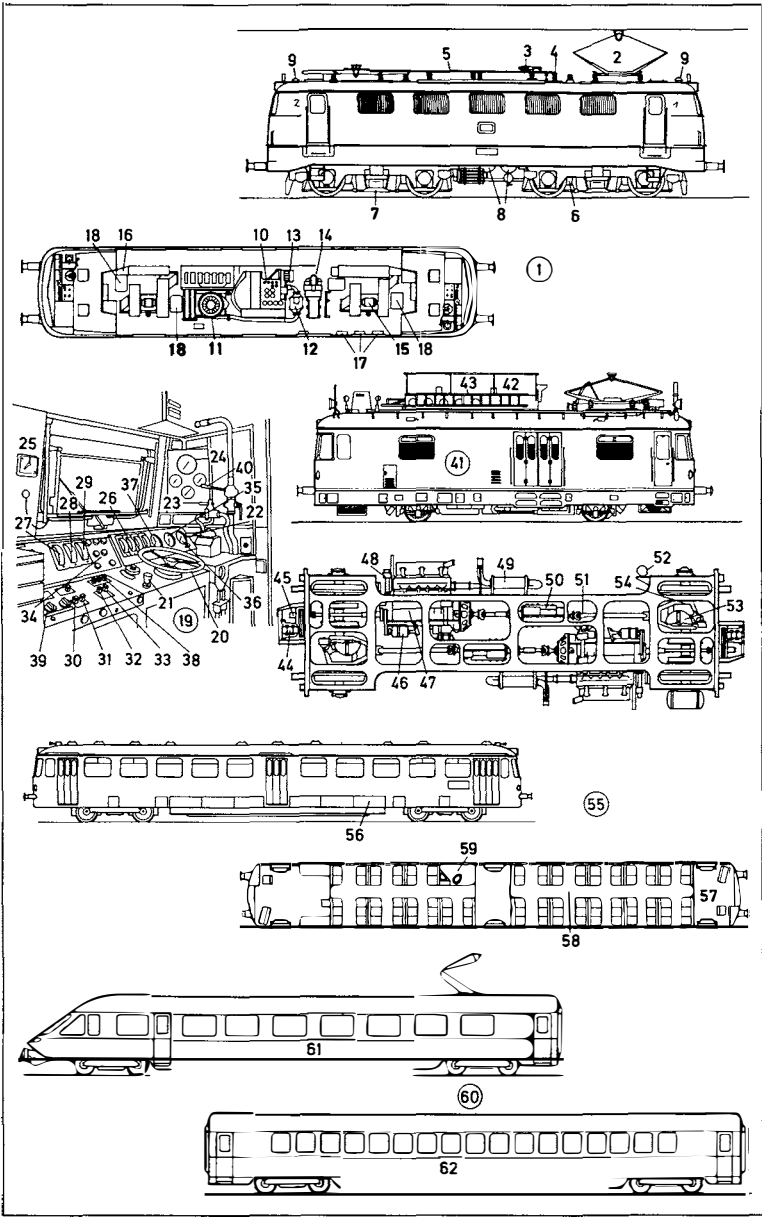
- 39 fireman's seat
- 40 drop grate lever
- 41 line steam injector
- 42 automatic lubricant pump (automatic lubricator)
- 43 preheater pressure gauge (*Am.* gage)
- 44 carriage heating pressure gauge (*Am.* gage)
- 45 water gauge (*Am.* gage)
- 46 light
- 47 boiler pressure gauge (*Am.* gage)
- 48 distant-reading temperature gauge (*Am.* gage)
- 49 cab (driver's cab, *Am.* engineer's cab)
- 50 brake pressure gauge (*Am.* gage)
- 51 whistle valve handle
- 52 driver's timetable (*Am.* engineer's schedule)
- 53 driver's brake valve (*Am.* engineer's brake valve)

**54 speed recorder (tachograph)**

- 55 sanding valve
- 56 reversing wheel
- 57 emergency brake valve
- 58 release valve
- 59 driver's seat (*Am.* engineer's seat)
- 60 firehole shield
- 61 firehole door
- 62 vertical boiler
- 63 firedoor handle handgrip
- 64 articulated locomotive (Garratt locomotive)
- 65 tank locomotive
- 66 water tank
- 67 fuel tender
- 68 steam storage locomotive (fireless locomotive)
- 69 condensing locomotive (locomotive with condensing tender)

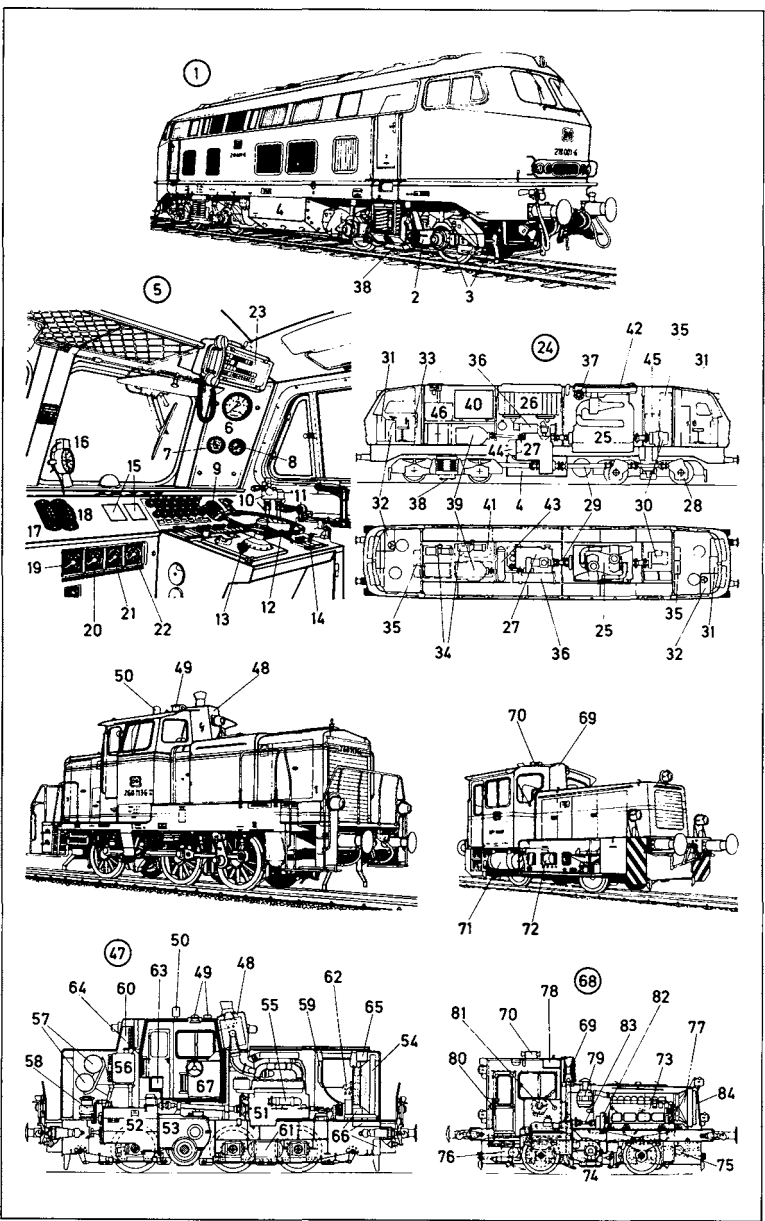
- 1 electric locomotive
- 2 current collector
- 3 main switch
- 4 high-tension transformer
- 5 roof cable
- 6 traction motor
- 7 inductive train control system
- 8 main air reservoir
- 9 whistle
- 10-18 plan of locomotive
- 10 transformer with tap changer
- 11 oil cooler with blower
- 12 oil-circulating pump
- 13 tap changer driving mechanism
- 14 air compressor
- 15 traction motor blower
- 16 terminal box
- 17 capacitors for auxiliary motors
- 18 commutator cover
- 19 cab (driver's cab, *Am.* engineer's cab)
- 20 controller handwheel
- 21 dead man's handle
- 22 driver's brake valve (*Am.* engineer's brake valve)
- 23 ancillary brake valve (auxiliary brake valve)
- 24 pressure gauge (*Am.* gage)
- 25 bypass switch for the dead man's handle
- 26 tractive effort indicator
- 27 train heating voltage indicator
- 28 contact wire voltage indicator (overhead wire voltage indicator)
- 29 high-tension voltage indicator
- 30 on/off switch for the current collector
- 31 main switch
- 32 sander switch (sander control)
- 33 anti-skid brake switch
- 34 visual display for the ancillary systems
- 35 speedometer
- 36 running step indicator
- 37 clock
- 38 controls for the inductive train control system

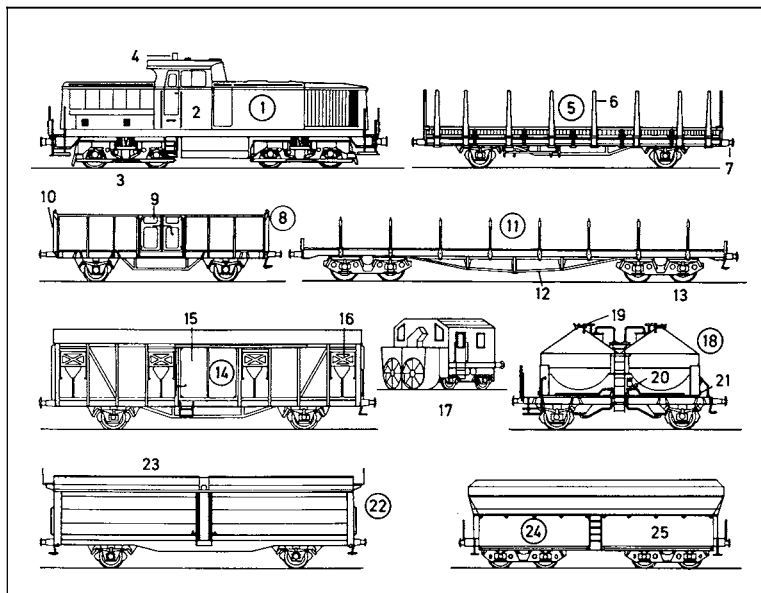
- 39 cab heating switch
- 40 whistle lever
- 41 contact wire maintenance vehicle (overhead wire maintenance vehicle), a diesel railcar
- 42 work platform (working platform)
- 43 ladder
- 44-54 mechanical equipment of the contact wire maintenance vehicle
- 44 air compressor
- 45 blower oil pump
- 46 generator
- 47 diesel engine
- 48 injection pump
- 49 silencer (*Am.* muffler)
- 50 change-speed gear
- 51 cardan shaft
- 52 wheel flange lubricator
- 53 reversing gear
- 54 torque converter bearing
- 55 accumulator railcar (battery railcar)
- 56 battery box (battery container)
- 57 cab (driver's cab, *Am.* engineer's cab)
- 58 second-class seating arrangement
- 59 toilet (lavatory, WC)
- 60 fast electric multiple-unit train
- 61 front railcar
- 62 driving trailer car



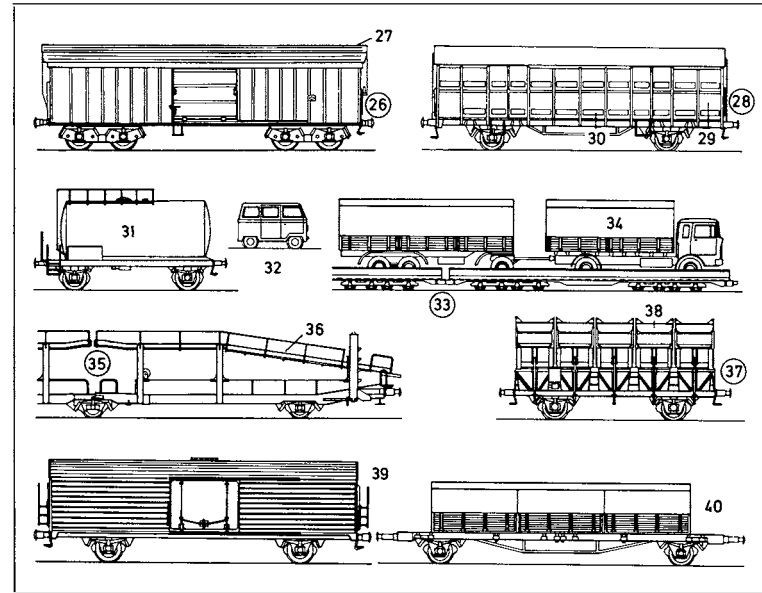
- 1-84 diesel locomotives**  
**1 diesel-hydraulic locomotive**, a mainline locomotive (diesel locomotive) for medium passenger and goods service (freight service)  
**2** bogie (truck)  
**3** wheel and axle set  
**4** main fuel tank  
**5** cab (driver's cab, *Am.* engineer's cab) of a diesel locomotive  
**6** main air pressure gauge (*Am.* gage)  
**7** brake cylinder pressure gauge (*Am.* gage)  
**8** main air reservoir pressure gauge (*Am.* gage)  
**9** speedometer  
**10** auxiliary brake  
**11** driver's brake valve (*Am.* engineer's brake valve)  
**12** controller handwheel  
**13** dead man's handle  
**14** inductive train control system  
**15** signal lights  
**16** clock  
**17** voltage meter for the train heating system  
**18** current meter for the train heating system  
**19** engine oil temperature gauge (*Am.* gage)  
**20** transmission oil temperature gauge (*Am.* gage)  
**21** cooling water temperature gauge (*Am.* gage)  
**22** revolution counter (rev counter, tachometer)  
**23** radio telephone  
**24** diesel-hydraulic locomotive [plan and elevation]  
**25** diesel engine  
**26** cooling unit  
**27** fluid transmission  
**28** wheel and axle drive  
**29** cardan shaft  
**30** starter motor  
**31** instrument panel  
**32** driver's control desk (*Am.* engineer's control desk)  
**33** hand brake  
**34** air compressor with electric motor  
**35** equipment locker  
**36** heat exchanger for transmission oil  
**37** engine room ventilator  
**38** magnet for the inductive train control system  
**39** train heating generator

- 40** casing of the train heating system transformer  
**41** preheater  
**42** exhaust silencer (*Am.* exhaust muffler)  
**43** auxiliary heat exchanger for the transmission oil  
**44** hydraulic brake  
**45** tool box  
**46** starter battery  
**47 diesel-hydraulic locomotive** for light and medium shunting service  
**48** exhaust silencer (*Am.* exhaust muffler)  
**49** bell and whistle  
**50** yard radio  
**51-67** elevation of locomotive  
**51** diesel engine with supercharged turbine  
**52** fluid transmission  
**53** output gear box  
**54** radiator  
**55** heat exchanger for the engine lubricating oil  
**56** fuel tank  
**57** main air reservoir  
**58** air compressor  
**59** sand boxes  
**60** reserve fuel tank  
**61** auxiliary air reservoir  
**62** hydrostatic fan drive  
**63** seat with clothes compartment  
**64** hand brake wheel  
**65** cooling water  
**66** ballast  
**67** engine and transmission control wheel  
**68 small diesel locomotive** for shunting service  
**69** exhaust casing  
**70** horn  
**71** main air reservoir  
**72** air compressor  
**73** eight-cylinder diesel engine  
**74** Voith transmission with reversing gear  
**75** heating oil tank (fuel oil tank)  
**76** sand box  
**77** cooling unit  
**78** header tank for the cooling water  
**79** oil bath air cleaner (oil bath air filter)  
**80** hand brake wheel  
**81** control wheel  
**82** coupling  
**83** cardan shaft  
**84** louvred shutter

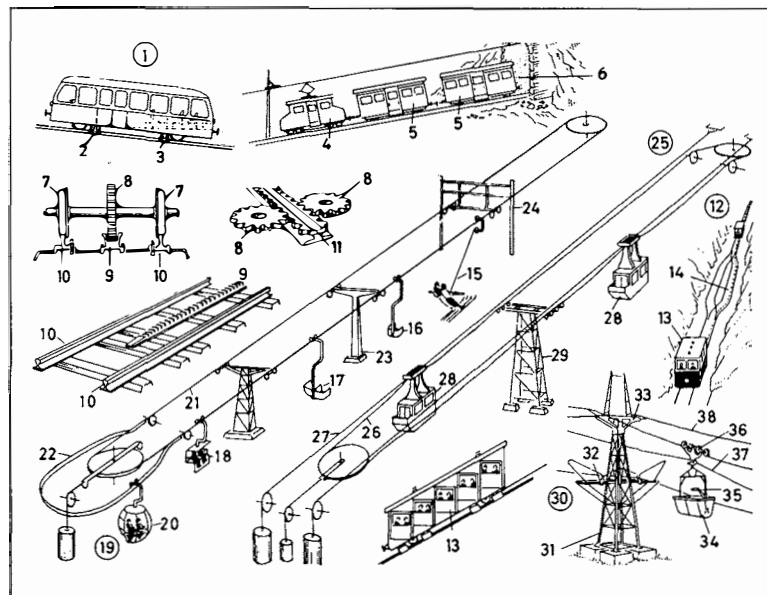




- 1 diesel-hydraulic locomotive
- 2 cab (driver's cab, *Am.* engineer's cab)
- 3 wheel and axle set
- 4 aerial for the yard radio
- 5 standard flat wagon (*Am.* standard flatcar)
- 6 hinged steel stanchion (stanchion)
- 7 buffers
- 8 standard open goods wagon (*Am.* standard open freight car)
- 9 revolving side doors
- 10 hinged front
- 11 standard flat wagon (*Am.* standard flatcar) with bogies
- 12 sole bar reinforcement
- 13 bogie (truck)
- 14 covered goods van (covered goods wagon, *Am.* boxcar)
- 15 sliding door
- 16 ventilation flap
- 17 snow blower (rotary snow plough, *Am.* snowplow), a track-clearing vehicle
- 18 wagon (*Am.* car) with pneumatic discharge
- 19 filler hole
- 20 compressed-air supply
- 21 discharge connection valve
- 22 goods van (*Am.* boxcar) with sliding roof
- 23 roof opening
- 24 bogie open self-discharge wagon (*Am.* bogie open self-discharge freight car)
- 25 discharge flap (discharge door)



- 26 bogie wagon with swivelling (*Am.* swiveling) roof
- 27 swivelling (*Am.* swiveling) roof
- 28 large-capacity wagon (*Am.* large-capacity car) for small livestock
- 29 sidewall with ventilation flaps (slatted wall)
- 30 ventilation flap
- 31 tank wagon (*Am.* tank car)
- 32 track inspection railcar
- 33 open special wagons (*Am.* open special freight cars)
- 34 lorry (*Am.* truck) with trailer
- 35 two-tier car carrier (double-deck car carrier)
- 36 hinged upper deck
- 37 tipper wagon (*Am.* dump car) with skips
- 38 skip
- 39 general-purpose refrigerator wagon (refrigerator van, *Am.* refrigerator car)
- 40 interchangeable bodies for flat wagons (*Am.* flatcars)



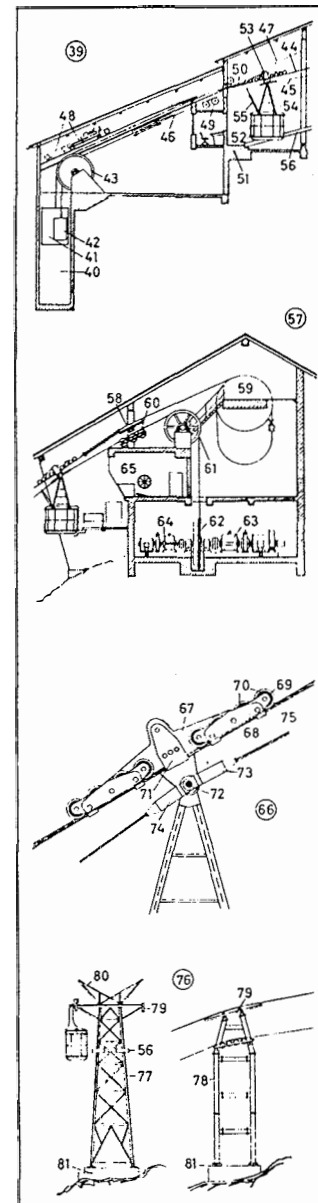
### 1-14 mountain railways (Am. mountain railroads)

- 1 adhesion railcar
- 2 drive
- 3 emergency brake
- 4, 5 rack mountain railway (rack-and-pinion railway, cog railway, Am. cog railroad, rack railroad)
- 4 electric rack railway locomotive (Am. electric rack railroad locomotive)
- 5 rack railway coach (rack railway trailer, Am. rack railroad car)
- 6 tunnel
- 7-11 rack railways (rack-and-pinion railways, Am. rack railroads) [systems]
- 7 running wheel (carrying wheel)
- 8 driving pinion
- 9 rack [with teeth machined on top edge]
- 10 rail
- 11 rack [with teeth on both outer edges]
- 12 funicular railway (funicular, cable railway)
- 13 funicular railway car
- 14 haulage cable
- 15-38 cableways (ropeways, cable suspension lines)
- 15-24 single-cable ropeways (single-cable suspension lines), endless cableways, endless ropeways
- 15 drag lift

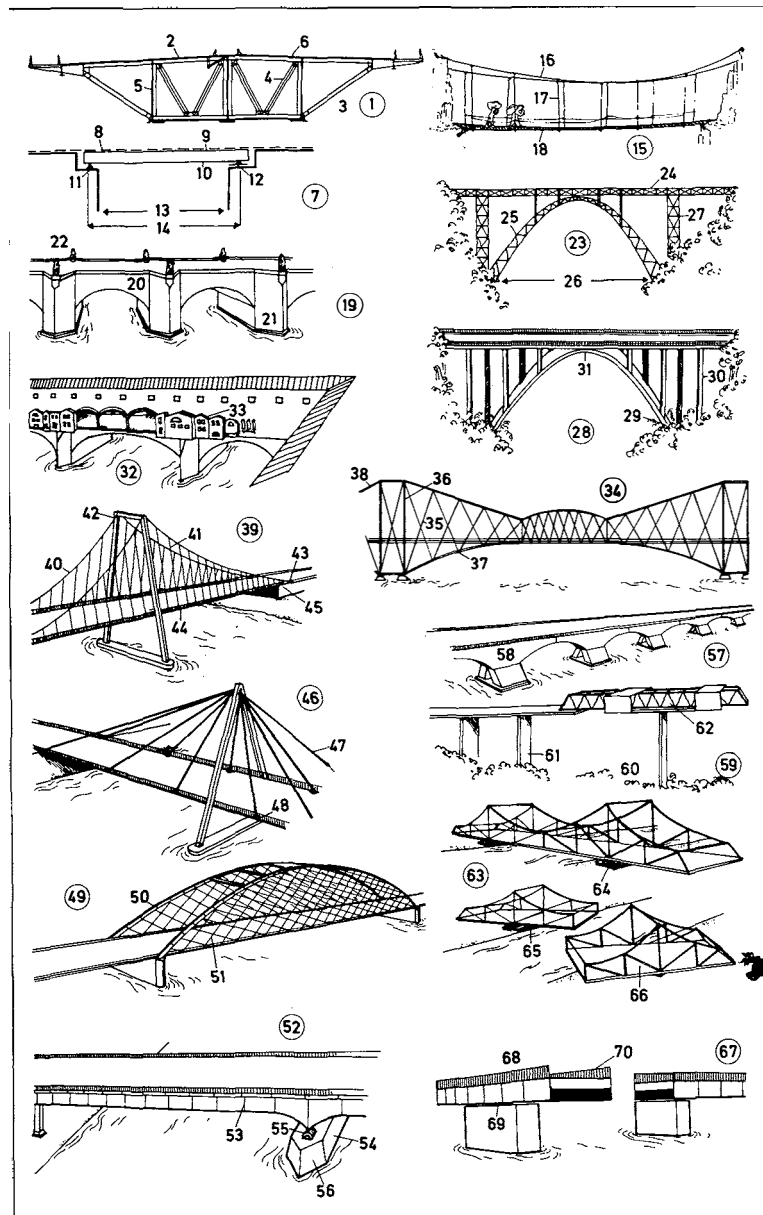
### 16-18 chair lift

- 16 lift chair, a single chair
- 17 double lift chair, a two-seater chair
- 18 double chair (two-seater chair) with coupling
- 19 gondola cableway, an endless cableway
- 20 gondola (cabin)
- 21 endless cable, a suspension (supporting) and haulage cable
- 22 U-rail
- 23 single-pylon support
- 24 gantry support
- 25 double-cable ropeway (double-cable suspension line), a suspension line with balancing cabins
- 26 haulage cable
- 27 suspension cable (supporting cable)
- 28 cabin
- 29 intermediate support
- 30 cableway (ropeway, suspension line), a double-cable ropeway (double-cable suspension line)
- 31 pylon
- 32 haulage cable roller
- 33 cable guide rail (suspension cable bearing)
- 34 skip, a tipping bucket (Am. dumping bucket)
- 35 stop
- 36 pulley cradle
- 37 haulage cable

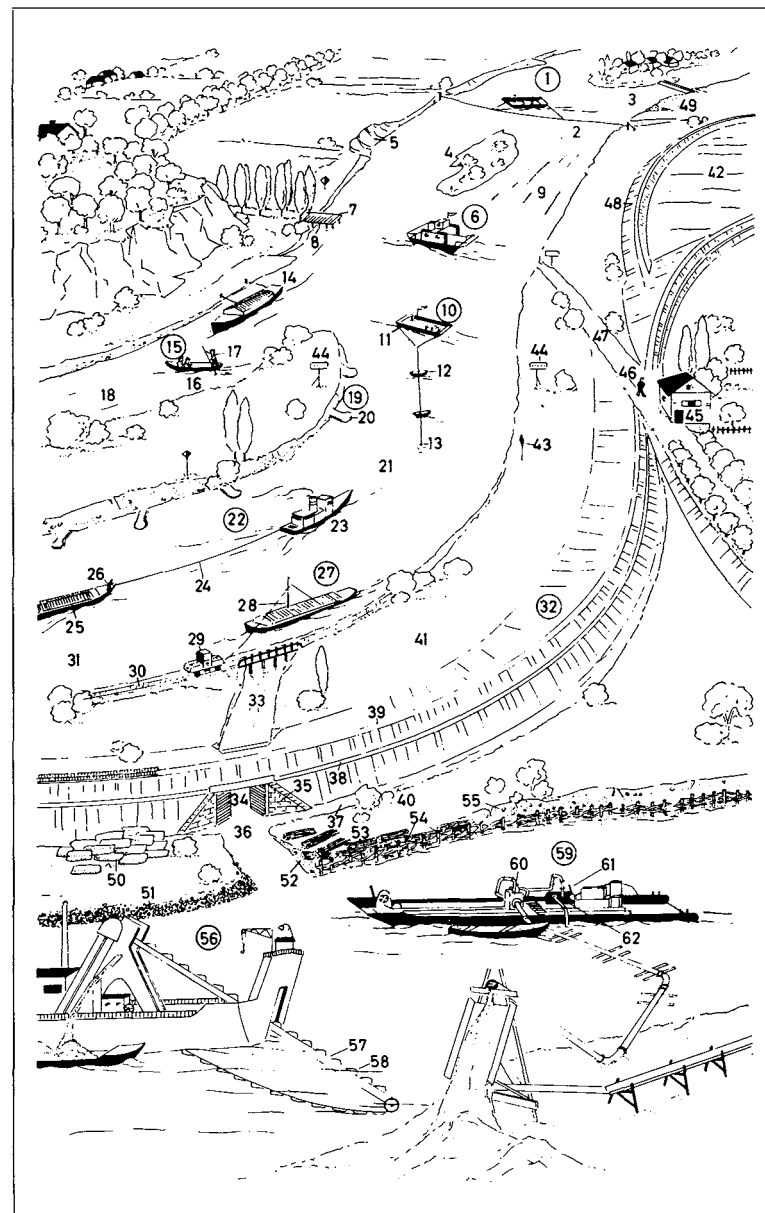
- 38 suspension cable (supporting cable)
- 39 valley station (lower station)
- 40 tension weight shaft
- 41 tension weight for the suspension cable (supporting cable)
- 42 tension weight for the haulage cable
- 43 tension cable pulley
- 44 suspension cable (supporting cable)
- 45 haulage cable
- 46 balance cable (lower cable)
- 47 auxiliary cable (emergency cable)
- 48 auxiliary-cable tensioning mechanism (emergency-cable tensioning mechanism)
- 49 haulage cable rollers
- 50 spring buffer (Am. spring bumper)
- 51 valley station platform (lower station platform)
- 52 cabin (cableway gondola, ropeway gondola, suspension line gondola), a large-capacity cabin
- 53 pulley cradle
- 54 suspension gear
- 55 stabilizer
- 56 guide rail
- 57 top station (upper station)
- 58 suspension cable guide (supporting cable guide)
- 59 suspension cable anchorage (supporting cable anchorage)
- 60 haulage cable rollers
- 61 haulage cable guide wheel
- 62 haulage cable driving pulley
- 63 main drive
- 64 standby drive
- 65 control room
- 66 cabin pulley cradle
- 67 main pulley cradle
- 68 double cradle
- 69 two-wheel cradle
- 70 running wheels
- 71 suspension cable brake (supporting cable brake), an emergency brake in case of haulage cable failure
- 72 suspension gear bolt
- 73 haulage cable sleeve
- 74 balance cable sleeve (lower cable sleeve)
- 75 derailment guard
- 76 cable supports (ropeway supports, suspension line supports, intermediate supports)
- 77 pylon, a framework support
- 78 tubular steel pylon, a tubular steel support
- 79 suspension cable guide rail (supporting cable guide rail, support guide rail)
- 80 support truss, a frame for work on the cable
- 81 base of the support



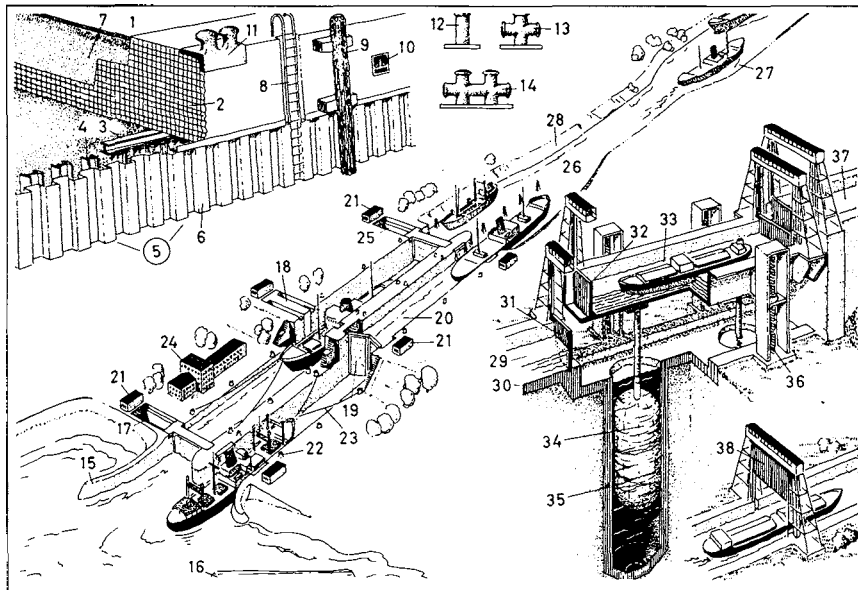
- 1 cross-section of a bridge
- 2 orthotropic roadway (orthotropic deck)
- 3 truss (bracing)
- 4 diagonal brace (diagonal strut)
- 5 hollow tubular section
- 6 deck slab
- 7 solid-web girder bridge (beam bridge)
- 8 road surface
- 9 top flange
- 10 bottom flange
- 11 fixed bearing
- 12 movable bearing
- 13 clear span
- 14 span
- 15 rope bridge (primitive suspension bridge)
- 16 carrying rope
- 17 suspension rope
- 18 woven deck (woven decking)
- 19 stone arch bridge, a solid bridge
- 20 arch
- 21 pier
- 22 statue
- 23 trussed arch bridge
- 24 truss element
- 25 trussed arch
- 26 arch span
- 27 abutment (end pier)
- 28 spandrel-braced arch bridge
- 29 abutment (abutment pier)
- 30 bridge strut
- 31 crown
- 32 covered bridge of the Middle Ages (the *Ponte Vecchio* in Florence)
- 33 goldsmiths' shops
- 34 steel lattice bridge
- 35 counterbrace (crossbrace, diagonal member)
- 36 vertical member
- 37 truss joint
- 38 portal frame
- 39 suspension bridge
- 40 suspension cable
- 41 suspender (hanger)
- 42 tower
- 43 suspension cable anchorage
- 44 tied beam [with roadway]
- 45 abutment
- 46 cable-stayed bridge
- 47 inclined tension cable
- 48 inclined cable anchorage
- 49 reinforced concrete bridge
- 50 reinforced concrete arch
- 51 inclined cable system (multiple cable system)
- 52 flat bridge, a plate girder bridge
- 53 stiffener
- 54 pier
- 55 bridge bearing
- 56 cutwater
- 57 straits bridge, a bridge built of precast elements
- 58 precast construction unit
- 59 viaduct
- 60 valley bottom
- 61 reinforced concrete pier
- 62 scaffolding
- 63 lattice swing bridge
- 64 turntable
- 65 pivot pier
- 66 pivoting half (pivoting section, pivoting span, movable half) of bridge
- 67 flat swing bridge
- 68 middle section
- 69 pivot
- 70 parapet (handrailing)



- 1 **cable ferry** (*also*: chain ferry), a passenger ferry
- 2 ferry rope (ferry cable)
- 3 river branch (river arm)
- 4 river island (river islet)
- 5 collapsed section of riverbank, flood damage
- 6 **motor ferry**
- 7 ferry landing stage (motorboat landing stage)
- 8 pile foundations
- 9 current (flow, course)
- 10 **flying ferry** (river ferry), a car ferry
- 11 ferry boat
- 12 buoy (float)
- 13 anchorage
- 14 harbour (*Am.* harbor) for laying up river craft
- 15 **ferry boat** (punt)
- 16 pole (punt pole, quant pole)
- 17 ferryman
- 18 blind river branch (blind river arm)
- 19 groyne (*Am.* groin)
- 20 groyne (*Am.* groin) head
- 21 fairway (navigable part of river)
- 22 **train of barges**
- 23 river tug
- 24 tow rope (tow line, towing hawser)
- 25 barge (freight barge, cargo barge, lighter)
- 26 bargeman (bargee, lighterman)
- 27 **towing** (hauling, haulage)
- 28 towing mast
- 29 towing engine
- 30 towing track; *form.:* tow path (towing path)
- 31 river after river training
- 32 **dike** (dyke, main dike, flood wall, winter dike)
- 33 drainage ditch
- 34 dike (dyke) drainage sluice
- 35 wing wall
- 36 outfall
- 37 drain (infiltration drain)
- 38 berm (berme)
- 39 top of dike (dyke)
- 40 dike (dyke) batter (dike slope)
- 41 flood bed (inundation area)
- 42 flood containment area
- 43 current meter
- 44 kilometre (*Am.* kilometer) sign
- 45 dikereeve's (dykereeve's) house (dikereeve's cottage); *also*: ferryman's house (cottage)
- 46 dikereeve (dykereeve)
- 47 dike (dyke) ramp
- 48 summer dike (summer dyke)
- 49 levee (embankment)
- 50 sandbags
- 51-55 **bank protection** (bank stabilization, revetment)
  - 51 riprap
  - 52 alluvial deposit (sand deposit)
  - 53 fascine (bundle of wooden sticks)
  - 54 wicker fences
  - 55 stone pitching
- 56 **floating dredging machine** (dredger), a multi-bucket ladder dredge
  - 57 bucket elevator chain
  - 58 dredging bucket
- 59 **suction dredger** (hydraulic dredger) with trailing suction pipe or barge sucker
  - 60 centrifugal pump
  - 61 back scouring valve
  - 62 suction pump, a jet pump with scouring nozzles



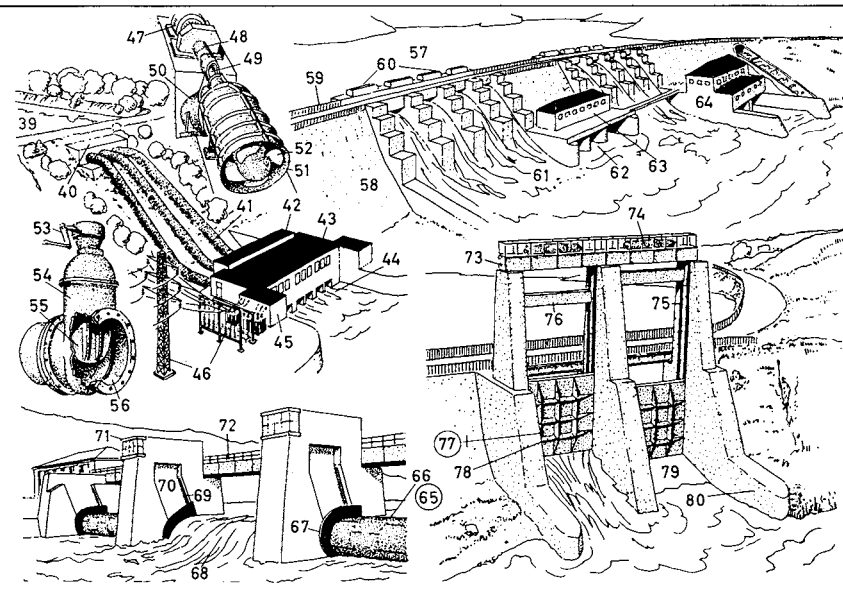


**1-14 quay wall**

- 1 road surface
- 2 body of wall
- 3 steel sleeper
- 4 steel pile
- 5 sheet pile wall (sheet pile bulkhead, sheet piling)
- 6 box pile
- 7 backfilling (filling)
- 8 ladder
- 9 fender (fender pile)
- 10 recessed bollard
- 11 double bollard
- 12 bollard
- 13 cross-shaped bollard (cross-shaped mooring bitt)
- 14 double cross-shaped bollard (double cross-shaped mooring bitt)
- 15-28 canal**
- 15, 16 canal entrance
- 15 mole
- 16 breakwater
- 17-25 staircase of locks
- 17 lower level
- 18 lock gate, a sliding gate
- 19 mitre (*Am.* miter) gate

**20 lock (lock chamber)**

- 21 power house
- 22 warping capstan (hauling capstan), a capstan
- 23 warp
- 24 offices (e.g. canal administration, river police, customs)
- 25 upper level (head)
- 26 lock approach
- 27 lay-by
- 28 bank slope
- 29-38 boat lift (*Am.* boat elevator)**
- 29 lower pound (lower reach)
- 30 canal bed
- 31 pound lock gate, a vertical gate
- 32 lock gate
- 33 boat tank (caisson)
- 34 float
- 35 float shaft
- 36 lifting spindle
- 37 upper pound (upper reach)
- 38 vertical gate

**39-46 pumping plant and reservoir**

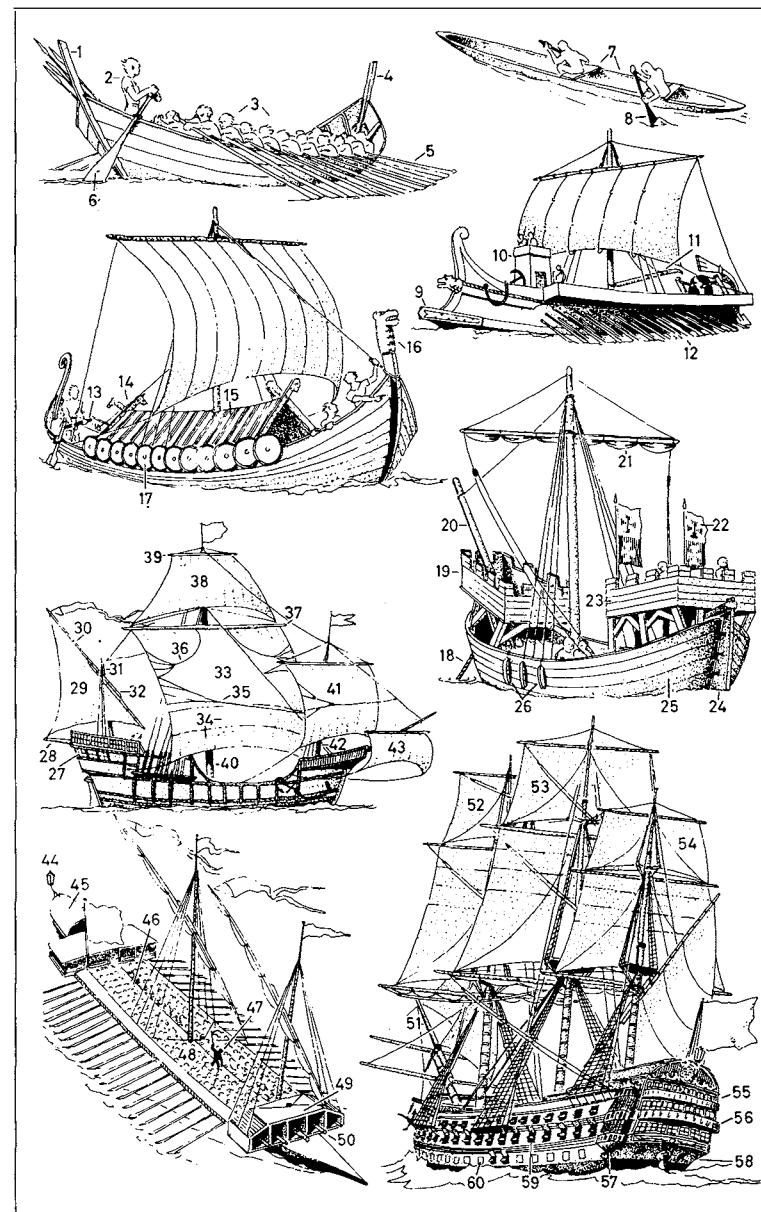
- 39 forebay
- 40 surge tank
- 41 pressure pipeline
- 42 valve house (valve control house)
- 43 turbine house (pumping station)
- 44 discharge structure (outlet structure)
- 45 control station
- 46 transformer station
- 47-52 axial-flow pump (propeller pump)**
- 47 drive motor
- 48 gear
- 49 drive shaft
- 50 pressure pipe
- 51 suction head
- 52 impeller wheel
- 53-56 sluice valve (sluice gate)**
- 53 crank drive
- 54 valve housing
- 55 sliding valve (sliding gate)
- 56 discharge opening
- 57-64 dam (barrage)**
- 57 reservoir (storage reservoir, impounding reservoir, impounded reservoir)
- 58 masonry dam
- 59 crest of dam

**60 spillway (overflow spillway)**

- 61 stilling basin (stilling box, stilling pool)
- 62 scouring tunnel (outlet tunnel, waste water outlet)
- 63 valve house (valve control house)
- 64 power station
- 65-72 rolling dam (weir), a barrage; other system: shutter weir**
- 65 roller, a barrier
- 66 roller top
- 67 flange
- 68 submersible roller
- 69 rack track
- 70 recess
- 71 hoisting gear cabin
- 72 service bridge (walkway)
- 73-80 sluice dam**
- 73 hoisting gear bridge
- 74 hoisting gear (winding gear)
- 75 guide groove
- 76 counterweight (counterpoise)
- 77 sluice gate (floodgate)
- 78 reinforcing rib
- 79 dam sill (weir sill)
- 80 wing wall

- 1-6 Germanic rowing boat** [ca. AD 400]; the Nydam boat  
**1** stern post  
**2** steersman  
**3** oarsman  
**4** stem post (stem)  
**5** oar, for rowing  
**6** rudder (steering oar), a side rudder, for steering  
**7 dugout**, a hollowed-out tree trunk  
**8** paddle  
**9-12 trireme**, a Roman warship  
**9** ram  
**10** forecastle (fo'c'sle)  
**11** grapple (grapnel, grappling iron), for fastening the enemy ship alongside  
**12** three banks (tiers) of oars  
**13-17 Viking ship** (longship, dragon ship) [Norse]  
**13** helm (tiller)  
**14** awning crutch with carved horses' heads  
**15** awning  
**16** dragon figurehead  
**17** shield  
**18-26 cog** (Hansa cog, Hansa ship)  
**18** anchor cable (anchor rope, anchor hawser)  
**19** forecastle (fo'c'sle)  
**20** bowsprit  
**21** furled (brailed-up) square sail  
**22** town banner (city banner)  
**23** aftercastle (sterncastle)  
**24** rudder, a stem rudder  
**25** elliptical stern (round stern)  
**26** wooden fender  
**27-43 caravel** (carvel) ['Santa Maria' 1492]  
**27** admiral's cabin  
**28** spanker boom  
**29** mizzen (mizen, mutton spanker, lateen spanker), a lateen sail  
**30** lateen yard  
**31** mizzen (mizen) mast  
**32** lashing

- 33** mainsail (main course), a square sail  
**34** bonnet, a removable strip of canvas  
**35** bowline  
**36** bunt line (martinet)  
**37** main yard  
**38** main topsail  
**39** main topsail yard  
**40** mainmast  
**41** foresail (fore course)  
**42** foremast  
**43** spritsail  
**44-50 galley** [15th to 18th century], a slave galley  
**44** lantern  
**45** cabin  
**46** central gangway  
**47** slave driver with whip  
**48** galley slaves  
**49** covered platform in the forepart of the ship  
**50** gun  
**51-60 ship of the line** (line-of-battle ship) [18th to 19th century], a three-decker  
**51** jib boom  
**52** fore topgallant sail  
**53** main topgallant sail  
**54** mizzen (mizen) topgallant sail  
**55-57** gilded stern  
**55** upper stern  
**56** stern gallery  
**57** quarter gallery, a projecting balcony with ornamental portholes  
**58** lower stern  
**59** gunports for broadside fire  
**60** gunport shutter



## 219 Sailing Ship I

**1-72 rigging (rig, tackle) and sails of a bark (barque)****1-9 masts**

- 1 bowsprit with jib boom
- 2-4 foremast
- 2 lower foremast
- 3 fore topmast
- 4 fore topgallant mast
- 5-7 mainmast
- 5 lower mainmast
- 6 main topmast
- 7 main topgallant mast
- 8, 9 mizzen (mizen) mast
- 8 lower mizzen (lower mizen)
- 9 mizzen (mizen) topmast

**10-19 standing rigging**

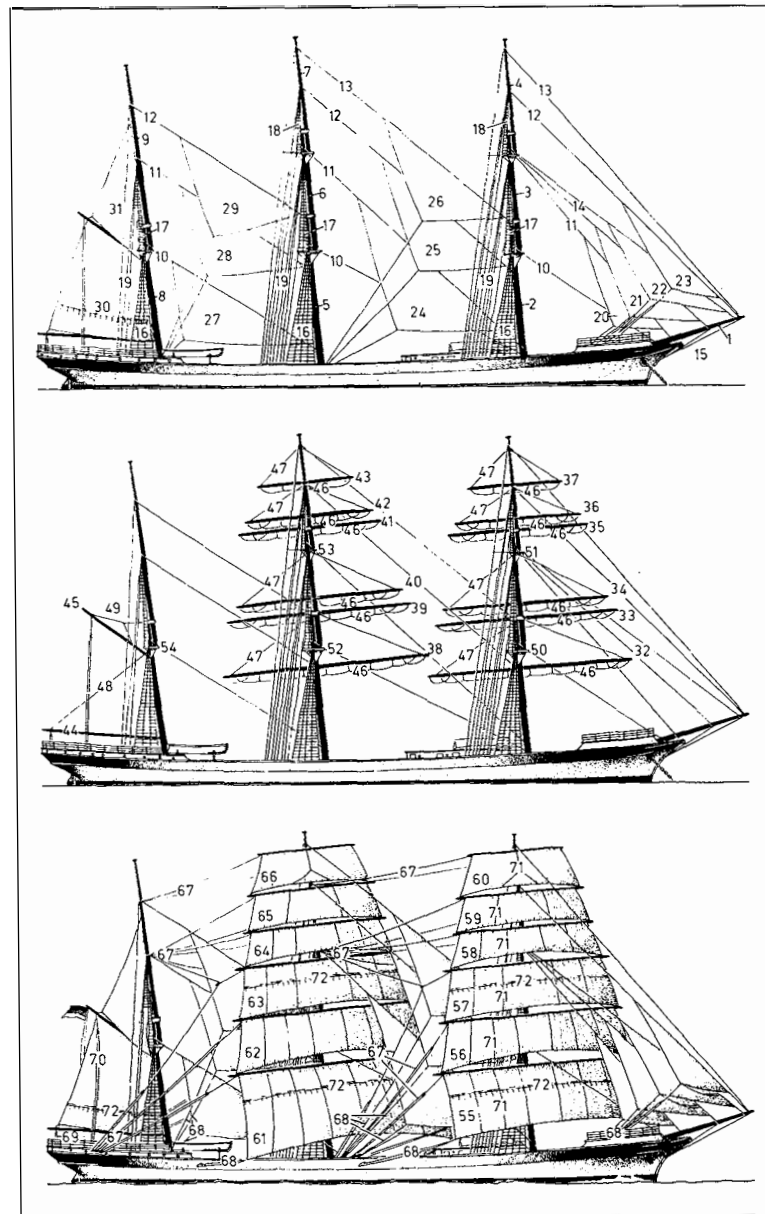
- 10 forestay, mizzen (mizen) stay, mainstay
- 11 fore topmast stay, main topmast stay, mizzen (mizen) topmast stay
- 12 fore topgallant stay, mizzen (mizen) topgallant stay, main topgallant stay
- 13 fore royal stay (main royal stay)
- 14 jib stay
- 15 bobstay
- 16 shrouds
- 17 fore topmast rigging (main topmast rigging, mizzen (mizen) topmast rigging)
- 18 fore topgallant rigging (main topgallant rigging)
- 19 backstays

**20-31 fore-and-aft sails**

- 20 fore topmast staysail
- 21 inner jib
- 22 outer jib
- 23 flying jib
- 24 main topmast staysail
- 25 main topgallant staysail
- 26 main royal staysail
- 27 mizzen (mizen) staysail
- 28 mizzen (mizen) topmast staysail
- 29 mizzen (mizen) topgallant staysail
- 30 mizzen (mizen, spanker, driver)
- 31 gaff topsail

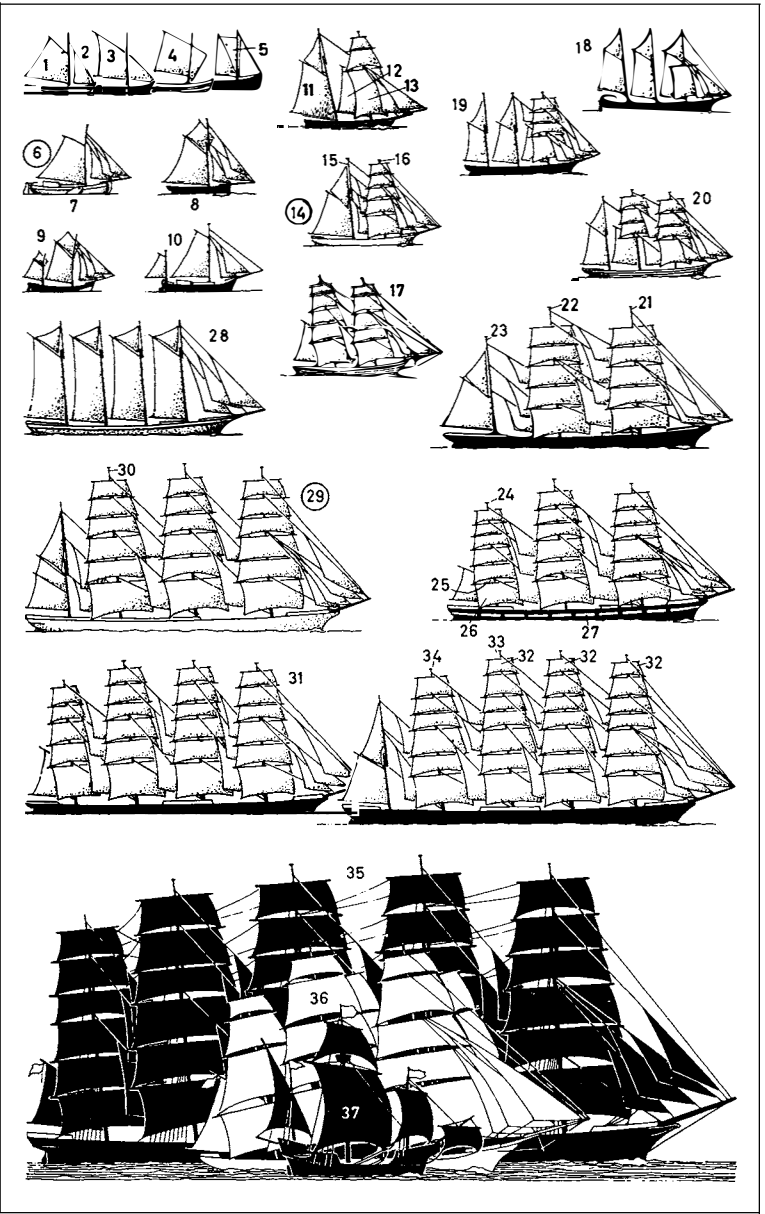
**32-45 spars**

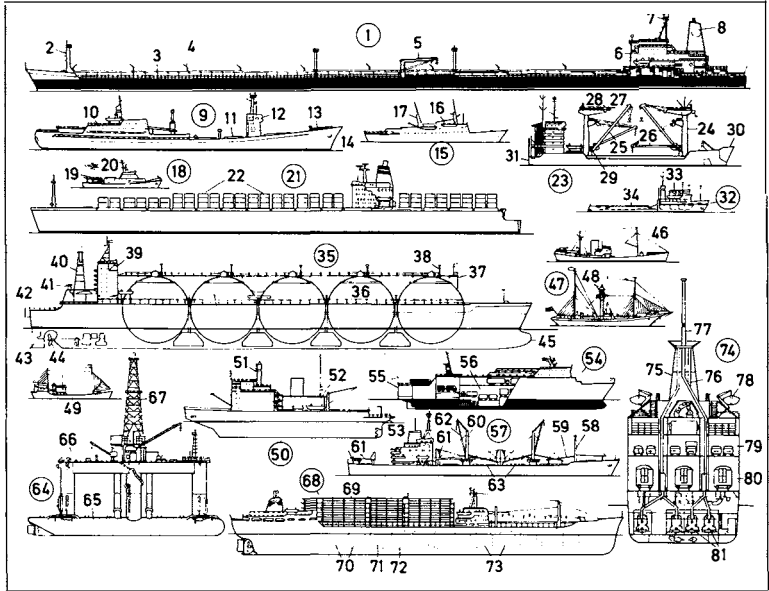
- 32 foreyard
- 33 lower fore topsail yard
- 34 upper fore topsail yard
- 35 lower fore topgallant yard
- 36 upper fore topgallant yard
- 37 fore royal yard
- 38 main yard
- 39 lower main topsail yard
- 40 upper main topsail yard
- 41 lower main topgallant yard
- 42 upper main topgallant yard
- 43 main royal yard
- 44 spanker boom
- 45 spanker gaff
- 46 footrope
- 47 lifts
- 48 spanker boom topping lift
- 49 spanker peak halyard
- 50 foretop
- 51 fore topmast crosstrees
- 52 maintop
- 53 main topmast crosstrees
- 54 mizzen (mizen) top
- 55-66 square sails**
- 55 foresail (fore course)
- 56 lower fore topsail
- 57 upper fore topsail
- 58 lower fore topgallant sail
- 59 upper fore topgallant sail
- 60 fore royal
- 61 mainsail (main course)
- 62 lower main topsail
- 63 upper main topsail
- 64 lower main topgallant sail
- 65 upper main topgallant sail
- 66 main royal sail
- 67-71 running rigging**
- 67 braces
- 68 sheets
- 69 spanker sheet
- 70 spanker vangs
- 71 bunt line
- 72 reef



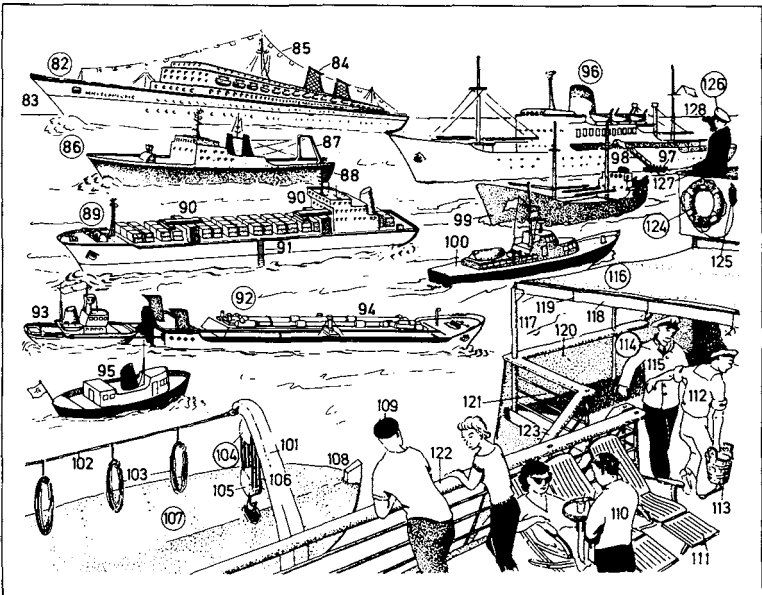
- 1-5 sail shapes**  
1 gaffsail (*small*: trysail, spencer)  
2 jib  
3 lateen sail  
4 lugsail  
5 spritsail  
**6-8 single-masted sailing boats** (*Am.* sailboats)  
6 tjalk  
7 leeboard  
8 cutter  
**9, 10 mizzen (mizen) masted sailing boats** (*Am.* sailboats)  
9 ketch-rigged sailing barge  
10 yawl  
**11-17 two-masted sailing boats** (*Am.* sailboats)  
11-13 topsail schooner  
11 mainsail  
12 boom foresail  
13 square foresail  
14 brigantine  
15 half-rigged mast with fore-and-aft sails  
16 full-rigged mast with square sails  
17 brig  
**18-27 three-masted sailing vessels** (three-masters)  
18 three-masted schooner  
19 three-masted topsail schooner  
20 bark (barque) schooner  
**21-23 bark (barque)** [cf. illustration of rigging and sails in plate 219]  
21 foremast  
22 mainmast  
23 mizzen (mizen) mast  
**24-27 full-rigged ship**  
24 mizzen (mizen) mast  
25 crossjack yard (crojack yard)  
26 crossjack (crojack)  
27 ports  
**28-31 four-masted sailing ships** (four-masters)  
28 four-masted schooner  
29 four-masted bark (barque)  
30 mizzen (mizen) mast  
31 four-masted full-rigged ship

- 32-34 five-masted bark** (barque)  
32 skysail  
33 middle mast  
34 mizzen (mizen) mast  
**35-37 development of sailing ships** over 400 years  
35 five-masted full-rigged ship 'Preussen' 1902-10  
36 English clipper ship 'Spindrift' 1867  
37 caravel (carvel) 'Santa Maria' 1492

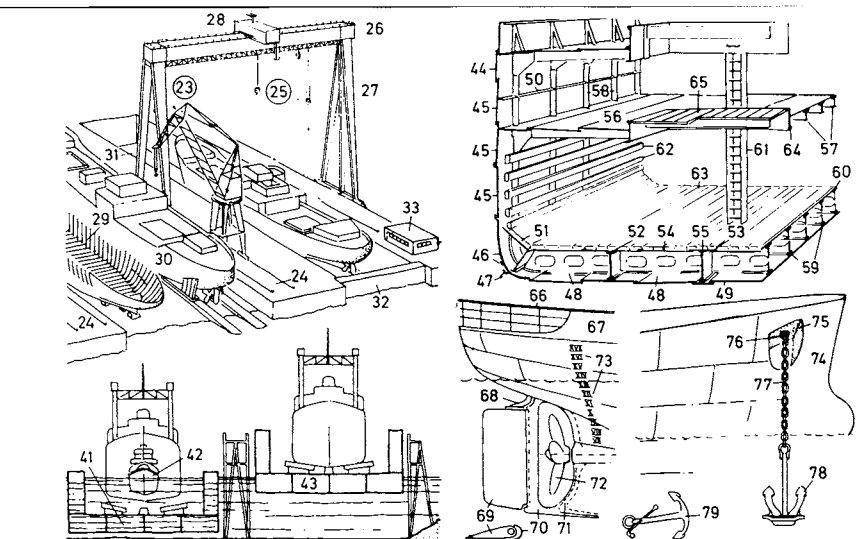
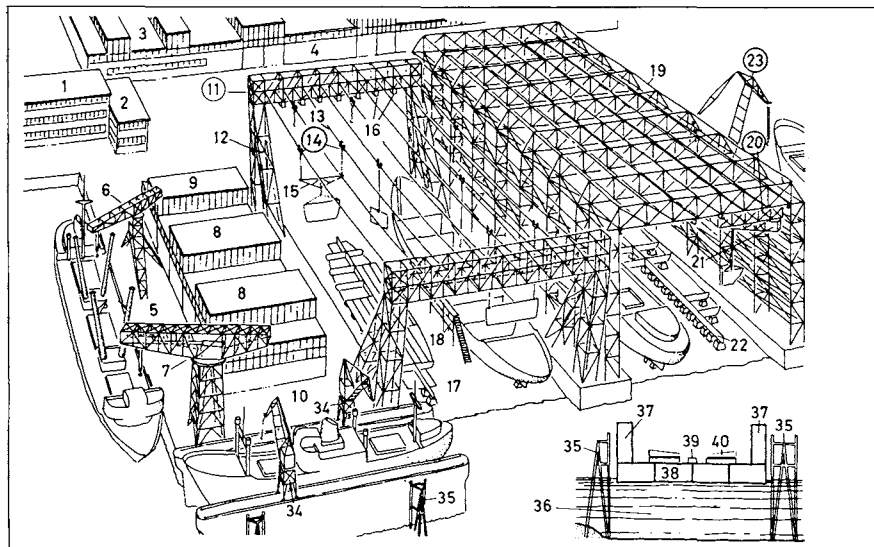




- |   |   |  |
|---|---|--|
| 1 <b>ULCC</b> (ultra-large crude carrier) of the 'all-aft' type | 24-29 cargo gear (cargo-handling gear)          | 47 <b>lightship</b> (light vessel)                                   |
| 2 foremast  | 24 bipod mast                                   | 48 lantern (characteristic light)                                    |
| 3 catwalk with pipes  | 25 jumbo derrick boom (heavy-lift derrick boom) | 49 smack   |
| 4 fire gun (fire nozzle)  | 26 derrick boom (cargo boom)                    | 50 <b>ice breaker</b>  |
| 5 deck crane  | 27 tackle                                       | 51 steaming light mast   |
| 6 deckhouse with bridge   | 28 block  | 52 helicopter hangar   |
| 7 aft signal (signalling) and radar mast                        | 29 thrust bearing                               | 53 stern towing point, for gripping the bow of ships in tow          |
| 8 funnel  | 30 bow doors                                    | 54 <b>roll-on-roll-off (ro-ro) trailer ferry</b>                     |
| 9 <b>nuclear research ship</b> 'Otto Hahn', a bulk carrier      | 31 stern loading door                           | 55 stern port (stern opening) with ramp                              |
| 10 aft superstructure (engine room)                             | 32 <b>offshore drilling rig supply vessel</b>   | 56 heavy vehicle lifts ( <i>Am.</i> heavy vehicle elevators)         |
| 11 cargo hatchway for bulk goods (bulk cargoes)                 | 33 compact superstructure                       | 57 <b>multi-purpose freighter</b>                                    |
| 12 bridge   | 34 loading deck (working deck)                  | 58 ventilator-type samson (sampson) post (ventilator-type king post) |
| 13 forecastle (fo'c'sle)  | 35 <b>liquefied-gas tanker</b>                  | 59 derrick boom (cargo boom, cargo gear, cargo-handling gear)        |
| 14 stem   | 36 spherical tank                               | 60 derrick mast  |
| 15 <b>seaside pleasure boat</b>                                 | 37 navigational television receiver mast        | 61 deck crane  |
| 16 dummy funnel   | 38 vent mast                                    | 62 jumbo derrick boom (heavy-lift derrick boom)                      |
| 17 exhaust mast   | 39 deckhouse                                    | 63 cargo hatchway  |
| 18 <b>rescue cruiser</b>  | 40 funnel                                       | 64 <b>semisubmersible drilling vessel</b>                            |
| 19 helicopter platform (working deck)                           | 41 ventilator                                   | 65 floating vessel with  |
| 20 rescue helicopter  | 42 transom stern (transom)                      |  |
| 21 <b>all-container ship</b>                                    | 43 rudder blade (rudder)                        |  |
| 22 containers stowed on deck                                    | 44 ship's propeller (ship's screw)              |  |
| 23 <b>cargo ship</b>  | 45 bulbous bow                                  |  |
|   | 46 steam trawler                                |  |



- |  |   |   |
|--|---|---|
| 66 machinery   | 88 stern ramp                                       | boat) covered with tarpaulin                      |
| 67 drilling platform   | 89 <b>container ship</b>                            | 108 stem  |
| 68 derrick   | 90 loading bridge (loading platform)                | 109 passenger                                     |
| 69 <b>cattleship</b> (cattle vessel)   | 91 sea ladder (jacob's ladder, rope ladder)         | 110 steward                                       |
| 70 superstructure for transporting livestock   | 92 <b>barge and push tug assembly</b>               | 111 deck-chair                                    |
| 71 fresh water tanks   | 93 push tug   | 112 deck hand                                     |
| 72 fuel tank   | 94 tug-pushed dumb barge (tug-pushed lighter)       | 113 deck bucket                                   |
| 73 fodder tanks  | 95 pilot boat                                       | 114 boatswain (bo's'n, bo'sun, bosun)             |
| 74 <b>train ferry</b> [cross section]  | 96 <b>combined cargo and passenger liner</b>        | 115 tunic   |
| 75 funnel  | 97 passengers disembarking by boat                  | 116 awning  |
| 76 exhaust pipes   | 98 accommodation ladder                             | 117 stanchion                                     |
| 77 mast  | 99 coaster (coasting vessel)                        | 118 ridge rope (jackstay)                         |
| 78 ship's lifeboat hanging at the davit  | 100 customs or police launch                        | 119 lashing                                       |
| 79 car deck  | 101-128 <b>excursion steamer</b> (pleasure steamer) | 120 bulwark                                       |
| 80 main deck (train deck)  | 101-106 lifeboat launching gear                     | 121 guard rail                                    |
| 81 main engines  | 101 davit   | 122 handrail (top rail)                           |
| 82 <b>passenger liner</b> (liner, ocean liner)   | 102 wire rope span                                  | 123 companion ladder (companionway)               |
| 83 stem  | 103 lifeline  | 124 lifebelt (lifebuoy)                           |
| 84 funnel with lattice casing  | 104 tackle  | 125 lifebuoy light (lifebelt light, signal light) |
| 85 flag dressing (rainbow dressing, string of flags extending over mast-heads, e.g., on the maiden voyage) | 105 block   | 126 officer of the watch (watchkeeper)            |
| 86 <b>trawler</b> , a factory ship   | 106 fall  | 127 reefer ( <i>Am.</i> pea jacket)               |
| 87 gallows   | 107 ship's lifeboat (ship's                         | 128 binoculars                                    |



### 1-43 shipyard (shipbuilding yard, dock-yard, *Am.* navy yard)

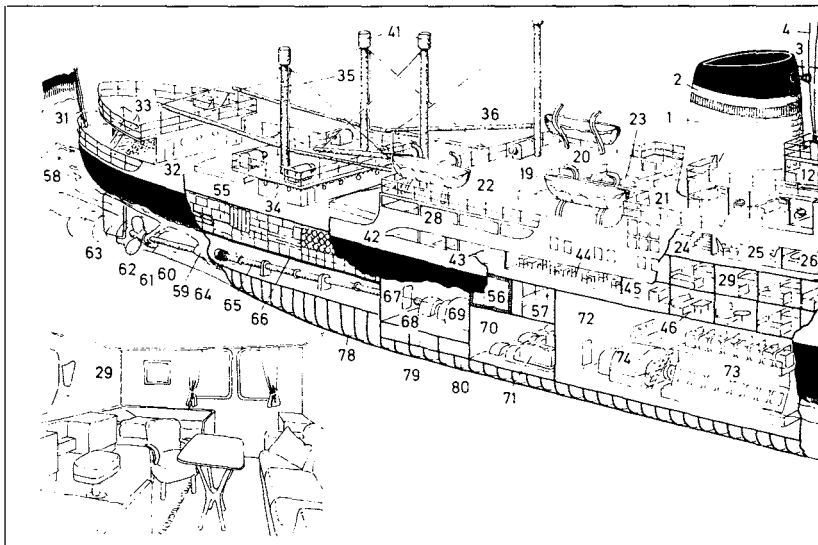
- 1 administrative offices
- 2 ship-drawing office
- 3, 4 shipbuilding sheds
- 3 mould (*Am.* mold) loft
- 4 erection shop
- 5-9 fitting-out quay
- 5 quay
- 6 tripod crane
- 7 hammer-headed crane
- 8 engineering workshop
- 9 boiler shop
- 10 repair quay
- 11-26 slipways (slips, building berths, building slips, stocks)
- 11-18 cable crane berth, a slipway (building berth)
- 11 slipway portal
- 12 bridge support
- 13 crane cable
- 14 crab (jenny)
- 15 cross piece
- 16 crane driver's cabin (crane driver's cage)
- 17 slipway floor
- 18 staging, a scaffold
- 19-21 frame slipway

- 19 slipway frame
- 20 overhead travelling (*Am.* traveling) crane (gantry crane)
- 21 slewing crab
- 22 keel in position
- 23 luffing jib crane, a slipway crane
- 24 crane rails (crane track)
- 25 gantry crane
- 26 gantry (bridge)
- 27 trestles (supports)
- 28 crab (jenny)
- 29 hull frames in position
- 30 ship under construction
- 31-33 dry dock
- 31 dock floor (dock bottom)
- 32 dock gates (caisson)
- 33 pumping station (power house)
- 34-43 floating dock (pontoon dock)
- 34 dock crane (dockside crane), a jib crane
- 35 fender pile
- 36-43 working of docks
- 36 dock basin
- 37, 38 dock structure
- 37 side tank (side wall)
- 38 bottom tank (bottom pontoon)
- 39 keel block
- 40 bilge block (bilge shore, side support)

### 41-43 docking a ship

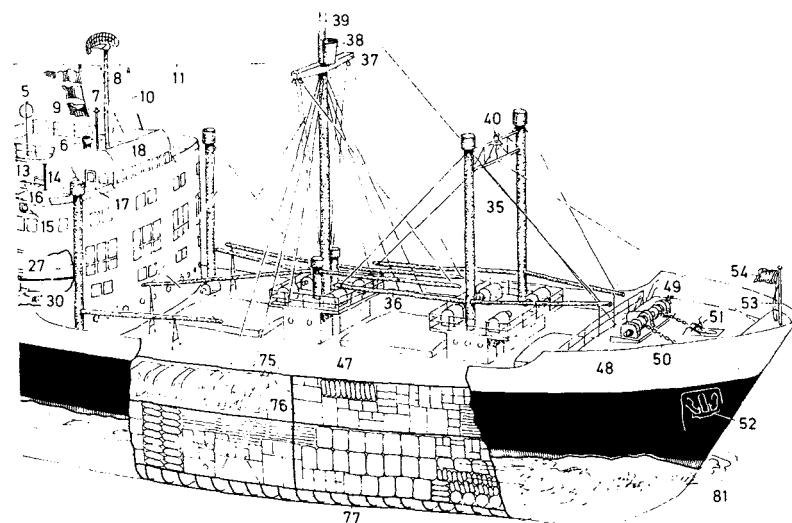
- 41 flooded floating dock
- 42 tug towing the ship
- 43 emptied (pumped-out) dock
- 44-61 structural parts of the ship
- 44-56 longitudinal structure
- 44-49 shell (shell plating, skin)
- 44 sheer strake
- 45 side strake
- 46 bilge strake
- 47 bilge keel
- 48 bottom plating
- 49 flat plate keel (keel plate)
- 50 stringer (side stringer)
- 51 tank margin plate
- 52 longitudinal side girder
- 53 centre (*Am.* center) plate girder (centre girder, kelson, keelson, vertical keel)
- 54 tank top plating (tank top, inner bottom plating)
- 55 centre (*Am.* center) strake
- 56 deck plating
- 57 deck beam
- 58 frame (rib)
- 59 floor plate
- 60 cellular double bottom
- 61 hold pillar (pillar)

- 62, 63 dunnage
- 62 side battens (side ceiling, spar ceiling)
- 63 ceiling (floor ceiling)
- 64, 65 hatchway
- 64 hatch coaming
- 65 hatch cover (hatchboard)
- 66-72 stern
- 66 guard rail
- 67 bulwark
- 68 rudder stock
- 69, 70 Oertz rudder
- 69 rudder blade (rudder)
- 70, 71 stern frame
- 70 rudder post
- 71 propeller post (screw post)
- 72 ship's propeller (ship's screw)
- 73 draught (draft) marks
- 74-79 bow
- 74 stem, a bulbous stem (bulbous bow)
- 75 hawse
- 76 hawse pipe
- 77 anchor cable (chain cable)
- 78 stockless anchor (patent anchor)
- 79 stocked anchor

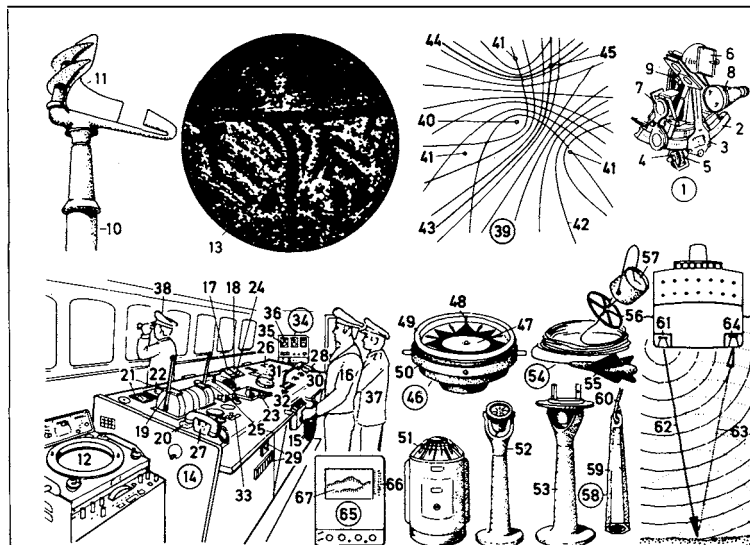


**1-71 combined cargo and passenger ship** [of the older type]

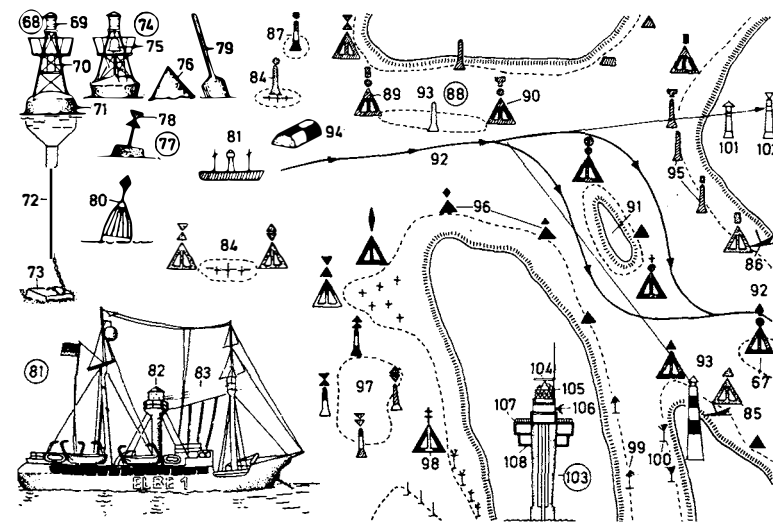
- 1 funnel
- 2 funnel marking
- 3 siren (fog horn)
- 4-11 compass platform** (compass bridge, compass flat, monkey bridge)
- 4 antenna lead-in (antenna down-lead)
- 5 radio direction finder (RDF) antenna (direction finder antenna, rotatable loop antenna, aural null loop antenna)
- 6 magnetic compass (mariner's compass)
- 7 morse lamp (signalling, *Am.* signalling, lamp)
- 8 radar antenna (radar scanner)
- 9 code flag signal
- 10 code flag halyards
- 11 triatic stay (signal stay)
- 12-18 bridge deck** (bridge)
- 12 radio room
- 13 captain's cabin
- 14 navigating bridge
- 15 starboard sidelight [green; port sidelight red]
- 16 wing of bridge
- 17 shelter (weather cloth, dodger)
- 18 wheelhouse
- 19-21 boat deck**
- 19 ship's lifeboat
- 20 davit
- 21 officer's cabin
- 22-27 promenade deck**
- 22 sun deck (lido deck)
- 23 swimming pool
- 24 companion ladder (companionway)
- 25 library (ship's library)
- 26 lounge
- 27 promenade
- 28-30 A-deck**
- 28 semi-enclosed deck space
- 29 double-berth cabin, a cabin
- 30 de luxe cabin
- 31 ensign staff
- 32-47 B-deck** (main deck)
- 32 after deck
- 33 poop
- 34 deckhouse
- 35 samson (sampson) post (king post)
- 36 derrick boom (cargo boom)
- 37 crosstrees (spreader)
- 38 crow's nest
- 39 topmast
- 40 forward steaming light



- 41 ventilator lead
- 42 galley (caboose, cookroom, ship's kitchen)
- 43 ship's pantry
- 44 dining room
- 45 purser's office
- 46 single-berth cabin
- 47 foredeck
- 48 forecastle (fo'c'sle)
- 49-51 ground tackle**
- 49 windlass
- 50 anchor cable (chain cable)
- 51 compressor (chain compressor)
- 52 anchor
- 53 jackstaff
- 54 jack
- 55 after holds
- 56 cold storage room (insulated hold)
- 57 store room
- 58 wake
- 59 shell bossing (shaft bossing)
- 60 tail shaft (tail end shaft)
- 61 shaft strut (strut, spectacle frame, propeller strut, propeller bracket)
- 62 three-blade ship's propeller (ship's screw)
- 63 rudder blade (rudder)
- 64 stuffing box
- 65 propeller shaft
- 66 shaft alley (shaft tunnel)
- 67 thrust block
- 68-74 diesel-electric drive**
- 68 electric engine room
- 69 electric motor
- 70 auxiliary engine room
- 71 auxiliary engines
- 72 main engine room
- 73 main engine, a diesel engine
- 74 generator
- 75 forward holds
- 76 tween deck
- 77 cargo
- 78 ballast tank (deep tank) for water ballast
- 79 fresh water tank
- 80 fuel tank
- 81 bow wave

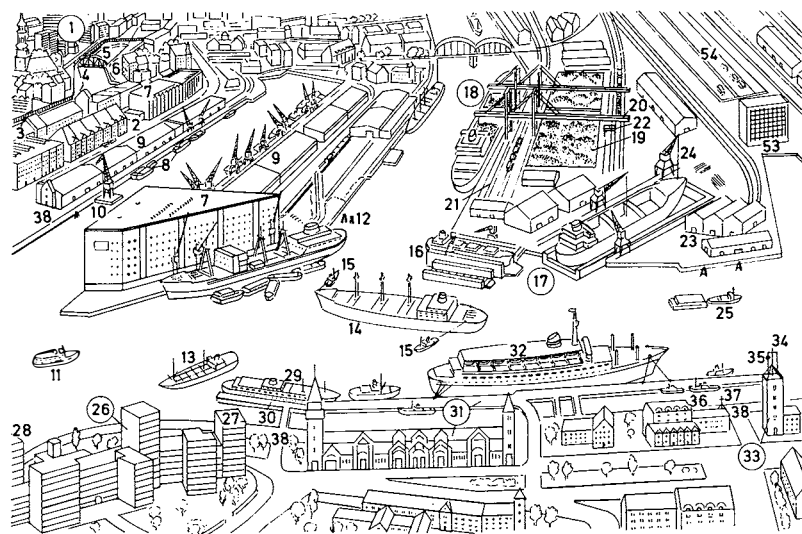


- 1 sextant
- 2 graduated arc
- 3 index bar (index arm)
- 4 decimal micrometer
- 5 vernier
- 6 index mirror
- 7 horizon glass (horizon mirror)
- 8 telescope
- 9 grip (handgrip)
- 10-13 radar equipment (radar apparatus)
- 10 radar pedestal
- 11 revolving radar reflector
- 12 radar display unit (radar screen)
- 13 radar image (radar picture)
- 14-38 wheelhouse
- 14 steering and control position
- 15 ship's wheel for controlling the rudder mechanism
- 16 helmsman (*Am.* wheelsman)
- 17 rudder angle indicator
- 18 automatic pilot (autopilot)
- 19 control lever for the variable-pitch propeller (reversible propeller, feathering propeller, feathering screw)
- 20 propeller pitch indicator
- 21 main engine revolution indicator
- 22 ship's speedometer (log)
- 23 control switch for bow thruster (bow-manoeuvering, *Am.* maneuvering, propeller)
- 24 echo recorder (depth recorder, echograph)
- 25 engine telegraph (engine order telegraph)
- 26 controls for the anti-rolling system (for the stabilizers)
- 27 local-battery telephone
- 28 shipping traffic radio telephone
- 29 navigation light indicator panel (running light indicator panel)
- 30 microphone for ship's address system
- 31 gyro compass (gyroscopic compass), a compass repeater
- 32 control button for the ship's siren (ship's fog horn)
- 33 main engine overload indicator
- 34 Decca position-finder (Decca Navigator)
- 35 rough focusing indicator
- 36 fine focusing indicator
- 37 navigating officer
- 38 captain
- 39 Decca navigation system
- 40 master station
- 41 slave station
- 42 null hyperbola
- 43 hyperbolic position line 1
- 44 hyperbolic position line 2
- 45 position (fix, ship fix)
- 46-53 compasses
- 46 liquid compass (fluid compass, spirit compass, wet compass), a magnetic compass
- 47 compass card
- 48 lubber's line (lubber's mark, lubber's point)
- 49 compass bowl
- 50 gimbal ring
- 51-53 gyro compass (gyroscopic compass, gyro compass unit)
- 51 master compass (master gyro compass)
- 52 compass repeater (gyro repeater)
- 53 compass repeater with pelorus
- 54 patent log (screw log, mechanical log, towing log, taffrail log, speedometer)
- 55 rotator
- 56 governor

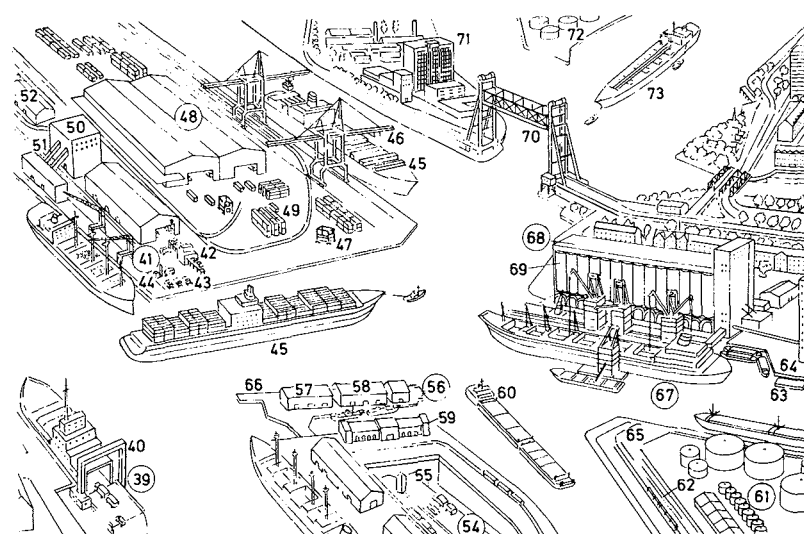


- 57 log clock
- 58-67 leads
- 58 hand lead
- 59 lead (lead sinker)
- 60 leadline
- 61-67 echo sounder (echo sounding machine)
- 61 sound transmitter
- 62 sound wave (sound impulse)
- 63 echo (sound echo, echo signal)
- 64 echo receiver (hydrophone)
- 65 echograph (echo sounding machine recorder)
- 66 depth scale
- 67 echogram (depth recording, depth reading)
- 68-108 sea marks (floating navigational marks) for buoyage and lighting systems
- 68-83 fairway marks (channel marks)
- 68 light and whistle buoy
- 69 light (warning light)
- 70 whistle
- 71 buoy
- 72 mooring chain
- 73 sinker (mooring sinker)
- 74 light and bell buoy
- 75 bell
- 76 conical buoy
- 77 can buoy
- 78 topmark
- 79 spar buoy
- 80 topmark buoy
- 81 lightship (light vessel)
- 82 lantern mast (lantern tower)
- 83 beam of light
- 84-102 fairway markings (channel markings)
- 84 wreck [green buoys]
- 85 wreck to starboard
- 86 wreck to port
- 87 shoals (shallows, shallow water, *Am.* flats)
- 88 middle ground to port division (bifurcation) [beginning of the middle ground; topmark: red cylinder above red ball]
- 90 convergence (confluence) [end of the middle ground; topmark: red St. Antony's cross above red ball]
- 91 middle ground
- 92 main fairway (main navigable channel)
- 93 secondary fairway (secondary navigable channel)
- 94 can buoy
- 95 port hand buoys (port hand marks) [red]
- 96 starboard hand buoys (starboard hand marks) [black]
- 97 shoals (shallows, shallow water, *Am.* flats) outside the fairway
- 98 middle of the fairway (mid-channel)
- 99 starboard markers [inverted broom]
- 100 port markers [upward-pointing broom]
- 101, 102 range lights (leading lights)
- 101 lower range light (lower leading light)
- 102 higher range light (higher leading light)
- 103 lighthouse
- 104 radar antenna (radar scanner)
- 105 lantern (characteristic light)
- 106 radio direction finder (RDF) antenna
- 107 machinery and observation platform (machinery and observation deck)
- 108 living quarters

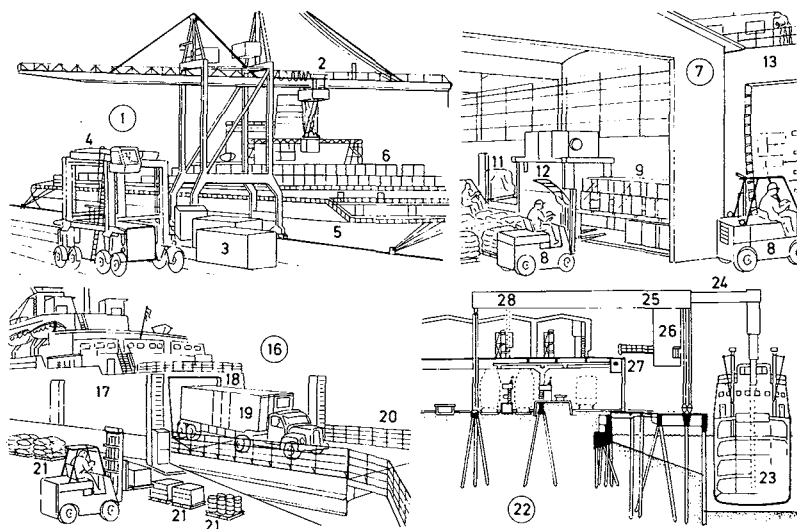




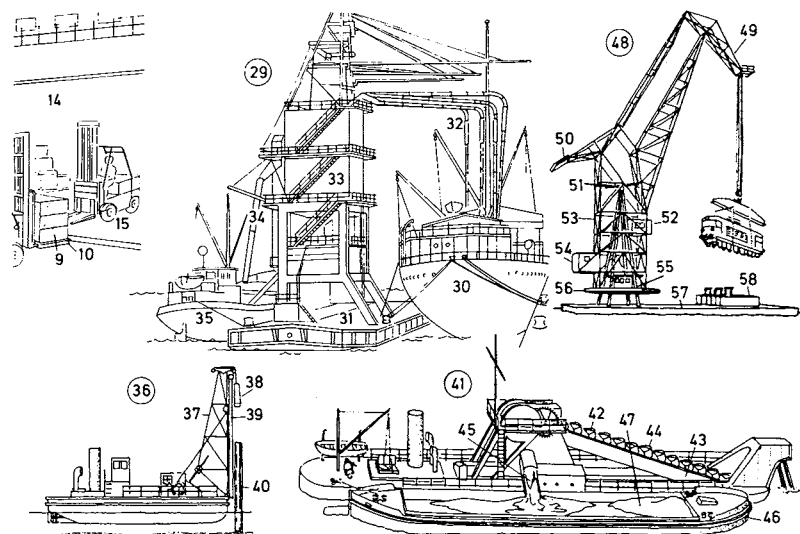
- |  |   |
|--|---|
| 1 dock area  | 18 coal wharf                               |
| 2 free port (foreign trade zone)   | 19 coal bunker                              |
| 3 free zone frontier (free zone enclosure)   | 20 transporter loading bridge               |
| 4 customs barrier  | 21 quayside railway                         |
| 5 customs entrance   | 22 weighing bunker                          |
| 6 port custom house  | 23 warehouse                                |
| 7 entrepôt   | 24 quayside crane                           |
| 8 barge (dumb barge, lighter)  | 25 launch and lighter                       |
| 9 break-bulk cargo transit shed (general cargo transit shed, package cargo transit shed) | 26 port hospital                            |
| 10 floating crane  | 27 quarantine wing                          |
| 11 harbour (Am. harbor) ferry (ferry-boat)   | 28 Institute of Tropical Medicine           |
| 12 fender (dolphin)  | 29 excursion steamer (pleasure steamer)     |
| 13 bunkering boat  | 30 jetty                                    |
| 14 break-bulk carrier (general cargo ship)   | 31 passenger terminal                       |
| 15 tug   | 32 liner (passenger liner, ocean liner)     |
| 16 floating dock (pontoon dock)  | 33 meteorological office, a weather station |
| 17 dry dock  | 34 signal mast (signalling mast)            |
|  | 35 storm signal                             |
|  | 36 port administration offices              |
|  | 37 tide level indicator                     |
|  | 38 quayside road (quayside roadway)         |



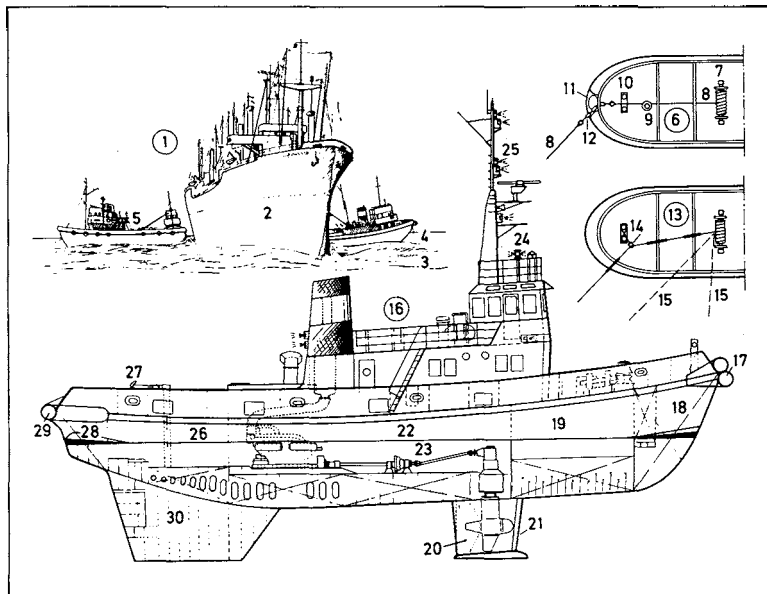
- |   |                                    |
|---|------------------------------------|
| 39 roll-on roll-off (ro-ro) system (roll-on roll-off operation) | 57 fish market                     |
| 40 gantry   | 58 auction room                    |
| 41 truck-to-truck system (truck-to-truck operation)             | 59 fish-canning factory            |
| 42 foil-wrapped unit loads                                      | 60 push tow                        |
| 43 pallets  | 61 tank farm                       |
| 44 forklift truck (fork truck, forklift)                        | 62 railway siding                  |
| 45 container ship   | 63 landing pontoon (landing stage) |
| 46 transporter container-loading bridge                         | 64 quay                            |
| 47 container carrier truck                                      | 65 breakwater (mole)               |
| 48 container terminal (container berth)                         | 66 pier (jetty), a quay extension  |
| 49 unit load  | 67 bulk carrier                    |
| 50 cold store   | 68 silo                            |
| 51 conveyor belt (conveyor)                                     | 69 silo cylinder                   |
| 52 fruit storage shed (fruit warehouse)                         | 70 lift bridge                     |
| 53 office building  | 71 industrial plant                |
| 54 urban motorway (Am. freeway)                                 | 72 storage tanks                   |
| 55 harbour (Am. harbor) tunnels                                 | 73 tanker                          |
| 56 fish dock  |                                    |



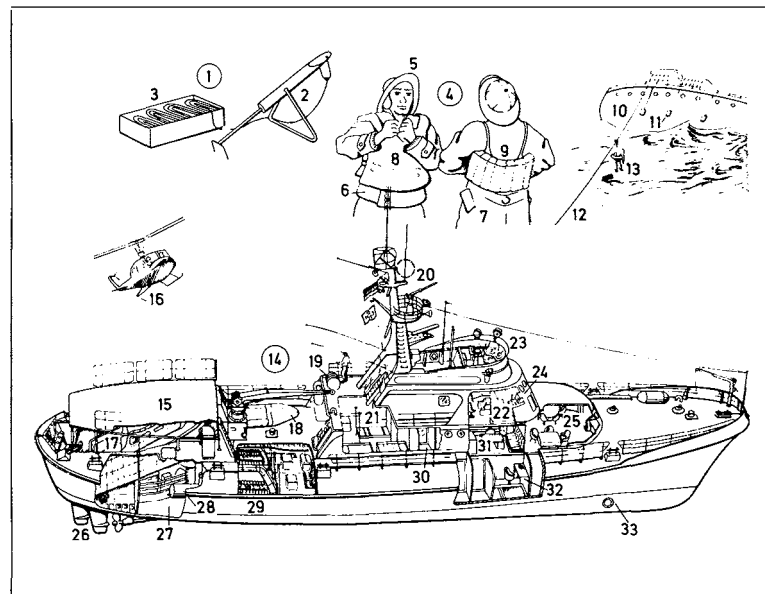
- 1 container terminal (container berth), a modern cargo-handling berth
- 2 transporter container-loading bridge (loading bridge); *sim.*: transtainer crane (transtainer)
- 3 container
- 4 truck (carrier)
- 5 all-container ship
- 6 containers stowed on deck
- 7 truck-to-truck handling (horizontal cargo handling with pallets)
- 8 forklift truck (fork truck, forklift)
- 9 unitized foil-wrapped load (unit load)
- 10 flat pallet, a standard pallet
- 11 unitized break-bulk cargo
- 12 heat sealing machine
- 13 break-bulk carrier (general cargo ship)
- 14 cargo hatchway
- 15 receiving truck on board ship
- 16 multi-purpose terminal
- 17 roll-on roll-off ship (ro-ro-ship)
- 18 stern port (stern opening)
- 19 driven load, a lorry (Am. truck)
- 20 ro-ro depot
- 21 unitized load (unitized package)
- 22 banana-handling terminal [section]
- 23 seaward tumbler
- 24 jib
- 25 elevator bridge
- 26 chain sling
- 27 lighting station
- 28 shore-side tumbler for loading trains and lorries (Am. trucks)



- 29 bulk cargo handling
- 30 bulk carrier
- 31 floating bulk-cargo elevator
- 32 suction pipes
- 33 receiver
- 34 delivery pipe
- 35 bulk transporter barge
- 36 floating pile driver
- 37 pile driver frame
- 38 pile hammer
- 39 driving guide rail
- 40 pile
- 41 bucket dredger, a dredger
- 42 bucket chain
- 43 bucket ladder
- 44 dredger bucket
- 45 chute
- 46 hopper barge
- 47 spoil
- 48 floating crane
- 49 jib (boom)
- 50 counterweight (counterpoise)
- 51 adjusting spindle
- 52 crane driver's cabin (crane driver's cage)
- 53 crane framework
- 54 winch house
- 55 control platform
- 56 turntable
- 57 pontoon, a pram
- 58 engine superstructure (engine mounting)



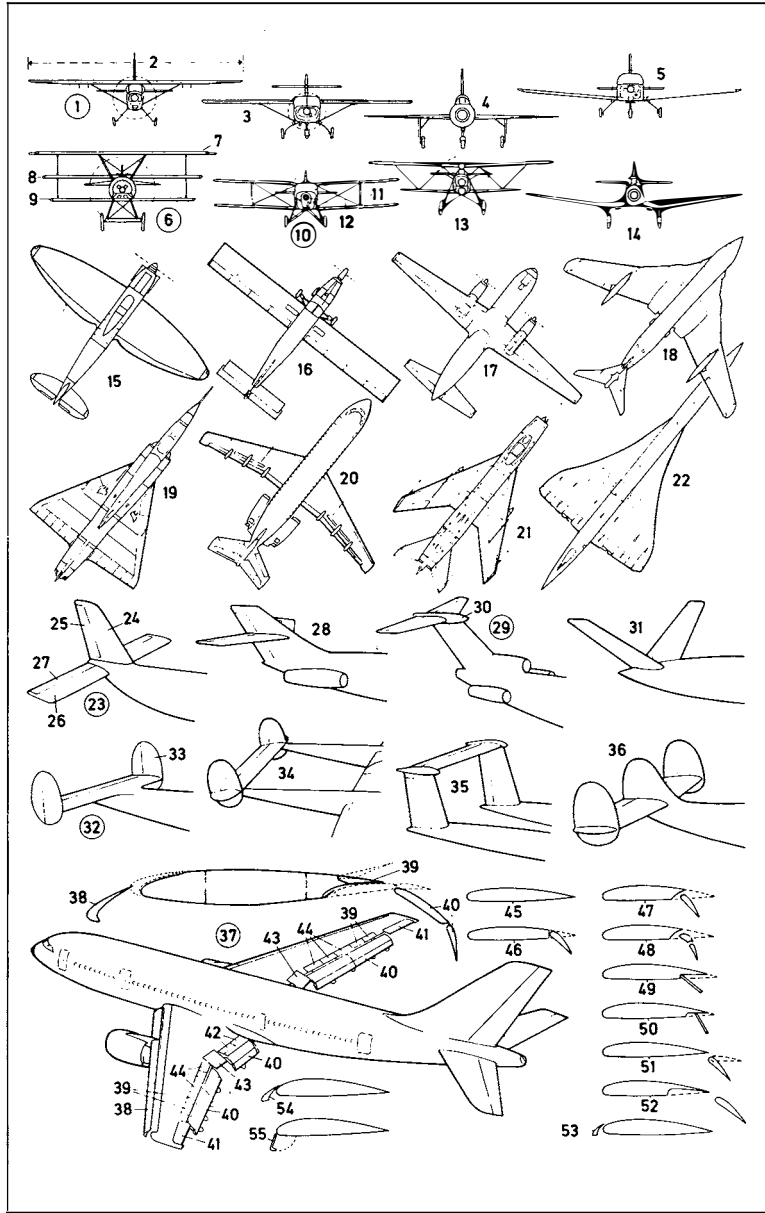
- |   |   |
|---|---|
| 1 salvaging (salving) of a ship run aground               | 18 forepeak   |
| 2 ship run aground (damaged vessel)                       | 19 living quarters  |
| 3 sandbank; <i>also</i> : quicksand                       | 20 Schottel propeller   |
| 4 open sea  | 21 Kort vent  |
| 5 tug (salvage tug)                                       | 22 engine and propeller room                                      |
| 6-15 towing gear  | 23 clutch coupling  |
| 6 towing gear for towing at sea                           | 24 compass platform (compass bridge, compass flat, monkey bridge) |
| 7 towing winch (towing machine, towing engine)            | 25 fire-fighting equipment  |
| 8 tow rope (tow line, towing hawser)                      | 26 stowage  |
| 9 tow rope guide  | 27 tow hook   |
| 10 cross-shaped bollard                                   | 28 afterpeak  |
| 11 hawse hole   | 29 stern fender   |
| 12 anchor cable (chain cable)                             | 30 main manoeuvring ( <i>Am.</i> manoeuvring) keel                |
| 13 towing gear for work in harbours ( <i>Am.</i> harbors) |   |
| 14 guest rope   |   |
| 15 position of the tow rope (tow line, towing hawser)     |   |
| 16 tug (salvage tug) [vertical elevation]                 |   |
| 17 bow fender (pudding fender)                            |   |



- |  |   |
|--|---|
| 1 rocket apparatus (rocket gun, line-throwing gun) | 21 hospital unit with operating cabin and exposure bath |
| 2 life rocket (rocket)                             | 22 navigating bridge                                    |
| 3 rocket line (whip line)                          | 23 upper tier of navigating bridge                      |
| 4 oilskins   | 24 lower tier of navigating bridge                      |
| 5 sou'wester (southwester)                         | 25 messroom   |
| 6 oilskin jacket                                   | 26 rudders and propeller (screw)                        |
| 7 oilskin coat                                     | 27 stowage  |
| 8 inflatable life jacket                           | 28 foam can   |
| 9 cork life jacket (cork life preserver)           | 29 side engines   |
| 10 stranded ship (damaged vessel)                  | 30 shower   |
| 11 oil bag, for trickling oil on the water surface | 31 coxswain's cabin                                     |
| 12 lifeline  | 32 crew member's single-berth cabin                     |
| 13 breeches buoy                                   | 33 bow propeller  |
| 14 rescue cruiser                                  |   |
| 15 helicopter landing deck                         |   |
| 16 rescue helicopter                               |   |
| 17 daughter boat                                   |   |
| 18 inflatable boat (inflatable dinghy)             |   |
| 19 life raft                                       |   |
| 20 fire-fighting equipment for fires at sea        |   |

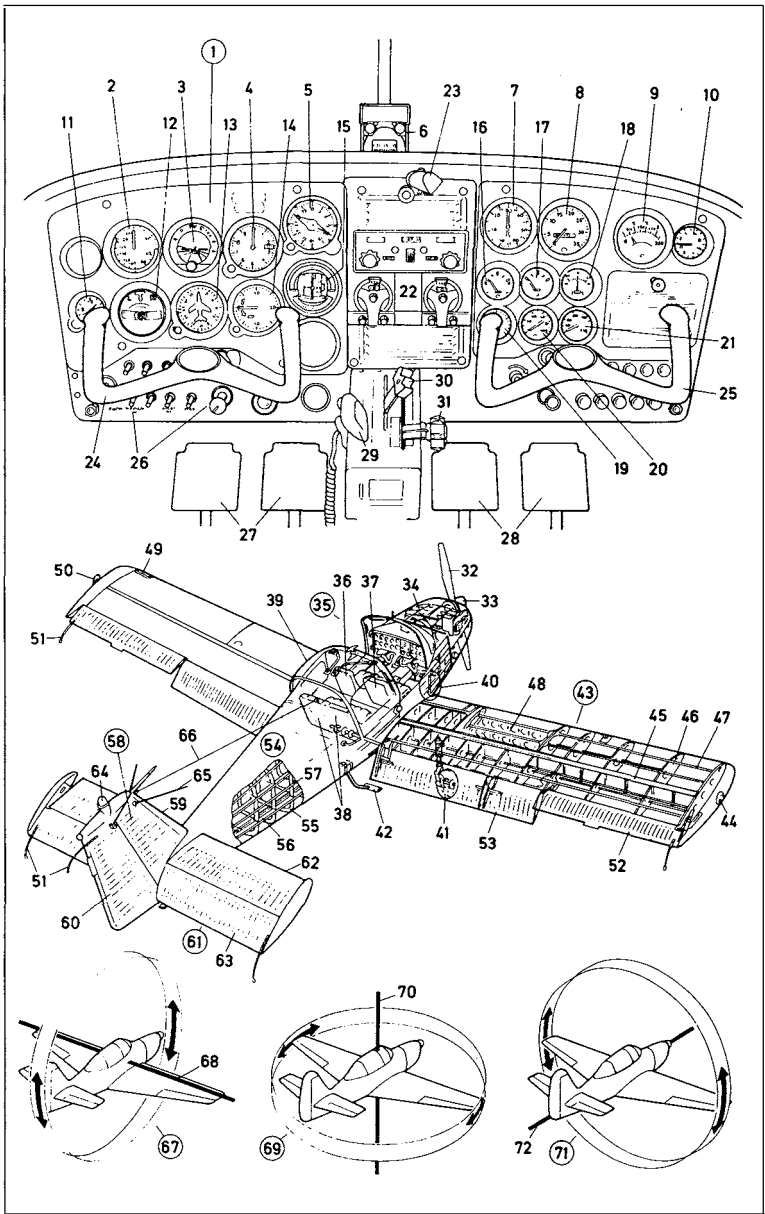
- 1-14 wing configurations**
- 1 high-wing monoplane (high-wing plane)
  - 2 span (wing span)
  - 3 shoulder-wing monoplane (shoulder-wing plane)
  - 4 midwing monoplane (midwing plane)
  - 5 low-wing monoplane (low-wing plane)
  - 6 triplane
  - 7 upper wing
  - 8 middle wing (central wing)
  - 9 lower wing
  - 10 biplane
  - 11 strut
  - 12 cross bracing wires
  - 13 sesquiplane
  - 14 low-wing monoplane (low-wing plane) with cranked wings (inverted gull wings)
- 15-22 wing shapes**
- 15 elliptical wing
  - 16 rectangular wing
  - 17 tapered wing
  - 18 crescent wing
  - 19 delta wing
  - 20 swept-back wing with semi-positive sweepback
  - 21 swept-back wing with positive sweepback
  - 22 ogival wing (ogee wing)
- 23-36 tail shapes** (tail unit shapes, empennage shapes)
- 23 normal tail (normal tail unit)
  - 24, 25 vertical tail (vertical stabilizer and rudder)
  - 24 vertical stabilizer (vertical fin, tail fin)
  - 25 rudder
  - 26, 27 horizontal tail
  - 26 tailplane (horizontal stabilizer)
  - 27 elevator
  - 28 cruciform tail (cruciform tail unit)
  - 29 T-tail (T-tail unit)
  - 30 lobe

- 31 V-tail (vee-tail, butterfly tail)
- 32 double tail unit (twin tail unit)
- 33 end plate
- 34 double tail unit (twin tail unit) of a twin-boom aircraft
- 35 raised horizontal tail with double booms
- 36 triple tail unit
- 37 **system of flaps**
- 38 extensible slat
- 39 spoiler
- 40 double-slotted Fowler flap
- 41 outer aileron (low-speed aileron)
- 42 inner spoiler (landing flap, lift dump)
- 43 inner aileron (all-speed aileron)
- 44 brake flap (air brake)
- 45 basic profile
- 46-48 plain flaps (simple flaps)
- 46 normal flap
- 47 slotted flap
- 48 double-slotted flap
- 49, 50 split flaps
- 49 plain split flap (simple split flap)
- 50 zap flap
- 51 extending flap
- 52 Fowler flap
- 53 slat
- 54 profiled leading-edge flap (droop flap)
- 55 Krüger flap



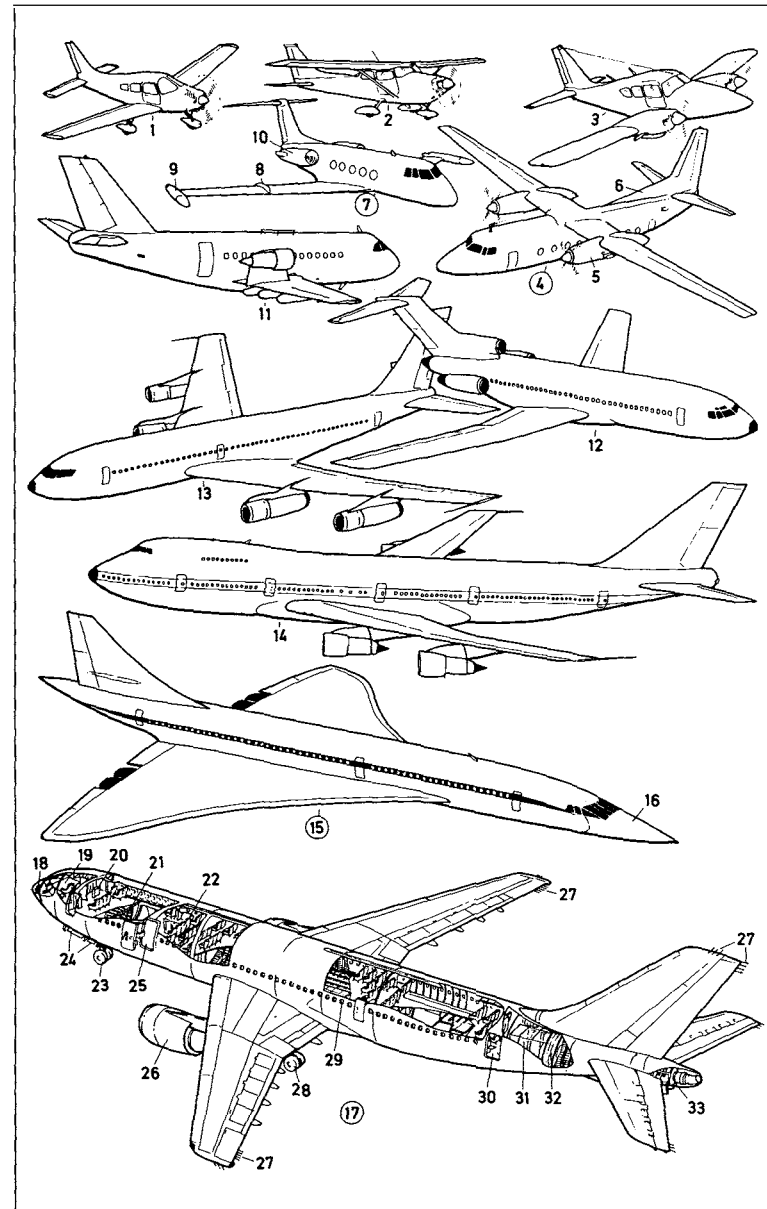
- 1-31 cockpit** of a single-engine (single-engined) racing and passenger aircraft (racing and passenger plane)
- 1 instrument panel  
2 air-speed (*Am.* airspeed) indicator  
3 artificial horizon (gyro horizon)  
4 altimeter  
5 radio compass (automatic direction finder)  
6 magnetic compass  
7 boost gauge (*Am.* gage)  
8 tachometer (rev counter, revolution counter)  
9 cylinder temperature gauge (*Am.* gage)  
10 accelerometer  
11 chronometer  
12 turn indicator with ball  
13 directional gyro  
14 vertical speed indicator (rate-of-climb indicator, variometer)  
15 **VOR** radio direction finder [*VOR: very high frequency omnidirectional range*]  
16 left tank fuel gauge (*Am.* gage)  
17 right tank fuel gauge (*Am.* gage)  
18 ammeter  
19 fuel pressure gauge (*Am.* gage)  
20 oil pressure gauge (*Am.* gage)  
21 oil temperature gauge (*Am.* gage)  
22 radio and radio navigation equipment  
23 map light  
24 wheel (control column, control stick) for operating the ailerons and elevators  
25 co-pilot's wheel  
26 switches  
27 rudder pedals  
28 co-pilot's rudder pedals  
29 microphone for the radio  
30 throttle lever (throttle control)  
31 mixture control
- 32-66 single-engine (single-engined) racing and passenger aircraft (racing and passenger plane)**
- 32 propeller (airscrew)  
33 spinner  
34 flat four engine  
35 cockpit

- 36 pilot's seat  
37 co-pilot's seat  
38 passenger seats  
39 hood (canopy, cockpit hood, cockpit canopy)  
40 steerable nose wheel  
41 main undercarriage unit (main landing gear unit)  
42 step  
43 wing  
44 right navigation light (right position light)  
45 spar  
46 rib  
47 stringer (longitudinal reinforcing member)  
48 fuel tank  
49 landing light  
50 left navigation light (left position light)  
51 electrostatic conductor  
52 aileron  
53 landing flap  
54 fuselage (body)  
55 frame (former)  
56 chord  
57 stringer (longitudinal reinforcing member)  
58 vertical tail (vertical stabilizer and rudder)  
59 vertical stabilizer (vertical fin, tail fin)  
60 rudder  
61 horizontal tail  
62 tailplane (horizontal stabilizer)  
63 elevator  
64 warning light (anticollision light)  
65 dipole antenna  
66 long-wire antenna (long-conductor antenna)
- 67-72 principal manoeuvres (*Am.* manoeuvres) of the aircraft (aeroplane, plane, *Am.* airplane)**
- 67 pitching  
68 lateral axis  
69 yawing  
70 vertical axis (normal axis)  
71 rolling  
72 longitudinal axis



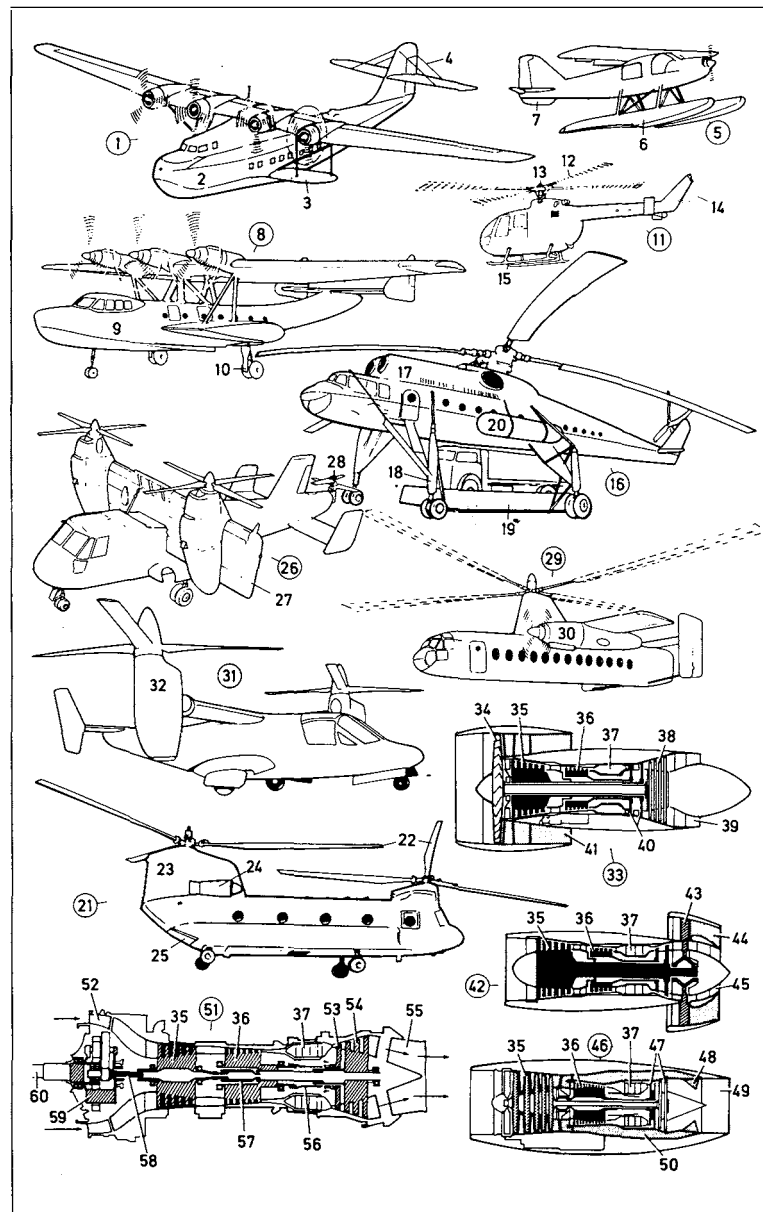
- 1-33 types of aircraft** (aeroplanes, planes, *Am.* airplanes)
- 1-6 propeller-driven aircraft** (aeroplanes, planes, *Am.* airplanes)
- 1 single-engine (single-engined) racing and passenger aircraft (racing and passenger plane), a low-wing monoplane (low-wing plane)
  - 2 single-engine (single-engined) passenger aircraft, a high-wing monoplane (high-wing plane)
  - 3 twin-engine (twin-engined) business and passenger aircraft (business and passenger plane)
  - 4 short/medium haul airliner, a turboprop plane (turbopropeller plane, propeller-turbine plane)
  - 5 turboprop engine (turbopropeller engine)
  - 6 vertical stabilizer (vertical fin, tail fin)
- 7-33 jet planes** (jet aeroplanes, jets, *Am.* jet airplanes)
- 7 twin-jet business and passenger aircraft (business and passenger plane)
  - 8 fence
  - 9 wing-tip tank (tip tank)
  - 10 rear engine
  - 11 twin-jet short/medium haul airliner
  - 12 tri-jet medium haul airliner
  - 13 four-jet long haul airliner
  - 14 wide-body long haul airliner (jumbo jet)
  - 15 supersonic airliner [*Concorde*]
  - 16 droop nose
  - 17 **twin-jet wide-body airliner** for short/medium haul routes (airbus)
  - 18 radar nose (radome, radar dome) with weather radar antenna
  - 19 cockpit
  - 20 galley
  - 21 cargo hold (hold, underfloor hold)
  - 22 passenger cabin with passenger seats

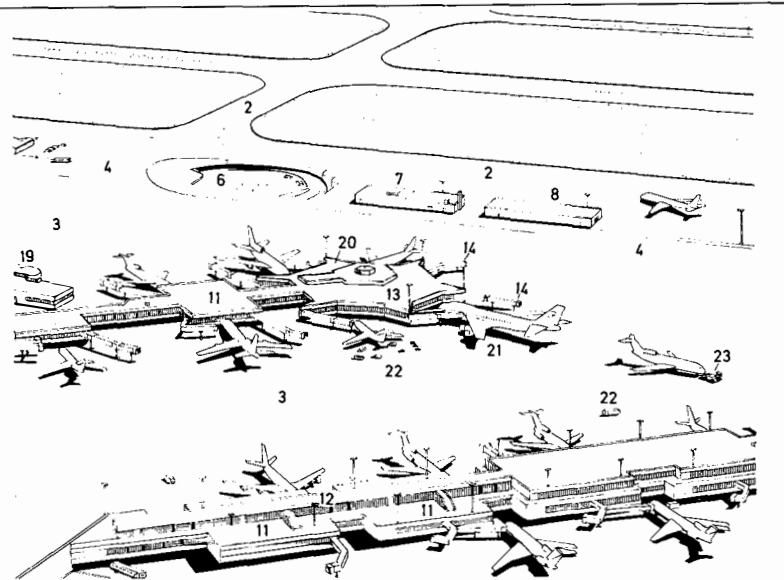
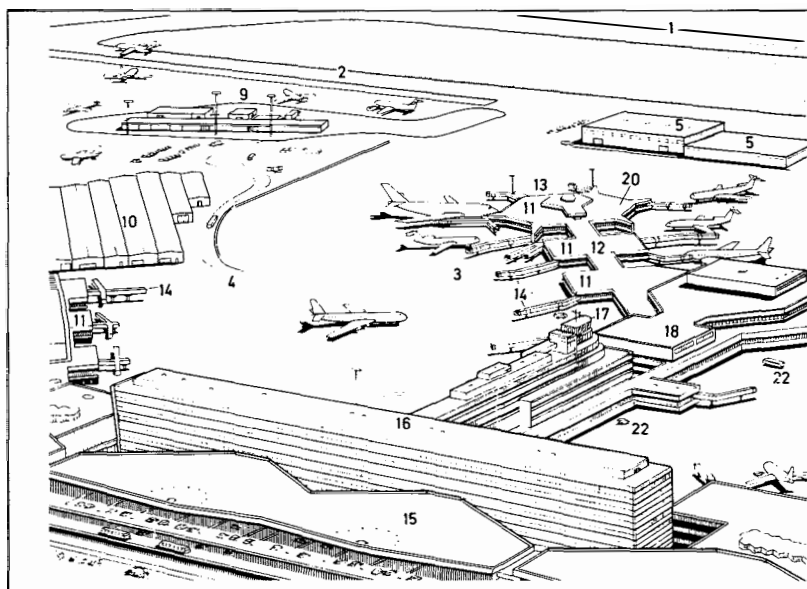
- 23 retractable nose undercarriage unit (retractable nose landing gear unit)
- 24 nose undercarriage flap (nose gear flap)
- 25 centre (*Am.* center) passenger door
- 26 engine pod with engine (turbojet engine, jet turbine engine, jet engine, jet turbine)
- 27 electrostatic conductors
- 28 retractable main undercarriage unit (retractable main landing gear unit)
- 29 side window
- 30 rear passenger door
- 31 toilet (lavatory, WC)
- 32 pressure bulkhead
- 33 auxiliary engine (auxiliary gas turbine) for the generator unit



- 1 flying boat, a seaplane
- 2 hull
- 3 stub wing (sea wing)
- 4 tail bracing wires
- 5 floatplane (float seaplane), a sea-plane
- 6 float
- 7 vertical stabilizer (vertical fin, tail fin)
- 8 amphibian (amphibian flying boat)
- 9 hull
- 10 retractable undercarriage (retractable landing gear)
- 11-25 helicopters**
- 11 light multirole helicopter
- 12, 13 main rotor
- 12 rotary wing (rotor blade)
- 13 rotor head
- 14 tail rotor (anti-torque rotor)
- 15 landing skids
- 16 flying crane
- 17 turbine engines
- 18 lifting undercarriage
- 19 lifting platform
- 20 reserve tank
- 21 transport helicopter
- 22 rotors in tandem
- 23 rotor pylon
- 24 turbine engine
- 25 tail loading gate
- 26-32 V/STOL aircraft** (vertical/short take-off and landing aircraft)
- 26 tilt-wing aircraft, a VTOL aircraft (vertical take-off and landing aircraft)
- 27 tilt wing in vertical position
- 28 contrarotating tail propellers
- 29 gyrodyne
- 30 turboprop engine (turbopropeller engine)
- 31 convertiplane
- 32 tilting rotor in vertical position
- 33-60 aircraft engines** (aero engines)
- 33-50 jet engines (turbojet engines, jet turbine engines, jet turbines)
- 33 front fan-jet

- 34 fan
- 35 low-pressure compressor
- 36 high-pressure compressor
- 37 combustion chamber
- 38 fan-jet turbine
- 39 nozzle (propelling nozzle, propulsion nozzle)
- 40 turbines
- 41 bypass duct
- 42 aft fan-jet
- 43 fan
- 44 bypass duct
- 45 nozzle (propelling nozzle, propulsion nozzle)
- 46 bypass engine
- 47 turbines
- 48 mixer
- 49 nozzle (propelling nozzle, propulsion nozzle)
- 50 secondary air flow (bypass air flow)
- 51 turboprop engine (turbopropeller engine), a twin-shaft engine
- 52 annular air intake
- 53 high-pressure turbine
- 54 low-pressure turbine
- 55 nozzle (propelling nozzle, propulsion nozzle)
- 56 shaft
- 57 intermediate shaft
- 58 gear shaft
- 59 reduction gear
- 60 propeller shaft





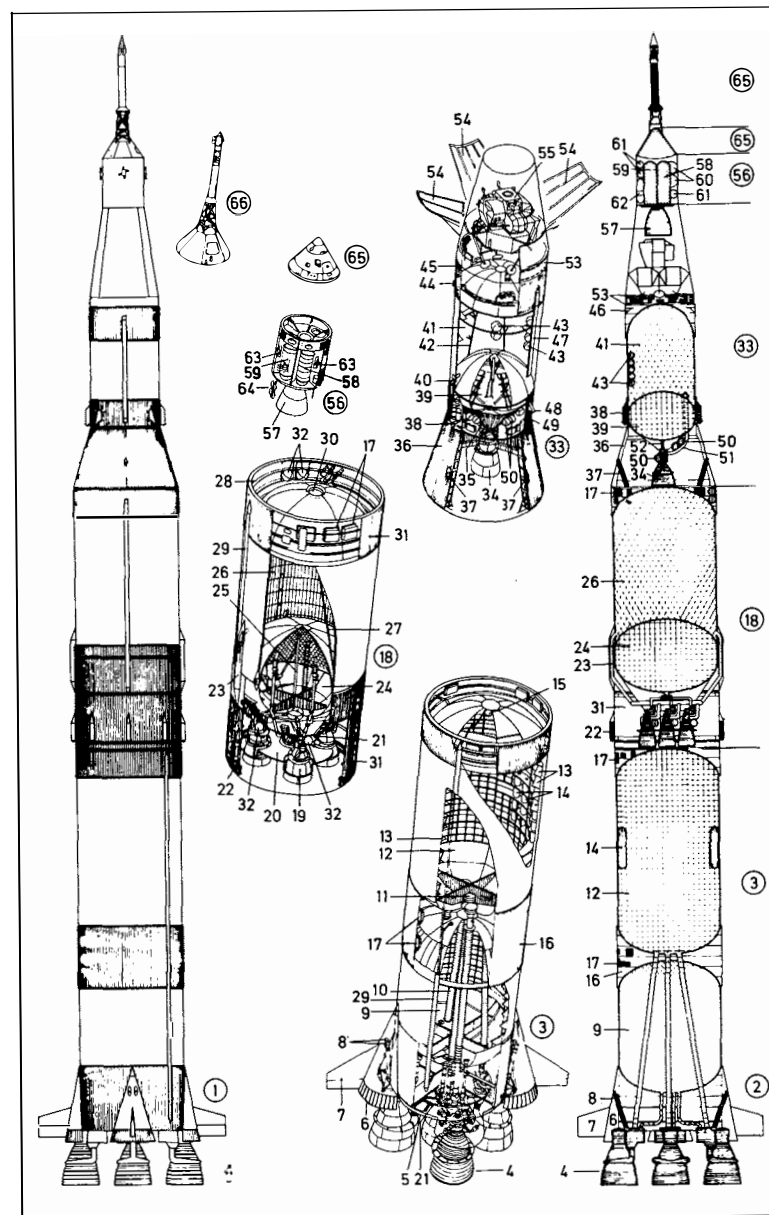
- |  |   |  |
|--|---|--|
| 1 runway                                   | 22 service vehicles, e.g. baggage loaders, water tankers, galley loaders, toilet-cleaning vehicles, ground power units, tankers | 35 'buses'                             |
| 2 taxiway                                  | 23 aircraft tractor (aircraft tug)  | 36 'entrance'                          |
| 3 apron                                    | 24-53 airport information symbols (pictographs)   | 37 'exit'                              |
| 4 apron taxiway                            | 24 'airport'  | 38 'baggage reclaim'                   |
| 5 baggage terminal                         | 25 'departures'   | 39 'luggage lockers'                   |
| 6 tunnel entrance to the baggage terminal  | 26 'arrivals'   | 40 'telephone - emergency calls only'  |
| 7 airport fire service                     | 27 'transit passengers'   | 41 'emergency exit'                    |
| 8 fire appliance building                  | 28 'waiting room' ('lounge')  | 42 'passport check'                    |
| 9 mail and cargo terminal                  | 29 'assembly point' ('meeting point', 'rendezvous point')   | 43 'press facilities'                  |
| 10 cargo warehouse                         | 30 'spectators' terrace'  | 44 'doctor'                            |
| 11 assembly point                          | 31 'information'  | 45 'chemist' ( <i>Am.</i> 'drug-gist') |
| 12 pier                                    | 32 'taxis'  | 46 'showers'                           |
| 13 pierhead                                | 33 'car hire'   | 47 'gentlemen's toilet' ('gentlemen')  |
| 14 airbridge                               | 34 'trains'   | 48 'ladies' toilet' ('ladies')         |
| 15 departure building (terminal)           |   | 49 'chapel'                            |
| 16 administration building                 |   | 50 'restaurant'                        |
| 17 control tower (tower)                   |   | 51 'change'                            |
| 18 waiting room (lounge)                   |   | 52 'duty free shop'                    |
| 19 airport restaurant                      |   | 53 'hairdresser'                       |
| 20 spectators' terrace                     |   |  |
| 21 aircraft in loading position (nosed in) |   |  |





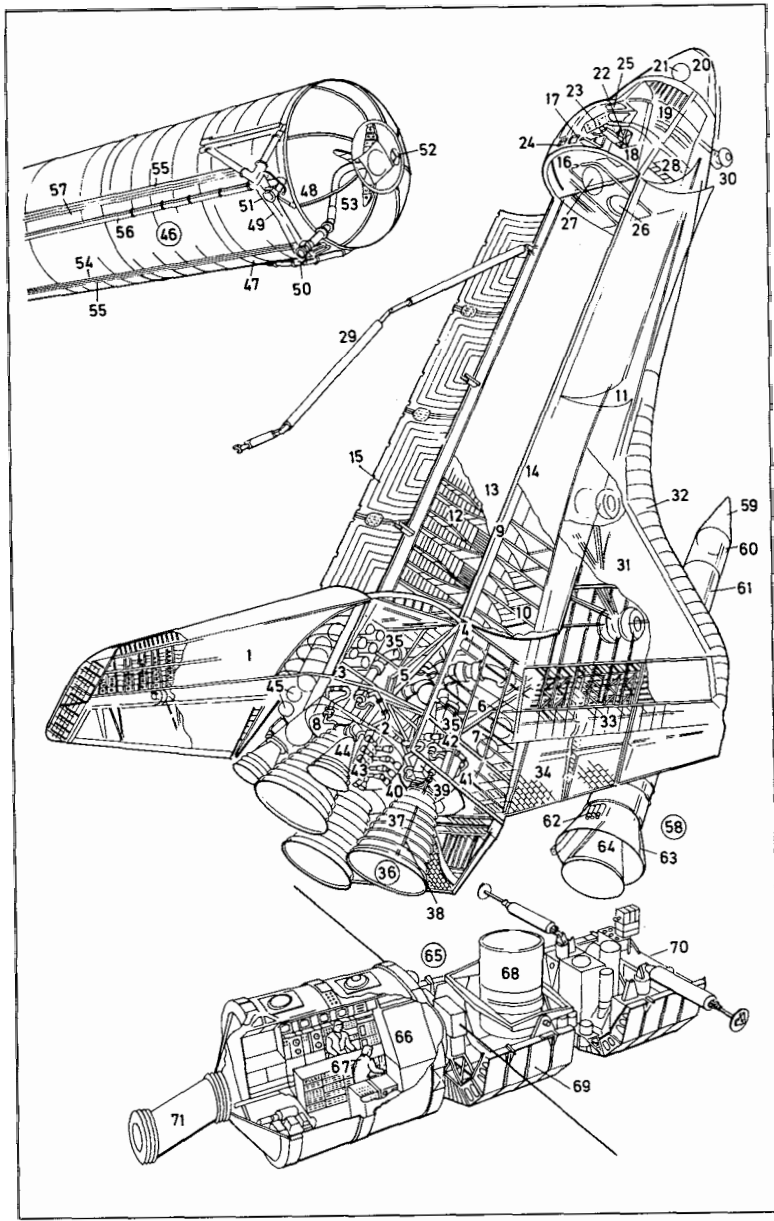
## 234 Space Flight I

- 1 Saturn V 'Apollo' booster (booster rocket) [overall view]
- 2 Saturn V 'Apollo' booster (booster rocket) [overall sectional view]
- 3 first rocket stage (S-IC)
- 4 F-1 engines
- 5 heat shield (thermal protection shield)
- 6 aerodynamic engine fairings
- 7 aerodynamic stabilizing fins
- 8 stage separation retro-rockets, 8 rockets arranged in 4 pairs
- 9 kerosene (RP-1) tank [capacity: 811,000 litres]
- 10 liquid oxygen (LOX, LO<sub>2</sub>) supply lines, total of 5
- 11 anti-vortex system (device for preventing the formation of vortices in the fuel)
- 12 liquid oxygen (LOX, LO<sub>2</sub>) tank [capacity: 1,315,000 litres]
- 13 anti-slosh baffles
- 14 compressed-helium bottles (helium pressure bottles)
- 15 diffuser for gaseous oxygen
- 16 inter-tank connector (inter-tank section)
- 17 instruments and system-monitoring devices
- 18 second rocket stage (S-II)
- 19 J-2 engines
- 20 heat shield (thermal protection shield)
- 21 engine mounts and thrust structure
- 22 acceleration rockets for fuel acquisition
- 23 liquid hydrogen (LH<sub>2</sub>) suction line
- 24 liquid oxygen (LOX, LO<sub>2</sub>) tank [capacity: 1,315,000 litres]
- 25 standpipe
- 26 liquid hydrogen (LH<sub>2</sub>) tank [capacity: 1,020,000 litres]
- 27 fuel level sensor
- 28 work platform (working platform)
- 29 cable duct
- 30 manhole
- 31 S-IC/S-II inter-stage connector (inter-stage section)
- 32 compressed-gas container (gas pressure vessel)
- 33 third rocket stage (S-IVB)
- 34 J-2 engine
- 35 nozzle (thrust nozzle)
- 36 S-II/S-IVB inter-stage connector (inter-stage section)
- 37 four second-stage (S-II) separation retro-rockets
- 38 attitude control rockets
- 39 liquid oxygen (LOX, LO<sub>2</sub>) tank [capacity: 77,200 litres]
- 40 fuel line duct
- 41 liquid hydrogen (LH<sub>2</sub>) tank [capacity: 253,000 litres]
- 42 measuring probes
- 43 compressed-helium tanks (helium pressure vessels)
- 44 tank vent
- 45 forward frame section
- 46 work platform (working platform)
- 47 cable duct
- 48 acceleration rockets for fuel acquisition
- 49 aft frame section
- 50 compressed-helium tanks (helium pressure vessels)
- 51 liquid hydrogen (LH<sub>2</sub>) line
- 52 liquid oxygen (LOX, LO<sub>2</sub>) line
- 53 24-panel instrument unit
- 54 LM hangar (lunar module hangar)
- 55 LM (lunar module)
- 56 Apollo SM (service module), containing supplies and equipment
- 57 SM (service module) main engine
- 58 fuel tank
- 59 nitrogen tetroxide tank
- 60 pressurized gas delivery system
- 61 oxygen tanks
- 62 fuel cells
- 63 manoeuvring (*Am.* maneuvering) rocket assembly
- 64 directional antenna assembly
- 65 space capsule (command section)
- 66 launch phase escape tower



- 1-45 Space Shuttle-Orbiter
- 1 twin-spar (two-spar, double-spar) vertical fin
- 2 engine compartment structure
- 3 fin post
- 4 fuselage attachment [of payload bay doors]
- 5 upper thrust mount
- 6 lower thrust mount
- 7 keel
- 8 heat shield
- 9 waist longeron
- 10 integrally machined (integrally milled) main rib
- 11 integrally stiffened light alloy skin
- 12 lattice girder
- 13 payload bay insulation
- 14 payload bay door
- 15 low-temperature surface insulation
- 16 flight deck (crew compartment)
- 17 captain's seat (commander's seat)
- 18 pilot's seat (co-pilot's seat)
- 19 forward pressure bulkhead
- 20 carbon fibre reinforced nose cone
- 21 forward fuel tanks
- 22 avionics consoles
- 23 automatic flight control panel
- 24 upward observation windows
- 25 forward observation windows
- 26 entry hatch to payload bay
- 27 air lock
- 28 ladder to lower deck
- 29 payload manipulator arm
- 30 hydraulically steerable nose wheel
- 31 hydraulically operated main landing gear
- 32 removable (reusable) carbon fibre reinforced leading edge [of wing]
- 33 movable elevon sections
- 34 heat-resistant elevon structure
- 35 main liquid hydrogen (LH<sub>2</sub>) supply
- 36 main liquid-fuelled rocket engine
- 37 nozzle (thrust nozzle)
- 38 coolant feed line
- 39 engine control system
- 40 heat shield

- 41 high-pressure liquid hydrogen (LH<sub>2</sub>) pump
- 42 high-pressure liquid oxygen (LOX, LO<sub>2</sub>) pump
- 43 thrust vector control system
- 44 electromechanically controlled orbital manoeuvring (*Am.* manoeuvring) main engine
- 45 nozzle fuel tanks (thrust nozzle fuel tanks)
- 46 jettisonable liquid hydrogen and liquid oxygen tank (fuel tank)
- 47 integrally stiffened annular rib (annular frame)
- 48 hemispherical end rib (end frame)
- 49 aft attachment to Orbiter
- 50 liquid hydrogen (LH<sub>2</sub>) line
- 51 liquid oxygen (LOX, LO<sub>2</sub>) line
- 52 manhole
- 53 surgebaffle system (slosh baffle system)
- 54 pressure line to liquid hydrogen tank
- 55 electrical system bus
- 56 liquid oxygen (LOX, LO<sub>2</sub>) line
- 57 pressure line to liquid oxygen tank
- 58 recoverable solid-fuel rocket (solid rocket booster)
- 59 auxiliary parachute bay
- 60 compartment housing the recovery parachutes and the forward separation rocket motors
- 61 cable duct
- 62 aft separation rocket motors
- 63 aft skirt
- 64 swivel nozzle (swivelling, *Am.* swiveling, nozzle)
- 65 Spacelab (space laboratory, space station)
- 66 multi-purpose laboratory (orbital workshop)
- 67 astronaut
- 68 gimbal-mounted telescope
- 69 measuring instrument platform
- 70 spaceflight module
- 71 crew entry tunnel

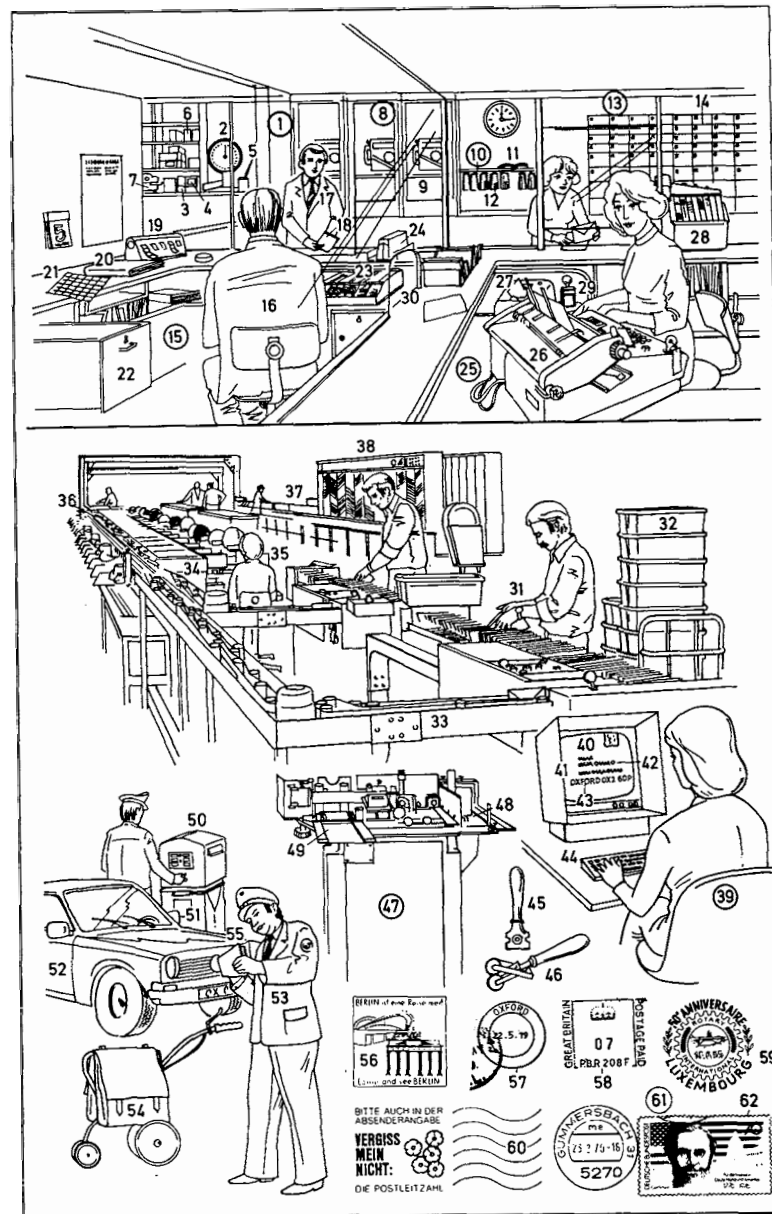


## 236 Post Office I

## 1-30 main hall

- 1 parcels counter
- 2 parcels scales
- 3 parcel
- 4 stick-on address label with parcel registration slip
- 5 glue pot
- 6 small parcel
- 7 franking machine (*Am.* postage meter) for parcel registration cards
- 8 telephone box (telephone booth, telephone kiosk, call box)
- 9 coin-box telephone (pay phone, public telephone)
- 10 telephone directory rack
- 11 directory holder
- 12 telephone directory (telephone book)
- 13 post office boxes
- 14 post office box
- 15 stamp counter
- 16 counter clerk (counter officer)
- 17 company messenger
- 18 record of posting book
- 19 counter stamp machine
- 20 stamp book
- 21 sheet of stamps
- 22 security drawer
- 23 change rack
- 24 letter scales
- 25 paying-in (*Am.* deposit), post office savings, and pensions counter
- 26 accounting machine
- 27 franking machine for money orders and paying-in slips (*Am.* deposit slips)
- 28 change machine (*Am.* changemaker)
- 29 receipt stamp
- 30 hatch
- 31-44 letter-sorting installation
- 31 letter feed
- 32 stacked letter containers
- 33 feed conveyor
- 34 intermediate stacker
- 35 coding station
- 36 pre-distributor channel

- 37 process control computer
- 38 distributing machine
- 39 video coding station
- 40 screen
- 41 address display
- 42 address
- 43 post code (postal code, *Am.* zip code)
- 44 keyboard
- 45 handstamp
- 46 roller stamp
- 47 franking machine
- 48 feed mechanism
- 49 delivery mechanism
- 50-55 postal collection and delivery
- 50 postbox (*Am.* mailbox)
- 51 collection bag
- 52 post office van (mail van)
- 53 postman (*Am.* mail carrier, letter carrier, mailman)
- 54 delivery pouch (postman's bag, mailbag)
- 55 letter-rate item
- 56-60 postmarks
- 56 postmark advertisement
- 57 date stamp postmark
- 58 charge postmark
- 59 special postmark
- 60 roller postmark
- 61 stamp (postage stamp)
- 62 perforations



- 1-41 telephone

1 dial telephone

2 handset (telephone receiver)

3 receiver cord (handset cord)

4 telephone cable (telephone cord)

5 telephone casing (telephone cover)

6 emergency numbers

7 line number

8 dial

9 compact telephone (slimline telephone), an added-feature telephone

10 earpiece (receiver)

11 keypad with number and function keys (feature keys)

12 last number redial button

13 abbreviated dialling key

14 speaker key (loudspeaker key)

15 mouthpiece

16 line reset button

17 speaker (loudspeaker)

18 call indicator

19 push-button telephone, an added-feature telephone

20 display

21 lock

22 novelty telephone, an added-feature telephone

23 (telephone) cradle

24 dummy crank

25 detachable keypad

26 cordless (tele)phone (radiophone, mobile phone)

27 aerial

28 battery strength light

29 out of signal-range indicator

30 power switch

31 cardphone

32 split display showing call charges

33 language select button for the display

34 follow-on call button

35 phonecard slot

36 phonecard (*here*: telephone credit card)

37 phonecard symbol

38 cardholder's name

39 card number

40 arrow indicating direction of insertion

41 chips

42-62 ISDN (Integrated Services Digital Network)

42 multifunction telecommunications terminal (ISDN workstation)

43 screen (monitor) for viewdata, video telephone, and Teletex

44 central processing and memory unit

45 fax unit (fax)

46 input device (keyboard)

47 telephone receiver (link to the telephone network)

48 acoustic coupler (modem)

49 telecontrol network (TEMEX network)

50 public telephone network (switched telephone network)

51 telecontrol centres

52 TEMEX main control centre

53 TEMEX transmission equipment

54 telecommunications line (telephone line)

55 TEMEX network termination

56 slave station

57 telecontrol terminal equipment

58 telecontrol terminal equipment (detector, sensor, or control equipment)

59 glass-break detector

60 temperature controller

61 emergency call

62 meter (electricity meter)

63 communications satellite

64 solar panel (solar paddle, solar array, solar generator)

65 antenna module

66 receiving antenna for control commands

67 parabolic antennas

68 communications module

69 propulsion module

70 broadcasting satellite (television satellite)

71 service module

72 fuel tanks

73 control jets

74 earth station

75 parabolic antenna

76 main reflector

77 feed antenna

78 radio beams

79 satellite broadcasting, satellite television, and cable television

80 broadcasting satellite

81 television studio

82 television tower

83 cablehead station

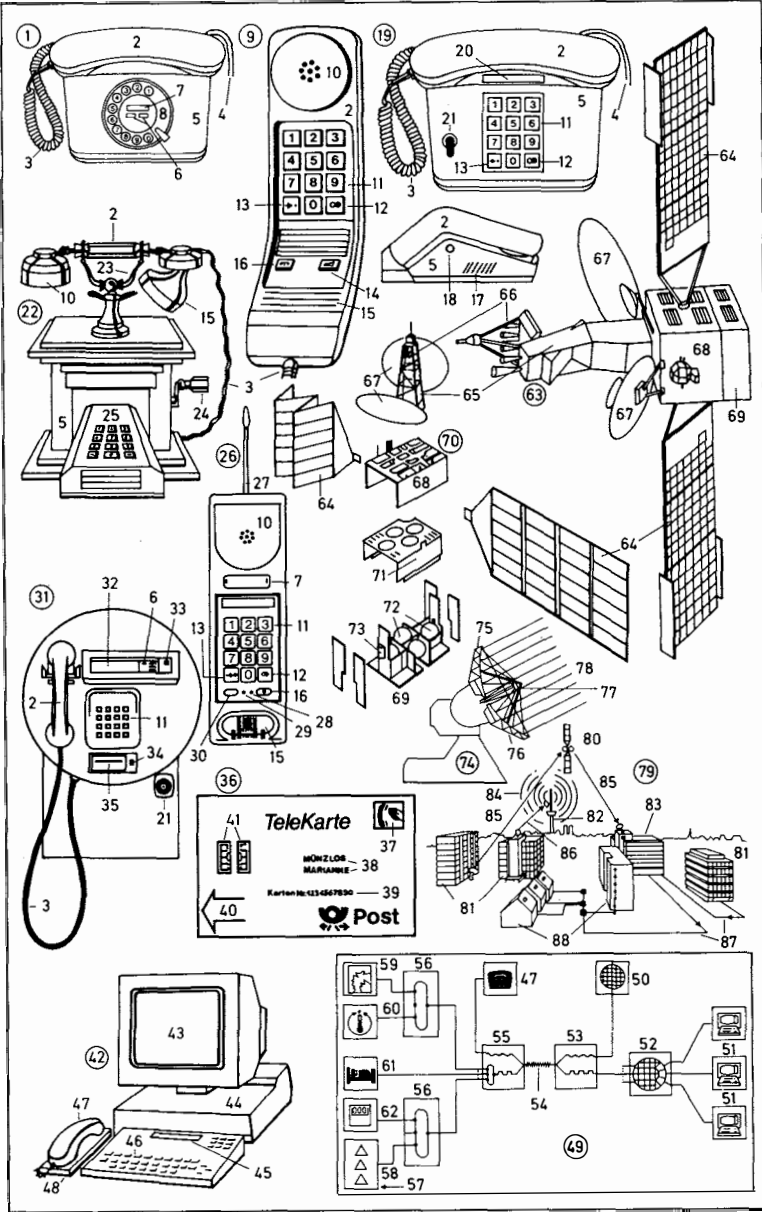
84 terrestrial broadcasting

85 satellite broadcasting

86 line-of-sight link (microwave link)

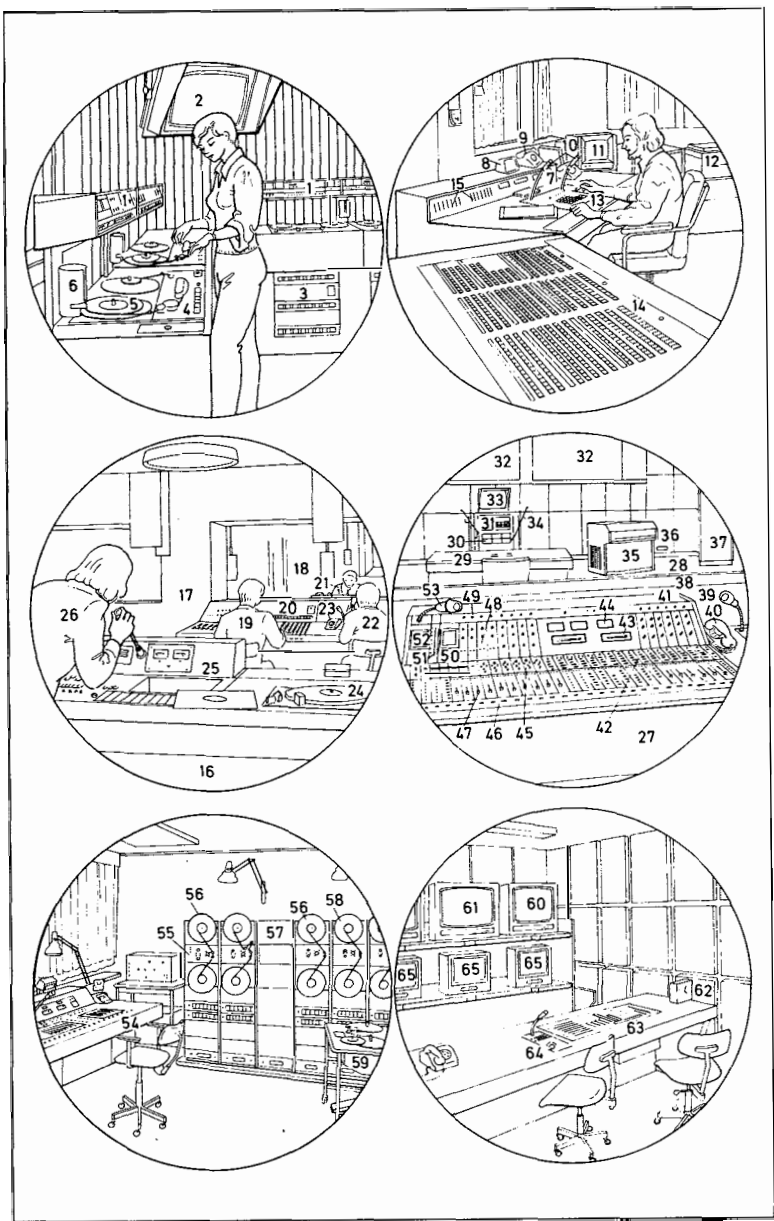
87 cable network

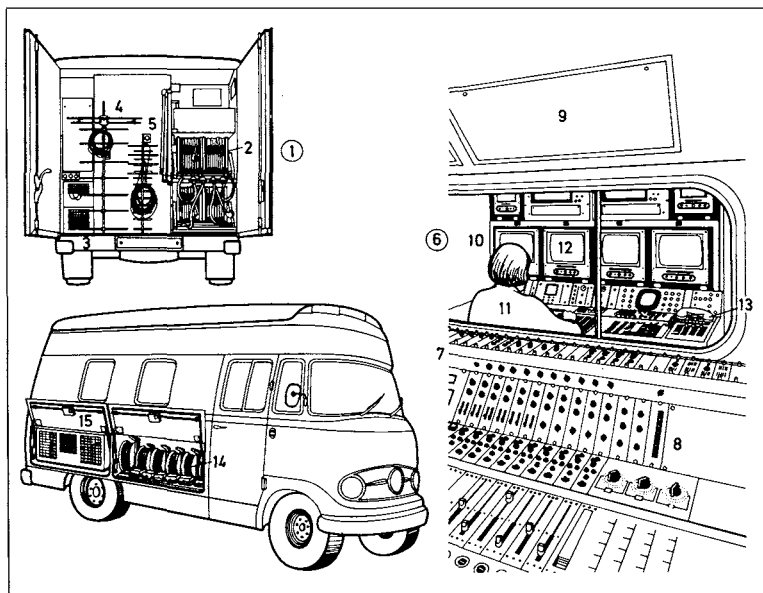
88 cable connections



- 1-6 central recording channel of a radio station
- 1 monitoring and control panel
- 2 data display terminal (video data terminal, video monitor) for visual display of computer-controlled programmes (*Am.* programmes)
- 3 amplifier and mains power unit
- 4 magnetic sound recording and playback deck for 1/4" magnetic tape
- 5 magnetic tape, a 1/4" tape
- 6 film spool holder
- 7-15 radio switching centre (*Am.* center) control room
- 7 monitoring and control panel
- 8 talkback speaker
- 9 local-battery telephone
- 10 talkback microphone
- 11 data display terminal (video data terminal)
- 12 teleprinter
- 13 input keyboard for computer data
- 14 telephone switchboard panel
- 15 monitoring speaker (control speaker)
- 16-26 broadcasting centre (*Am.* center) recording room
- 16 recording room
- 17 production control room (control room)
- 18 studio
- 19 sound engineer (sound control engineer)
- 20 sound control desk (sound control console)
- 21 newsreader (newscaster)
- 22 duty presentation officer
- 23 telephone for phoned reports
- 24 record turntable
- 25 recording room mixing console (mixing desk, mixer)
- 26 sound technician (sound mixer, sound recordist)
- 27-53 television post-sync studio
- 27 sound production control room (sound control room)
- 28 dubbing studio (dubbing theatre, *Am.* theater)
- 29 studio table
- 30 visual signal
- 31 electronic stopclock

- 32 projection screen
- 33 monitor
- 34 studio microphone
- 35 sound effects box
- 36 microphone socket panel
- 37 recording speaker (recording loudspeaker)
- 38 control room window (studio window)
- 39 producer's talkback microphone
- 40 local-battery telephone
- 41 sound control desk (sound control console)
- 42 group selector switch
- 43 visual display
- 44 limiter display (clipper display)
- 45 control modules
- 46 pre-listening buttons
- 47 slide control
- 48 universal equalizer (universal corrector)
- 49 input selector switches
- 50 pre-listening speaker
- 51 tone generator
- 52 talkback speaker
- 53 talkback microphone
- 54-59 pre-mixing room for transferring and mixing 16 mm, 17.5 mm, 35 mm perforated magnetic film
- 54 sound control desk (sound control console)
- 55 compact magnetic tape recording and playback equipment
- 56 single playback deck
- 57 central drive unit
- 58 single recording and playback deck
- 59 rewind bench
- 60-65 final picture quality checking room
- 60 preview monitor
- 61 programme (*Am.* program) monitor
- 62 stopclock
- 63 vision mixer (vision-mixing console, vision-mixing desk)
- 64 talkback system (talkback equipment)
- 65 camera monitor (picture monitor)





**1-15 outside broadcast (OB) vehicle**  
(television OB van; also: sound OB van, radio OB van)

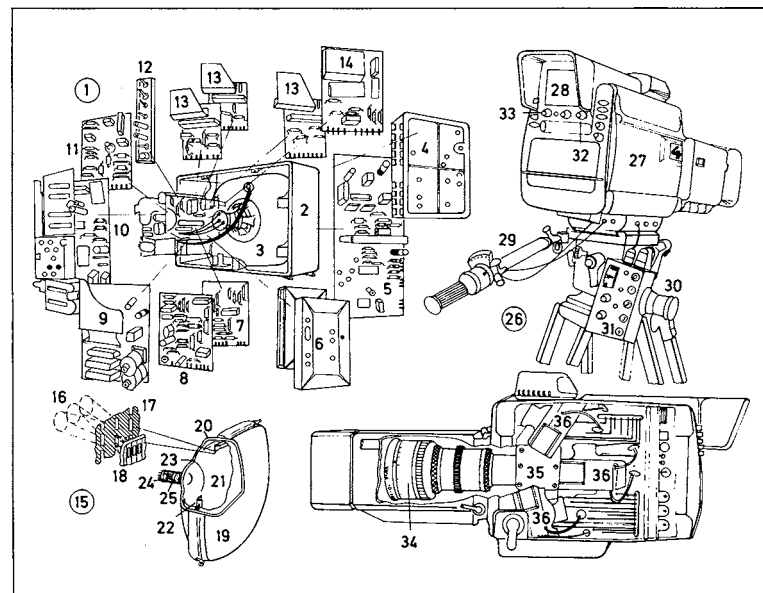
**1-4 rear equipment section of the OB vehicle**

- 2 camera cable
- 3 cable connection panel
- 4 television (TV) reception aerial (receiving aerial) for Channel I
- 5 television (TV) reception aerial (receiving aerial) for Channel II
- 6 **interior equipment (on-board equipment) of the OB vehicle**
- 7 sound production control room (sound control room)
- 8 sound control desk (sound control console)
- 9 monitoring loudspeaker
- 10 vision control room (video control room)
- 11 video controller (vision controller)
- 12 camera monitor (picture monitor)

13 on-board telephone (intercommunication telephone)

14 microphone cables

15 air-conditioning plant



**1 colour (Am. color) television (TV) receiver** (colour television set) of modular design

2 television cabinet

3 television tube (picture tube)

4 IF (intermediate frequency) amplifier module

5 colour (Am. color) decoder module

6 VHF and UHF tuner

7 horizontal synchronizing module

8 vertical deflection module

9 horizontal linearity control module

10 horizontal deflection module

11 control module

12 convergence module

13 colour (Am. color) output stage module

14 sound module

15 colour (Am. color) picture tube

16 electron beams

17 shadow mask with elongated holes

18 strip of fluorescent (luminescent, phosphorescent) material

19 coating (film) of fluorescent material

20 inner magnetic screen (screening)

21 vacuum

22 temperature-compensated shadow mask mount

23 centring (Am. centering) ring for the deflection system

24 electron gun assembly

25 rapid heat-up cathode

26 **television (TV) camera**

27 camera head

28 camera monitor

29 control arm (control lever)

30 focusing adjustment

31 control panel

32 contrast control

33 brightness control

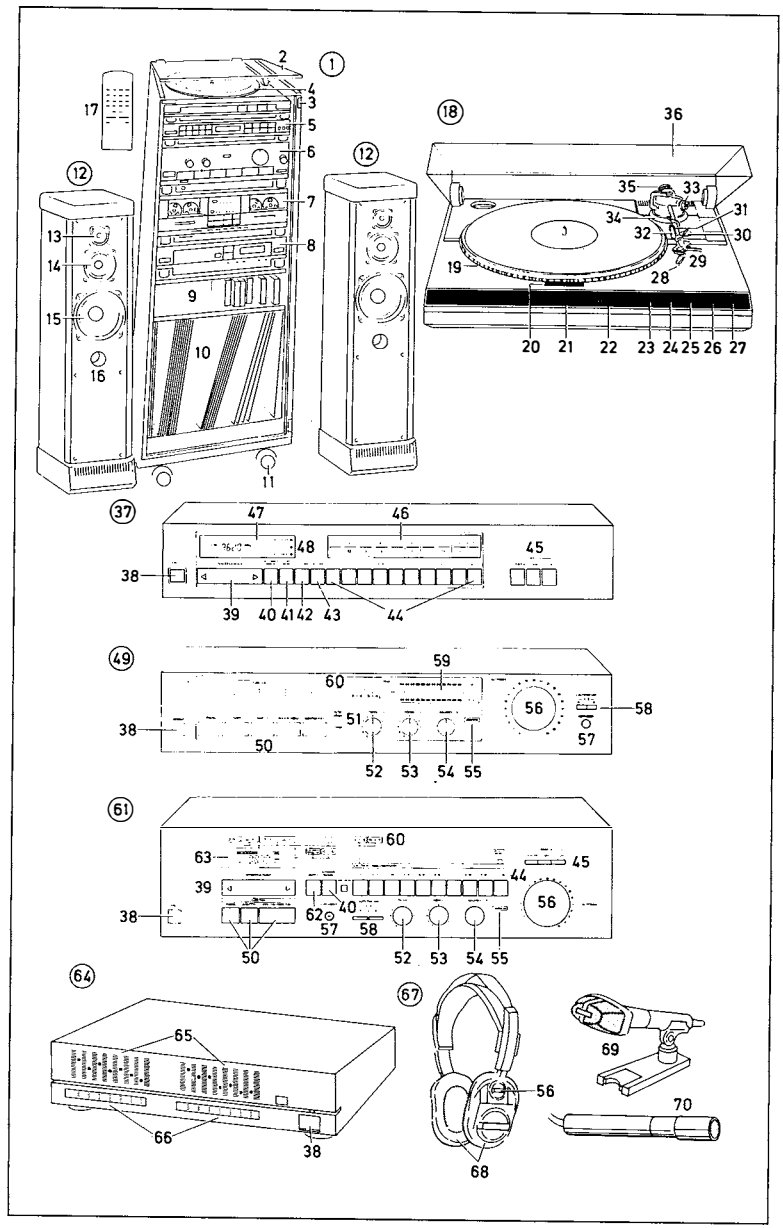
34 zoom lens

35 beam-splitting prism (beam splitter)

36 pick-up unit (colour, Am. color, pick-up tube)

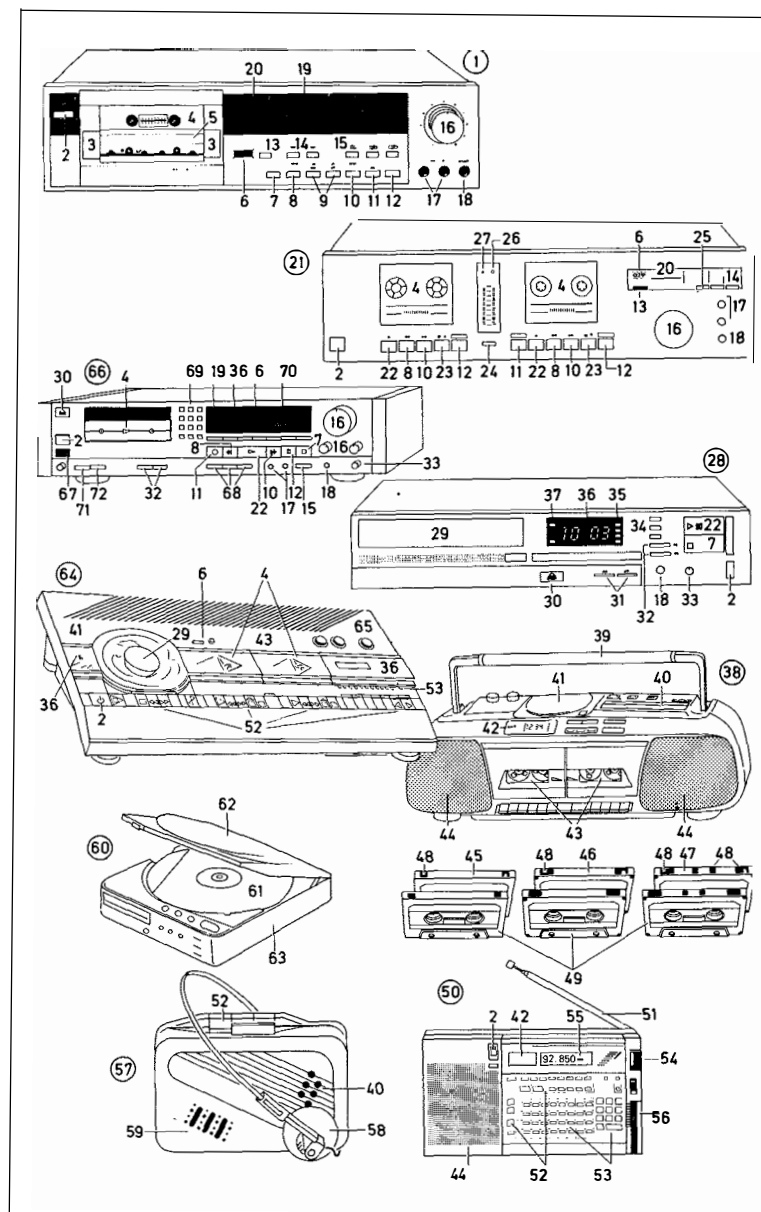
- 1-17 **stereo system** (hi-fi system), a midi system
- 1 **hi-fi stack**
- 2 rack lid (rack dust cover, [housing] lid)
- 3 rack (housing) with glass door
- 4 record player (record deck, analogue [*Am.* analog] record player)
- 5 tuner (receiver, radio tuner)
- 6 amplifier (power amplifier)
- 7 double cassette deck (double cassette recorder)
- 8 CD player (compact disc player)
- 9 cassette rack
- 10 record and compact disc rack
- 11 castor
- 12 **speaker** (loudspeaker), a three-way bass reflex speaker
- 13 tweeter, a dome tweeter or piezo tweeter
- 14 mid-range speaker (squawker)
- 15 bass speaker (woofer)
- 16 port
- 17 infrared remote control [unit] (IR remote control [unit])
- 18 **record player** (record deck, analogue [*Am.* analog] record player)
- 19 turntable with direct drive or belt drive
- 20 strobe light (strobe speed control)
- 21 pitch control
- 22 rpm display
- 23 stop button
- 24 auto-return button
- 25 rpm selector (speed selector)
- 26 cue button (down)
- 27 cue button (up)
- 28 stylus (needle)
- 29 pick-up
- 30 size selector (record size selector)
- 31 tone arm (pick-up arm)
- 32 tone arm support (pick-up arm support)
- 33 stylus pressure control
- 34 anti-skate control
- 35 tone arm counterweight (pick-up arm counterweight)
- 36 lid (dust cover)
- 37 **tuner** (receiver, radio tuner)
- 38 power switch
- 39 tuning button (tuning control)

- 40 manual and automatic tuning selection button with muting
- 41 stereo/mono selection button
- 42 strength-of-signal display button
- 43 memory button
- 44 station selection buttons
- 45 frequency selection buttons ([wave] band selection buttons)
- 46 station select display
- 47 fluorescent digital display indicating wave band, frequency, and strength of signal
- 48 LED indicator for stereo and mono mode and automatic tuning
- 49 **amplifier** (power amplifier)
- 50 function select buttons for the turntable, tuner, cassette deck (tape deck), CD player, and monitor (tape monitor)
- 51 filter buttons (high and low filter buttons)
- 52 bass control
- 53 treble control
- 54 balance control
- 55 loudness button
- 56 volume control
- 57 headphone socket
- 58 speaker select buttons
- 59 LED display, a multifunction display
- 60 function display
- 61 **receiver**, a combined tuner-amp[ifier]
- 62 display select button
- 63 liquid crystal display (LCD), a multi-function display
- 64 [graphic] equalizer, a 2 × 7 band [graphic] equalizer
- 65 equalizer slide controls
- 66 LED-display spectrum analyser
- 67 **headphones** (stereo headphones)
- 68 ear pads (ear cushions)
- 69, 70 **microphones**
- 69 directional microphone (stereo directional microphone)
- 70 electret condenser microphone with omnidirectional pick-up characteristic



- 1 **cassette deck** (cassette recorder)
- 2 power switch
- 3 [stop and] eject button
- 4 cassette holder (cassette drive, cassette transport)
- 5 dust cover
- 6 counter (tape counter)
- 7-12 **transport buttons**
- 7 stop button
- 8 rewind button
- 9 play buttons for both directions (bi-directional play buttons)
- 10 fast forward button
- 11 record button
- 12 pause button
- 13 counter reset button
- 14 noise reduction buttons (Dolby select buttons)
- 15 auto-reverse buttons
- 16 recording level control
- 17 microphone sockets
- 18 headphone socket
- 19 level indicator display (VU meter), an LED display
- 20 tape type indicator (tape-bias indicator), an LED display
- 21 **double cassette deck** (double cassette recorder)
- 22 play button
- 23 [stop and] eject button
- 24 high-speed dubbing button
- 25 function select button
- 26 recording indicator light
- 27 on-off light (power indicator light)
- 28 **CD player** (compact disc player, digital compact disc player)
- 29 CD drawer
- 30 open/close button for the CD drawer
- 31 search button and index search button
- 32 skip buttons (skip-track buttons)
- 33 headphone volume control
- 34 function select buttons
- 35 programming, track and disc repeat, and pause indicators
- 36 LED display
- 37 remaining time and track-index indicators
- 38 **portable radio recorder** with integral CD player
- 39 handle
- 40 [radio] receiver (receiver and amplifier)

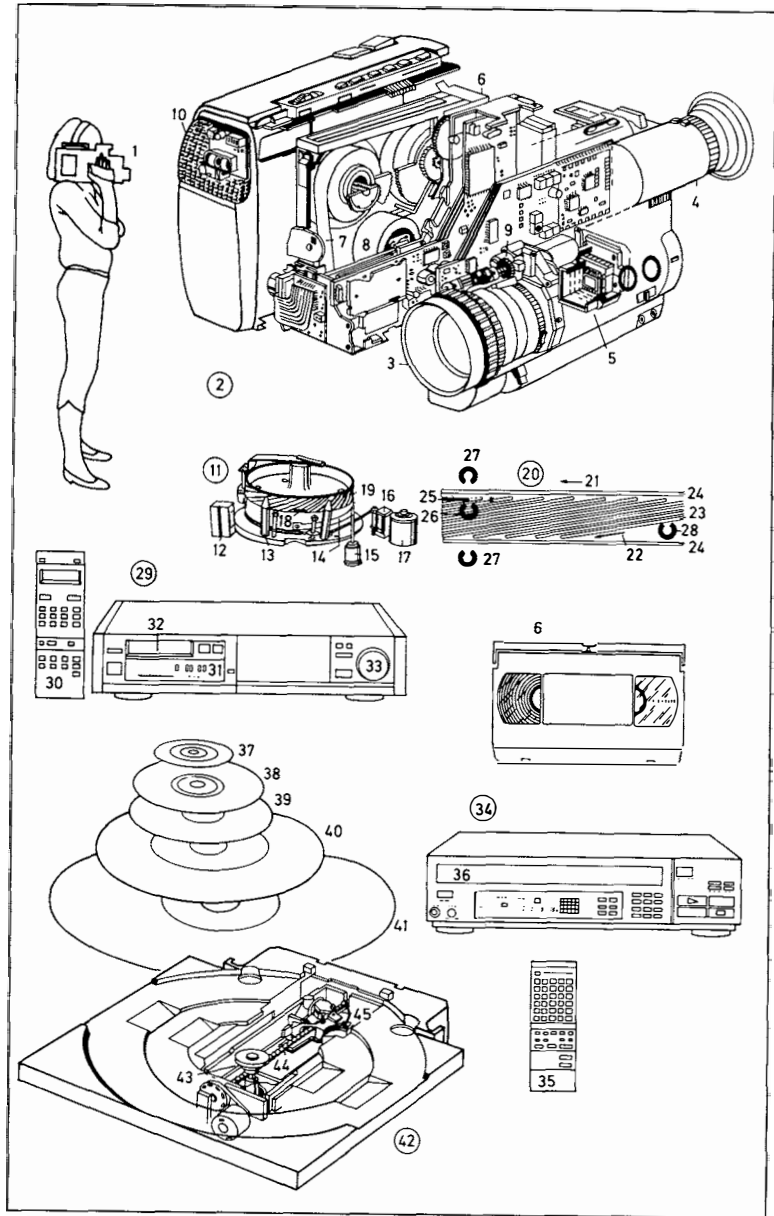
- 41 CD player
- 42 quartz clock with digital display and timer
- 43 double cassette recorder
- 44 loudspeaker
- 45-49 **audio-cassette** (cassette)
- 45-47 types of tape
- 45 ferric cassette (iron oxide cassette, normal cassette)
- 46 chrome dioxide cassette (chrome cassette)
- 47 metal cassette (metal oxide cassette)
- 48 tape type indication (indicating hole)
- 49 record-protected cassettes
- 50 **world receiver** for receiving ultra-short wave (USW), medium wave (MW), long wave (LW), and short wave (SW)
- 51 aerial (rod aerial), a telescopic aerial
- 52 function buttons
- 53 station select buttons
- 54 manual tuning knob
- 55 liquid crystal display (LCD) showing waveband, frequency, and memory number
- 56 (sliding) volume control
- 57 **cassette player** (Walkman® with radio)
- 58 headphones
- 59 equalizer, a 3-band equalizer
- 60 **portable CD player** (Discman®)
- 61 compact disc (CD)
- 62 lid
- 63 casing with transport, amplifier, display, and function buttons
- 64 **compact hi-fi system** (compact stereo system)
- 65 amplifier section
- 66 **DAT recorder** (digital cassette recorder) (DAT = Digital Audio Tape)
- 67 infrared sensor (IR sensor) for the remote control
- 68 input selection buttons for mono, analogue (*Am.* analog), and digital signals
- 69 index and program selection buttons
- 70 index number display
- 71 auto-scan button
- 72 end-record search button

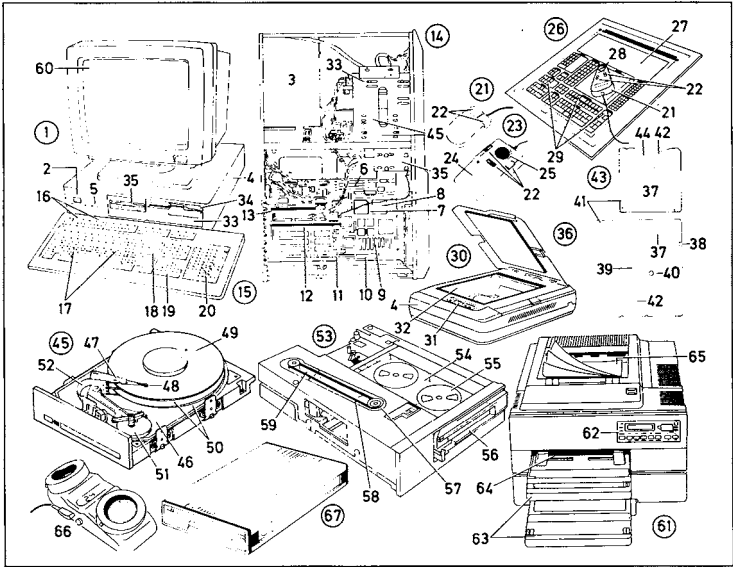




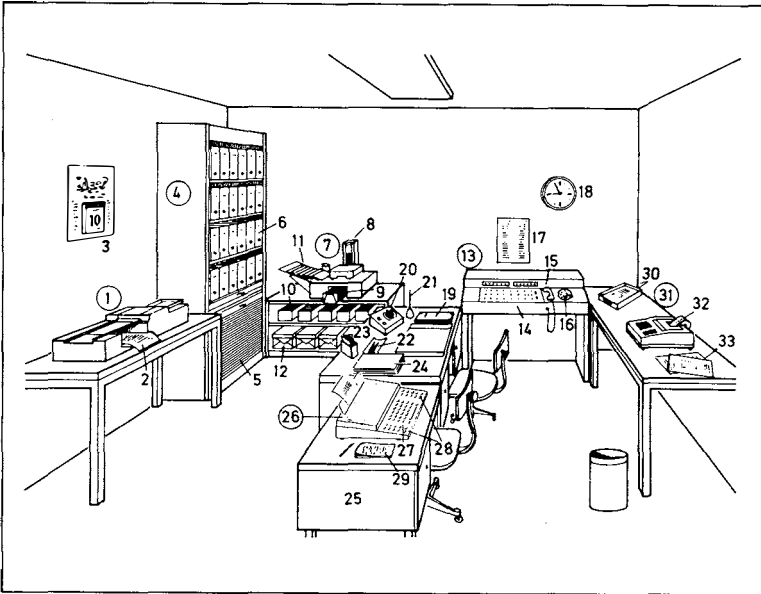
- 1 camcorder (camera recorder),  
form: two-component system (separate camera and recorder)
- 2 pocket camcorder, a video-8 camcorder
- 3 lens, a x6 zoom lens (11-66 mm)
- 4 viewfinder (ocular)
- 5 CCD image converter (image sensor) and high-speed shutter, a half-inch chip with shutter functions
- 6 video cassette
- 7 videotape
- 8 head drum
- 9 autofocus motor
- 10 built-in microphone (integral microphone)
- 11 VHS head drum (VHS: Video Home System)
- 12 erase head
- 13 guide pin
- 14 tape guide
- 15 capstan
- 16 audio sync head
- 17 pinch roller
- 18 video head
- 19 grooves in the wall of the head drum to promote air cushion formation
- 20 VHS track format
- 21 direction of tape movement
- 22 direction of recording
- 23 video track, a slant track (only a few tracks shown)
- 24 sound track (audio track)
- 25 sync track
- 26 sync head
- 27 sound head (audio head)
- 28 video head
- 29 video recorder
- 30 infrared remote control
- 31 program scale (program dial), a multisplay
- 32 cassette compartment
- 33 jog shuttle knob for forward or reverse movement of the [video] picture

- 34 multisc disc player
- 35 infrared remote control
- 36 disc drawer
- 37-41 disc formats
- 37 single compact disc (single CD)
- 38 audio CD
- 39 video CD
- 40 small laser disc (20 cm)
- 41 large laser disc (30 cm)
- 42 laser scanning system
- 43 [disc] spindle
- 44 laser-head tracing spindle
- 45 laser head (laser unit)

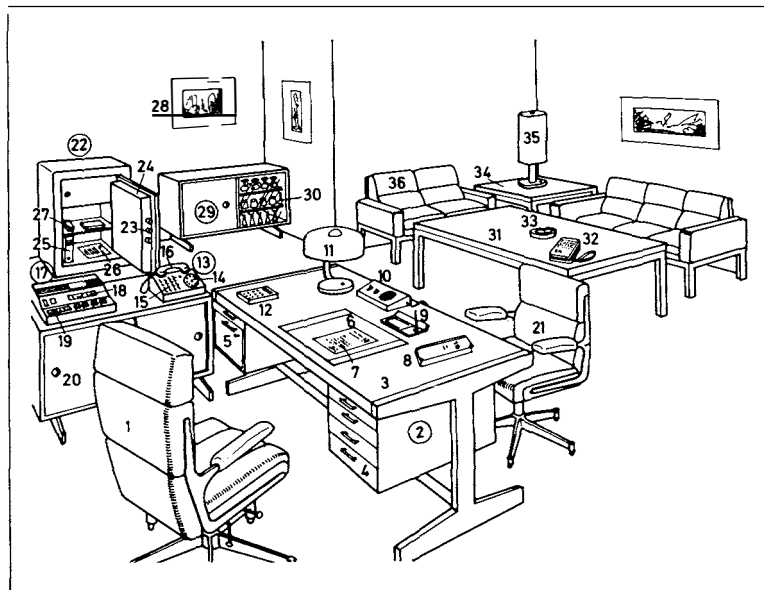




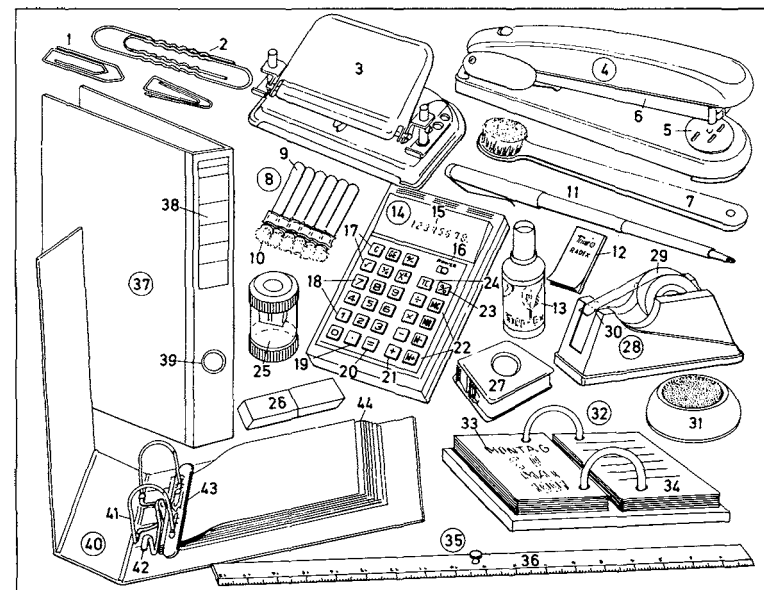
- |   |   |   |
|---|---|---|
| 1 personal computer (PC; <i>sim.</i> : laptop)                  | 27 graphics area  | 49 drive motor for the aluminium ( <i>Am.</i> aluminum) platters, a spindle drive motor                       |
| 2 power switch  | 28 cross hairs  | 50 magnetic-coated aluminium ( <i>Am.</i> aluminum) platters  |
| 3 power supply (power pack)                                     | 29 receiving grids  | 51 read-write head drive motor, a linear motor or stepping motor (stepper motor)                              |
| 4 housing   | 30 scanner  | 52 data, address, and control bus   |
| 5 fixed-disk access light                                       | 31 control panel with function keys                             | 53 magnetic tape unit (magnetic tape drive, streamer)   |
| 6 main memory   | 32 scanning surface   | 54 magnetic tape  |
| 7 coprocessor socket  | 33-59 mass storage devices (magnetic stores, magnetic memories) | 55 magnetic tape reel   |
| 8 central processing unit (CPU), a microprocessor               | 33-44 disk drives (drives, floppy disk drives)                  | 56 magnetic tape cassette (magnetic tape cartridge)   |
| 9 cache memory (cache controller)                               | 33 minifloppy disk drive (5 1/4 inch [floppy] disk drive)       | 57 drive post   |
| 10 expansion memory slot  | 34 latch  | 58 drive band   |
| 11 graphics card slot   | 35 microfloppy disk drive (3 1/2 inch [floppy] disk drive)      | 59 drive motor  |
| 12 combined fixed and floppy disk controller                    | 36-44 diskettes (disks, floppy disks, floppies)                 | 60-65 output devices  |
| 13 serial and parallel communication card                       | 36 minifloppy (minifloppy disk, 5 1/4 inch disk, flexible disk) | 60 screen (monitor, display) a high-resolution colour ( <i>Am.</i> color) monitor                             |
| 14 PC tower interior view                                       | 37 label  | 61 printer, a dot-matrix printer ( <i>here</i> : laser printer; <i>also</i> : inkjet printer, needle printer) |
| 15-32 built-in devices  | 38 write-protect notch  | 62 control panel with function keys and display   |
| 15 keyboard   | 39 hole for engaging the drive hub                              | 63 paper tray (paper cassette)  |
| 16 function keys  | 40 registration hole  | 64 paper feed path  |
| 17 letter keys and number keys (numeric keys)                   | 41 disk cover (envelope)  | 65 paper output tray  |
| 18 enter key (return key)                                       | 42 access slot for the read-write head                          | 66, 67 devices for long-distance data transmission  |
| 19 cursor keys  | 43 microfloppy (3 1/2 inch [floppy] disk)                       | 66 acoustic coupler   |
| 20 number [key]pad (numeric [key]pad)                           | 44 sliding shutter  | 67 modem  |
| 21 mouse  | 45 fixed-disk drive (fixed disk, hard disk)                     |   |
| 22 mouse buttons  | 46 base plate   |   |
| 23 trackerball (trackball)                                      | 47 access arm (actuator)  |   |
| 24 handrest   | 48 read-write head  |   |
| 25 roller ball  |   |   |
| 26 digitizing tablet (digitizer, <i>also</i> : graphics tablet) |   |   |



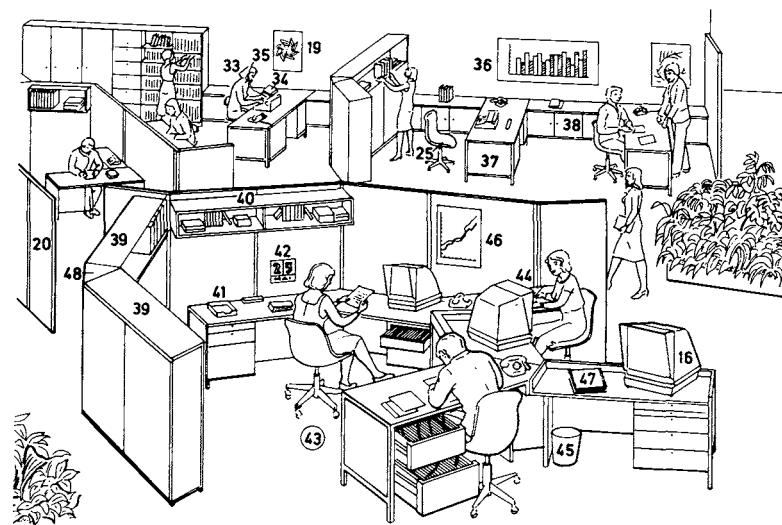
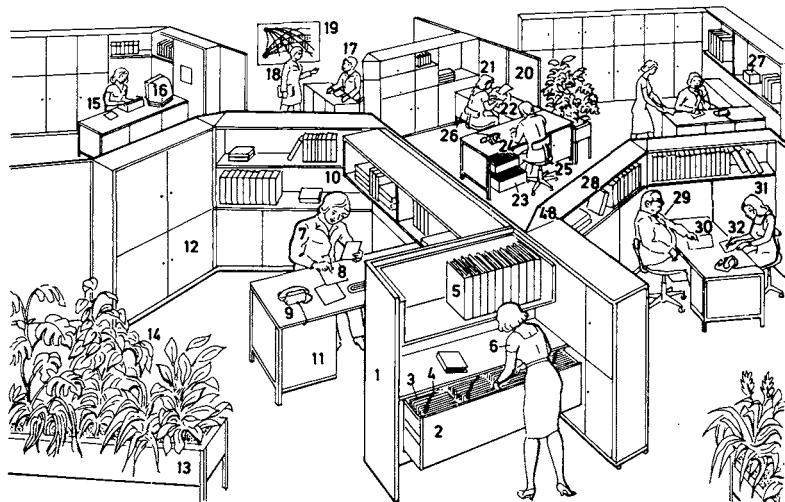
- 1-33 receptionists office (secretary's office)
- |  |   |
|--|---|
| 1 fax machine                                    | 19 folder containing documents, correspondence, etc. for signing (to be signed) |
| 2 transmitted or received copy                   | 20 intercom (office intercom)   |
| 3 wall calendar                                  | 21 pen  |
| 4 filing cabinet                                 | 22 pen and pencil tray  |
| 5 tambour door (roll-up door)                    | 23 card index   |
| 6 file (document file)                           | 24 stack (set) of forms   |
| 7 transfer-type addressing machine               | 25 typing desk  |
| 8 vertical stencil magazine                      | 26 electronic memory typewriter   |
| 9 stencil ejection                               | 27 keyboard   |
| 10 stencil storage drawer                        | 28 function keys  |
| 11 paper feed                                    | 29 shorthand pad ( <i>Am.</i> steno pad)  |
| 12 stock of notepaper                            | 30 letter tray  |
| 13 switchboard (internal telephone exchange)     | 31 office calculator  |
| 14 push-button keyboard for internal connections | 32 printer  |
| 15 handset                                       | 33 business letter  |
| 16 dial  |   |
| 17 internal telephone list                       |   |
| 18 master clock (main clock)                     |   |

**1-36 executive's office**

- 1 swivel chair
- 2 desk
- 3 desk top
- 4 desk drawer
- 5 cupboard (storage area) with door
- 6 desk mat (blotter)
- 7 business letter
- 8 appointments diary
- 9 desk set
- 10 intercom (office intercom)
- 11 desk lamp
- 12 pocket calculator (electronic calculator)
- 13 telephone, an executive-secretary system
- 14 dial; also: push-button keyboard
- 15 call buttons
- 16 receiver (telephone receiver)
- 17 dictating machine
- 18 position indicator
- 19 control buttons (operating keys)
- 20 cabinet
- 21 visitor's chair
- 22 safe
- 23 bolts
- 24 armour-plated (*Am.* armor-plated) lock area
- 25 confidential documents
- 26 patent
- 27 petty cash
- 28 picture
- 29 bar (drinks cabinet)
- 30 bar set
- 31-36 conference grouping
- 31 conference table
- 32 pocket-sized dictating machine, a micro-cassette recorder
- 33 ashtray
- 34 corner table
- 35 table lamp
- 36 two-seater sofa [part of the conference grouping]

**1-44 office equipment** (office supplies, office materials)

- 1, 2 paper clips
- 3 punch
- 4 stapler (stapling machine)
- 5 anvil
- 6 spring-loaded magazine
- 7 type-cleaning brush
- 8 type cleaner (type-cleaning kit)
- 9 fluid container (fluid reservoir)
- 10 cleaning brush
- 11 felt tip pen
- 12 correcting paper [for typing errors]
- 13 correcting fluid [for typing errors]
- 14 electronic pocket calculator
- 15 eight-digit fluorescent display
- 16 on/off switch
- 17 function keys
- 18 number keys
- 19 decimal key
- 20 'equals' key
- 21 instruction keys (command keys)
- 22 memory keys
- 23 percent key (percentage key)
- 24  $\pi$ -key (pi-key) for mensuration of circles
- 25 pencil sharpener
- 26 typewriter rubber
- 27 adhesive tape dispenser
- 28 adhesive tape holder (roller-type adhesive tape dispenser)
- 29 roll of adhesive tape
- 30 tear-off edge
- 31 moistener
- 32 desk diary
- 33 date sheet (calendar sheet)
- 34 memo sheet
- 35 ruler
- 36 centimetre and millimetre (*Am.* centimeter and millimeter) graduations
- 37 file (document file)
- 38 spine label (spine tag)
- 39 finger hole
- 40 arch board file
- 41 arch unit
- 42 release lever (locking lever, release/lock lever)
- 43 compressor
- 44 bank statement (statement of account)

**1-48 open plan office**

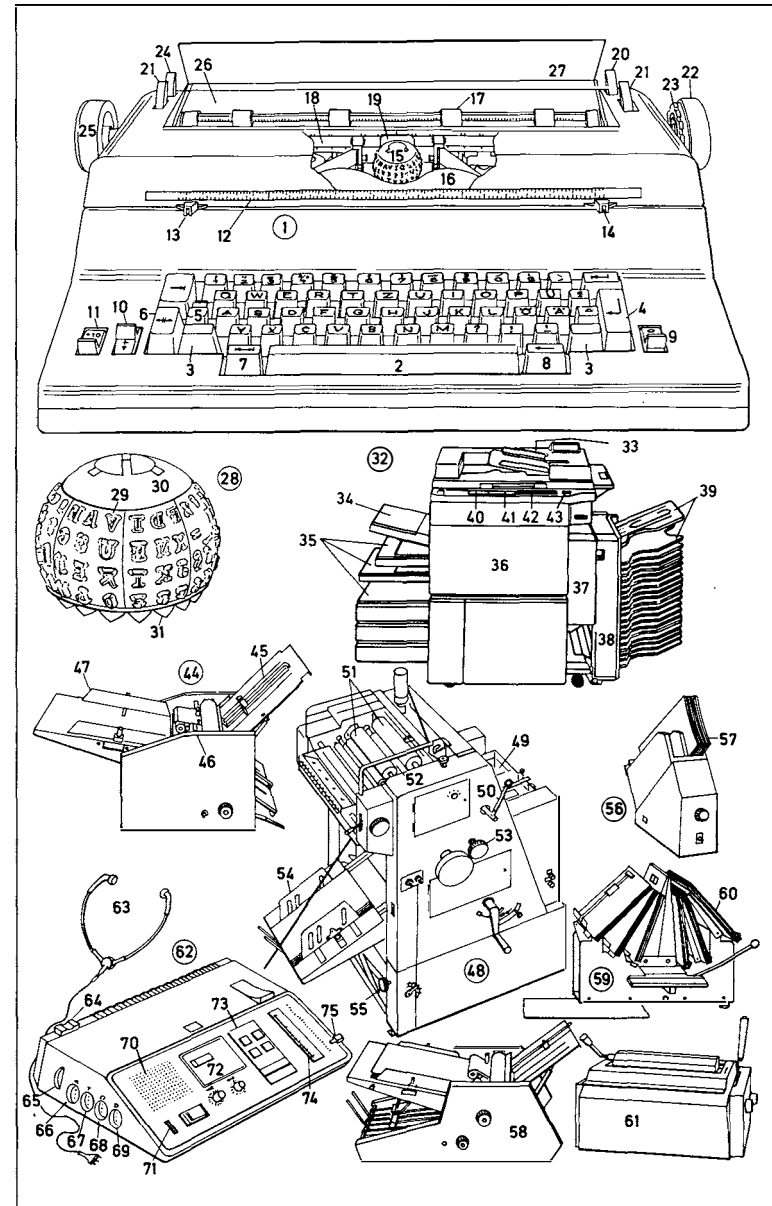
- 1 partition wall (partition screen)
- 2 filing drawer with suspension file system
- 3 suspension file
- 4 file tab
- 5 file (document file)
- 6 filing clerk
- 7 clerical assistant
- 8 note for the files
- 9 telephone
- 10 filing shelves
- 11 clerical assistant's desk
- 12 office cupboard
- 13 plant stand (planter)
- 14 indoor plants (houseplants)
- 15 programmer
- 16 data display terminal (visual display unit)
- 17 customer service representative
- 18 customer
- 19 computer-generated design
- 20 sound-absorbing partition

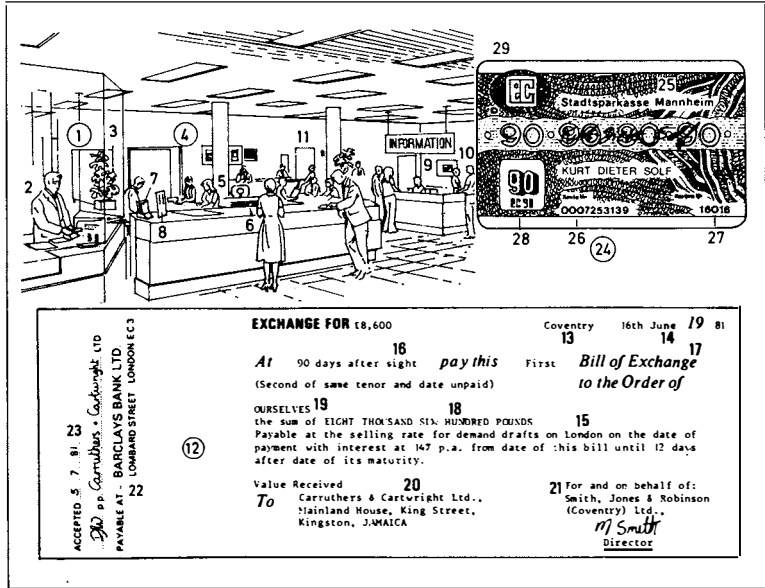
- 21 typist
- 22 typewriter
- 23 filing drawer
- 24 customer card index
- 25 office chair, a swivel chair
- 26 typing desk
- 27 card index box
- 28 multi-purpose shelving
- 29 proprietor
- 30 business letter
- 31 proprietor's secretary
- 32 shorthand pad (*Am.* steno pad)
- 33 audio typist
- 34 dictating machine
- 35 earphone
- 36 statistics chart
- 37 pedestal containing a cupboard or drawers
- 38 sliding-door cupboard
- 39 office furniture arranged in an angular configuration
- 40 wall-mounted shelf
- 41 letter tray

- 42 wall calendar
- 43 data centre (*Am.* center)
- 44 calling up information on the data display terminal (visual display unit)
- 45 waste paper basket
- 46 sales statistics
- 47 EDP print-out, a continuous fan-fold sheet
- 48 connecting element

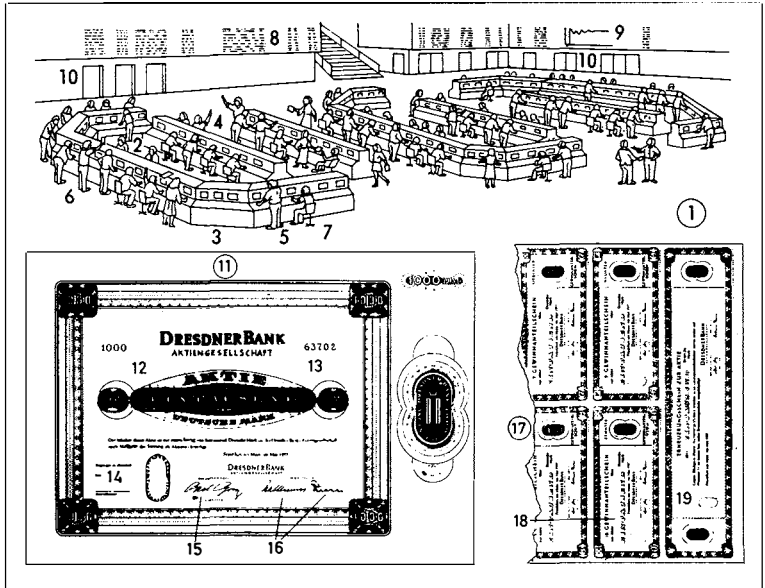
## 249 Office V

- 1 **electric typewriter**, a golf ball type-  
writer
- 2-6 keyboard
- 2 space bar
- 3 shift key
- 4 line space and carrier return key
- 5 shift lock
- 6 margin release key
- 7 tabulator key
- 8 tabulator clear key
- 9 on/off switch
- 10 striking force control (impression  
control)
- 11 ribbon selector
- 12 margin scale
- 13 left margin stop
- 14 right margin stop
- 15 golf ball (spherical typing element)  
bearing the types
- 16 ribbon cassette
- 17 paper bail with rollers
- 18 platen
- 19 typing opening (typing window)
- 20 paper release lever
- 21 carrier return lever
- 22 platen knob
- 23 line space adjuster
- 24 variable platen action lever
- 25 push-in platen variable
- 26 erasing table
- 27 transparent cover
- 28 exchange golf ball (exchange typ-  
ing element)
- 29 type
- 30 golf ball cap (cap of typing ele-  
ment)
- 31 teeth
- 32 **photocopier** (copier, photocopying  
machine)
- 33 copyboard cover with single-copy  
(single-sheet) delivery tray
- 34 universal paper cassette
- 35 adjustable paper cassettes
- 36 front door
- 37 dual vertical transport unit
- 38 sorter
- 39 copy delivery bins
- 40-43 control panel displays and con-  
trol keys
- 40 enlargement, reduction, and pro-  
gram selection keys
- 41 sort mode and two-sided copy keys
- 42 display with colour, exposure, for-  
mat, and copy number selection  
keys
- 43 start key (copy start key)
- 44 **letter-folding machine**
- 45 paper feed
- 46 folding mechanism
- 47 receiving tray
- 48 **small offset press**
- 49 paper feed
- 50 lever for inking the plate cylinder
- 51, 52 inking unit (inker unit)
- 51 distributing roller (distributor)
- 52 ink roller (inking roller, fountain  
roller)
- 53 pressure adjustment
- 54 sheet delivery (receiving table)
- 55 printing speed adjustment
- 56 jogger for aligning the piles of  
sheets
- 57 pile of paper (pile of sheets)
- 58 folding machine
- 59 gathering machine (collating  
machine, assembling machine) for  
short runs
- 60 gathering station (collating station,  
assembling station)
- 61 adhesive binder (perfect binder)  
for hot adhesives
- 62 **magnetic tape dictating machine**
- 63 headphones (headset, earphones)
- 64 on/off switch
- 65 microphone cradle
- 66 foot control socket
- 67 telephone adapter socket
- 68 headphone socket (earphone sock-  
et, headset socket)
- 69 microphone socket
- 70 built-in loudspeaker
- 71 indicator lamp (indicator light)
- 72 cassette compartment
- 73 forward wind, rewind, and stop  
buttons
- 74 time scale with indexing marks
- 75 time scale stop





- 1-11 main hall  
1 cashier's desk (cashier's counter)  
2 teller (cashier)  
3 bullet-proof glass  
4 service counters (for service and advice on savings accounts, private and company accounts, personal loans)  
5 bank clerk  
6 customer  
7 brochures  
8 stock list (price list, list of quotations)  
9 information counter  
10 foreign exchange counter  
11 entrance to strong room  
12 bill of exchange (bill); *here*: a draft, an acceptance (bank acceptance)  
13 place of issue  
14 date of issue  
15 place of payment  
16 date of maturity (due date)  
17 bill clause (draft clause)  
18 value  
19 payee (remittee)  
20 drawee (payer)  
21 drawer  
22 domiciliation (paying agent)  
23 acceptance  
24 Eurocheque card  
25 issuing bank (drawee bank)  
26 account number  
27 card number  
28 hologram, a white light hologram (rainbow hologram)  
29 (*on the back*;) magnetic strip

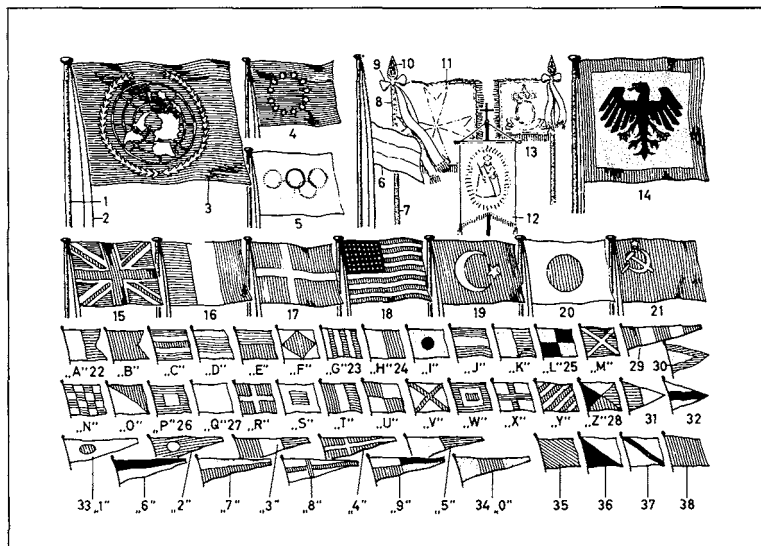


- 1-10 stock exchange  
1 exchange hall (exchange floor)  
2 market for securities  
3 broker's post  
4 sworn stockbroker (exchange broker, stockbroker, *Am.* specialist), an inside broker  
5 kerbstone broker (kerbstoner, curbstone broker, curbstoner, outside broker), a commercial broker dealing in unlisted securities  
6 member of the stock exchange (stockjobber, *Am.* floor trader, room trader)  
7 stock exchange agent (boardman), a bank employee  
8 quotation board  
9 index curve  
10 telephone box (telephone booth, telephone kiosk, call box)  
11-19 securities; *kinds*: share (*Am.* stock), fixed-income security, annuity, bond, debenture bond, municipal bond (corporation stock), industrial bond, convertible bond  
11 share certificate (*Am.* stock certificate); *here*: bearer share (share warrant)  
12 par (par value, nominal par, face par) of the share  
13 serial number  
14 page number of entry in bank's share register (bank's stock ledger)  
15 signature of the chairman of the board of governors  
16 signature of the chairman of the board of directors  
17 sheet of coupons (coupon sheet, dividend coupon sheet)  
18 dividend warrant (dividend coupon)  
19 talon

- 1-29 coins (coin, coinage, metal money, specie, *Am.* hard money); *kinds*: gold, silver, nickel, copper, or aluminium, *Am.* aluminum, coins
- 1 Athens: tetradrachm (tetradrachmon, tetradrachma)
- 2 the owl [emblem of the city of Athens]
- 3 aureus of Constantine the Great
- 4 bracteate of Emperor Frederick I Barbarossa
- 5 Louis XIV louis-d'or
- 6 Prussia: 1 reichstaler (speciestaler) of Frederick the Great
- 7 Federal Republic of Germany: 5 Deutschmarks (DM); 1 DM = 100 pfennigs
- 8 obverse
- 9 reverse (subordinate side)
- 10 mint mark (mintage, exergue)
- 11 legend (inscription on the edge of a coin)
- 12 device (type), a provincial coat of arms
- 13 Austria: 25 schillings; 1 sch = 100 groschen
- 14 provincial coats of arms
- 15 Switzerland: 5 francs; 1 franc = 100 centimes
- 16 France: 1 franc = 100 centimes
- 17 Belgium: 100 francs
- 18 Luxembourg (Luxemburg): 1 franc
- 19 Netherlands: 2 1/2 guilders; 1 guilder (florin, gulden) = 100 cents
- 20 Italy: 200 lire (sg. lira)
- 21 Vatican City: 100 lire (sg. lira)
- 22 Spain: 1 peseta = 100 céntimos
- 23 Portugal: 1 escudo = 100 centavos
- 24 Denmark: 1 krone = 100 öre
- 25 Sweden: 1 krona = 100 öre
- 26 Norway: 1 krone = 100 öre
- 27 Czechoslovakia: 1 koruna = 100 heller

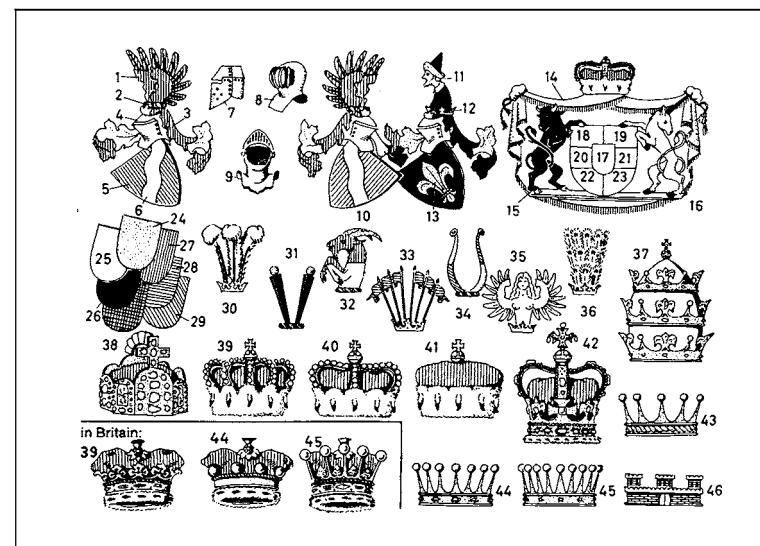
- 28 Yugoslavia: 1 dinar = 100 paras
- 29 United Kingdom of Great Britain and Northern Ireland: 1 pound sterling (£1) = 100 new pence (100 p) (sg. new penny, new p)
- 30-39 banknotes (*Am.* bills) (paper money, notes, treasury notes)
- 30 Federal Republic of Germany: 100 DM
- 31 bank of issue (bank of circulation)
- 32 watermark [a portrait]
- 33 denomination
- 34 USA: 1 dollar (\$) = 100 cents
- 35 facsimile signatures
- 36 impressed stamp
- 37 serial number
- 38 Greece: 1,000 drachmas (drachmae); 1 drachma = 100 lepta (sg. lepton)
- 39 portrait
- 40-44 striking of coins (coinage, mintage)
- 40, 41 coining dies (minting dies)
- 40 upper die
- 41 lower die
- 42 collar
- 43 coin disc (flan, planchet, blank)
- 44 coining press (minting press)





- 1-3 flag of the United Nations  
 1 flagpole (flagstaff) with truck  
 2 halyard (haliard, haulyard)  
 3 bunting  
 4 flag of the Council of Europe  
 5 Olympic flag  
 6 flag at half-mast (*Am.* at half-staff) [as a token of mourning]  
 7-11 flag  
 7 flagpole (flagstaff)  
 8 ornamental stud  
 9 streamer  
 10 pointed tip of the flagpole  
 11 bunting  
 12 banner (gonfalon)  
 13 cavalry standard (flag of the cavalry)  
 14 standard of the German Federal President [ensign of head of state]  
 15-21 national flags  
 15 the Union Jack (Great Britain)  
 16 the Tricolour (*Am.* Tricolor) (France)  
 17 the Danebrog (Dannebrog) (Denmark)  
 18 the Stars and Stripes (Star-Spangled Banner) (USA)  
 19 the Crescent (Turkey)  
 20 the Rising Sun (Japan)  
 21 the Hammer and Sickle (USSR)

- 22-34 signal flags, a hoist  
 22-28 letter flags  
 22 letter A, a burgee (swallow-tailed flag)  
 23 G, pilot flag  
 24 H ('pilot on board')  
 25 L ('you should stop, I have something important to communicate')  
 26 P, the Blue Peter ('about to set sail')  
 27 W ('I require medical assistance')  
 28 Z, an oblong pennant (oblong pendant)  
 29 code pennant (code pendant), used in the International Signals Code  
 30-32 substitute flags (repeaters), triangular flags (pennants, pendants)  
 33, 34 numeral pennants (numeral pendants)  
 33 number 1  
 34 number 0  
 35-38 customs flags  
 35 customs boat pennant (customs boat pendant)  
 36 'ship cleared through customs'  
 37 customs signal flag  
 38 powder flag ['inflammable (flammable) cargo']



- 1-36 heraldry (blazonry)  
 1, 11, 30-36 crests  
 1-6 coat-of-arms (achievement of arms, hatchment, achievement)  
 1 crest  
 2 wreath of the colours (*Am.* colors)  
 3 mantle (mantling)  
 4, 7-9 helmets (helms)  
 4 tilting helmet (jousting helmet)  
 5 shield  
 6 bend sinister wavy  
 7 pot-helmet (pot-helm, heaume)  
 8 barred helmet (grilled helmet)  
 9 helmet affronty with visor open  
 10-13 marital achievement (marshalled, *Am.* marshaled, coat-of-arms)  
 10 arms of the baron (of the husband)  
 11-13 arms of the family of the femme (of the wife)  
 11 demi-man; *also*: demi-woman  
 12 crest coronet  
 13 fleur-de-lis  
 14 heraldic tent (mantling)  
 15, 16 supporters (heraldic beasts)  
 15 bull  
 16 unicorn  
 17-23 blazon  
 17 inescutcheon (heart-shield)  
 18-23 quarterings one to six  
 18, 20, 22 dexter (right)  
 18, 19 chief

- 19, 21, 23 sinister (left)  
 22, 23 base  
 24-29 tinctures  
 24, 25 metals  
 24 or (gold) [yellow]  
 25 argent (silver) [white]  
 26 sable  
 27 gules  
 28 azure  
 29 vert  
 30 ostrich feathers (treble plume)  
 31 truncheon  
 32 demi-goat  
 33 tournament pennons  
 34 buffalo horns  
 35 harpy  
 36 plume of peacock's feathers  
 37, 38, 42-46 crowns and coronets [continental type]  
 37 tiara (papal tiara)  
 38 Imperial Crown [German, until 1806]  
 39 ducal coronet (duke's coronet)  
 40 prince's coronet  
 41 elector's coronet  
 42 English Royal Crown  
 43-45 coronets of rank  
 43 baronet's coronet  
 44 baron's coronet (baronial coronet)  
 45 count's coronet  
 46 mauerkrone (mural crown) of a city crest



- 1-96 army armament (army weaponry)

1-28 hand weapons

1 P1 pistol

2 barrel

3 front sight (foresight)

4 hammer

5 trigger

6 pistol grip

7 magazine holder

8 MP2 submachine gun

9 shoulder rest (butt)

10 casing (mechanism casing)

11 barrel clamp (barrel-clamping nut)

12 cocking lever (cocking handle)

13 palm rest

14 safety catch

15 magazine

16 G3-A3 self-loading rifle

17 flash hider (flash eliminator)

18 trigger mechanism

19 notch (sighting notch, rear sight)

20 front sight block (foresight block) with front sight (foresight)

21 rifle butt (butt)

22 44 2A1 light anti-tank rocket launcher

23 rocket (projectile)

24 telescopic sight (telescope sight)

25 cheek rest

26 MG3 machine gun (Spandau)

27 recoil booster

28 belt-changing flap

29-61 artillery weapons mounted on self-propelled gun carriages

29 SFM 110 A2 self-propelled howitzer

30-32 gun carriage

30 drive wheel

31 track

32 road wheel

33 hull

34 spade

35 spade piston

36 hydraulic system

37 elevating piston

38 breech ring

39 barrel

40 muzzle

41 buffer (buffer recuperator)

42 M 109 A3 G self-propelled howitzer

43 armoured (Am. armored) turret

44 fighting compartment

45 barrel clamp

46 fume extractor

47 barrel recuperator

48 light anti-aircraft (AA) machine gun

49 SF Lance missile launch system (missile launcher)

50 skirt

51 tracked vehicle

52 missile (guided missile)

53 elevating gear

54 launching ramp

55 110 SF 2 rocket launcher

56 fire control system

57 launching tubes

58 tube bins

59 turntable

60 jack

61 driver's cab

62-87 armoured (Am. armored) vehicles

62 Leopard 2 tank

63 smooth-barrelled gun

64 driver's hatch

65 commander's periscope

66 smoke canister (smoke dispenser)

67 Luchs armoured (Am. armored) reconnaissance vehicle, an amphibious vehicle

68 cannon

69 hatch

70 antenna

71 propeller (for propulsion in water)

72 Jagdpanzer Jaguar 1 ATGW vehicle (HOT)

73 guidance system (upper part) with guidance unit

74 HOT guided-missile launcher

75 firing mechanism (upper part)

76 commander's cupola

77 Marder armoured (Am. armored) personnel carrier

78 searchlight

79 MILAN anti-tank guided-missile system

80 Fuchs armoured (Am. armored) personnel and load carrier, an amphibious vehicle

81 rear door

82 Gepard anti-aircraft tank

83 surveillance radar

84 tracking radar for fire control

85 twin 35 mm cannon

86 M113 A1 G armoured (Am. armored) personnel carrier

87 machine gun on a traversing mount

88-96 helicopters

88 CH-53 G transport helicopter

89 single rotor

90 turbine

91 stabilizing tail rotor

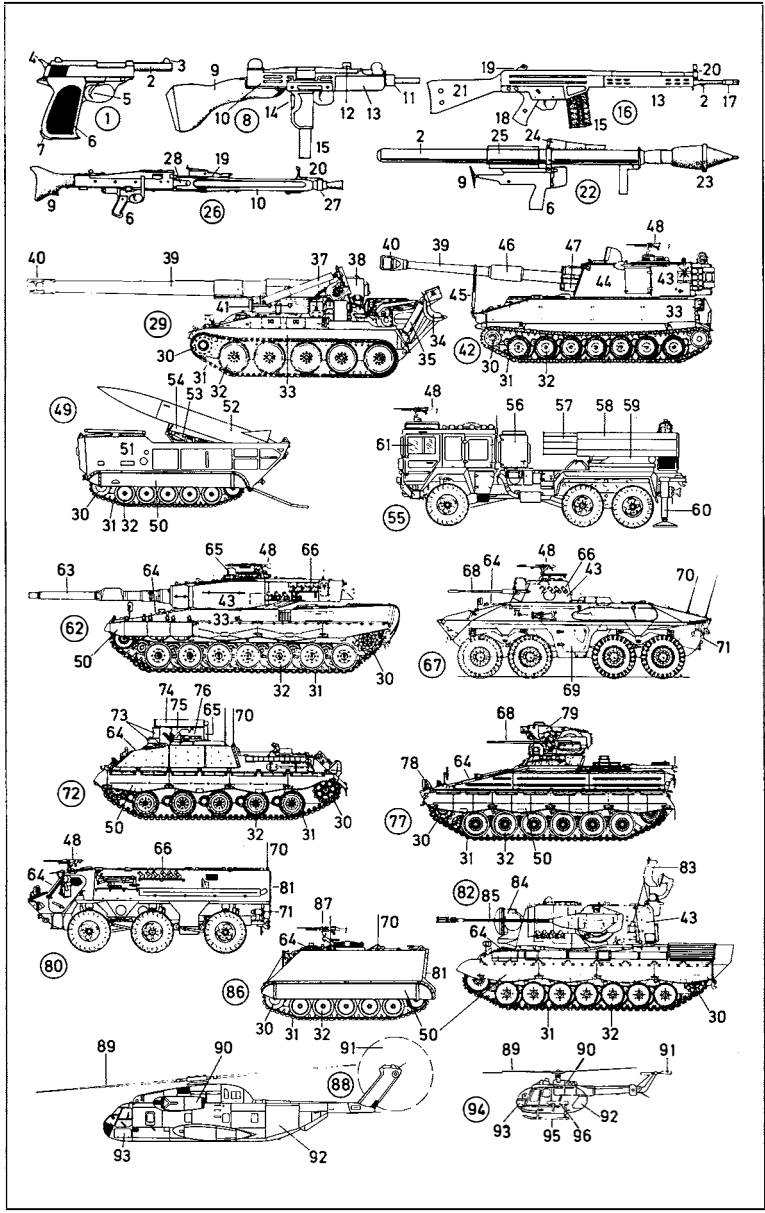
92 fuselage

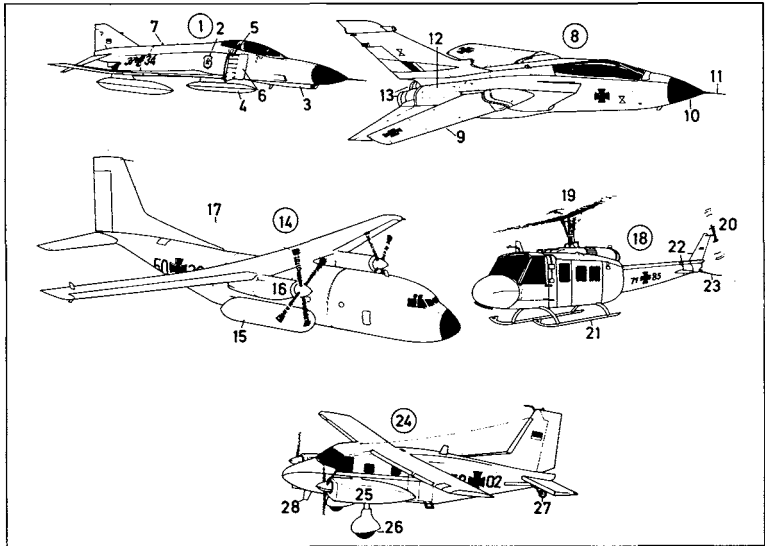
93 cockpit

94 BO-105P anti-tank helicopter

95 skid

96 HOT anti-tank guided-missile launcher





- 1 McDonnell-Douglas F-4F Phantom II interceptor and fighter-bomber

2 squadron marking

3 aircraft cannon

4 wing tank (underwing tank)

5 air intake

6 boundary layer control flap

7 in-flight refuelling (Am. refueling) probe (flight refuelling probe, air refuelling probe)

8 Panavia 2000 Tornado multirole combat aircraft (MRCA)

9 swing wing

10 radar nose (radome, radar dome)

11 pitot-static tube (pitot tube)

12 brake flap (air brake)

13 afterburner exhaust nozzles of the engines

14 C160 Transall medium-range transport aircraft

15 undercarriage housing (landing gear housing)
- 16 propeller-turbine engine (turbo-prop engine)

17 antenna

18 Bell UH-1D Iroquois light transport and rescue helicopter

19 main rotor

20 tail rotor

21 landing skids

22 stabilizing fins (stabilizing surfaces, stabilizers)

23 tailskid

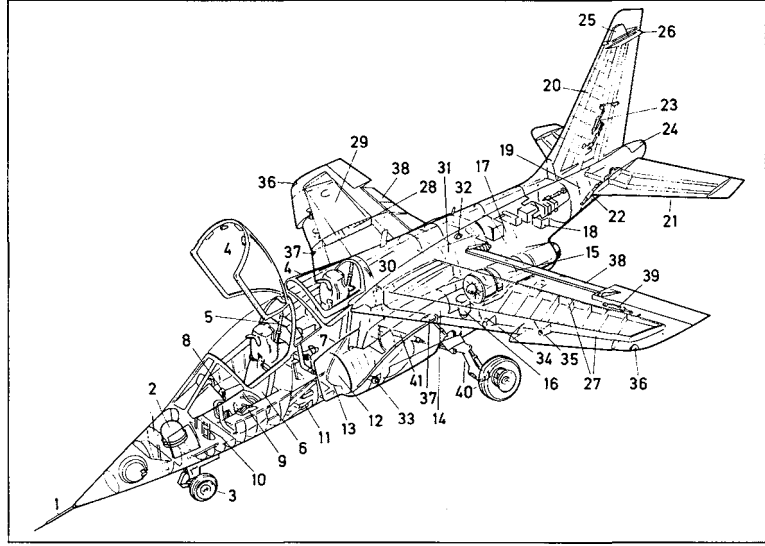
24 Dornier DO 28 D-2 Skyservant transport and communications aircraft

25 engine pod

26 main undercarriage unit (main landing gear unit)

27 tail wheel

28 sword antenna



- 1-41 Dornier-Dassault-Breguet Alpha Jet Franco-German jet trainer

1 pitot-static tube (pitot tube)

2 oxygen tank

3 forward-retracting nose wheel

4 cockpit canopy (cockpit hood)

5 canopy jack

6 pilot's seat (student pilot's seat), an ejector seat (ejection seat)

7 observer's seat (instructor's seat), an ejector seat (ejection seat)

8 control column (control stick)

9 thrust lever

10 rudder pedals with brakes

11 front avionics bay

12 air intake to the engine

13 boundary layer control flap

14 air intake duct

15 turbine engine

16 reservoir for the hydraulic system

17 battery housing

18 rear avionics bay

19 baggage compartment

20 triple-spar tail construction

21 horizontal tail

22 servo-actuating mechanism for the elevator
- 23 servo-actuating mechanism for the rudder

24 brake chute housing (drag chute housing)

25 VHF (very high frequency) antenna (UHF antenna)

26 VOR (very high frequency omnidirectional range) antenna

27 twin-spar wing construction

28 former with integral spars

29 integral wing tanks

30 centre-section (Am. center-section) fuel tank

31 fuselage tanks

32 gravity fuelling (Am. fueling) point

33 pressure fuelling (Am. fueling) point

34 inner wing suspension

35 outer wing suspension

36 navigation lights (position lights)

37 landing lights

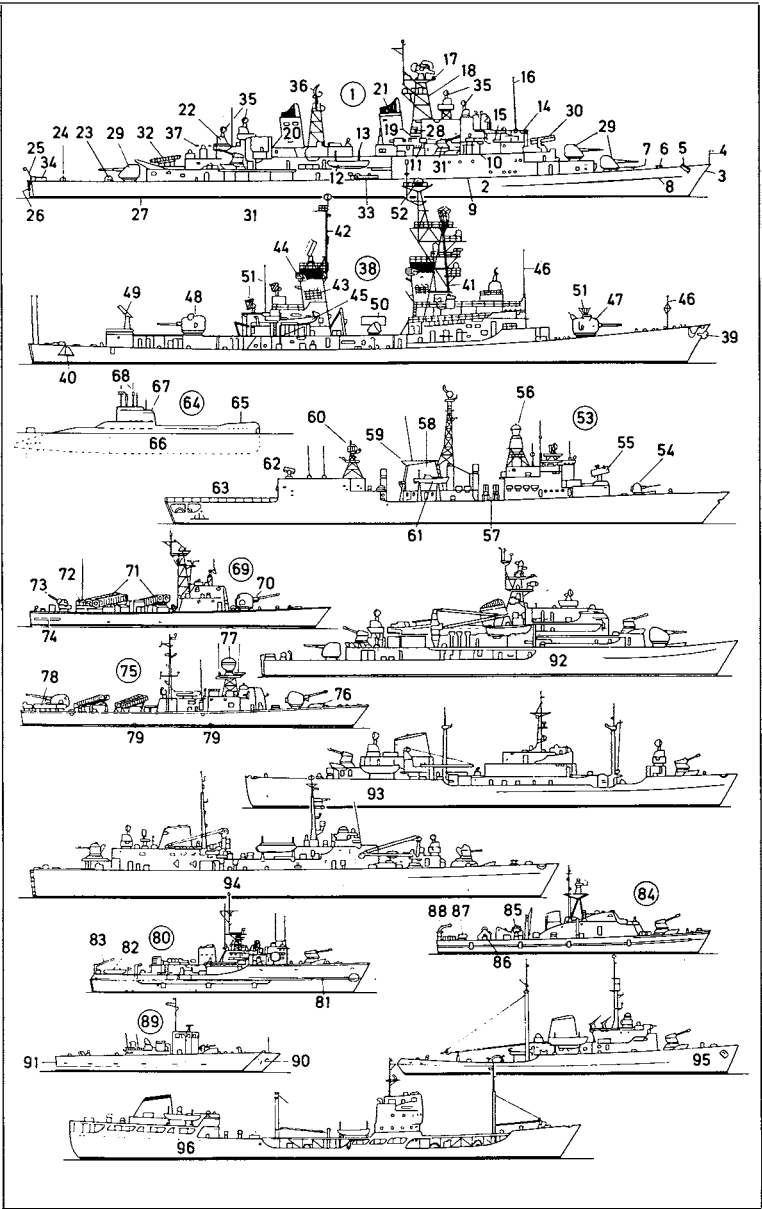
38 landing flap

39 aileron actuator

40 forward-retracting main undercarriage unit (main landing gear unit)

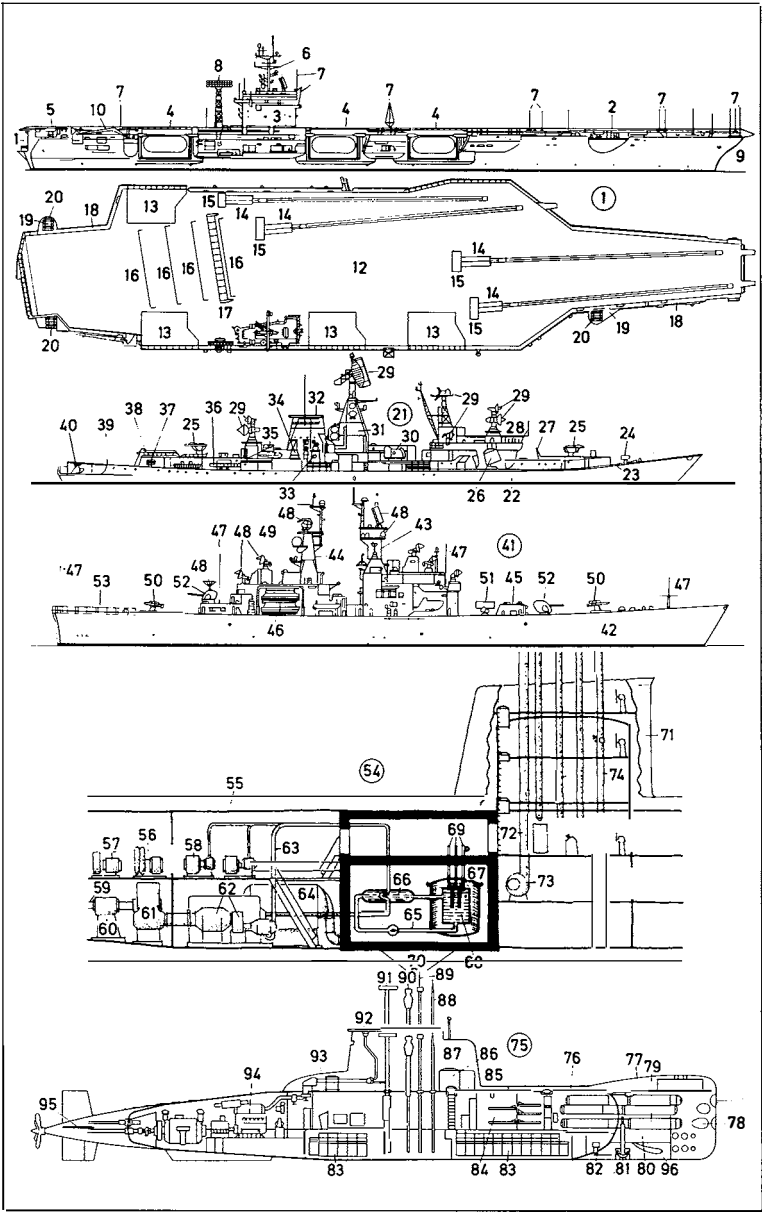
41 undercarriage hydraulic cylinder (landing gear hydraulic cylinder)

- 1
Hamburg class **guided-missile destroyer**
2
hull of flush-deck vessel
3
bow (stem)
4
flagstaff (jackstaff)
5
anchor, a stockless anchor (patent anchor)
6
anchor capstan (windlass)
7
breakwater (*Am.* manger board)
8
chine strake
9
main deck
10-28
superstructures
10
superstructure deck
11
life rafts
12
cutter (ship's boat)
13
davit (boat-launching crane)
14
bridge (bridge superstructure)
15
side navigation light (side running light)
16
antenna
17
radio direction finder (RDF) frame
18
lattice mast
19
forward funnel
20
aft funnel
21
cowl
22
aft superstructure (poop)
23
capstan
24
companion ladder (companionway, companion hatch)
25
ensign staff
26
stern, a transom stern
27
waterline
28
searchlight
29-37
armament
29
100 mm gun turret
30
four-barrel anti-submarine rocket launcher (missile launcher)
31
40 mm twin anti-aircraft (AA) gun
32
MM 38 anti-aircraft (AA) rocket launcher (missile launcher) in launching container
33
anti-submarine torpedo tube
34
depth-charge thrower
35
weapon system radar
36
radar antenna (radar scanner)
37
optical rangefinder
38
Lütjens class **guided-missile destroyer**
39
bower anchor
40
propeller guard
41
tripod lattice mast
42
pole mast
43
ventilator openings (ventilator grill)
44
exhaust pipe
45
ship's boat
46
antenna
47
radar-controlled 127 mm all-purpose gun in turret
48
127 mm all-purpose gun
49
launcher for Tartar missiles
50
anti-submarine rocket (ASROC) launcher (missile launcher)
51
fire control radar antennas
52
radome (radar dome)
53
Bremen class **frigate**
54
radar-controlled 76 mm rapid-fire gun
55
Sea Sparrow surface-to-air missiles
56
radar and fire control system
57
Harpoon surface-to-surface missiles
58
funnel
59
cowl
60
air/surface search radar
61
cutter
62
close-range surface-to-air missiles
63
helicopter deck
64
type 206 **submarine**
65
flooded foredeck
66
pressure hull
67
turret
68
retractable instruments
69
type 148 **missile-firing fast attack craft**
70
76 mm all-purpose gun with turret
71
missile-launching housing
72
deckhouse
73
40 mm anti-aircraft (AA) gun
74
propeller guard moulding (*Am.* molding)
75
type 143 **missile-firing fast attack craft**
76
breakwater (*Am.* manger board)
77
radome (radar dome)
78
torpedo tube
79
exhaust escape flue
80
type 331 **mine hunter**
81
reinforced rubbing strake
82
inflatable boat (inflatable dinghy)
83
davit
84
type 341 **minesweeper**
85
cable winch
86
towing winch (towing machine, towing engine)
87
mine-sweeping gear (paravanes)
88
crane (davit)
89
Barbe class **landing craft**
90
bow ramp
91
stern ramp
92
Rhein class **tender**
93
Lüneburg class **support ship**
94
Sachsenwald class **mine transport**
95
Helgoland class **salvage tug**
96
**replenishment tanker** 'Eifel'



- 1 nuclear-powered aircraft carrier *Nimitz* *ICV N68* (USA)
- 2-11 body plan
- 2 flight deck
- 3 island (bridge)
- 4 aircraft lift (*Am.* aircraft elevator)
- 5 eight-barrel anti-aircraft (AA) rocket launcher (missile launcher)
- 6 pole mast (antenna mast)
- 7 antenna
- 8 radar antenna (radar scanner)
- 9 fully enclosed bow
- 10 deck crane
- 11 transom stern
- 12-20 deck plan
- 12 angle deck (flight deck)
- 13 aircraft lift (*Am.* aircraft elevator)
- 14 twin launching catapult
- 15 hinged (movable) baffle board
- 16 arrestor wire
- 17 emergency crash barrier
- 18 safety net
- 19 caisson (cofferdam)
- 20 eight-barrel anti-aircraft (AA) rocket launcher (missile launcher)
- 21 *Kara class* rocket cruiser (missile cruiser) (USSR)
- 22 hull of flush-deck vessel
- 23 sheer
- 24 twelve-barrel underwater salvo rocket launcher (missile launcher)
- 25 twin anti-aircraft (AA) rocket launcher (missile launcher)
- 26 launching housing for 4 short-range rockets (missiles)
- 27 baffle board
- 28 bridge
- 29 radar antenna (radar scanner)
- 30 twin 76 mm anti-aircraft (AA) gun turret
- 31 turret
- 32 funnel
- 33 twin anti-aircraft (AA) rocket launcher (missile launcher)
- 34 automatic anti-aircraft (AA) gun
- 35 ship's boat
- 36 underwater 5-torpedo housing
- 37 underwater 6-salvo rocket launcher (missile launcher)
- 38 helicopter hangar
- 39 helicopter landing platform
- 40 variable depth sonar (VDS)
- 41 *California class* rocket cruiser (missile cruiser) (USA)
- 42 hull
- 43 forward turret
- 44 aft turret
- 45 forward superstructure
- 46 landing craft
- 47 antenna

- 48 radar antenna (radar scanner)
- 49 radome (radar dome)
- 50 surface-to-air rocket launcher (missile launcher)
- 51 underwater rocket launcher (missile launcher)
- 52 127 mm gun with turret
- 53 helicopter landing platform
- 54 nuclear-powered fleet submarine
- 55-74 middle section [diagram]
- 55 pressure hull
- 56 auxiliary engine room
- 57 rotary turbine pump
- 58 steam turbine generator
- 59 propeller shaft
- 60 thrust block
- 61 reduction gear
- 62 high and low pressure turbine
- 63 high-pressure steam pipe for the secondary water circuit (auxiliary water circuit)
- 64 condenser
- 65 primary water circuit
- 66 heat exchanger
- 67 nuclear reactor casing (atomic pile casing)
- 68 reactor core
- 69 control rods
- 70 lead screen
- 71 turret
- 72 snorkel (schnorkel)
- 73 air inlet
- 74 retractable instruments
- 75 patrol submarine with conventional (diesel-electric) drive
- 76 pressure hull
- 77 flooded foredeck
- 78 outer flap (outer doors) [for torpedoes]
- 79 torpedo tube
- 80 bow bilge
- 81 anchor
- 82 anchor winch
- 83 battery
- 84 living quarters with folding bunks
- 85 commanding officer's cabin
- 86 main hatchway
- 87 flagstaff
- 88-91 retractable instruments
- 88 attack periscope
- 89 antenna
- 90 snorkel (schnorkel)
- 91 radar antenna (radar scanner)
- 92 exhaust outlet
- 93 heat space (hot-pipe space)
- 94 diesel generators
- 95 aft diving plane and vertical rudder
- 96 forward vertical rudder

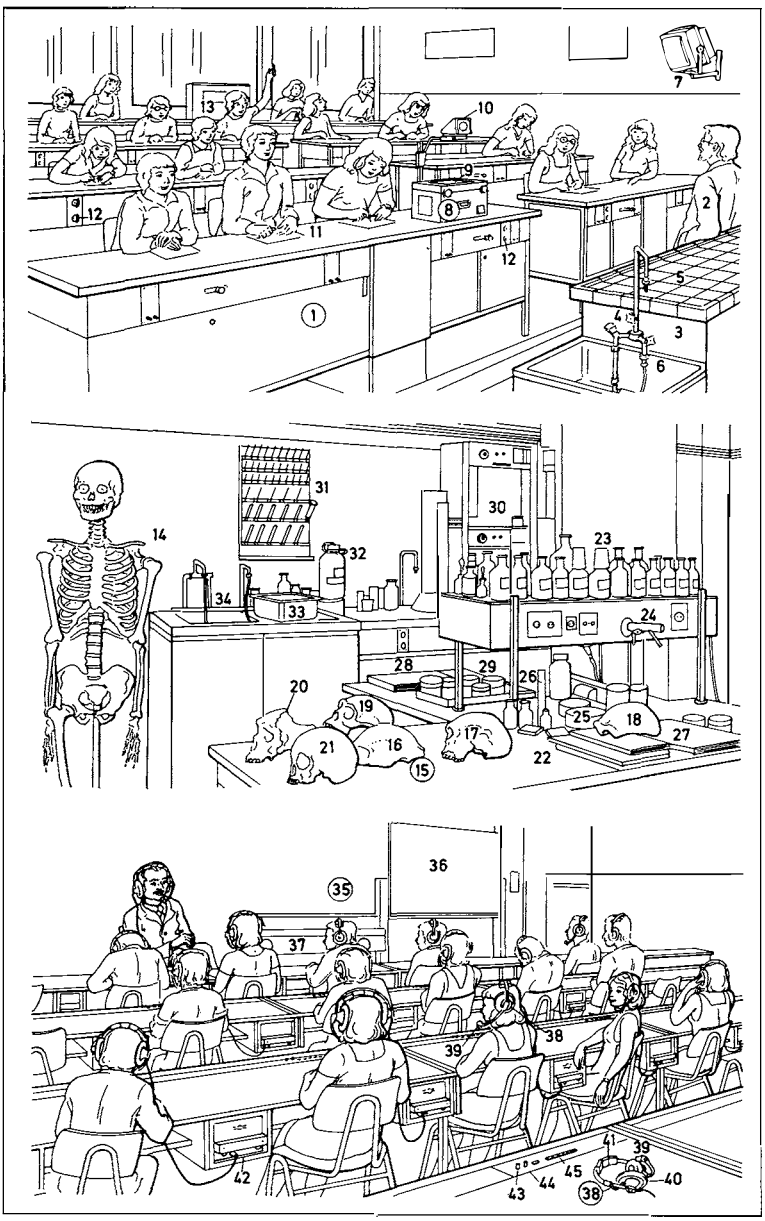


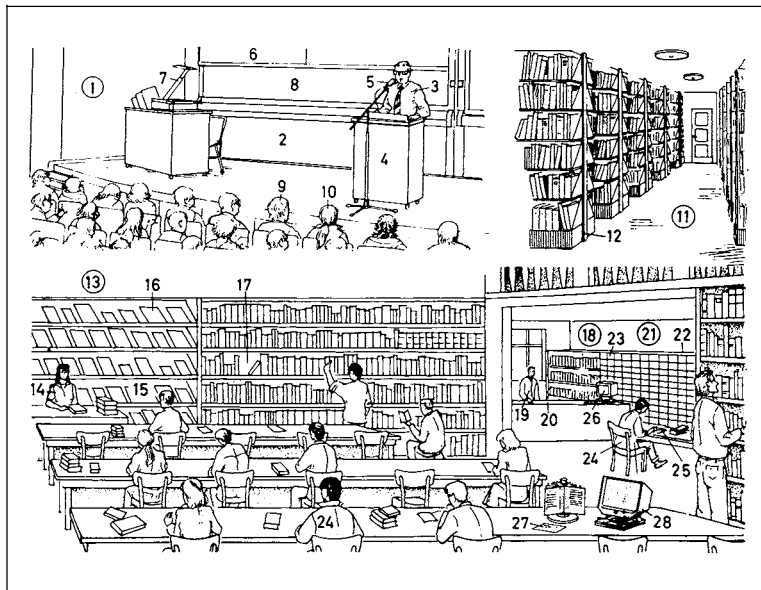
- 1-85
primary school
- 1-45
classroom
- arrangement of desks in a horse-shoe
  - double desk
  - pupils (children) in a group (sitting in a group)
  - exercise book
  - pencil
  - wax crayon
  - school bag
  - handle
  - school satchel (satchel)
  - front pocket
  - strap (shoulder strap)
  - pen and pencil case
  - zip (*Am.* zipper)
  - fountain pen (pen)
  - loose-leaf file (ring file)
  - reader
  - spelling book
  - exercise book (notebook)
  - felt tip pen
  - pupil raising her hand
  - teacher
  - teacher's desk
  - register
  - pen and pencil tray
  - desk mat (blotter)
  - window painting with finger paints (finger painting)
  - pupils' (children's) paintings (watercolours, *Am.* watercolors)
  - cross
  - three-part blackboard
  - bracket for holding charts
  - chalk ledge
  - chalk
  - blackboard drawing
  - diagram
  - reversible side blackboard
  - projection screen
  - triangle
  - protractor
  - divisions
  - blackboard compass
  - sponge tray
  - blackboard sponge (sponge)
  - classroom cupboard
  - map (wall map)

- brick wall
- craft room
- workbench
- vice (*Am.* vise)
- vice (*Am.* vise) bar
- scissors
- working with glue (sticking paper, cardboard, etc.)
- surface to be glued
- tube of glue
- tube cap
- fretsaw
- fretsaw blade (saw blade)
- wood rasp (rasp)
- piece of wood held in the vice (*Am.* vise)
- glue pot
- stool
- brush
- pan (dustpan)
- broken china
- enamelling (*Am.* enameling)
- electric enamelling (*Am.* enameling) stove
- unworked copper
- enamel powder
- hair sieve
- pupils' (children's) work
- clay models (models)
- window decoration of coloured (*Am.* colored) glass
- glass mosaic picture (glass mosaic)
- mobile
- paper kite (kite)
- wooden construction
- polyhedron
- hand puppets
- clay masks
- cast candles (wax candles)
- wood carving
- clay jug
- geometrical shapes made of clay
- wooden toys
- materials
- stock of wood
- inks for wood cuts
- paintbrushes
- bag of plaster of Paris

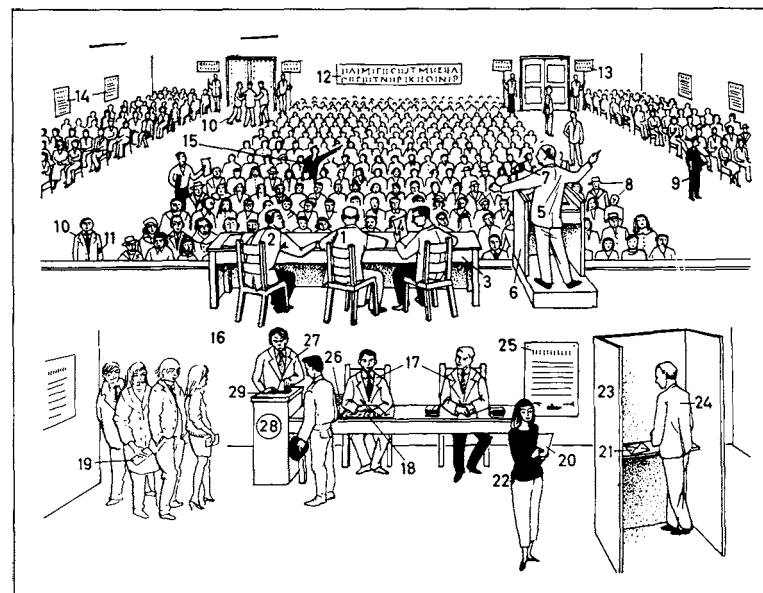


- 1-45
grammar school; also: upper band of a comprehensive school (Am. alternative school)
- 1-13
chemistry
- 1
chemistry lab (chemistry laboratory) with tiered rows of seats
- 2
chemistry teacher
- 3
demonstration bench (teacher's bench)
- 4
water pipe
- 5
tiled working surface
- 6
sink
- 7
television monitor, a screen for educational programmes (Am. programs)
- 8
overhead projector
- 9
projector top for skins
- 10
projection lens with right-angle mirror
- 11
pupils' (Am. students') bench with experimental apparatus
- 12
electrical point (socket)
- 13
projection table
- 14-34
biology preparation room (biology prep room)
- 14
skeleton
- 15
casts of skulls
- 16
calvarium of Pithecanthropus erectus
- 17
skull of Steinheim man
- 18
calvarium of Peking man (of Sinanthropus)
- 19
skull of Neanderthal man, a skull of primitive man
- 20
Australopithecine skull (skull of Australopithecus)
- 21
skull of present-day man
- 22
dissecting bench
- 23
chemical bottles
- 24
gas tap
- 25
petri dish
- 26
measuring cylinder
- 27
work folder containing teaching material
- 28
textbook
- 29
bacteriological cultures
- 30
incubator
- 31
test tube rack
- 32
washing bottle
- 33
water tank
- 34
sink
- 35
language laboratory
- 36
blackboard
- 37
console
- 38
headphones (headset)
- 39
microphone
- 40
earcup
- 41
padded headband (padded headpiece)
- 42
programme (Am. program) recorder, a cassette recorder
- 43
pupil's (Am. student's) volume control
- 44
master volume control
- 45
control buttons (operating keys)

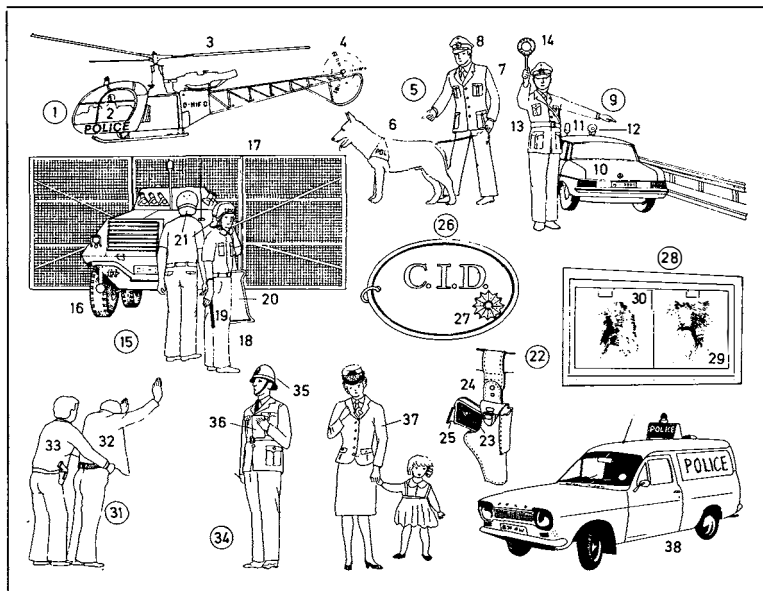


**1-28 university (college)**

- 1 lecture
- 2 lecture room (lecture theatre, *Am.* theater)
- 3 university lecturer (lecturer, college lecturer, *Am.* assistant professor)
- 4 lectern
- 5 microphone
- 6 remote-controlled blackboard
- 7 overhead projector
- 8 projection screen for projecting pictures by means of a film projector, slide projector, or an epidiascope
- 9, 10 students
- 11-28 university library; *sim.*: national library, regional or municipal scientific library
- 11 stack (book stack) with the stock of books
- 12 bookshelf, a steel shelf
- 13 reading room
- 14 member of the reading room staff, a librarian
- 15 periodicals rack with periodicals
- 16 newspaper shelf
- 17 reference library with reference books (handbooks, encyclopedias, dictionaries)
- 18 lending library and catalogue (*Am.* catalog) room
- 19 librarian
- 20 issue desk
- 21 main catalogue (*Am.* catalog)
- 22 card catalogue (*Am.* catalog)
- 23 card catalogue (*Am.* catalog) drawer
- 24 library user
- 25 borrower's ticket (library ticket)
- 26 issue terminal
- 27 microfiche (fiche)
- 28 microfiche reader

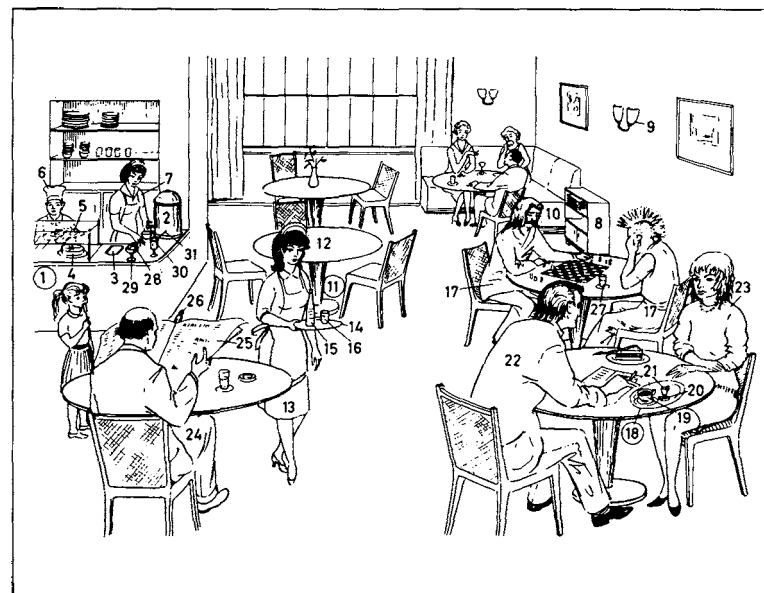
**1-15 election meeting, a public meeting**

- 1, 2 committee
- 1 chairman
- 2 committee member
- 3 committee table
- 4 pamphlet
- 5 election speaker (speaker)
- 6 rostrum
- 7 microphone
- 8 meeting (audience)
- 9 man distributing leaflets
- 10 stewards
- 11 armband (armlet)
- 12 banner
- 13 placard
- 14 proclamation
- 15 heckler
- 16-29 election
- 16 polling station (polling place)
- 17 polling officers
- 18 electoral list
- 19 polling card with registration number (polling number)
- 20 ballot paper with the names of the parties and candidates
- 21 ballot envelope
- 22 voter
- 23 polling booth
- 24 elector (qualified voter)
- 25 election regulations
- 26 electoral register
- 27 election supervisor
- 28 ballot box
- 29 slot



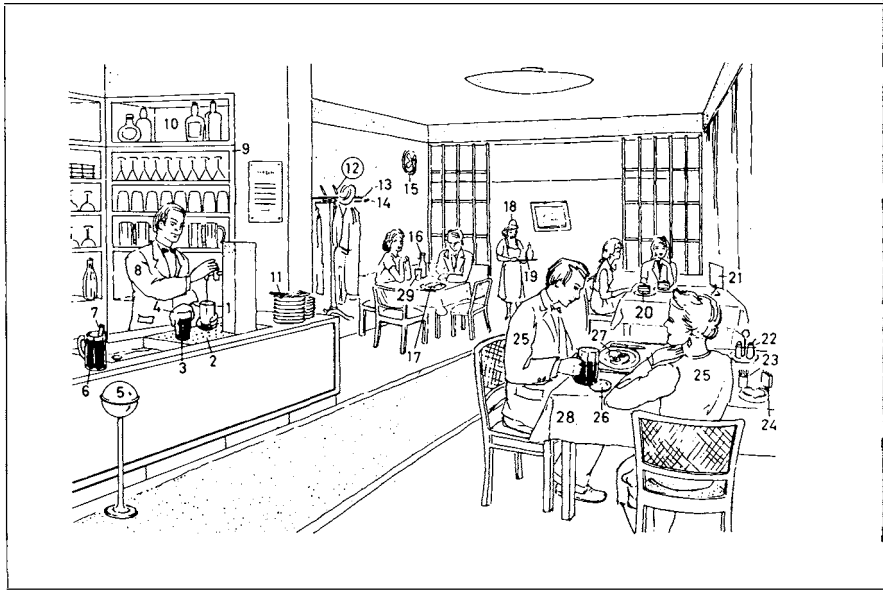
**1-33 police duties**

- |           |  |           |  |
|-----------|--|-----------|--|
| <b>1</b>  | <b>police helicopter</b> (traffic helicopter) for controlling traffic from the air |           |  |
| <b>2</b>  | cockpit  | <b>19</b> | truncheon (baton)                                |
| <b>3</b>  | rotor (main rotor)   | <b>20</b> | riot shield                                      |
| <b>4</b>  | tail rotor   | <b>21</b> | protective helmet (helmet)                       |
| <b>5</b>  | <b>use of police dogs</b>  | <b>22</b> | <b>service pistol</b>                            |
| <b>6</b>  | police dog   | <b>23</b> | pistol grip                                      |
| <b>7</b>  | uniform  | <b>24</b> | quick-draw holster                               |
| <b>8</b>  | uniform cap, a peaked cap with cockade   | <b>25</b> | magazine   |
| <b>9</b>  | <b>traffic control</b> by a mobile traffic patrol                                  | <b>26</b> | <b>police identification disc (disk)</b>         |
| <b>10</b> | patrol car   | <b>27</b> | police badge                                     |
| <b>11</b> | blue light   | <b>28</b> | <b>fingerprint identification</b> (dactyloscopy) |
| <b>12</b> | loud hailer (loudspeaker)  | <b>29</b> | fingerprint                                      |
| <b>13</b> | patrolman (police patrolman)   | <b>30</b> | illuminated screen                               |
| <b>14</b> | police signalling ( <i>Am.</i> signaling) disc (disk)                              | <b>31</b> | <b>search</b>                                    |
| <b>15</b> | <b>riot duty</b>   | <b>32</b> | suspect  |
| <b>16</b> | special armoured ( <i>Am.</i> armored) car   | <b>33</b> | detective (plainclothes policeman)               |
| <b>17</b> | barricade  | <b>34</b> | English policeman                                |
|           |  | <b>35</b> | helmet   |
|           |  | <b>36</b> | pocket book                                      |
|           |  | <b>37</b> | policewoman                                      |
|           |  | <b>38</b> | police van                                       |

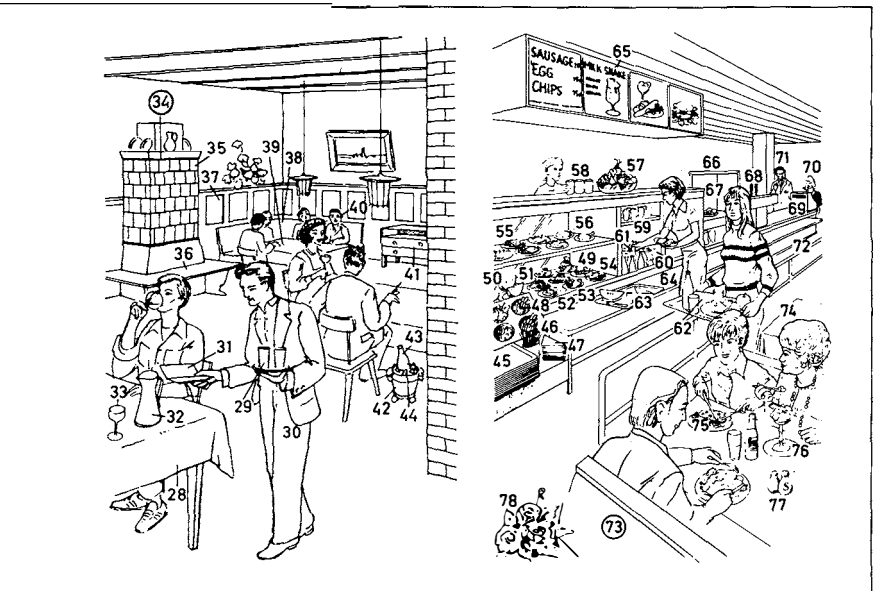


- |  |  |
|--|--|
| <b>1-31</b> <b>café</b> ; <i>sim.</i> : espresso bar, tea room, ice-cream parlour ( <i>Am.</i> parlor) | <b>19</b> cup of coffee  |
| <b>1</b> counter (cake counter)  | <b>20</b> small sugar bowl                                     |
| <b>2</b> coffee urn  | <b>21</b> cream jug ( <i>Am.</i> creamer)                      |
| <b>3</b> tray for the money  | <b>22-24</b> café customers                                    |
| <b>4</b> gâteau  | <b>22</b> gentleman  |
| <b>5</b> meringue with whipped cream   | <b>23</b> lady   |
| <b>6</b> trainee pastry cook   | <b>24</b> man reading a newspaper                              |
| <b>7</b> counter assistant   | <b>25</b> newspaper  |
| <b>8</b> newspaper shelves (newspaper rack)  | <b>26</b> newspaper holder                                     |
| <b>9</b> wall lamp   | <b>27</b> espresso   |
| <b>10</b> corner seat, an upholstered seat   | <b>28</b> ice cream in assorted flavours ( <i>Am.</i> flavors) |
| <b>11</b> café table   | <b>29</b> ice-cream dish (sundae dish)                         |
| <b>12</b> marble top   | <b>30</b> iced coffee  |
| <b>13</b> waitress   | <b>31</b> (drinking) straw                                     |
| <b>14</b> tray   |  |
| <b>15</b> bottle of lemonade   |  |
| <b>16</b> lemonade glass   |  |
| <b>17</b> chess players playing a game of chess  |  |
| <b>18</b> coffee set   |  |

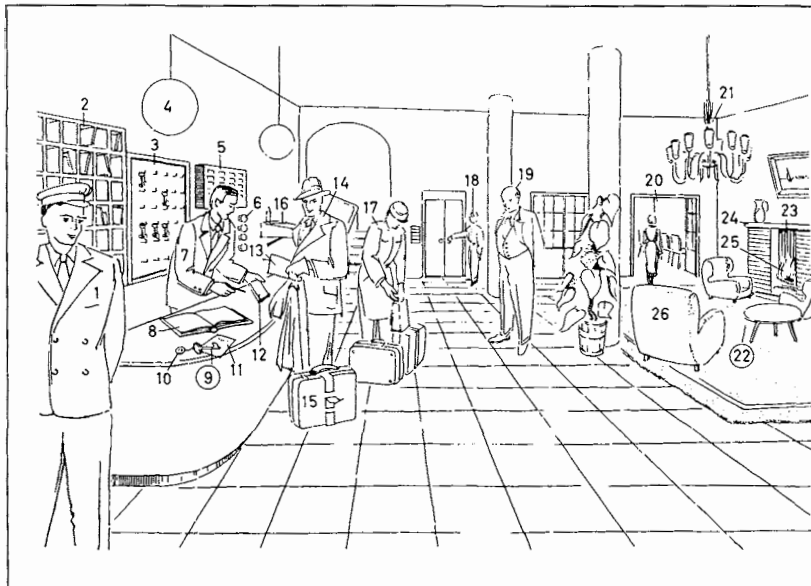




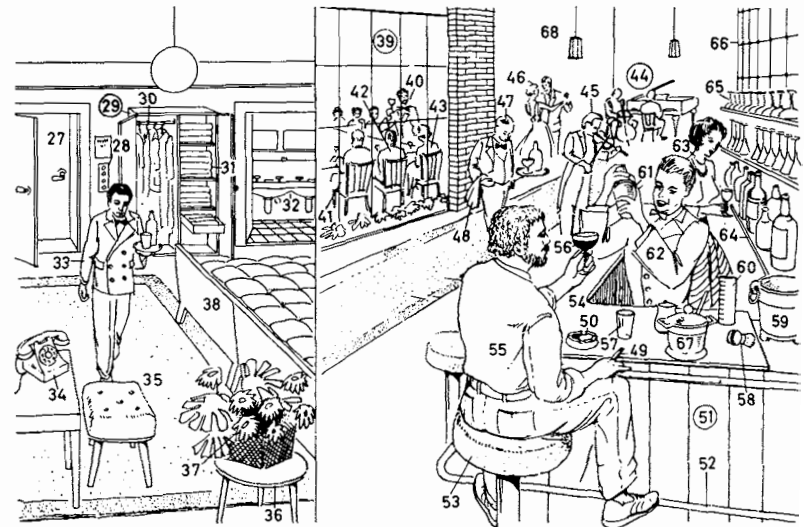
- 1-27 restaurant
- 1-11 bar (counter)
- 1 beer pump (beerpull)
- 2 drip tray
- 3 beer glass
- 4 froth (head)
- 5 spherical ashtray for cigarette and cigar ash
- 6 beer glass (beer mug)
- 7 beer warmer
- 8 bartender (barman, *Am.* barkeeper, barkeep)
- 9 shelf for glasses
- 10 shelf for bottles
- 11 stack of plates
- 12 coat stand
- 13 hat peg
- 14 coat hook
- 15 wall ventilator
- 16 bottle
- 17 complete meal
- 18 waitress
- 19 tray
- 20 dessert, a slice of cake
- 21 menu (menu card)
- 22 cruet stand
- 23 toothpick holder
- 24 matchbox holder
- 25 customer
- 26 beer mat
- 27 meal of the day
- 28-44 wine restaurant (wine bar)
- 28 tablecloth
- 29 glass of water
- 30 wine waiter, a head waiter
- 31 wine list
- 32 wine carafe
- 33 wineglass
- 34 tiled stove
- 35 stove tile
- 36 stove bench
- 37 wooden panelling (*Am.* paneling)
- 38 corner seat
- 39 table reserved for regular customers
- 40 regular customer

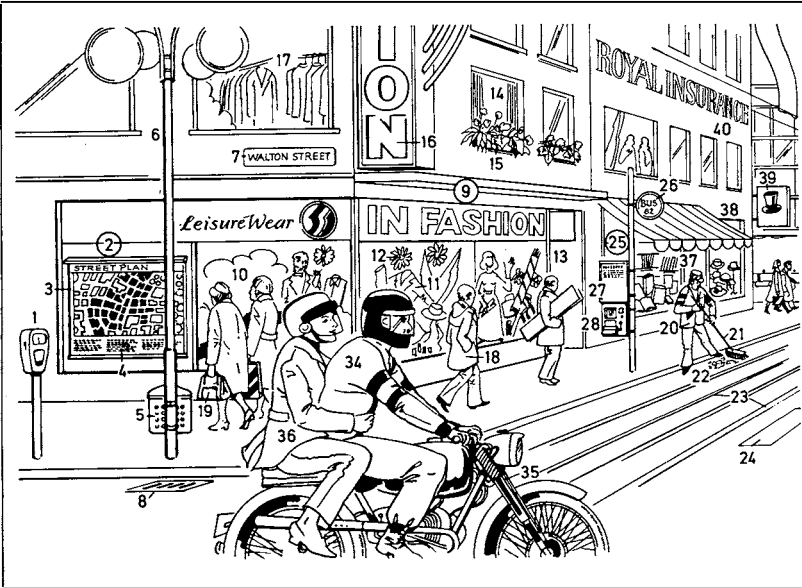


- 41 cutlery chest
- 42 wine cooler
- 43 bottle of wine
- 44 ice cubes (ice, lumps of ice)
- 45-78 self-service restaurant
- 45 stack of trays
- 46 drinking straws (straws)
- 47 serviettes (napkins)
- 48 cutlery holders
- 49 cool shelf
- 50 slice of honeydew melon
- 51 plate of salad
- 52 plate of cheeses
- 53 fish dish
- 54 filled roll
- 55 meat dish with trimmings
- 56 half chicken
- 57 basket of fruit
- 58 fruit juice
- 59 drinks shelf
- 60 bottle of milk
- 61 bottle of mineral water
- 62 vegetarian meal (diet meal)
- 63 tray
- 64 tray counter
- 65 food price list
- 66 serving hatch
- 67 hot meal
- 68 beer pump (beerpull)
- 69 cash desk
- 70 cashier
- 71 proprietor
- 72 rail
- 73 dining area
- 74 table
- 75 open sandwich
- 76 ice-cream sundae
- 77 salt cellar and pepper pot
- 78 table decoration (flower arrangement)

**1-26 vestibule** (foyer, reception hall)

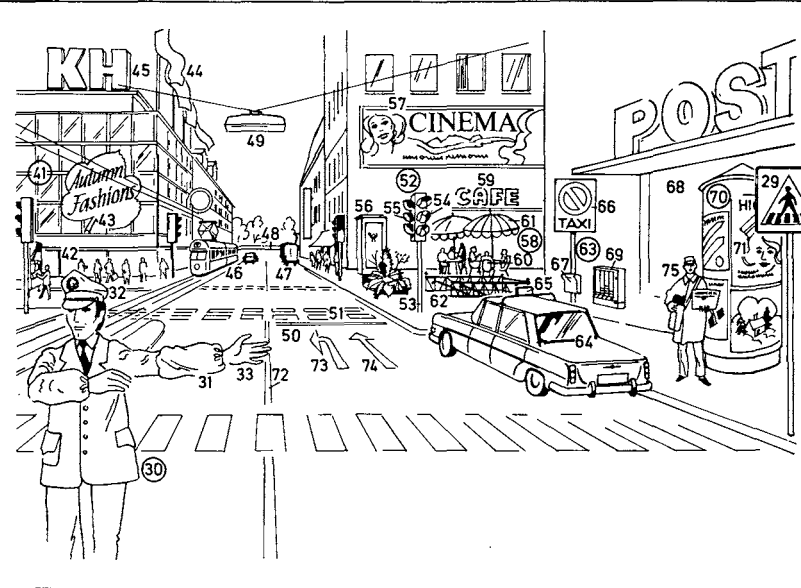
- 1 doorman (commissionaire)
- 2 letter rack with pigeon holes
- 3 key rack
- 4 globe lamp, a frosted glass globe
- 5 indicator board
- 6 indicator light
- 7 chief receptionist
- 8 register (hotel register)
- 9 room key
- 10 number tag (number tab) showing room number
- 11 hotel bill
- 12 block of registration forms
- 13 passport
- 14 hotel guest
- 15 lightweight suitcase [for air travel]
- 16 wall desk
- 17 porter (*Am.* baggage man)
- 18-26 lobby (hotel lobby)
- 18 page (pageboy, *Am.* bell boy)
- 19 hotel manager
- 20 dining room (hotel restaurant)

**21 chandelier****22 fireside****23 fireplace****24 mantelpiece** (mantelshef)**25 fire****26 armchair****27-38 hotel room**, a double room with bath**27 double door****28 service bell panel****29 wardrobe** (*Am.* clothes closet)**30 clothes compartment****31 linen compartment****32 double washbasin****33 room waiter****34 room telephone****35 velour** (velours) carpet**36 flower stand****37 flower arrangement****38 double bed****39 function room** (banqueting hall)**40-43 private party****40 speaker** proposing a toast**41 42's neighbour** (*Am.* neighbor)**42 43's partner****43 42's partner****44 bar trio****45 violinist****46 couple** dancing (dancing couple)**47 waiter****48 napkin****49 cigarette****50 ashtray****51 hotel bar****52 foot rail****53 bar stool****54 bar****55 bar customer****56 cocktail glass** (*Am.* highball glass)**57 whisky** (whiskey) glass**58 champagne cork****59 champagne bucket** (champagne cooler)**60 measuring beaker** (measure)**61 cocktail shaker****62 bartender** (barman, *Am.* barkeeper, barkeep)**63 barmaid****64 shelf** for bottles**65 shelf** for glasses**66 mirrored panel****67 ice bucket****68 hotel foyer**



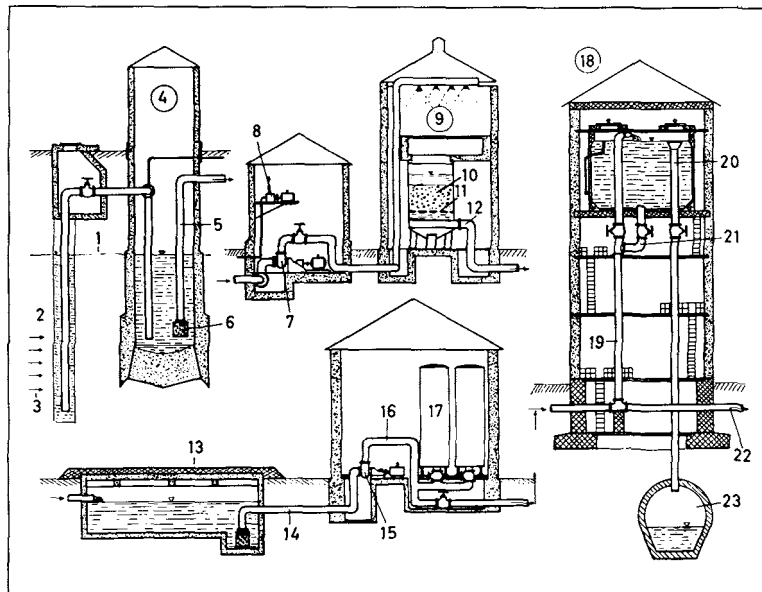
- 1 parking meter
- 2 map of the town (street map)
- 3 illuminated board
- 4 key
- 5 litter bin (*Am.* trash bin)
- 6 street lamp (street light)
- 7 street sign showing the name of the street
- 8 drain
- 9 clothes shop (fashion house)
- 10 shop window
- 11 window display (shop window display)
- 12 window decoration (shop window decoration)
- 13 entrance
- 14 window
- 15 window box
- 16 neon sign
- 17 tailor's workroom
- 18 pedestrian
- 19 shopping bag
- 20 road sweeper (*Am.* street sweeper)

- 21 broom
- 22 rubbish (litter)
- 23 tramlines (*Am.* streetcar tracks)
- 24 pedestrian crossing (zebra crossing, *Am.* crosswalk)
- 25 tram stop (*Am.* streetcar stop, trolley stop)
- 26 tram stop sign (*Am.* streetcar stop sign, trolley stop sign)
- 27 tram timetable (*Am.* streetcar schedule, trolley schedule)
- 28 ticket machine
- 29 'pedestrian crossing' sign
- 30 traffic policeman on traffic duty (point duty)
- 31 traffic control cuff
- 32 white cap
- 33 hand signal
- 34 motorcyclist
- 35 motorcycle
- 36 pillion passenger (pillion rider)
- 37 bookshop



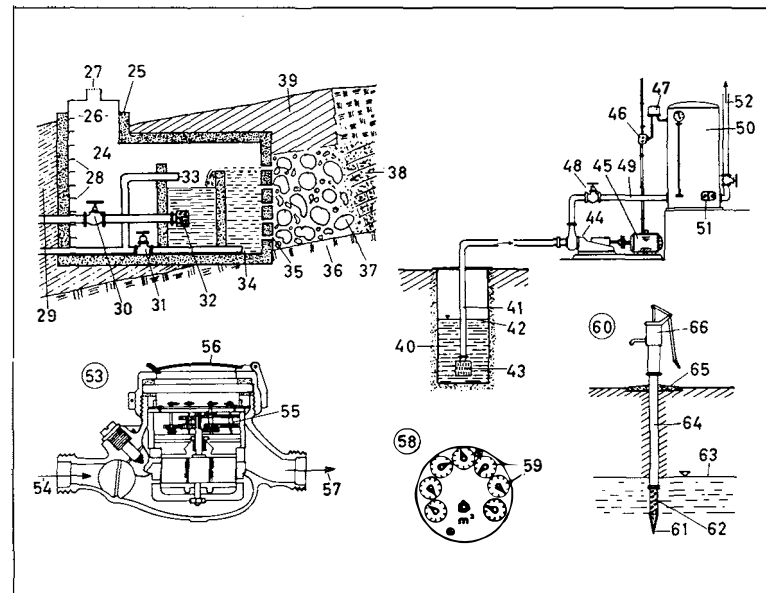
- 38 hat shop (hatter's shop); *for ladies' hats*: milliner's shop
- 39 shop sign
- 40 insurance company office
- 41 department store
- 42 shop front
- 43 advertisement
- 44 flags
- 45 illuminated letters
- 46 tram (*Am.* streetcar, trolley)
- 47 furniture lorry (*Am.* furniture truck)
- 48 flyover
- 49 suspended street lamp
- 50 stop line
- 51 pedestrian crossing (*Am.* crosswalk)
- 52 traffic lights
- 53 traffic light post
- 54 set of lights
- 55 pedestrian lights
- 56 telephone box (telephone booth, telephone kiosk, call box)

- 57 cinema (*Am.* movie) advertisement (film poster, *Am.* movie poster)
- 58 pedestrian precinct (paved zone)
- 59 street café
- 60 group seated (sitting) at a table
- 61 sunshade
- 62 steps to the public lavatories (public conveniences)
- 63 taxi rank (taxi stand)
- 64 taxi (taxicab, cab)
- 65 taxi sign
- 66 'taxi rank' ('taxi stand') sign
- 67 taxi telephone
- 68 post office
- 69 cigarette machine
- 70 advertising pillar
- 71 poster (advertisement)
- 72 white line
- 73 lane arrow for turning left
- 74 lane arrow for going straight ahead
- 75 news vendor (*Am.* news dealer)

**1-66 drinking water supply**

- 1 water table (groundwater level)
- 2 water-bearing stratum (aquifer, aquafer)
- 3 groundwater stream (underground stream)
- 4 collector well for raw water
- 5 suction pipe
- 6 pump strainer with foot valve
- 7 bucket pump with motor
- 8 vacuum pump with motor
- 9 rapid-filter plant
- 10 filter gravel (filter bed)
- 11 filter bottom, a grid
- 12 filtered water outlet
- 13 purified water tank
- 14 suction pipe with pump strainer and foot valve
- 15 main pump with motor
- 16 delivery pipe
- 17 compressed-air vessel (air vessel, air receiver)
- 18 water tower

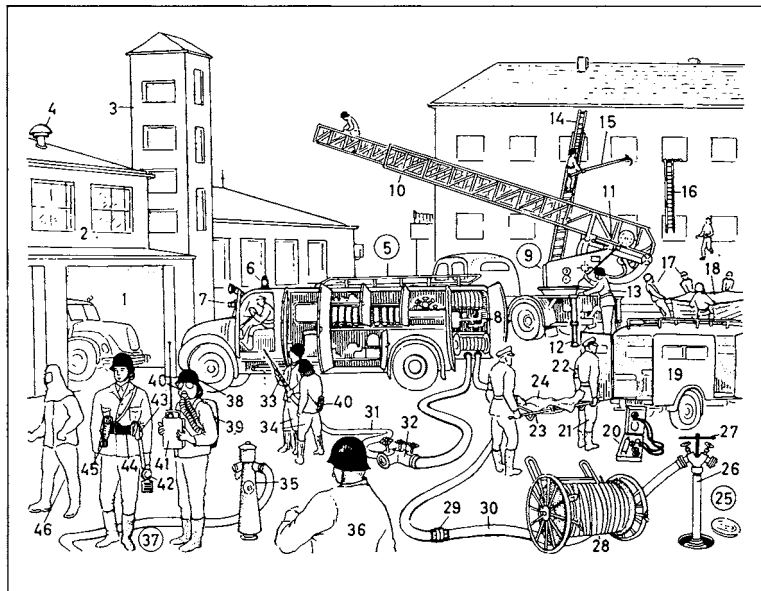
- 19 riser pipe (riser)
- 20 overflow pipe
- 21 outlet
- 22 distribution main
- 23 excess water conduit

**24-39 tapping a spring**

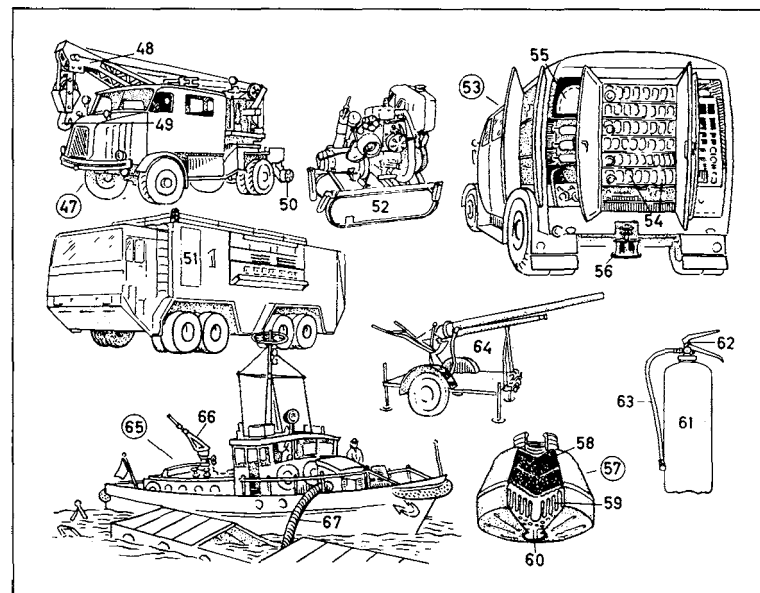
- 24 chamber
- 25 chamber wall
- 26 manhole
- 27 ventilator
- 28 step irons
- 29 filling (backing)
- 30 outlet control valve
- 31 outlet valve
- 32 strainer
- 33 overflow pipe (overflow)
- 34 bottom outlet
- 35 earthenware pipes
- 36 impervious stratum (impermeable stratum)
- 37 rough rubble
- 38 water-bearing stratum (aquifer, aquafer)
- 39 loam seal (clay seal)
- 40-52 individual water supply
- 40 well
- 41 suction pipe
- 42 water table (groundwater level)
- 43 pump strainer with foot valve

**44 centrifugal pump**

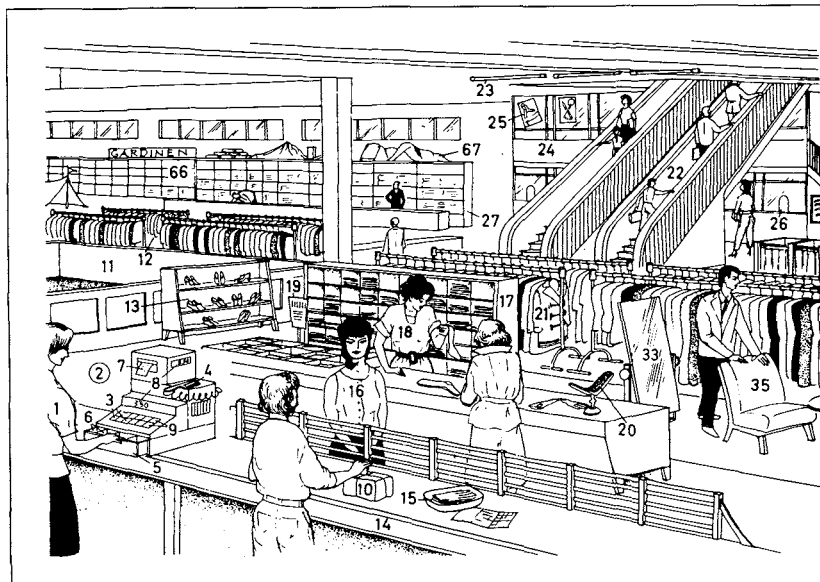
- 45 motor
- 46 motor safety switch
- 47 manostat, a switching device
- 48 stop valve
- 49 delivery pipe
- 50 compressed-air vessel (air vessel, air receiver)
- 51 manhole
- 52 delivery pipe
- 53 water meter, a rotary meter
- 54 water inlet
- 55 counter gear assembly
- 56 cover with glass lid
- 57 water outlet
- 58 water-meter dial
- 59 counters
- 60 driven well (tube well, drive well)
- 61 pile shoe
- 62 filter
- 63 water table (groundwater level)
- 64 well casing
- 65 well head
- 66 hand pump



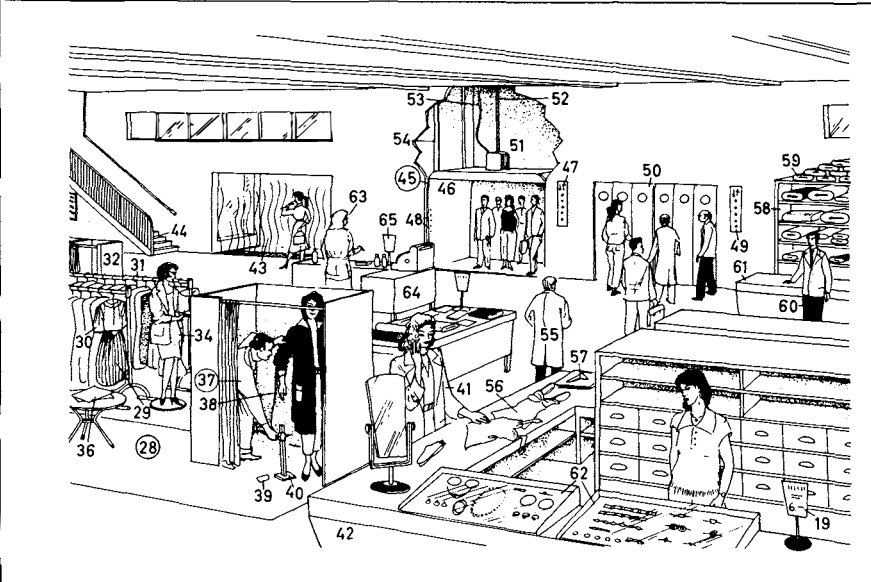
- 1-46 fire service drill (extinguishing, climbing, ladder, and rescue work)  
 1-3 fire station  
 1 engine and appliance room  
 2 firemen's (Am. firefighters') quarters  
 3 drill tower  
 4 fire alarm (fire alarm siren, fire siren)  
 5 fire engine  
 6 blue light (warning light), a flashing light (Am. flashlight)  
 7 horn (hooter)  
 8 motor pump, a centrifugal pump  
 9 motor turntable ladder (Am. aerial ladder)  
 10 ladder, a steel ladder (automatic extending ladder)  
 11 ladder mechanism  
 12 jack  
 13 ladder operator  
 14 extension ladder  
 15 ceiling hook (Am. preventer)  
 16 hook ladder (Am. pompier ladder)  
 17 holding squad  
 18 jumping sheet (sheet)  
 19 ambulance car (ambulance)  
 20 resuscitator (resuscitation equipment), oxygen apparatus  
 21 ambulance attendant (ambulance man)  
 22 armband (armlet, brassard)  
 23 stretcher  
 24 unconscious man  
 25 pit hydrant  
 26 standpipe (riser, vertical pipe)  
 27 hydrant key  
 28 hose reel (Am. hose cart, hose wagon, hose truck, hose carriage)  
 29 hose coupling  
 30 soft suction hose  
 31 delivery hose  
 32 dividing breeching  
 33 branch  
 34 branchmen  
 35 surface hydrant (fire plug)



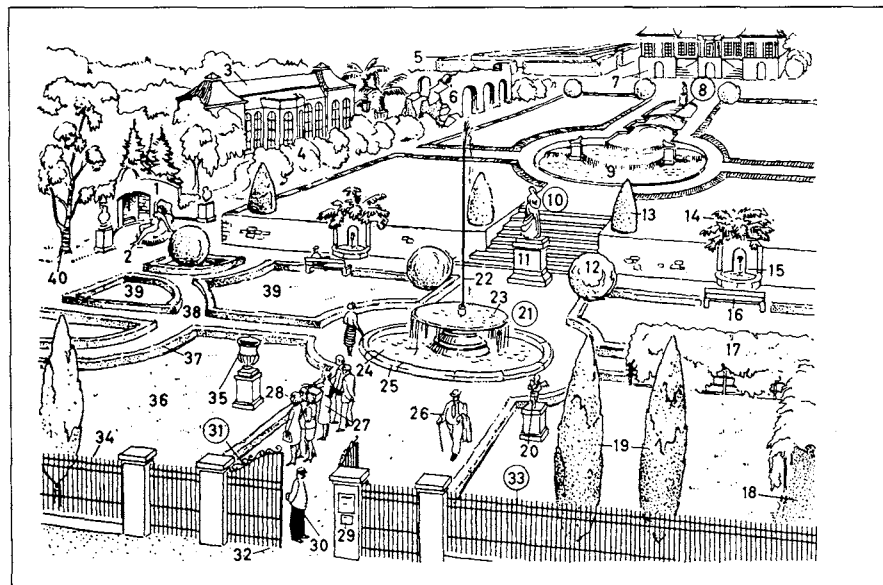
- 36 officer in charge  
 37 fireman (Am. firefighter)  
 38 helmet (fireman's helmet, Am. fire hat) with neck guard (neck flap)  
 39 breathing apparatus  
 40 face mask  
 41 walkie-talkie set  
 42 hand lamp  
 43 small axe (Am. ax, pompier hatchet)  
 44 hoot belt  
 45 beltline  
 46 protective clothing of asbestos (asbestos suit) or of metallic fabric  
 47 breakdown lorry (Am. crane truck, wrecking crane)  
 48 lifting crane  
 49 load hook (draw hook, Am. drag hook)  
 50 support roll  
 51 water tender  
 52 portable pump  
 53 hose layer  
 54 flaked lengths of hose  
 55 cable drum  
 56 winch  
 57 face mask filter  
 58 active carbon (activated carbon, activated charcoal)  
 59 dust filter  
 60 air inlet  
 61 portable fire extinguisher  
 62 operating valve  
 63 hose with spray nozzle  
 64 foam-making branch (Am. foam gun)  
 65 fireboat  
 66 monitor (water cannon)  
 67 suction hose



- |   |  |
|---|--|
| 1 cashier   | 19 price card  |
| 2 electronic cash register (till) (scanner till)                            | 20 glove stand   |
| 3 number keys   | 21 duffle coat, a three-quarter length coat  |
| 4 scanner (light pen)   | 22 escalator   |
| 5 cash drawer (till)  | 23 fluorescent light (fluorescent lamp)  |
| 6 compartments (money compartments) for coins and notes ( <i>Am.</i> bills) | 24 office ( <i>e.g.</i> customer accounts office, travel agency, manager's office)   |
| 7 receipt (sales check)   | 25 poster (advertisement)  |
| 8 amount [to be paid]   | 26 theatre ( <i>Am.</i> theater) and concert booking office (advance booking office) |
| 9 function keys   | 27 shelves   |
| 10 goods  | 28 ladies' wear department   |
| 11 glass-roofed well  | 29 ready-made dress (ready-to-wear dress, <i>coll.</i> off-the-peg dress)            |
| 12 men's wear department  | 30 dust cover  |
| 13 showcase (display case, indoor display window)                           | 31 clothes rack  |
| 14 wrapping counter   | 32 changing booth (fitting booth)  |
| 15 tray for purchases   | 33 mirror  |
| 16 customer   | 34 dummy   |
| 17 hosiery department   | 35 seat (chair)  |
| 18 shop assistant ( <i>Am.</i> salesgirl, saleslady)                        |  |

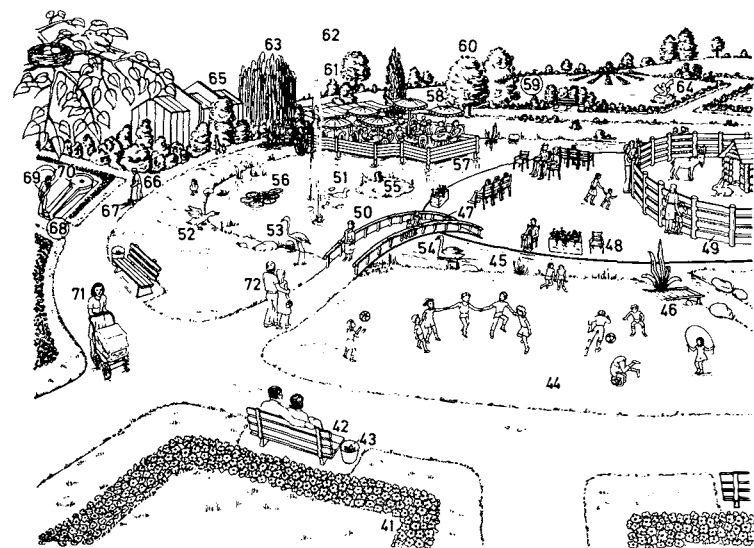


- |   |   |
|---|---|
| 36 fashion journal (fashion magazine)                     | 57 linen goods (table linen and bed linen)          |
| 37 tailor marking a hemline                               | 58 fabric department                                |
| 38 measuring tape (tape measure)                          | 59 roll of fabric (roll of material, roll of cloth) |
| 39 tailor's chalk (French chalk)                          | 60 head of department (department manager)          |
| 40 hemline marker   | 61 sales counter                                    |
| 41 loose-fitting coat                                     | 62 jewellery ( <i>Am.</i> jewelry) department       |
| 42 sales counter  | 63 customer assistant                               |
| 43 warm-air curtain                                       | 64 special counter (extra counter)                  |
| 44 stairs   | 65 placard advertising special offers               |
| 45 lift ( <i>Am.</i> elevator)                            | 66 curtain department                               |
| 46 lift cage (lift car, <i>Am.</i> elevator car)          | 67 display on top of the shelves                    |
| 47 direction indicators                                   |   |
| 48 controls (lift controls, <i>Am.</i> elevator controls) |   |
| 49 floor indicator  |   |
| 50 sliding door   |   |
| 51 lift shaft ( <i>Am.</i> elevator shaft)                |   |
| 52 bearer cable   |   |
| 53 control cable  |   |
| 54 guide rail   |   |
| 55 customer   |   |
| 56 hosiery  |   |



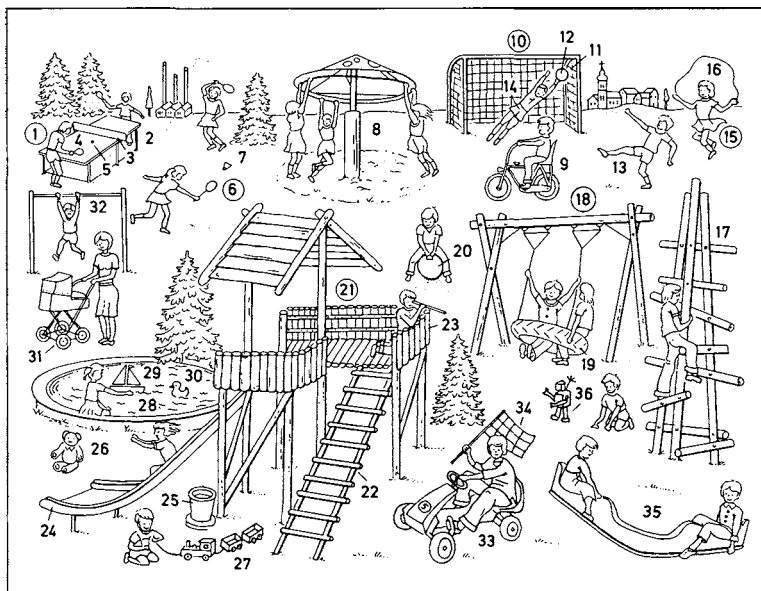
**1-40 formal garden** (French Baroque garden), palace gardens

- 1 grotto (cavern)
- 2 stone statue, a river nymph
- 3 orangery (orangerie)
- 4 boscade (boskage)
- 5 maze (labyrinth of paths and hedges)
- 6 open-air theatre (*Am.* theater)
- 7 Baroque palace
- 8 fountains
- 9 cascade (broken artificial waterfall, artificial falls)
- 10 statue, a monument
- 11 pedestal
- 12 globe-shaped tree
- 13 conical tree
- 14 ornamental shrub
- 15 wall fountain
- 16 park bench
- 17 pergola (bower, arbour, *Am.* arbor)
- 18 gravel path (gravel walk)
- 19 pyramid tree (pyramidal tree)
- 20 cupid (cherub, amoretto, amorino)
- 21 fountain
- 22 fountain
- 23 overflow basin
- 24 basin
- 25 kerb (curb)
- 26 man out for a walk
- 27 tourist guide
- 28 group of tourists
- 29 park by-laws (bye-laws)
- 30 park keeper
- 31 garden gates made of wrought iron
- 32 park entrance
- 33 park railings
- 34 railing (bar)
- 35 stone vase
- 36 lawn
- 37 border, a trimmed (clipped) hedge
- 38 park path
- 39 parterre
- 40 birch (birch tree)

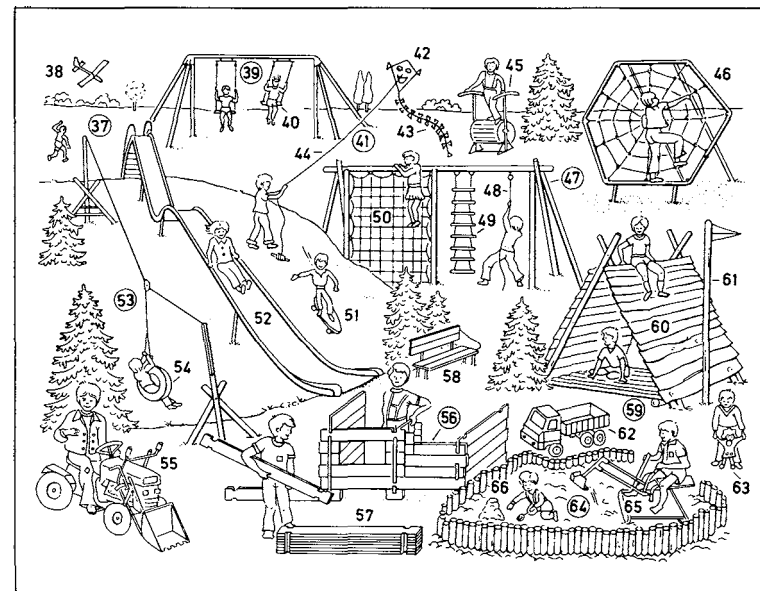


**41-72 landscaped park** (jardin anglais)

- 41 flower bed
- 42 park bench (garden seat)
- 43 litter bin (*Am.* trash bin)
- 44 play area
- 45 stream
- 46 jetty
- 47 bridge
- 48 park chair
- 49 animal enclosure
- 50 pond
- 51-54 waterfowl
- 51 wild duck with young
- 52 goose
- 53 flamingo
- 54 swan
- 55 island
- 56 water lily
- 57 open-air café
- 58 sunshade
- 59 park tree (tree)
- 60 treetop (crown)
- 61 group of trees
- 62 fountain
- 63 weeping willow
- 64 modern sculpture
- 65 hothouse
- 66 park gardener
- 67 broom
- 68 minigolf course
- 69 minigolf player
- 70 minigolf hole
- 71 mother with pram (baby carriage)
- 72 courting couple (young couple)

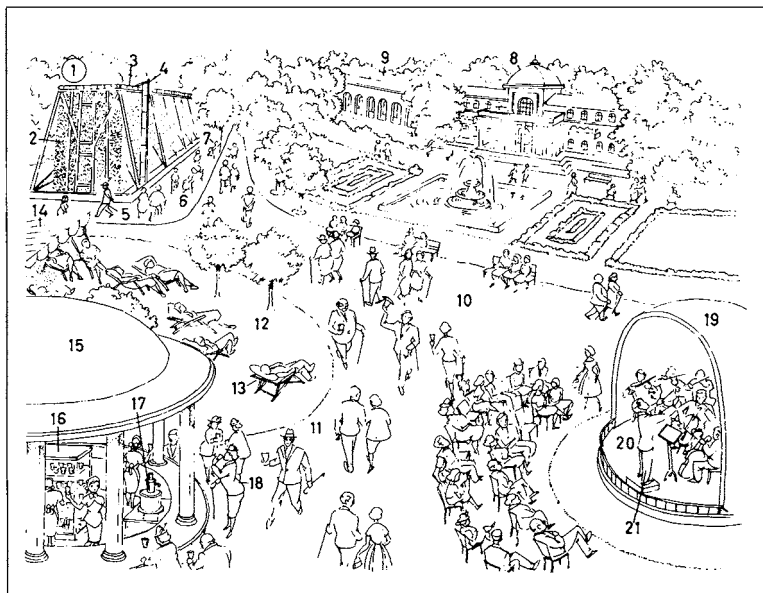


- |  |  |
|--|--|
| 1 table tennis   | 21 adventure playground                        |
| 2 table  | 22 log ladder                                  |
| 3 table tennis net   | 23 lookout platform                            |
| 4 table tennis racket (raquet) (table tennis bat)                  | 24 slide                                       |
| 5 table tennis ball  | 25 litter bin ( <i>Am. trash bin</i> )         |
| 6 badminton game (shuttlecock game)                                | 26 teddy bear                                  |
| 7 shuttlecock  | 27 wooden train set                            |
| 8 maypole swing  | 28 paddling pool                               |
| 9 child's bicycle  | 29 sailing boat ( <i>yacht, Am. sailboat</i> ) |
| 10 football (soccer)   | 30 toy duck                                    |
| 11 goal (goalposts)  | 31 pram (baby carriage)                        |
| 12 football  | 32 high bar (bar)                              |
| 13 goal scorer   | 33 go-cart (soap box)                          |
| 14 goalkeeper  | 34 starter's flag                              |
| 15 skipping ( <i>Am. jumping rope</i> )                            | 35 seesaw                                      |
| 16 skipping rope ( <i>Am. skip rope, jump rope, jumping rope</i> ) | 36 robot                                       |
| 17 climbing tower  |  |
| 18 rubber tyre ( <i>Am. tire</i> ) swing                           |  |
| 19 lorry tyre ( <i>Am. truck tire</i> )                            |  |
| 20 bouncing ball   |  |

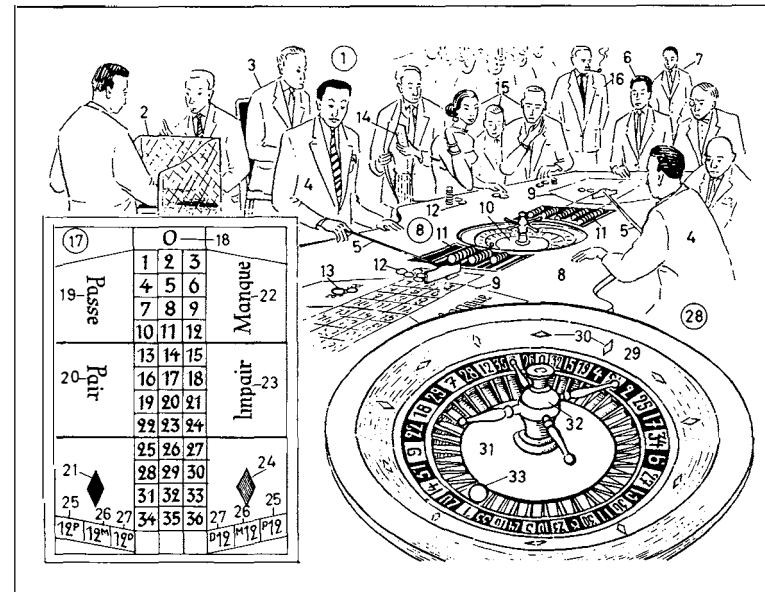


- |  |                                       |
|--|---------------------------------------|
| 37 flying model aeroplanes ( <i>Am. air-planes</i> ) | 60 climbing roof                      |
| 38 model aeroplane ( <i>Am. airplane</i> )           | 61 flagpole (flagstaff)               |
| 39 double swing                                      | 62 toy lorry ( <i>Am. toy truck</i> ) |
| 40 swing seat  | 63 walking doll                       |
| 41 flying kites                                      | 64 sandpit ( <i>Am. sandbox</i> )     |
| 42 kite  | 65 toy excavator (toy digger)         |
| 43 tail of the kite                                  | 66 sandhill                           |
| 44 kite string                                       |                                       |
| 45 revolving drum                                    |                                       |
| 46 spider's web                                      |                                       |
| 47 climbing frame                                    |                                       |
| 48 climbing rope                                     |                                       |
| 49 rope ladder                                       |                                       |
| 50 climbing net                                      |                                       |
| 51 skateboard  |                                       |
| 52 up-and-down slide                                 |                                       |
| 53 rubber tyre ( <i>Am. tire</i> ) cable car         |                                       |
| 54 rubber tyre ( <i>Am. tire</i> )                   |                                       |
| 55 tractor, a pedal car                              |                                       |
| 56 den   |                                       |
| 57 presawn boards                                    |                                       |
| 58 seat (bench)                                      |                                       |
| 59 Indian hut  |                                       |





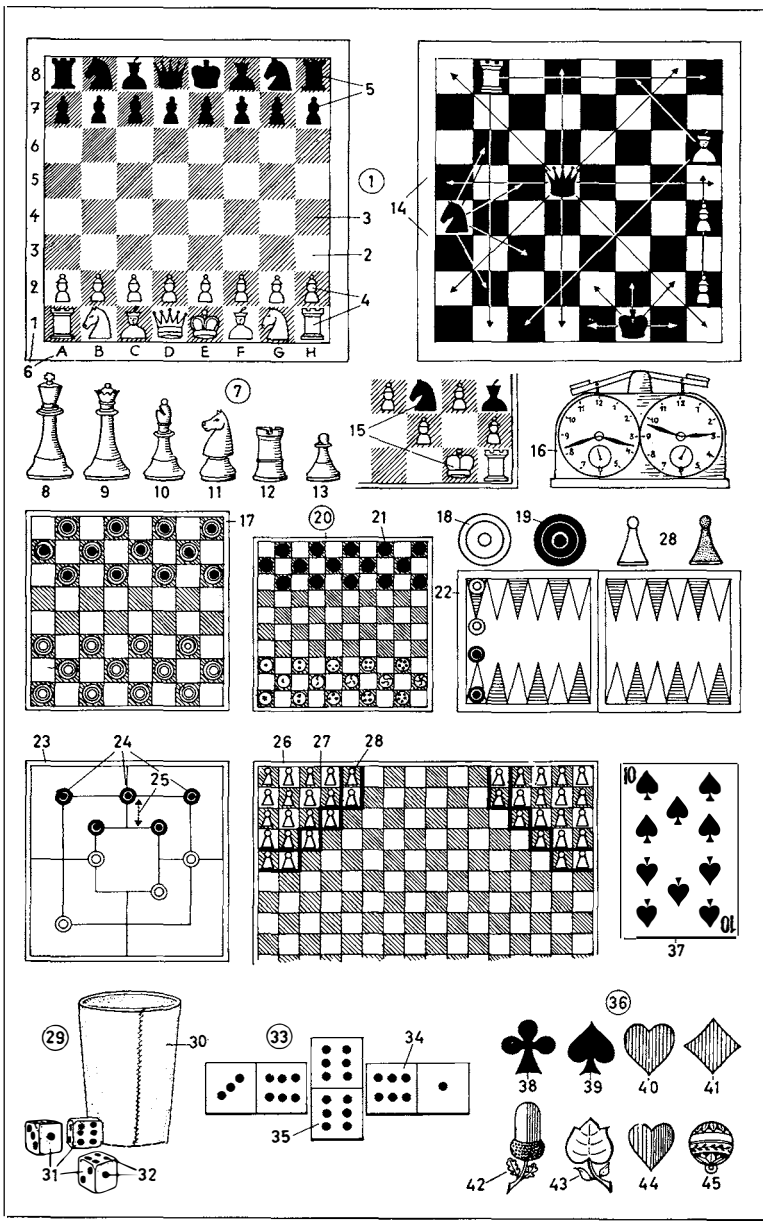
- 1-21 spa gardens
- 1-7 salina (salt works)
- 1 thorn house (graduation house)
- 2 thorns (brushwood)
- 3 brine channels
- 4 brine pipe from the pumping station
- 5 salt works attendant
- 6, 7 inhalational therapy
- 6 open-air inhalatorium (outdoor inhalatorium)
- 7 patient inhaling (taking an inhalation)
- 8 hydropathic (pump room) with kursaal (casino)
- 9 colonnade
- 10 spa promenade
- 11 avenue leading to the mineral spring
- 12-14 rest cure
- 12 sunbathing area (lawn)
- 13 deck-chair
- 14 sun canopy
- 15 pump room
- 16 rack for glasses
- 17 tap
- 18 patient taking the waters
- 19 bandstand
- 20 spa orchestra giving a concert
- 21 conductor

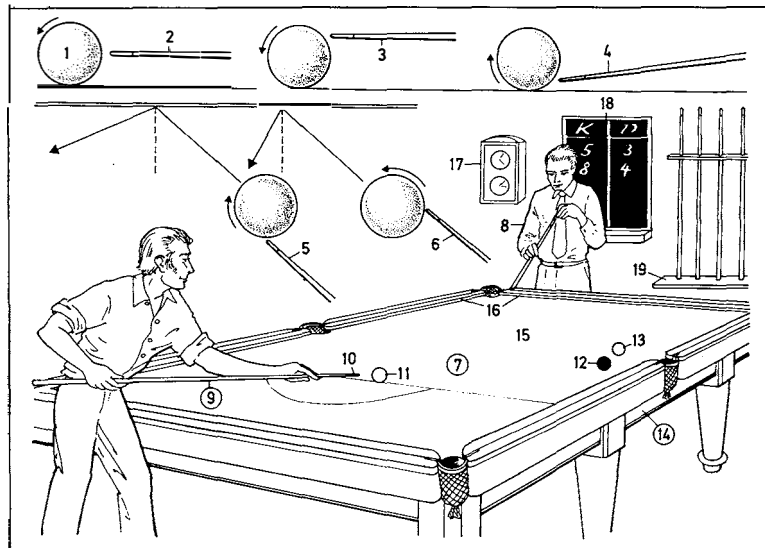
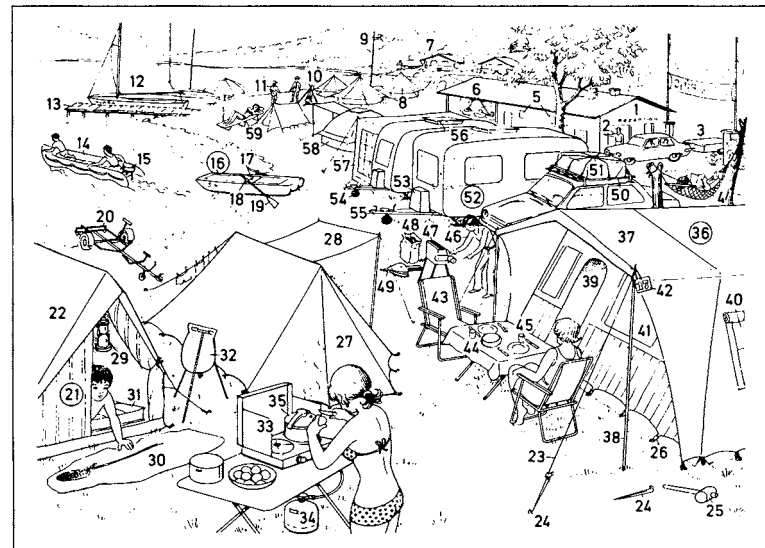


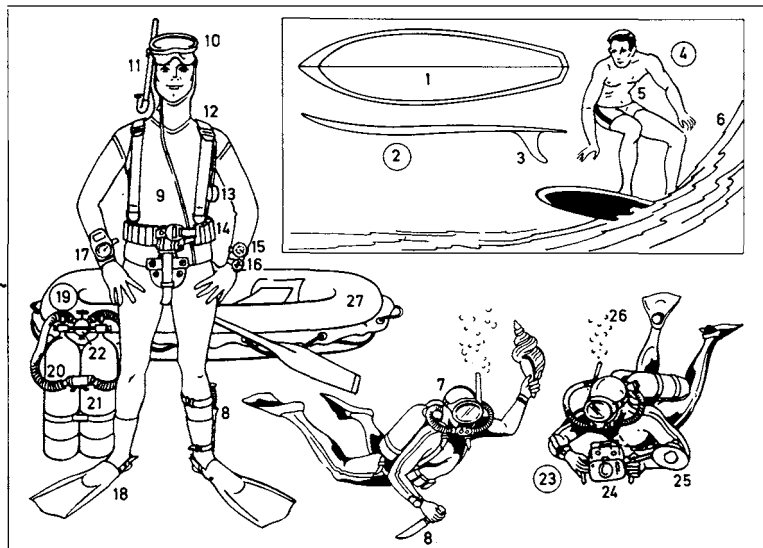
- 1-33 roulette, a game of chance (gambling game)
- 1 gaming room in the casino (in the gambling casino)
- 2 cash desk
- 3 tourneur (dealer)
- 4 croupier
- 5 rake
- 6 head croupier
- 7 hall manager
- 8 roulette table (gaming table, gambling table)
- 9 roulette layout
- 10 roulette wheel
- 11 bank
- 12 chip (check, plaque)
- 13 stake
- 14 membership card
- 15 roulette player
- 16 private detective (house detective)
- 17 roulette layout
- 18 zero (nought, 0)
- 19 passe (high) [numbers 19 to 36]
- 20 pair (even numbers)
- 21 noir (black)
- 22 manque (low) [numbers 1 to 18]
- 23 impair [odd numbers]
- 24 rouge (red)
- 25 douze premier (first dozen) [numbers 1 to 12]
- 26 douze milieu (second dozen) [numbers 13 to 24]
- 27 douze dernier (third dozen) [numbers 25 to 36]
- 28 roulette wheel (roulette)
- 29 roulette bowl
- 30 fret (separator)
- 31 revolving disc (disk) showing numbers 0 to 36
- 32 spin
- 33 roulette ball

- 1-16 chess**, a game involving combinations of moves, a positional game
- 1** chessboard (board) with the men (chessmen) in position
- 2** white square (chessboard square)
- 3** black square
- 4** white chessmen (white pieces) [white = W]
- 5** black chessmen (black pieces) [black = B]
- 6** letters and numbers for designating chess squares in the notation of chess moves and chess problems
- 7** individual chessmen (individual pieces)
- 8** king
- 9** queen
- 10** bishop
- 11** knight
- 12** rook (castle)
- 13** pawn
- 14** moves of the individual pieces
- 15** mate (checkmate), a mate by knight
- 16** chess clock, a double clock for chess matches (chess championships)
- 17-19 draughts** (*Am.* checkers)
- 17** draughtboard (*Am.* checkerboard)
- 18** white draughtsman (*Am.* checker, checkerman); *also*: piece for backgammon and nine men's morris
- 19** black draughtsman (*Am.* checker, checkerman)
- 20 salta**
- 21** salta piece
- 22 backgammon** board
- 23-25 nine men's morris**
- 23** nine men's morris board
- 24** mill
- 25** double mill
- 26-28 halma**
- 26** halma board
- 27** yard (camp, corner)
- 28** halma pieces (halma men) of vari-

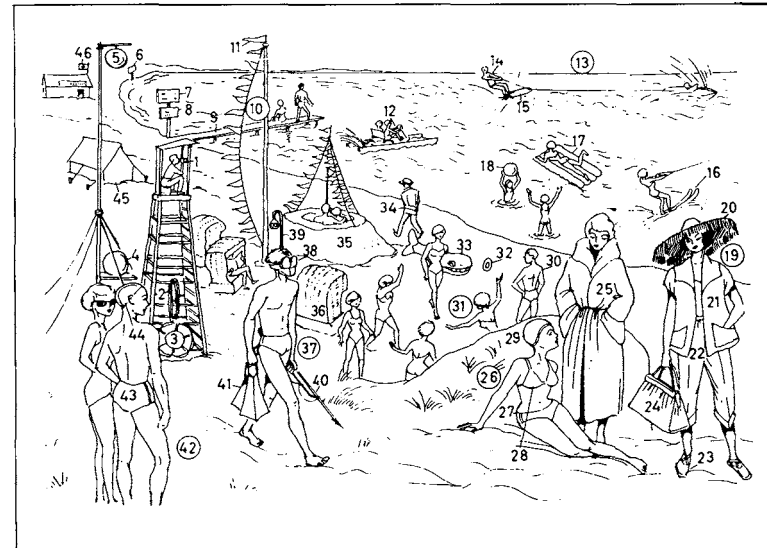
- ous colours (*Am.* colors)
- 29 dice** (dicing)
- 30** dice cup
- 31** dice
- 32** spots (pips)
- 33 dominoes**
- 34** domino (tile)
- 35** double
- 36 playing cards**
- 37** playing card (card)
- 38-45** suits
- 38** clubs
- 39** spades
- 40** hearts
- 41** diamonds
- 42-45** German suits
- 42** acorns
- 43** leaves
- 44** hearts
- 45** bells (hawkbells)



**1-19 billiards****1** billiard ball, an ivory or plastic ball**2-6** billiard strokes**2** plain stroke (hitting the cue ball dead centre, *Am.* center)**3** top stroke [promotes extra forward rotation]**4** screw-back [imparts a direct recoil or backward motion]**5** side (running side, *Am.* English)**6** check side**7-19** billiard room (*Am.* billiard parlor, billiard saloon, poolroom)**7** billiards (English billiards); *sim.*: pool, carrom (carrom billiards)**8** billiard player**9** cue (billiard cue)**10** leather cue tip**11** white cue ball**12** red object ball**13** white spot ball (white dot ball)**14** billiard table**15** table bed with green cloth (billiard cloth, green baize covering)**16** cushions (rubber cushions, cushioned ledge)**17** billiard clock, a timer**18** billiard marker**19** cue rack

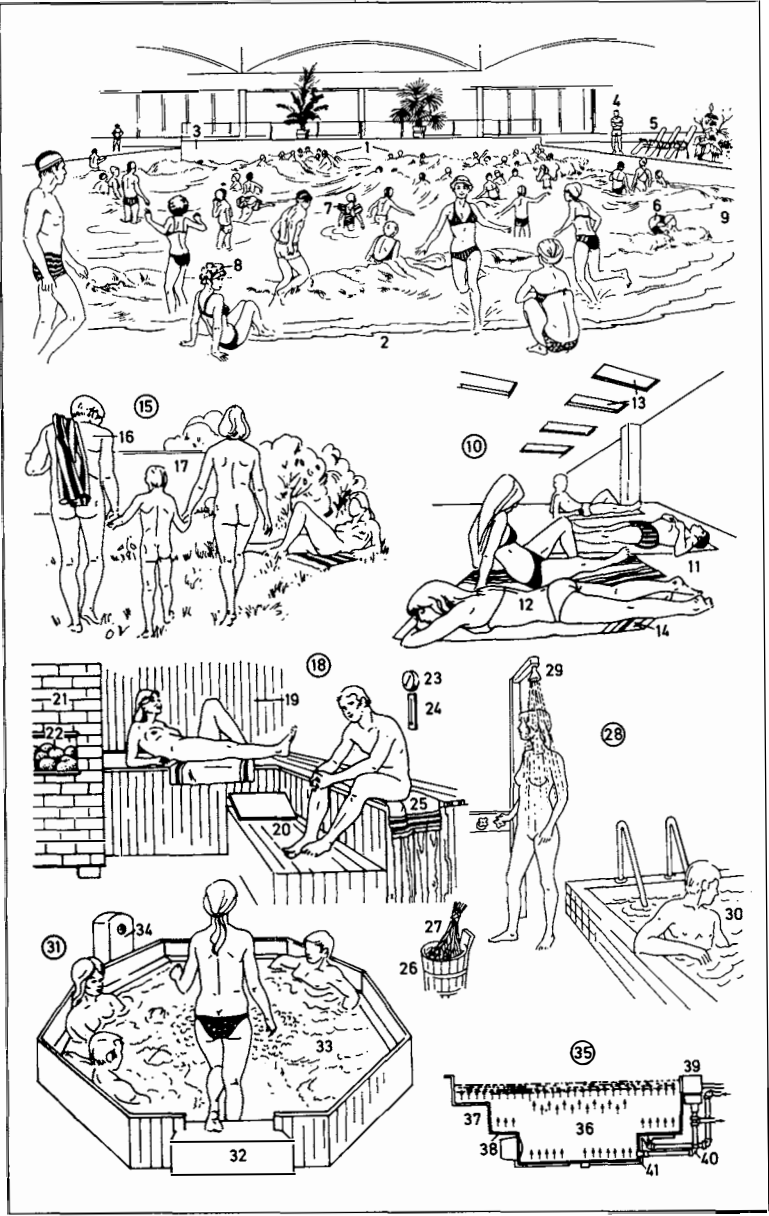


- 1-6 surf riding (surfing)
- 1 plan view of surfboard
- 2 section of surfboard
- 3 skag (stabilizing fin)
- 4 big wave riding
- 5 surfboarder (surfer)
- 6 breaker
- 7-27 skin diving (underwater swimming)
- 7 skin diver (underwater swimmer)
- 8-22 underwater swimming set
- 8 knife
- 9 neoprene wetsuit
- 10 diving mask (face mask, mask), a pressure-equalizing mask
- 11 snorkel (schnorkel)
- 12 harness of diving apparatus
- 13 compressed-air pressure gauge (Am. gage)
- 14 weight belt
- 15 depth gauge (Am. gage)
- 16 waterproof watch for checking duration of dive
- 17 decometer for measuring stages of ascent
- 18 fin (flipper)
- 19 diving apparatus (aqualung, scuba) with two cylinders (bottles)
- 20 two-tube demand regulator
- 21 compressed-air cylinder (compressed-air bottle)
- 22 on/off valve
- 23 underwater photography
- 24 underwater camera
- 25 underwater flashlight
- 26 exhaust bubbles
- 27 inflatable boat (inflatable dinghy)



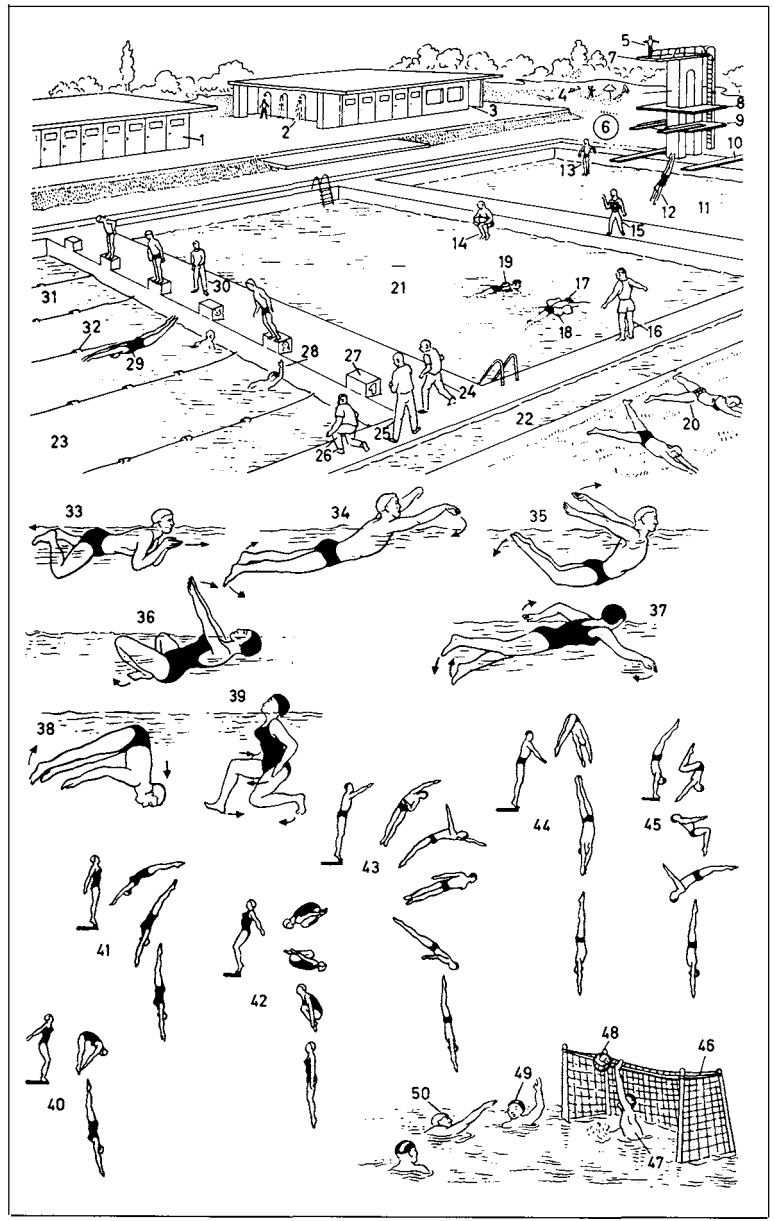
- 1 lifesaver (lifeguard)
- 2 lifeline
- 3 lifebelt (lifebuoy)
- 4 storm signal
- 5 time ball
- 6 warning sign
- 7 tide table, a notice board showing times of low tide and high tide
- 8 board showing water and air temperature
- 9 bathing platform
- 10 pennon staff
- 11 pennon
- 12 paddle boat (pedal boat)
- 13 surf riding (surfing) behind motorboat
- 14 surfboarder (surfer)
- 15 surfboard
- 16 water ski
- 17 inflatable beach mattress
- 18 beach ball
- 19-23 beachwear
- 19 beach suit
- 20 beach hat
- 21 beach jacket
- 22 beach trousers
- 23 beach shoe (bathing shoe)
- 24 beach bag
- 25 bathing gown (bathing wrap)
- 26 bikini (ladies' two-piece bathing suit)
- 27 bikini bottom
- 28 bikini top
- 29 bathing cap (swimming cap)
- 30 bather
- 31 deck tennis (quoits)
- 32 rubber ring (quoit)
- 33 inflatable rubber animal
- 34 beach attendant
- 35 sandcastle
- 36 roofed wicker beach chair
- 37 underwater swimmer
- 38 diving goggles
- 39 snorkel (schnorkel)
- 40 hand harpoon (fish spear, fish lance)
- 41 fin (flipper) for diving (for underwater swimming)
- 42 bathing suit (swimsuit)
- 43 bathing trunks (swimming trunks)
- 44 bathing cap (swimming cap)
- 45 beach tent, a ridge tent
- 46 lifeguard station

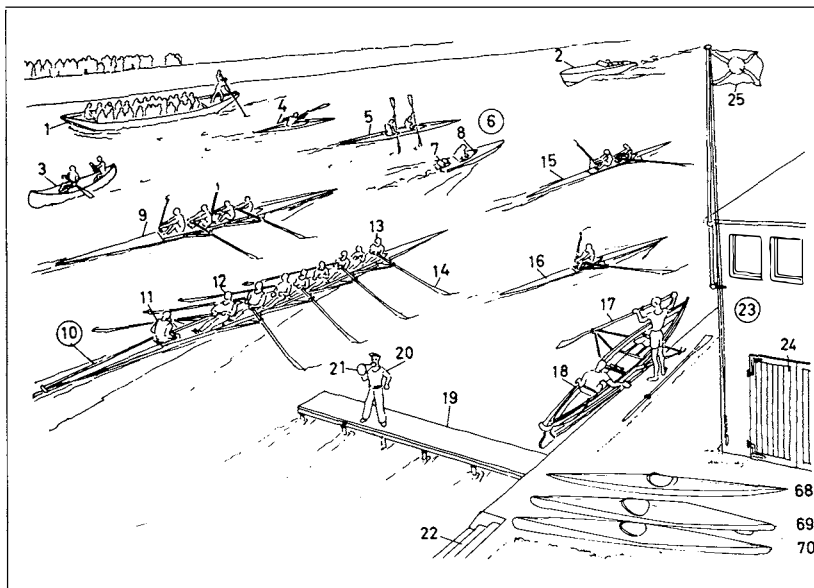
- 1-9 wave pool, an indoor pool
- 1 artificial waves
- 2 beach area
- 3 edge of the pool
- 4 swimming pool attendant (pool attendant, swimming bath attendant)
- 5 sun bed
- 6 lifebelt
- 7 water wings
- 8 bathing cap
- 9 channel to outdoor mineral bath
- 10 solarium
- 11 sunbathing area
- 12 sunbather
- 13 sun ray lamp
- 14 bathing towel
- 15 nudist sunbathing area
- 16 nudist (naturist)
- 17 screen (fence)
- 18 mixed sauna
- 19 wood panelling (Am. paneling)
- 20 tiered benches
- 21 sauna stove
- 22 stones
- 23 hygrometer
- 24 thermometer
- 25 towel
- 26 water tub for moistening the stones in the stove
- 27 birch rods (birches) for beating the skin
- 28 cooling room for cooling off (cooling down) after the sauna
- 29 lukewarm shower
- 30 cold bath
- 31 hot whirlpool (underwater massage bath)
- 32 step into the bath
- 33 massage bath
- 34 jet blower
- 35 hot whirlpool [diagram]
- 36 section of the bath
- 37 step
- 38 circular seat
- 39 water extractor
- 40 water jet pipe
- 41 air jet pipe



- 1-32 swimming pool, an open-air swimming pool
- 1 changing cubicle
- 2 shower (shower bath)
- 3 changing room
- 4 sunbathing area
- 5-10 diving boards (diving apparatus)
- 5 diver (highboard diver)
- 6 diving platform
- 7 ten-metre (Am. ten-meter) platform
- 8 five-metre (Am. five-meter) platform
- 9 three-metre (Am. three-meter) springboard (diving board)
- 10 one-metre (Am. one-meter) springboard
- 11 diving pool
- 12 straight header
- 13 feet-first jump
- 14 tuck jump (haunch jump)
- 15 swimming pool attendant (pool attendant, swimming bath attendant)
- 16-20 swimming instruction
- 16 swimming instructor (swimming teacher)
- 17 learner-swimmer
- 18 float; sim.: water wings
- 19 swimming belt (cork jacket)
- 20 land drill
- 21 non-swimmers' pool
- 22 footbath
- 23 swimmers' pool
- 24-32 freestyle relay race
- 24 timekeeper (lane timekeeper)
- 25 placing judge
- 26 turning judge
- 27 starting block (starting place)
- 28 competitor touching the finishing line
- 29 starting dive (racing dive)
- 30 starter
- 31 swimming lane
- 32 rope with cork floats
- 33-39 swimming strokes
- 33 breaststroke

- 34 butterfly stroke
- 35 dolphin butterfly stroke
- 36 side stroke
- 37 crawl stroke (crawl); sim.: trudgen stroke (trudgen, double overarm stroke)
- 38 diving (underwater swimming)
- 39 treading water
- 40-45 diving (acrobatic diving, fancy diving, competitive diving, high-board diving)
- 40 standing take-off pike dive
- 41 one-half twist isander (reverse dive)
- 42 backward somersault (double backward somersault)
- 43 running take-off twist dive
- 44 screw dive
- 45 armstand dive (handstand dive)
- 46-50 water polo
- 46 goal
- 47 goalkeeper
- 48 water polo ball
- 49 back
- 50 forward





1-18 taking up positions for the regatta

1 punt, a pleasure boat

2 motorboat

3 Canadian canoe

4 kayak (Alaskan canoe, slalom canoe), a canoe

5 tandem kayak

6 outboard motorboat (outboard speedboat, outboard)

7 outboard motor (outboard)

8 cockpit

9-16 racing boats (sportsboats)

9-15 shells (rowing boats, *Am.* rowboats)

9 coxless four, a carvel-built boat

10 eight (eight-oared racing shell)

11 cox

12 stroke, an oarsman

13 bow ('number one')

14 oar

15 coxless pair

16 single sculler (single skuller, racing sculler, racing skuller, skiff)

17 scull (skull)

18 coxed single, a clinker-built single

19 jetty (landing stage)

20 rowing coach

21 megaphone

22 quayside steps

23 clubhouse (club)

24 boathouse

25 club's flag

26-33 four-oared gig, a touring boat

26 oar

27 cox's seat

28 thwart (seat)

29 rowlock (oarlock)

30 gunwale (gunnel)

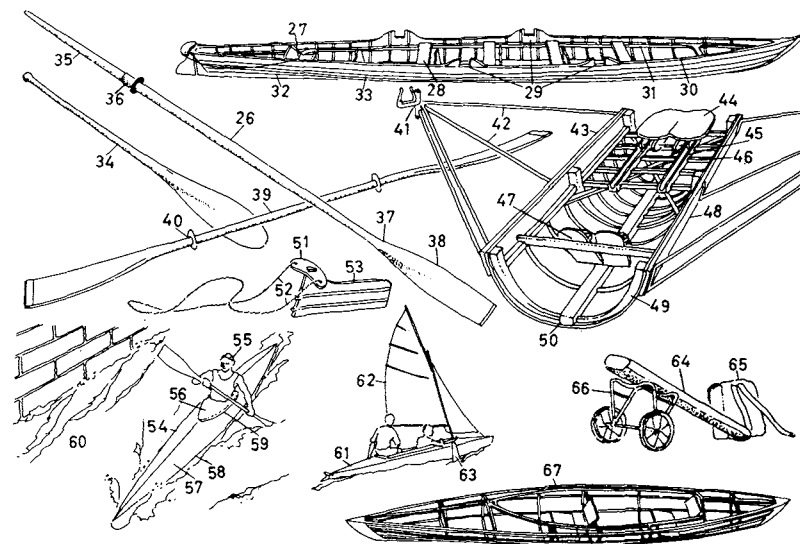
31 rising

32 keel

33 skin (shell, outer skin) [clinker-built]

34 single-bladed paddle (paddle)

35-38 oar (scull, skull)



35 grip

36 leather sheath

37 shaft (neck)

38 blade

39 double-bladed paddle (double-ended paddle)

40 drip ring

41-50 sliding seat

41 rowlock (oarlock)

42 outrigger

43 saxboard

44 sliding seat

45 runner

46 strut

47 stretcher

48 skin (shell, outer skin)

49 frame (rib)

50 kelson (keelson)

51-53 rudder (steering rudder)

51 yoke

52 lines (steering lines)

53 blade (rudder blade, rudder)

54-66 folding boats (foldboats, canoes)

54 one-man kayak

55 canoeist

56 spraydeck

57 deck

58 rubber-covered canvas hull

59 cockpit coaming (coaming)

60 channel for rafts alongside weir

61 two-seater folding kayak, a touring kayak

62 sail of folding kayak

63 leeboard

64 bag for the rods

65 rucksack

66 boat trailer (boat carriage)

67 frame of folding kayak

68-70 kayaks

68 Eskimo kayak

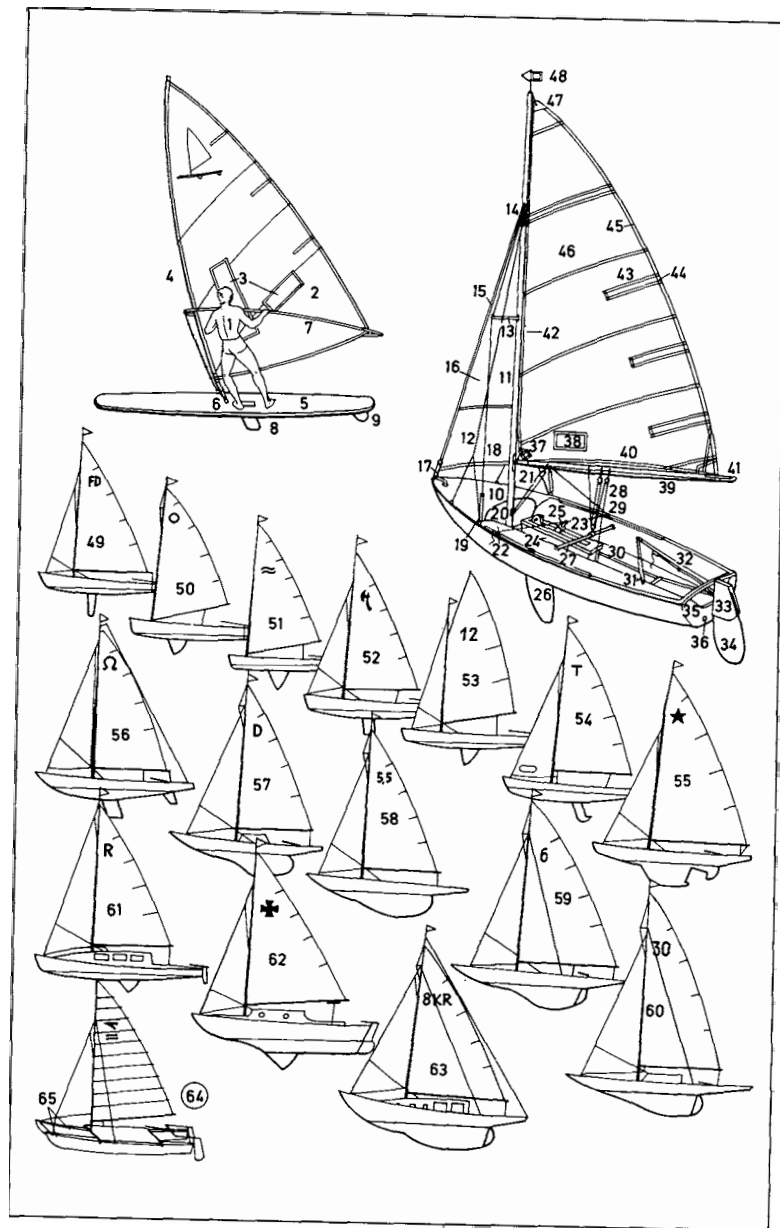
69 wild-water racing kayak

70 touring kayak

**1-9 windsurfing**

- 1 windsurfer
  - 2 sail
  - 3 transparent window (window)
  - 4 mast
  - 5 surfboard
  - 6 universal joint (movable bearing)  
for adjusting the angle of the mast  
and for steering
  - 7 wishbone
  - 8 retractable centreboard (*Am. cen-*  
*terboard*)
  - 9 rudder
- 10-48 yacht (sailing boat, *Am. sail-*  
*boat*)**
- 10 foredeck
  - 11 mast
  - 12 trapeze
  - 13 crosstrees (spreader)
  - 14 hound
  - 15 forestay
  - 16 jib (Genoa jib)
  - 17 jib downhaul
  - 18 side stay (shroud)
  - 19 lanyard (*also: turnbuckle*)
  - 20 foot of the mast
  - 21 kicking strap (vang)
  - 22 jam cleat
  - 23 foresheet (jib sheet)
  - 24 centreboard (*Am. centerboard*)  
case
  - 25 bitt
  - 26 centreboard (*Am. centerboard*)
  - 27 traveller (*Am. traveler*)
  - 28 mainsheet
  - 29 foresheet fairlead (jib fairlead)
  - 30 toestraps (hiking straps)
  - 31 tiller extension (hiking stick)
  - 32 tiller
  - 33 rudderhead (rudder stock)
  - 34 rudder blade (rudder)
  - 35 transom
  - 36 drain plug
  - 37 gooseneck
  - 38 window
  - 39 boom
  - 40 foot

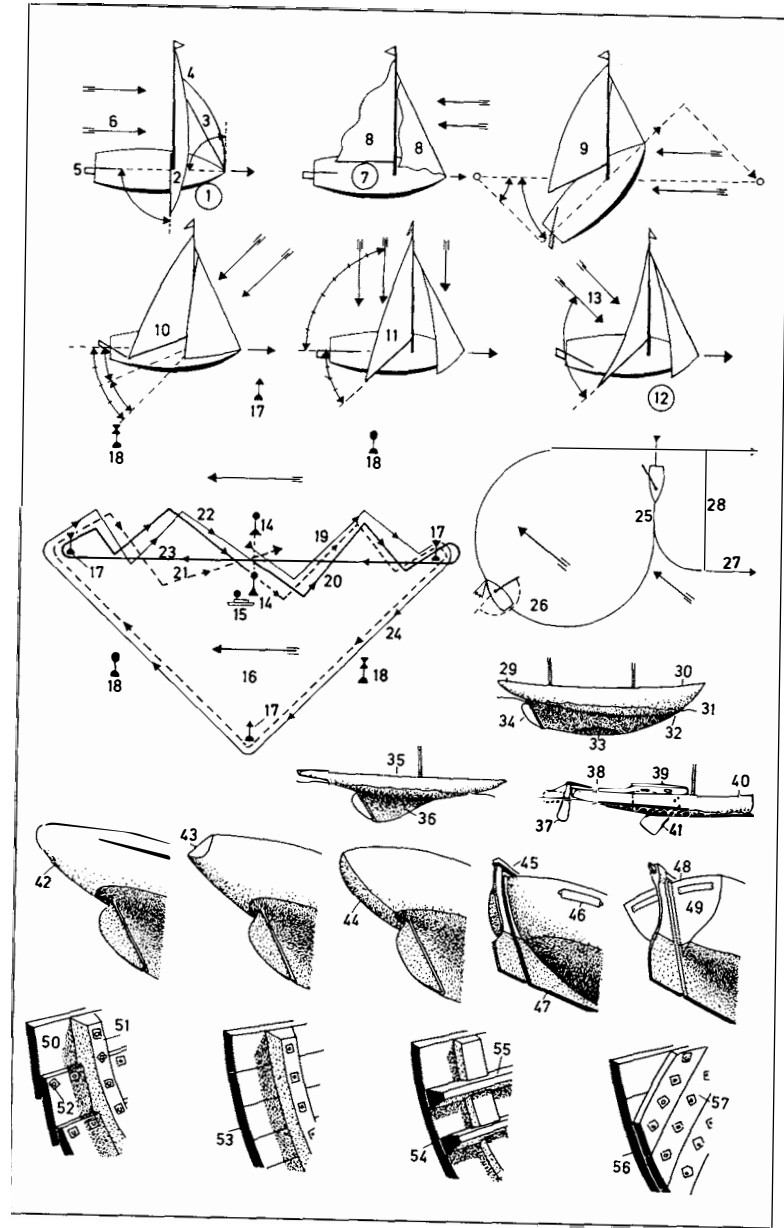
- 41 clew
  - 42 luff (leading edge)
  - 43 leech pocket (batten cleat, batten  
pocket)
  - 44 batten
  - 45 leech (trailing edge)
  - 46 mainsail
  - 47 headboard
  - 48 racing flag (burgee)
- 49-65 yacht classes**
- 49 Flying Dutchman
  - 50 O-Joller
  - 51 Finn dinghy (Finn)
  - 52 pirate
  - 53 12.00 m<sup>2</sup> sharpie
  - 54 tempest
  - 55 star
  - 56 soling
  - 57 dragon
  - 58 5.5-metre (*Am. 5.5-meter*) class
  - 59 6-metre (*Am. 6-meter*) R-class
  - 60 30.00 m<sup>2</sup> cruising yacht (coastal  
cruiser)
  - 61 30.00 m<sup>2</sup> dinghy cruiser
  - 62 25.00 m<sup>2</sup> one-design keelboat
  - 63 KR-class
  - 64 catamaran
  - 65 twin hull





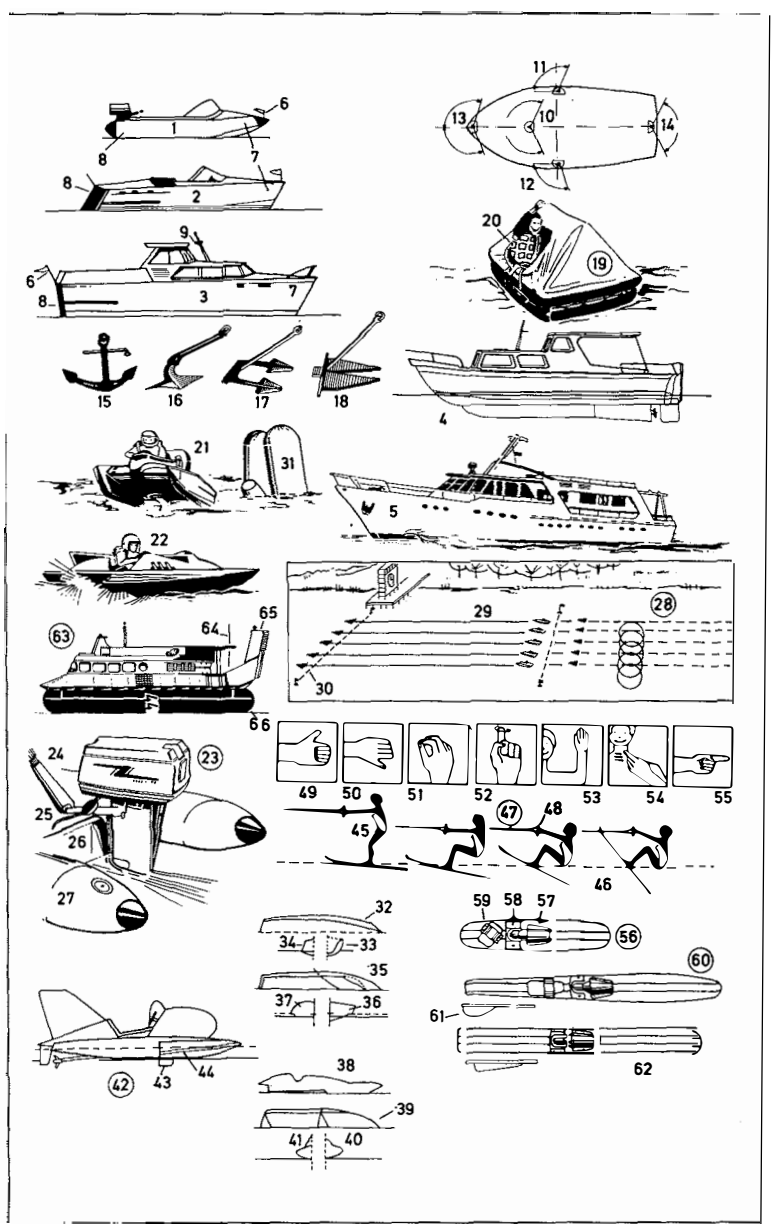
- 1-13 points of sailing and wind directions**  
1 sailing downwind (running)  
2 mainsail  
3 jib  
4 sails set goose-winged  
5 centre (*Am.* center) line  
6 wind direction  
7 yacht stopped head to wind  
8 sail, shivering  
9 luffing  
10 sailing close-hauled  
11 sailing with wind abeam  
12 sailing with free wind  
13 quartering wind (quarter wind)  
**14-24 regatta course**  
14 starting and finishing buoy  
15 committee boat  
16 triangular course (regatta course)  
17 buoy (mark) to be rounded  
18 buoy to be passed  
19 first leg  
20 second leg  
21 third leg  
22 windward leg  
23 downwind leg  
24 reaching leg  
**25-28 tacking**  
25 tack  
26 gybing (jibing)  
27 going about  
28 loss of distance during the gybe (jibe)  
**29-41 types of yacht hull**  
29-34 cruiser keelboat  
29 stern  
30 spoon bow  
31 waterline  
32 keel (ballast keel)  
33 ballast  
34 rudder  
35 racing keelboat  
36 lead keel  
37-41 keel-centreboard (*Am.* center-board) yawl  
37 retractable rudder  
38 cockpit

- 39 cabin superstructure (cabin)  
40 straight stem  
41 retractable centreboard (*Am.* centerboard)  
**42-49 types of yacht stern**  
42 yacht stern  
43 square stern  
44 canoe stern  
45 cruiser stern  
46 name plate  
47 deadwood  
48 transom stern  
49 transom  
**50-57 timber planking**  
50-52 clinker planking (clench planking)  
50 outside strake  
51 frame (rib)  
52 clenched nail (riveted nail)  
53 carvel planking  
54 ribband-carvel construction  
55 ribband, a stringer  
56 diagonal carvel planking  
57 inner planking



- 1-5 motorboats (powerboats, sportsboats)
- 1 inflatable sportsboat with outboard motor (outboard inflatable)
- 2 Z-drive motorboat (outdrive motorboat)
- 3 cabin cruiser
- 4 motor cruiser
- 5 30-metre (*Am.* 30-meter) ocean-going cruiser
- 6 association flag
- 7 name of craft (*or:* registration number)
- 8 club membership and port of registry (*Am.* home port)
- 9 association flag on the starboard crosstrees
- 10-14 navigation lights of sportsboats in coastal and inshore waters
- 10 white top light
- 11 green starboard sidelight
- 12 red port sidelight
- 13 green and red bow light (combined lantern)
- 14 white stern light
- 15-18 anchors
- 15 stocked anchor (Admiralty anchor), a bower anchor
- 16-18 lightweight anchor
- 16 CQR anchor (plough, *Am.* plow, anchor)
- 17 stockless anchor (patent anchor)
- 18 Danforth anchor
- 19 life raft
- 20 life jacket
- 21-44 powerboat racing
- 21 catamaran with outboard motor
- 22 hydroplane
- 23 racing outboard motor
- 24 tiller
- 25 fuel pipe
- 26 transom
- 27 buoyancy tube
- 28 start and finish
- 29 start
- 30 starting and finishing line
- 31 buoy to be rounded
- 32-37 displacement boats
- 32-34 round-bilge boat

- 32 view of hull bottom
- 33 section of fore ship
- 34 section of aft ship
- 35-37 V-bottom boat (vee-bottom boat)
- 35 view of hull bottom
- 36 section of fore ship
- 37 section of aft ship
- 38-44 planing boats (surface skimmers, skimmers)
- 38-41 stepped hydroplane (stepped skimmer)
- 38 side view
- 39 view of hull bottom
- 40 section of fore ship
- 41 section of aft ship
- 42 three-point hydroplane
- 43 fin
- 44 float
- 45-62 water skiing
- 45 water skier
- 46 deep-water start
- 47 tow line (towing line)
- 48 handle
- 49-55 water-ski signalling (code of hand signals from skier to boat driver)
- 49 signal for 'faster'
- 50 signal for 'slower' ('slow down')
- 51 signal for 'speed OK'
- 52 signal for 'turn'
- 53 signal for 'stop'
- 54 signal for 'cut motor'
- 55 signal for 'return to jetty' ('back to dock')
- 56-62 types of water ski
- 56 trick ski (figure ski), a monoski
- 57, 58 rubber binding
- 57 front foot binding
- 58 heel flap
- 59 strap support for second foot
- 60 slalom ski
- 61 skeg (fixed fin, fin)
- 62 jump ski
- 63 hovercraft (air-cushion vehicle)
- 64 propeller
- 65 rudder
- 66 skirt enclosing air cushion



- 1

aeroplane (*Am.* airplane) tow launch (aerotowing)
- 2

tug (towing plane)
- 3

towed glider (towed sailplane)
- 4

tow rope
- 5

winched launch
- 6

motor winch
- 7

cable parachute
- 8

motorized glider (powered glider)
- 9

high-performance glider (high-performance sailplane)
- 10

T-tail (T-tail unit)
- 11

wind sock (wind cone)
- 12

control tower (tower)
- 13

glider field
- 14

hangar
- 15

runway for aeroplanes (*Am.* air-planes)
- 16

wave soaring
- 17

lee waves (waves, wave system)
- 18

rotor
- 19

lenticular clouds (lenticulars)
- 20

thermal soaring
- 21

thermal
- 22

cumulus cloud (heap cloud, cumu-lus, woolpack cloud)
- 23

storm-front soaring
- 24

storm front
- 25

frontal upcurrent
- 26

cumulonimbus cloud (cumulonim-bus)
- 27

slope soaring
- 28

hill upcurrent (orographic lift)
- 29

multispar wing
- 30

main spar, a box spar
- 31

connector fitting
- 32

anchor rib
- 33

diagonal spar
- 34

leading edge
- 35

main rib
- 36

nose rib (false rib)
- 37

trailing edge
- 38

brake flap (spoiler)
- 39

torsional clamp
- 40

covering (skin)
- 41

aileron
- 42

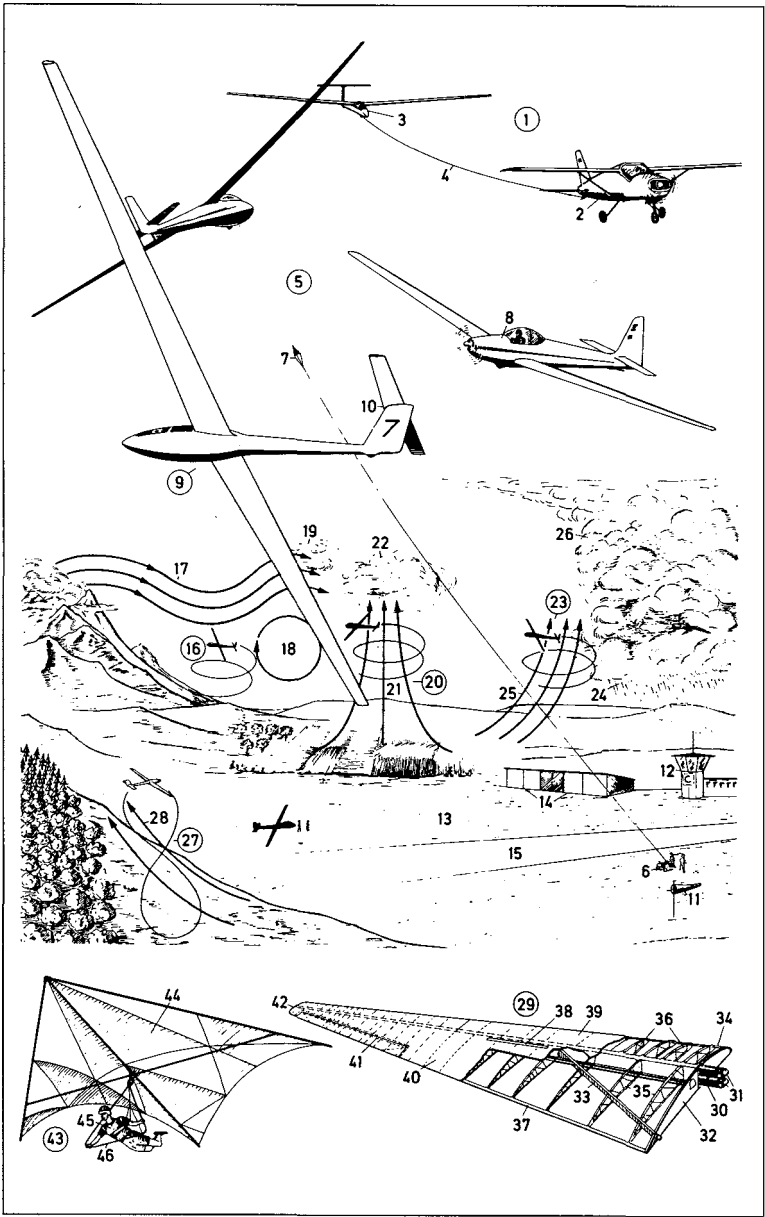
wing tip
- 43

hang gliding
- 44

hang glider
- 45

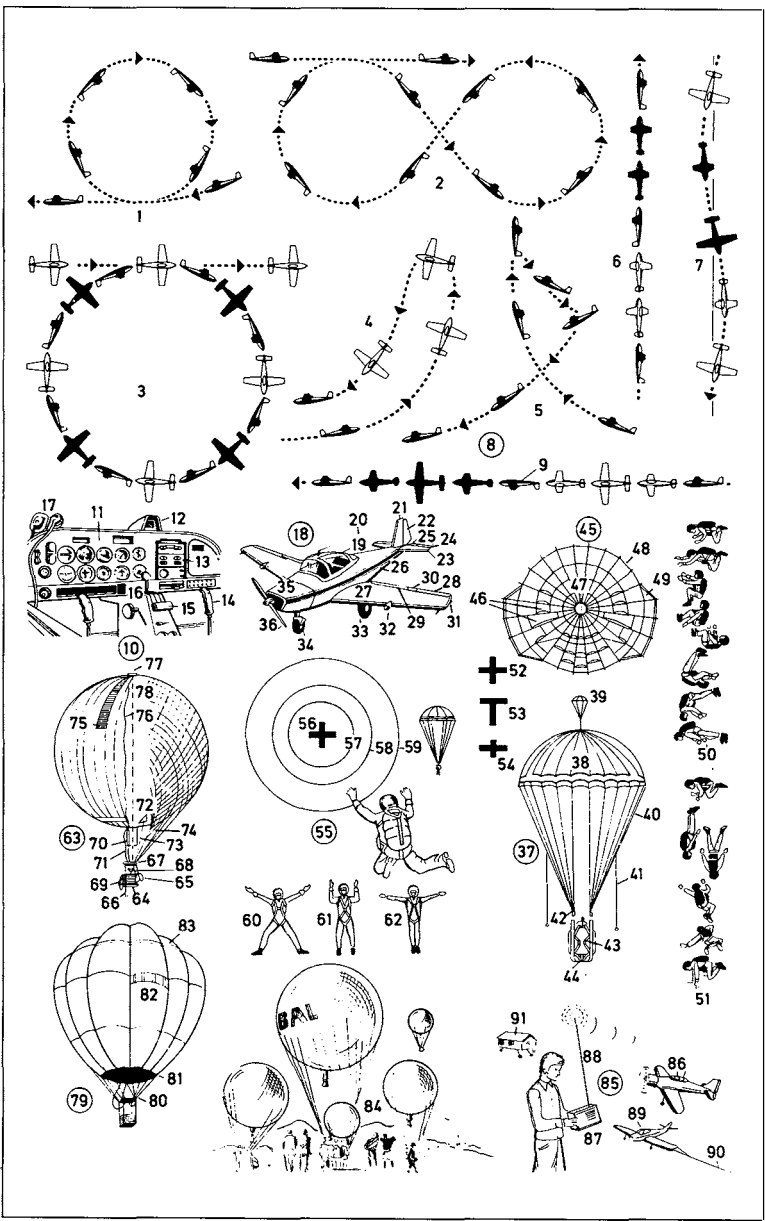
hang glider pilot
- 46

control frame



- 1-9 **aerobatics** (aerobic manoeuvres, *Am.* maneuvers)
- 1 loop
- 2 horizontal eight
- 3 rolling circle
- 4 stall turn (hammer head)
- 5 tail slide (whip stall)
- 6 vertical flick spin
- 7 spin
- 8 horizontal slow roll
- 9 inverted flight (negative flight)
- 10 **cockpit**
- 11 instrument panel
- 12 compass
- 13 radio and navigation equipment
- 14 control column (control stick)
- 15 throttle lever (throttle control)
- 16 mixture control
- 17 radio equipment
- 18 **two-seater plane for racing and aerobatics**
- 19 cabin
- 20 antenna
- 21 vertical stabilizer (vertical fin, tail fin)
- 22 rudder
- 23 tailplane (horizontal stabilizer)
- 24 elevator
- 25 trim tab (trimming tab)
- 26 fuselage (body)
- 27 wing
- 28 aileron
- 29 landing flap
- 30 trim tab (trimming tab)
- 31 navigation light (position light) [red]
- 32 landing light
- 33 main undercarriage unit (main landing gear unit)
- 34 nose wheel
- 35 engine
- 36 propeller (airscrew)
- 37-62 **parachuting** (sport parachuting)
- 37 parachute
- 38 canopy
- 39 pilot chute
- 40 suspension lines
- 41 steering line
- 42 riser
- 43 harness
- 44 pack
- 45 system of slots of the sports parachute
- 46 turn slots
- 47 apex
- 48 skirt
- 49 stabilizing panel
- 50, 51 style jump

- 50 back loop
- 51 spiral
- 52-54 ground signals
- 52 signal for 'permission to jump' ('conditions are safe') (target cross)
- 53 signal for 'parachuting suspended-repeat flight'
- 54 signal for 'parachuting suspended-aircraft must land'
- 55 accuracy jump
- 56 target cross
- 57 inner circle [radius 25 m]
- 58 middle circle [radius 50 m]
- 59 outer circle [radius 100 m]
- 60-62 free-fall positions
- 60 full spread position
- 61 frog position
- 62 T position
- 63-84 **ballooning**
- 63 gas balloon
- 64 gondola (balloon basket)
- 65 ballast (sandbags)
- 66 mooring line
- 67 hoop
- 68 flight instruments (instruments)
- 69 trail rope
- 70 mouth (neck)
- 71 neck line
- 72 emergency rip panel
- 73 emergency ripping line
- 74 network (net)
- 75 rip panel
- 76 ripping line
- 77 valve
- 78 valve line
- 79 hot-air balloon
- 80 burner platform
- 81 mouth
- 82 vent
- 83 rip panel
- 84 balloon take-off
- 85-91 **flying model aeroplanes** (*Am.* air-planes)
- 85 radio-controlled model flight
- 86 remote-controlled free flight model
- 87 remote control radio
- 88 antenna (transmitting antenna)
- 89 control line model
- 90 mono-line control system
- 91 flying kennel, a K9-class model



**1-7 dressage**

- 1 arena (dressage arena)
- 2 rail
- 3 school horse
- 4 dark coat (black coat)
- 5 white breeches
- 6 top hat
- 7 gait (*also*: school figure)
- 8-14 show jumping**
- 8 obstacle (fence), an almost-fixed obstacle; *sim.*: gate, gate and rails, palisade, oser, mound, wall
- 9 jumper
- 10 jumping saddle
- 11 girth
- 12 snaffle
- 13 red coat (hunting pink, pink; *also*: dark coat)
- 14 hunting cap (riding cap)
- 15 bandage
- 16-19 three-day event**
- 16 endurance competition
- 17 cross-country
- 18 helmet (*also*: hard hat, hard hunting cap)
- 19 course markings

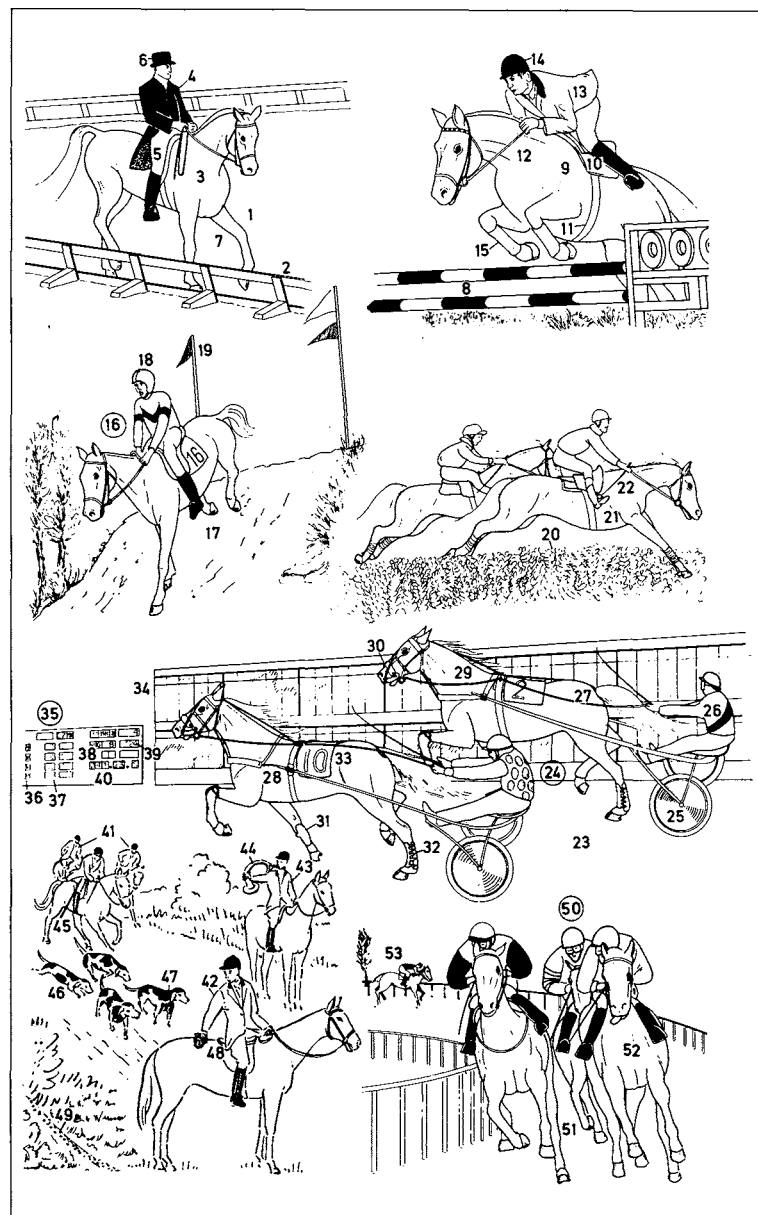
**20-22 steeplechase**

- 20 water jump, a fixed obstacle
- 21 jump
- 22 riding switch

**23-40 harness racing (harness horse racing)**

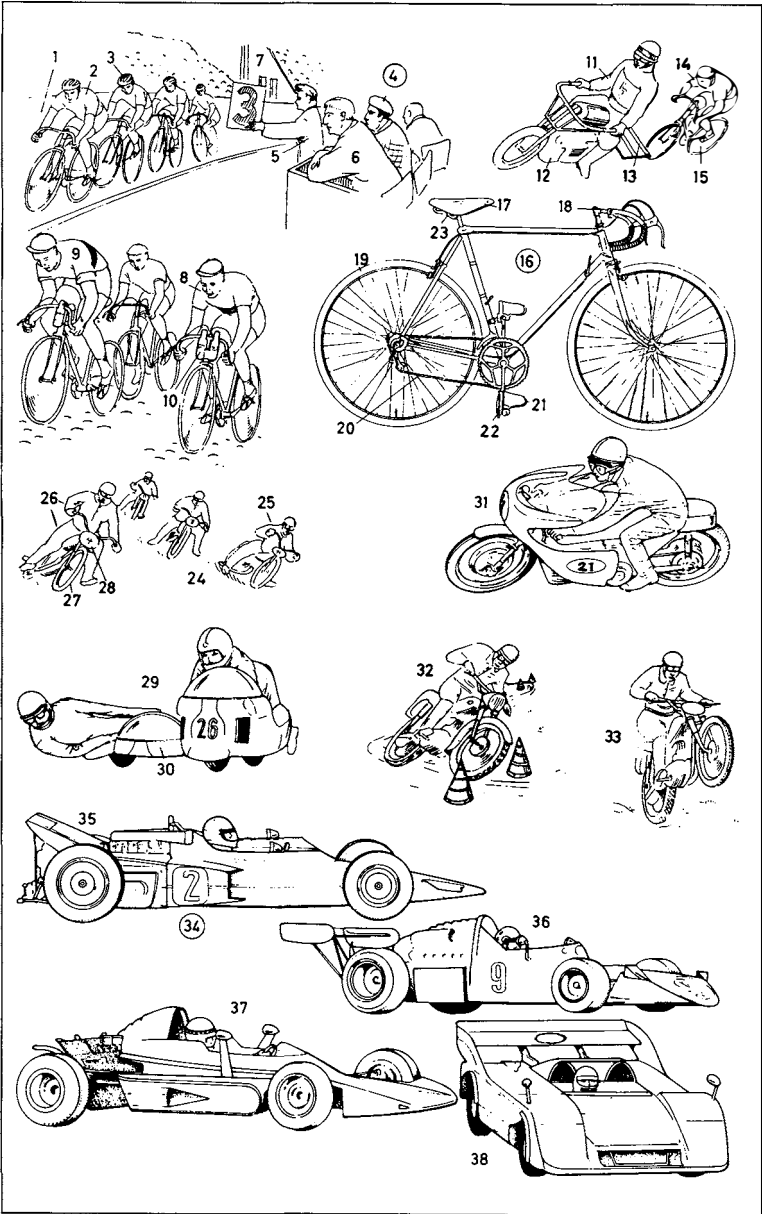
- 23 harness racing track (track)
- 24 sulky
- 25 spoke wheel (spoked wheel) with plastic wheel disc (disk)
- 26 driver in trotting silks
- 27 rein
- 28 trotter
- 29 piebald horse
- 30 shadow roll
- 31 elbow boot
- 32 rubber boot
- 33 number
- 34 glass-covered grandstand with totalizator windows (tote windows) inside

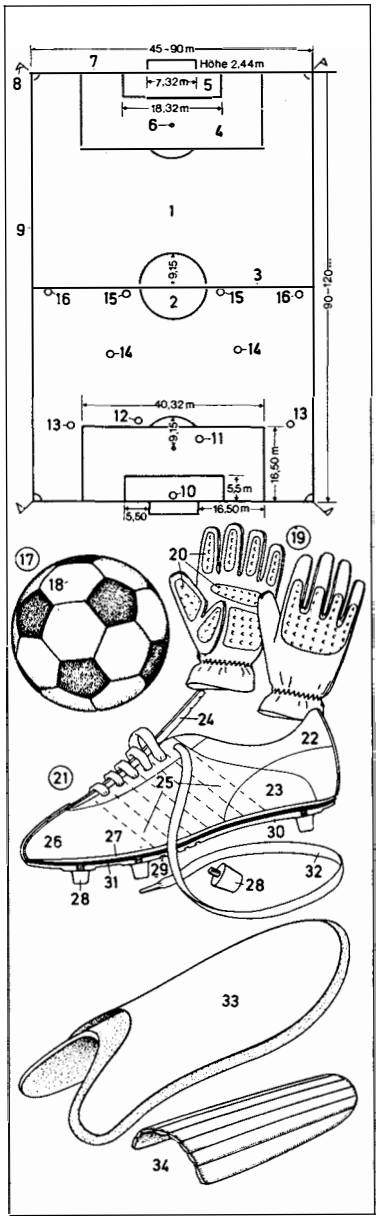
- 35 totalizator (tote)
- 36 number
- 37 odds (price, starting price, price offered)
- 38 winners' table
- 39 winner's price
- 40 time indicator
- 41-49 hunt, a drag hunt; *sim.*: fox hunt, paper chase (paper hunt, hare-and-hounds)**
- 41 field
- 42 hunting pink
- 43 whipper-in (whip)
- 44 hunting horn
- 45 Master (Master of foxhounds, MFH)
- 46 pack of hounds (pack)
- 47 staghound
- 48 drag
- 49 scented trail (artificial scent)
- 50 horse racing (racing)**
- 51 field (racehorses)
- 52 favourite (*Am.* favorite)
- 53 outsider



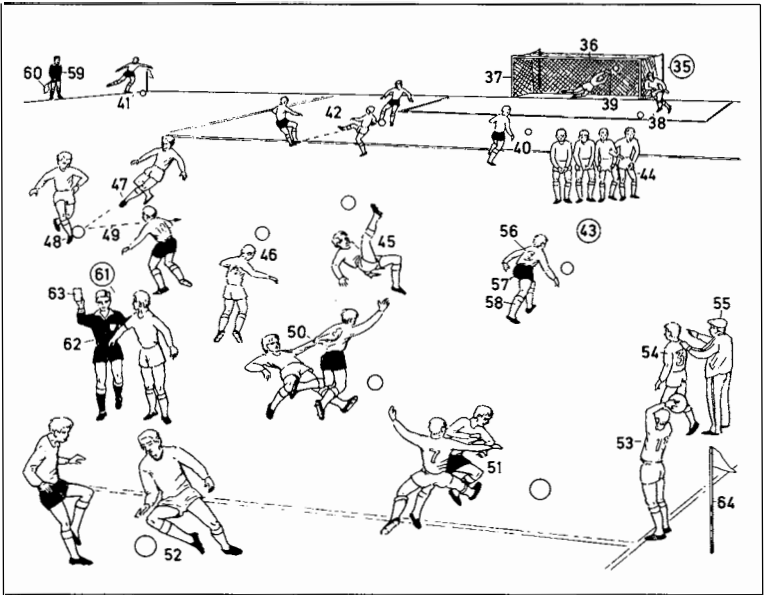
- 1-23 cycle racing**
- 1** cycling track (cycle track); *here:* indoor track
- 2-7** six-day race
- 2** six-day racer, a track racer (track rider) on the track
- 3** crash hat
- 4** stewards
- 5** judge
- 6** lap scorer
- 7** rider's box (racer's box)
- 8-10** road race
- 8** road racer, a racing cyclist
- 9** racing jersey
- 10** water bottle
- 11-15** motor-paced racing (long-distance racing)
- 11** pacer, a motorcyclist
- 12** pacer's motorcycle
- 13** roller, a safety device
- 14** stayer (motor-paced track rider)
- 15** motor-paced cycle, a racing cycle
- 16** racing cycle (racing bicycle) for road racing (road race bicycle)
- 17** racing saddle, an unsprung saddle
- 18** racing handlebars (racing handlebar)
- 19** tubular tyre (*Am.* tire) (racing tyre)
- 20** chain
- 21** toe clip (racing toe clip)
- 22** strap
- 23** spare tubular tyre (*Am.* tire)
- 24-38 motorsports**
- 24-28** motorcycle racing; *disciplines:*
  - grasstrack racing, road racing, sand track racing, cement track racing, speedway [on ash or shale tracks], mountain racing, ice racing (ice speedway), scramble racing, trial, moto cross
- 24** sand track
- 25** racing motorcyclist (rider)
- 26** leather overalls (leathers)
- 27** racing motorcycle, a solo machine
- 28** number (number plate)
- 29** sidecar combination on the bend

- 30** sidecar
- 31** streamlined racing motorcycle [500 cc.]
- 32** gymkhana, a competition of skill; *here:* motorcyclist performing a jump
- 33** cross-country race, a test in performance
- 34-38** racing cars
- 34** Formula One racing car (a *mono posto*)
- 35** rear spoiler (aerofoil, *Am.* airfoil)
- 36** Formula Two racing car
- 37** Super-Vee racing car
- 38** prototype, a racing car





- 1-16 football pitch
- 1 field (park)
- 2 centre (*Am.* center) circle
- 3 half-way line
- 4 penalty area
- 5 goal area
- 6 penalty spot
- 7 goal line (by-line)
- 8 corner flag
- 9 touch line
- 10 goalkeeper
- 11 sweeper (*libero*)
- 12 inside defender
- 13 outside defender
- 14 midfield players
- 15 inside forward (striker)
- 16 outside forward (winger)
- 17 football
- 18 valve
- 19 goalkeeper's gloves
- 20 foam rubber padding
- 21 football boot
- 22 leather lining
- 23 counter
- 24 foam rubber tongue
- 25 bands
- 26 shaft
- 27 insole
- 28 screw-in stud
- 29 groove
- 30 nylon sole
- 31 inner sole
- 32 lace (bootlace)
- 33 football pad with ankle guard
- 34 shin guard
- 35 goal
- 36 crossbar
- 37 post (goalpost)
- 38 goal kick
- 39 save with the fists
- 40 penalty (penalty kick)
- 41 corner (corner kick)
- 42 offside
- 43 free kick
- 44 wall
- 45 bicycle kick (overhead bicycle kick)



- 46 header
- 47 pass (passing the ball)
- 48 receiving the ball (taking a pass)
- 49 short pass (one-two)
- 50 foul (infringement)
- 51 obstruction
- 52 dribble
- 53 throw-in
- 54 substitute
- 55 coach
- 56 shirt (jersey)
- 57 shorts
- 58 sock (football sock)
- 59 linesman
- 60 linesman's flag
- 61 sending-off
- 62 referee
- 63 red card; *also*: yellow card
- 64 centre (*Am.* center) flag

- 1 handball (indoor handball)

2 handball player, a field player

3 attacker, making a jump throw

4 defender

5 penalty line

6 hockey

7 goal

8 goalkeeper

9 pad (shin pad, knee pad)

10 kicker

11 face guard

12 glove

13 hockey stick

14 hockey ball

15 hockey player

16 striking circle

17 sideline

18 corner

19 rugby (rugby football)

20 scrum (scrummage)

21 rugby ball

22 American football (Am. football)

23 player (football player) carrying the ball

24 helmet

25 face guard

26 padded jersey

27 ball (pigskin)

28 basketball

29 basketball

30 backboard

31 backboard support

32 basket

33 basket ring

34 target rectangle

35 basketball player shooting

36 end line

37 restricted area

38 free-throw line

39 substitute

40-69 baseball

40-58 field (park)

40 spectator barrier

41 outfielder

42 short stop

43 second base

44 baseman

45 runner

46 first base

47 third base

48 foul line (base line)

49 pitcher's mound

50 pitcher

51 batter's position

52 batter

53 home base (home plate)

54 catcher

55 umpire

56 coach's box

57 coach

58 batting order

59,60 baseball gloves (baseball mitts)

59 fielder's glove (fielder's mitt)

60 catcher's glove (catcher's mitt)

61 baseball

62 bat

63 batter at bat

64 catcher

65 umpire

66 runner

67 base plate

68 pitcher

69 pitcher's mound

70-76 cricket

70 wicket with bails

71 bowling crease

72 popping crease

73 wicket keeper of the fielding side

74 batsman

75 bat (cricket bat)

76 fielder (bowler)

77-82 croquet

77 winning peg

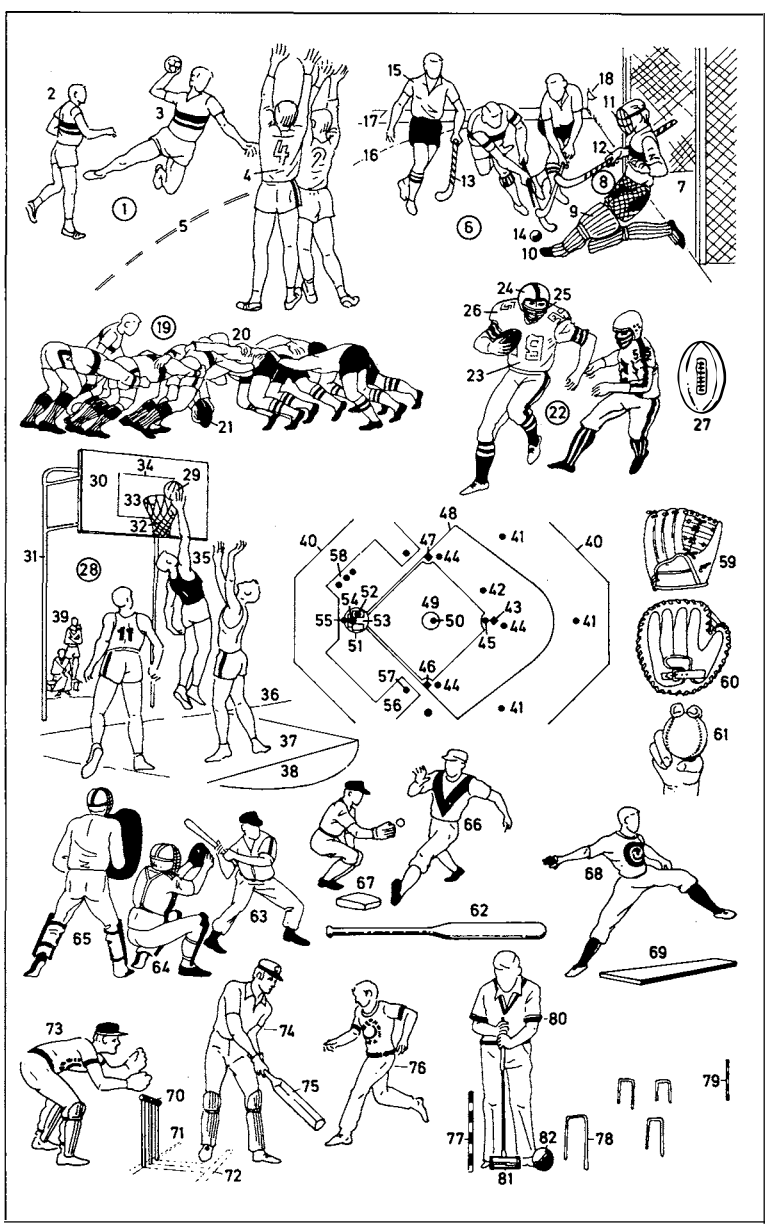
78 hoop

79 corner peg

80 croquet player

81 croquet mallet

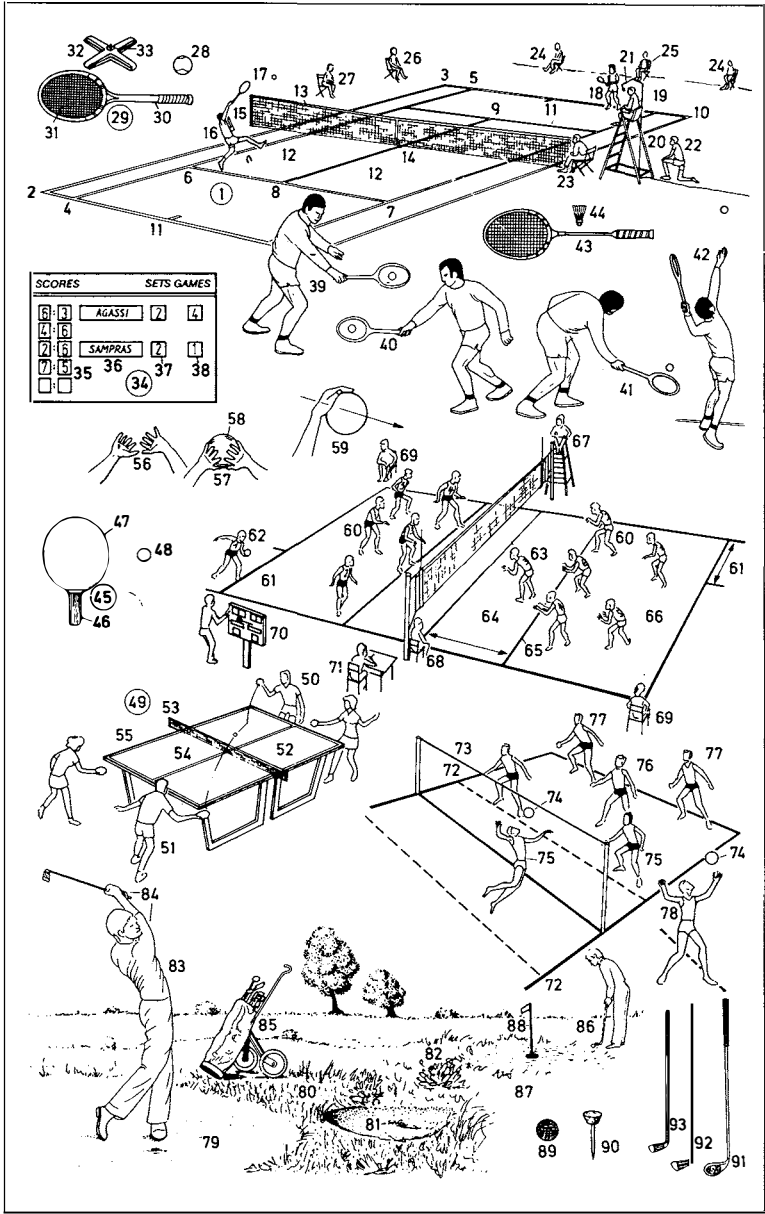
82 croquet ball





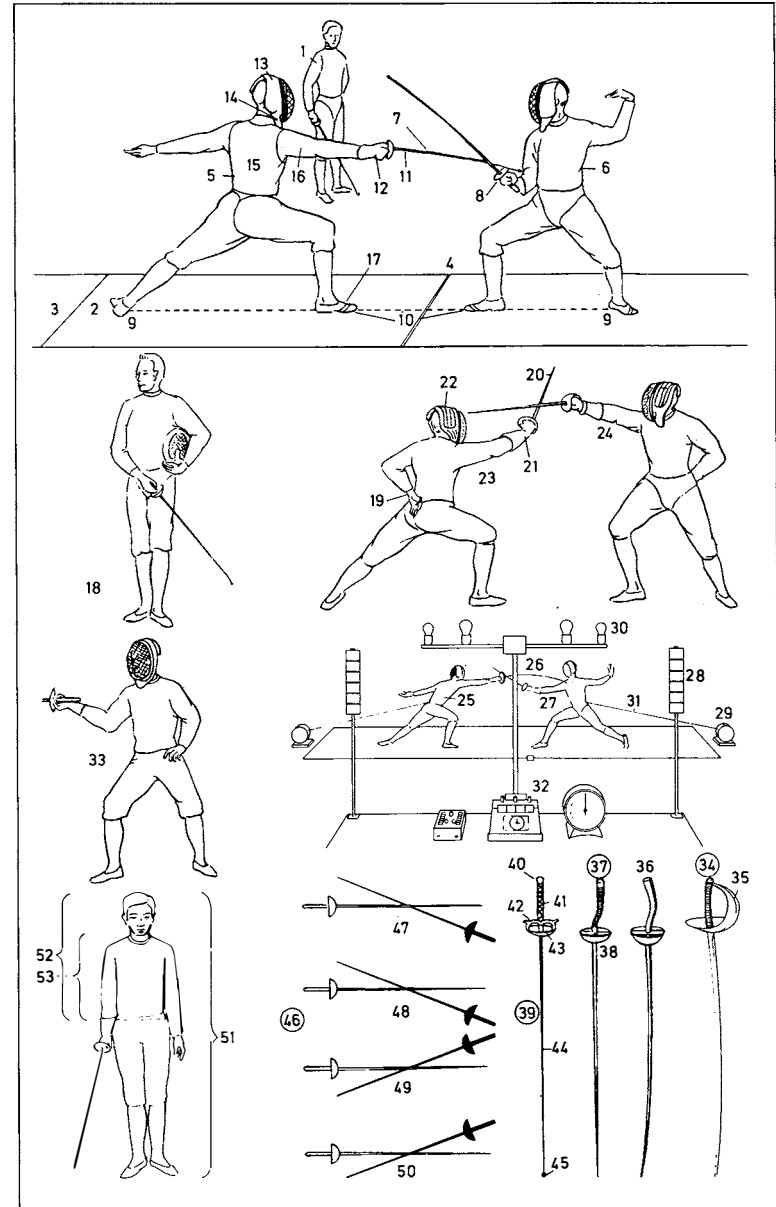
- 1-42 tennis
- 1 tennis court
- 2-3 doubles sideline (sideline for doubles matches); *kinds of doubles*: men's doubles, women's doubles, mixed doubles
- 3-10 base line
- 4-5 singles sideline (sideline for singles matches); *kinds of singles*: men's singles, women's singles
- 6-7 service line
- 8-9 centre (*Am.* center) line
- 11 centre (*Am.* center) mark
- 12 service court
- 13 net (tennis net)
- 14 net strap
- 15 net post
- 16 tennis player
- 17 smash
- 18 opponent
- 19 umpire
- 20 umpire's chair
- 21 umpire's microphone
- 22 ball boy
- 23 net-cord judge
- 24 foot-fault judge
- 25 centre (*Am.* center) line judge
- 26 base line judge
- 27 service line judge
- 28 tennis ball
- 29 tennis racket (tennis racquet, racket, racquet)
- 30 racket handle (racquet handle)
- 31 strings (striking surface)
- 32 press (racket press, racquet press)
- 33 tightening screw
- 34 scoreboard
- 35 results of sets
- 36 player's name
- 37 number of sets
- 38 state of play
- 39 backhand stroke
- 40 forehand stroke
- 41 volley (forehand volley at normal height)
- 42 service
- 43,44 badminton
- 43 badminton racket (badminton racquet)
- 44 shuttle (shuttlecock)
- 45-55 table tennis
- 45 table tennis racket (racquet) (table tennis bat)
- 46 racket (racquet) handle (bat handle)
- 47 blade covering
- 48 table tennis ball

- 49 table tennis players; *here*: mixed doubles
- 50 receiver
- 51 server
- 52 table tennis table
- 53 table tennis net
- 54 centre (*Am.* center) line
- 55 sideline
- 56-71 volleyball
- 56,57 correct placing of the hands
- 58 volleyball
- 59 serving the volleyball
- 60 blocker
- 61 service area
- 62 server
- 63 front-line player
- 64 attack area
- 65 attack line
- 66 defence (*Am.* defense) area
- 67 referee
- 68 umpire
- 69 linesman
- 70 scoreboard
- 71 scorer
- 72-78 faustball
- 72 base line
- 73 tape
- 74 faustball
- 75 forward
- 76 centre (*Am.* center)
- 77 back
- 78 hammer blow
- 79-93 golf
- 79-82 course (holes)
- 79 teeing ground
- 80 rough
- 81 bunker (*Am.* sand trap)
- 82 green (putting green)
- 83 golfer, driving
- 84 follow-through
- 85 golf trolley
- 86 putting (holing out)
- 87 hole
- 88 pin (flagstick)
- 89 golf ball
- 90 tee
- 91 wood, a driver; *sim.*: brassie (brassy, brassey)
- 92 iron
- 93 putter



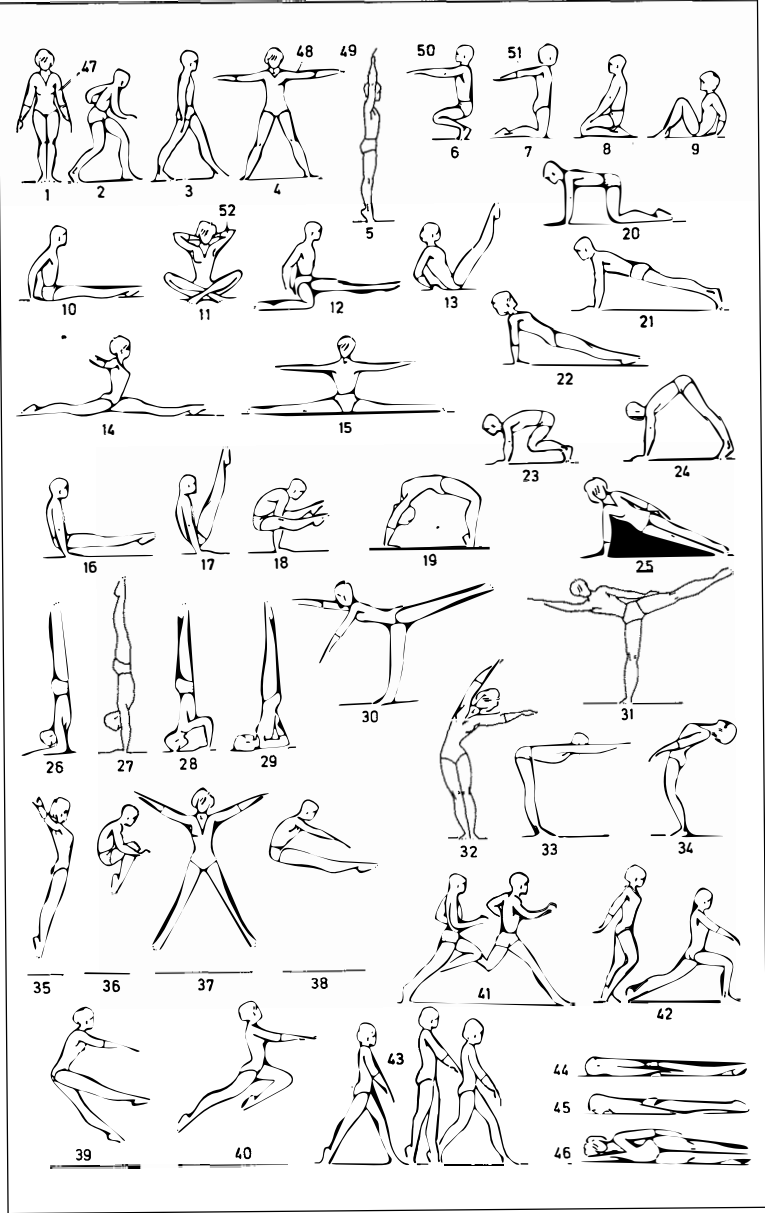
## 294 Fencing

- 32 electronic scoring equipment  
33 on guard position  
**34-45 fencing weapons**  
34 light sabre (*Am. saber*), a cut and thrust weapon  
35 guard  
36 épée, a thrust weapon  
37 French foil, a thrust weapon  
38 guard (*coquille*)  
39 Italian foil  
40 foil pommel  
41 handle  
42 cross piece (*quillons*)  
43 guard (*coquille*)  
44 blade  
45 button  
46 engagements  
47 quarte (*carte*) engagement  
48 tierce engagement (*also: sixte engagement*)  
49 circling engagement  
50 seconde engagement (*also: octave engagement*)  
**51-53 target areas**  
51 the whole body in épée fencing (men)  
52 head and upper body down to the groin in sabre (*Am. saber*) fencing (men)  
53 trunk from the neck to the groin in foil fencing (ladies and men)



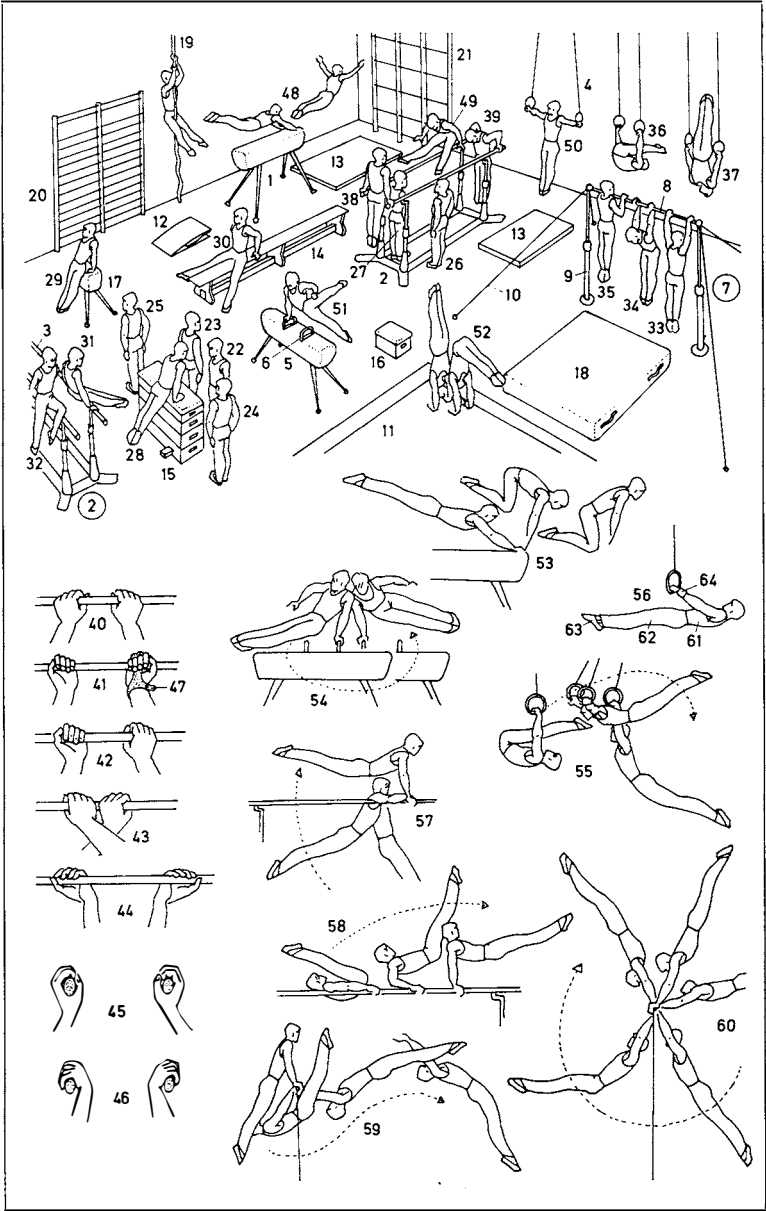
- 1 basic position (starting position)
- 2 running posture
- 3 side straddle
- 4 straddle (forward straddle)
- 5 toe stand
- 6 crouch
- 7 upright kneeling position
- 8 kneeling position, seat on heels
- 9 squat
- 10 L seat (long sitting)
- 11 tailor seat (sitting tailor-style)
- 12 hurdle (hurdle position)
- 13 V-seat
- 14 side split
- 15 forward split
- 16 L-support
- 17 V-support
- 18 straddle seat
- 19 bridge
- 20 kneeling front support
- 21 front support
- 22 back support
- 23 crouch with front support
- 24 arched front support
- 25 side support
- 26 forearm stand (forearm balance)
- 27 handstand
- 28 headstand
- 29 shoulder stand (shoulder balance)
- 30 forward horizontal stand (arabesque)
- 31 rearward horizontal stand
- 32 trunk-bending sideways
- 33 trunk-bending forwards
- 34 arch
- 35 astride jump (butterfly)
- 36 tuck jump
- 37 astride jump
- 38 pike
- 39 scissor jump
- 40 stag jump (stag leap)
- 41 running step
- 42 lunge
- 43 forward pace
- 44 lying on back
- 45 prone position

- 46 lying on side
- 47 holding arms downwards
- 48 holding (extending) arms sideways
- 49 holding arms raised upward
- 50 holding (extending) arms forward
- 51 arms held (extended) backward
- 52 hands clasped behind the head



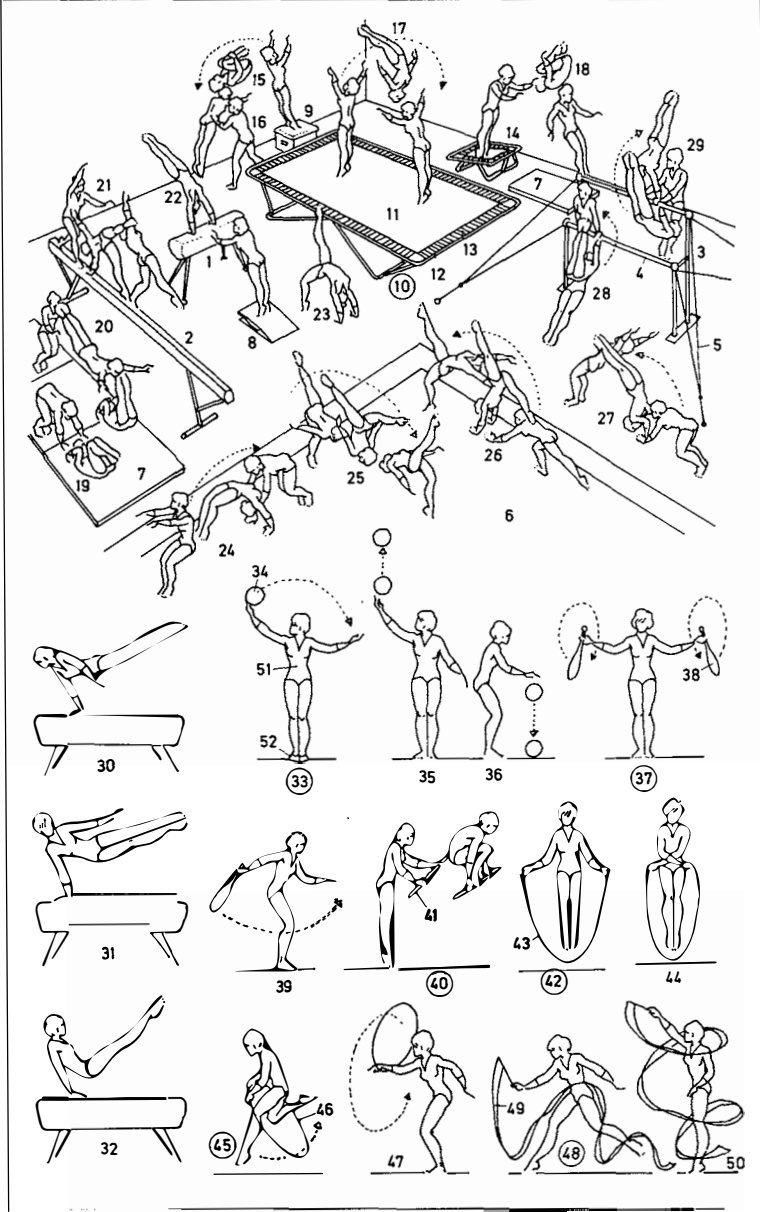
- 1-11
gymnastics apparatus in men's Olympic gymnastics
- 1
long horse (horse, vaulting horse)
- 2
parallel bars
- 3
bar
- 4
rings (stationary rings)
- 5
pommel horse (side horse)
- 6
pommel
- 7
horizontal bar (high bar)
- 8
bar
- 9
upright
- 10
stay wires
- 11
floor (12 m × 12 m floor area)
- 12-21
auxiliary apparatus and apparatus for school and club gymnastics
- 12
springboard (Reuther board)
- 13
landing mat
- 14
bench
- 15
box
- 16
small box
- 17
buck
- 18
mattress
- 19
climbing rope (rope)
- 20
wall bars
- 21
window ladder
- 22-39
positions in relation to the apparatus
- 22
side, facing
- 23
side, facing away
- 24
end, facing
- 25
end, facing away
- 26
outside, facing
- 27
inside, facing
- 28
front support
- 29
back support
- 30
straddle position
- 31
seated position outside
- 32
riding seat outside
- 33
hang
- 34
reverse hang
- 35
hang with elbows bent
- 36
piked reverse hang
- 37
straight inverted hang
- 38
straight hang
- 39
bent hang
- 40-46
grasps (kinds of grasp)
- 40
overgrasp on the horizontal bar

- 41
undergrasp on the horizontal bar
- 42
combined grasp on the horizontal bar
- 43
cross grasp on the horizontal bar
- 44
rotated grasp on the horizontal bar
- 45
outside grip on the parallel bars
- 46
rotated grasp on the parallel bars
- 47
leather handstrap
- 48-60
apparatus exercises
- 48
long-fly on the horse
- 49
rise to straddle on the parallel bars
- 50
crucifix on the rings
- 51
scissors (scissors movement) on the pommel horse
- 52
legs raising into a handstand on the floor
- 53
squat vault on the horse
- 54
double leg circle on the pommel horse
- 55
hip circle backwards on the rings
- 56
lever hang on the rings
- 57
rearward swing on the parallel bars
- 58
forward kip into upper arm hang on the parallel bars
- 59
backward underswing on the horizontal bar
- 60
backward grand circle on the horizontal bar
- 61-63
gymnastics kit
- 61
singlet (vest, *Am.* undershirt)
- 62
gym trousers
- 63
gym shoes
- 64
wristband

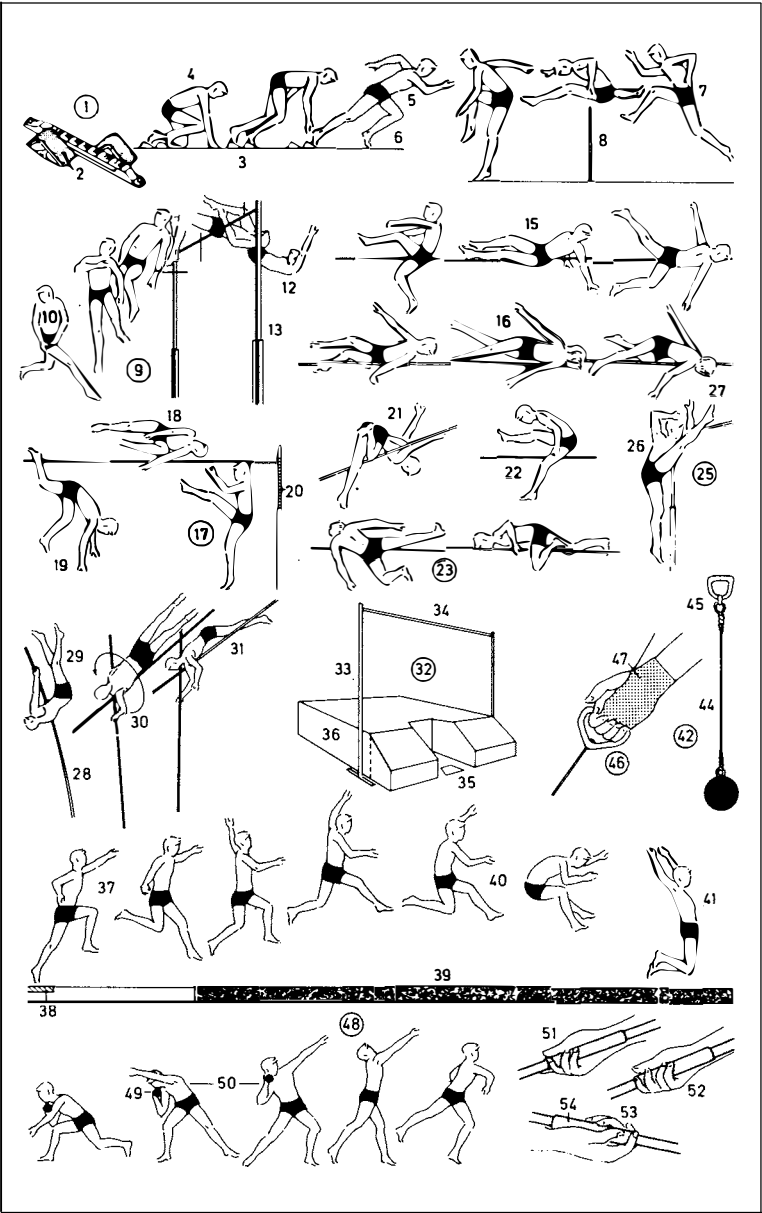


- 1-6
gymnastics apparatus
in women's Olympic gymnastics
- 1
horse (vaulting horse)
- 2
beam
- 3
asymmetric bars (uneven bars)
- 4
bar
- 5
stay wires
- 6
floor (12 m × 12 m floor area)
- 7-14
auxiliary apparatus and apparatus for school and club gymnastics
- 7
landing mat
- 8
springboard (Reuther board)
- 9
small box
- 10
trampoline
- 11
sheet (web)
- 12
frame
- 13
rubber springs
- 14
springboard trampoline
- 15-32
apparatus exercises
- 15
backward somersault
- 16
spotting position (standing-in position)
- 17
vertical backward somersault on the trampoline
- 18
forward somersault on the springboard trampoline
- 19
forward roll on the floor
- 20
long-fly to forward roll on the floor
- 21
cartwheel on the beam
- 22
handspring on the horse
- 23
backward walkover
- 24
back flip (flik-flak) on the floor
- 25
free walkover forward on the floor
- 26
forward walkover on the floor
- 27
headspring on the floor
- 28
upstart on the asymmetric bars
- 29
free backward circle on the asymmetric bars
- 30
face vault over the horse
- 31
flank vault over the horse
- 32
back vault (rear vault) over the horse
- 33-50
gymnastics with hand apparatus
- 33
hand-to-hand throw
- 34
gymnastic ball
- 35
high toss
- 36
bounce

- 37
hand circling with two clubs
- 38
gymnastic club
- 39
swing
- 40
tuck jump
- 41
bar
- 42
skip
- 43
rope (skipping rope)
- 44
criss-cross skip
- 45
skip through the hoop
- 46
gymnastic hoop
- 47
hand circle
- 48
serpent
- 49
gymnastic ribbon
- 50
spiral
- 51, 52
gymnastics kit
- 51
leotard
- 52
gym shoes

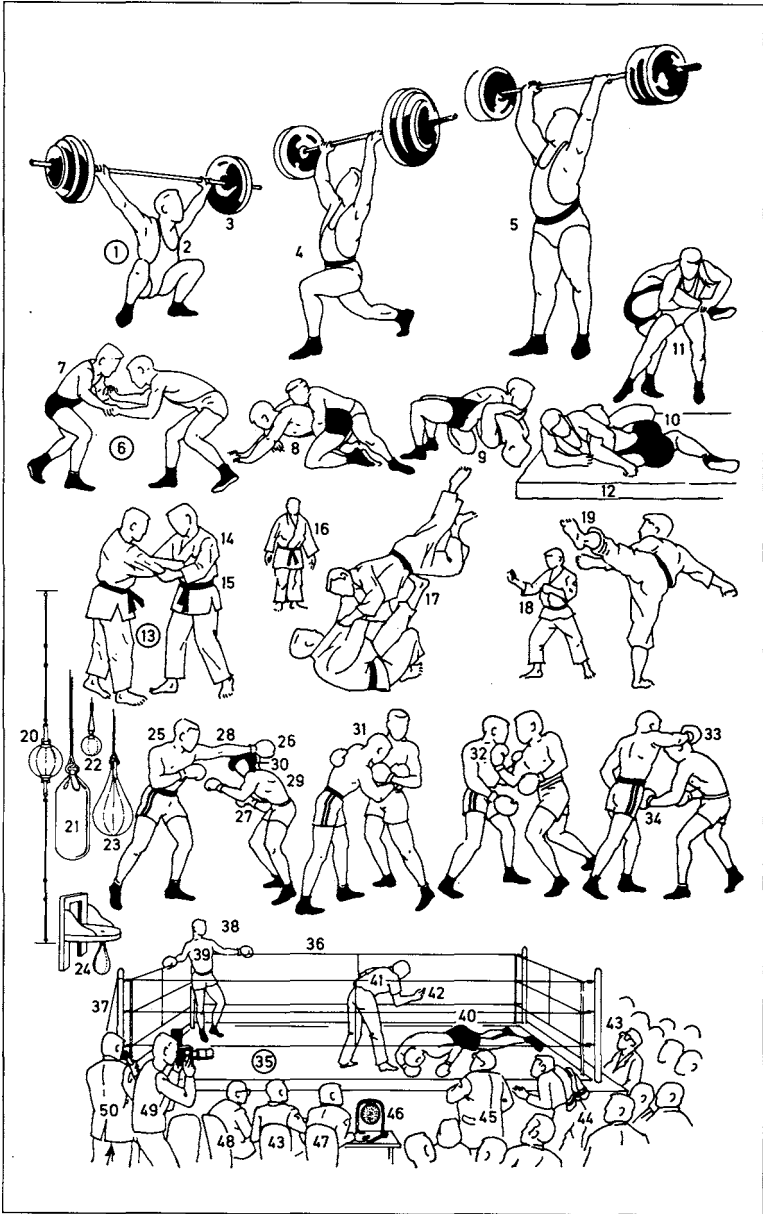


- 1-8
running
- 1-6
start
- 1
starting block
- 2
adjustable block (pedal)
- 3
start
- 4
crouch start
- 5
runner, a sprinter; *also*: middle-distance runner, long-distance runner
- 6
running track (track), a cinder track or synthetic track
- 7, 8
hurdles (hurdle racing); *sim.*: steeplechase
- 7
clearing the hurdle
- 8
hurdle
- 9-41
jumping and vaulting
- 9-27
high jump
- 9
Fosbury flop (Fosbury, flop)
- 10
high jumper
- 11
body rotation (rotation on the body's longitudinal and latitudinal axes)
- 12
shoulder landing
- 13
upright
- 14
bar (crossbar)
- 15
Eastern roll
- 16
Western roll
- 17
roll
- 18
rotation
- 19
landing
- 20
height scale
- 21
Eastern cut-off
- 22
scissors (scissor jump)
- 23
straddle (straddle jump)
- 24
turn
- 25
vertical free leg
- 26
take-off
- 27
free leg
- 28-36
pole vault
- 28
pole (vaulting pole)
- 29
pole vaulter (vaulter) in the pull-up phase
- 30
swing
- 31
crossing the bar
- 32
high jump apparatus (high jump equipment)
- 33
upright
- 34
bar (crossbar)
- 35
box
- 36
landing area (landing pad)
- 37-41
long jump
- 37
take-off
- 38
take-off board
- 39
landing area
- 40
hitch-kick
- 41
hang
- 42-47
hammer throw
- 42
hammer
- 43
hammer head
- 44
handle
- 45
grip
- 46
holding the grip
- 47
glove
- 48
shot put
- 49
shot (weight)
- 50
O'Brien technique
- 51-53
javelin throw
- 51
grip with thumb and index finger
- 52
grip with thumb and middle finger
- 53
horseshoe grip
- 54
binding



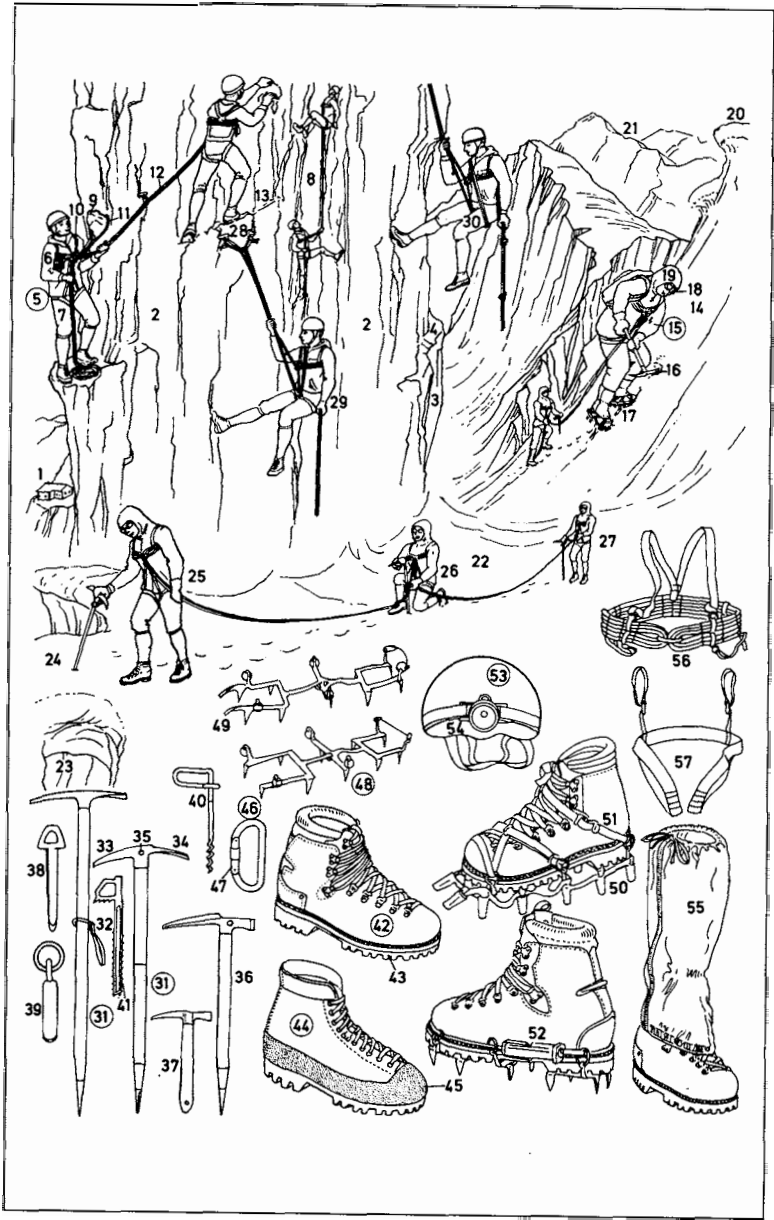
- 1-5 **weightlifting**
- 1 squat-style snatch
- 2 weightlifter
- 3 disc (disk) barbell
- 4 jerk with split
- 5 maintained lift
- 6-12 **wrestling**
- 6-9 Greco-Roman wrestling
- 6 standing wrestling (wrestling in standing position)
- 7 wrestler
- 8 on-the-ground wrestling (*here*: the referee's position)
- 9 bridge
- 10-12 freestyle wrestling
- 10 bar arm (arm bar) with grapevine
- 11 double leg lock
- 12 wrestling mat (mat)
- 13-17 **judo** (*sim.*: ju-jitsu, jiu-jitsu, ju-jutsu)
- 13 drawing the opponent off balance to the right and forward
- 14 judoka (judoist)
- 15 coloured (*Am.* colored) belt, as a symbol of Dan grade
- 16 referee
- 17 judo throw
- 18, 19 **karate**
- 18 karateka
- 19 side thrust kick, a kicking technique
- 20-50 **boxing** (boxing match)
- 20-24 training apparatus (training equipment)
- 20 spring-supported punch ball
- 21 punch bag (*Am.* punching bag)
- 22 speed ball
- 23 suspended punch ball
- 24 punch ball
- 25 boxer, an amateur boxer (boxes in a singlet, vest, *Am.* undershirt) or a professional boxer (boxes without singlet)
- 26 boxing glove
- 27 sparring partner
- 28 straight punch (straight blow)
- 29 ducking and sidestepping

- 30 headguard
- 31 infighting; *here*: clinch
- 32 uppercut
- 33 hook to the head; *here*: right hook
- 34 punch below the belt, a foul punch (illegal punch, foul)
- 35-50 **boxing match** (boxing contest), a title fight (title bout)
- 35 boxing ring (ring)
- 36 ropes
- 37 stay wire (stay rope)
- 38 neutral corner
- 39 winner
- 40 loser by a knockout
- 41 referee
- 42 counting out
- 43 judge
- 44 second
- 45 manager
- 46 gong
- 47 timekeeper
- 48 record keeper
- 49 press photographer
- 50 sports reporter (reporter)



- 1-57 mountaineering (mountain climbing, Alpinism)
- 1 hut (Alpine Club hut, mountain hut, base)
- 2-13 climbing (rock climbing) [rock climbing technique]
- 2 rock face (rock wall)
- 3 fissure (vertical, horizontal, or diagonal fissure)
- 4 ledge (rock ledge, grass ledge, scree ledge, snow ledge, ice ledge)
- 5 mountaineer (climber, mountain climber, Alpinist)
- 6 anorak (high-altitude anorak, snowshirt, padded jacket)
- 7 breeches (climbing breeches)
- 8 chimney
- 9 belay (spike, rock spike)
- 10 belay
- 11 rope sling (sling)
- 12 rope
- 13 spur
- 14-21 snow and ice climbing [snow and ice climbing technique]
- 14 ice slope (firn slope)
- 15 snow and ice climber
- 16 ice axe (Am. ax)
- 17 step (ice step)
- 18 snow goggles
- 19 hood (anorak hood)
- 20 cornice (snow cornice)
- 21 ridge (ice ridge)
- 22-27 rope (roped party)
- 22 glacier
- 23 crevasse
- 24 snow bridge
- 25 leader
- 26 second man (belayer)
- 27 third man (non-belayer)
- 28-30 roping down (abseiling, rapelling)
- 28 abseil sling
- 29 sling seat
- 30 Dülfer seat

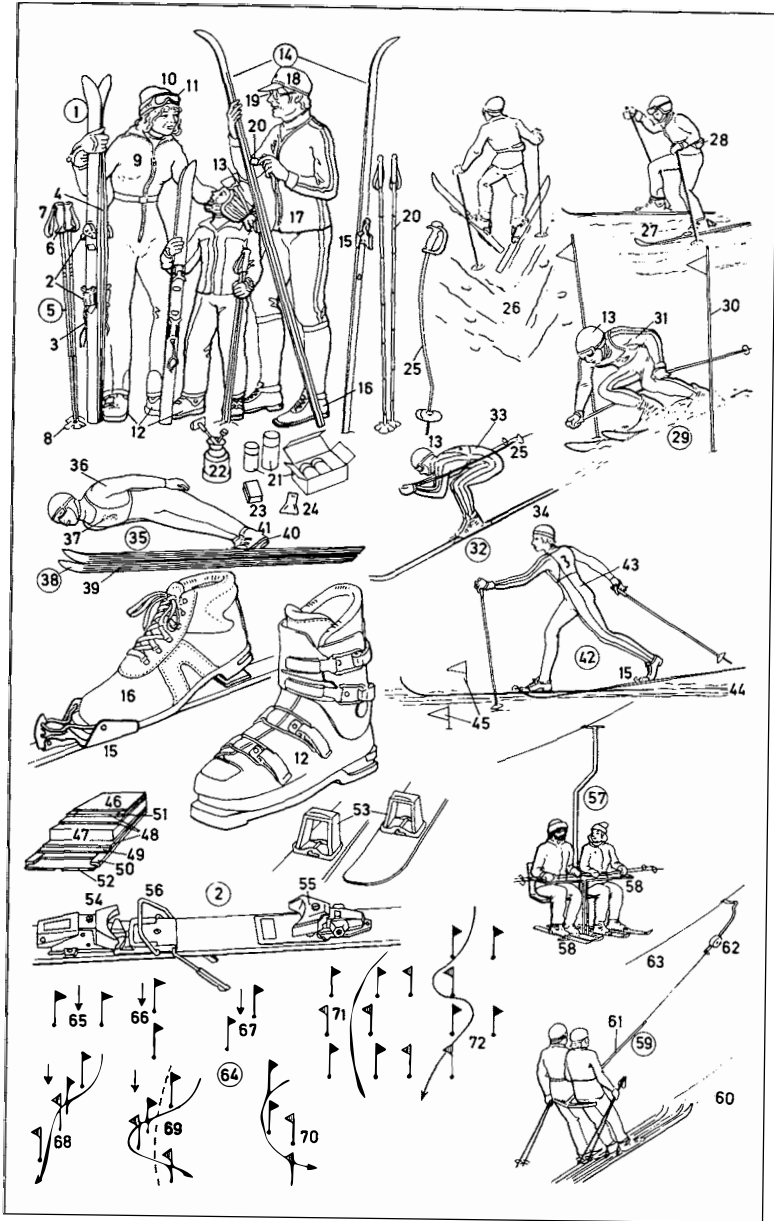
- 31-57 mountaineering equipment (climbing equipment, snow and ice climbing equipment)
- 31 ice axe (Am. ax)
- 32 wrist sling
- 33 pick
- 34 adze (Am. adz)
- 35 karabiner hole
- 36 short-shafted ice axe (Am. ax)
- 37 hammer axe (Am. ax)
- 38 general-purpose piton
- 39 abseil piton (ringed piton)
- 40 ice piton (semi-tubular screw ice piton, corkscrew piton)
- 41 drive-in ice piton
- 42 mountaineering boot
- 43 corrugated sole
- 44 climbing boot
- 45 roughened stiff rubber upper
- 46 karabiner
- 47 screwgate
- 48 crampons (lightweight crampons, twelve-point crampons, ten-point crampons)
- 49 front points
- 50 point guards
- 51 crampon strap
- 52 crampon cable fastener
- 53 safety helmet (protective helmet)
- 54 helmet lamp
- 55 snow gaiters
- 56 climbing harness
- 57 sit harness





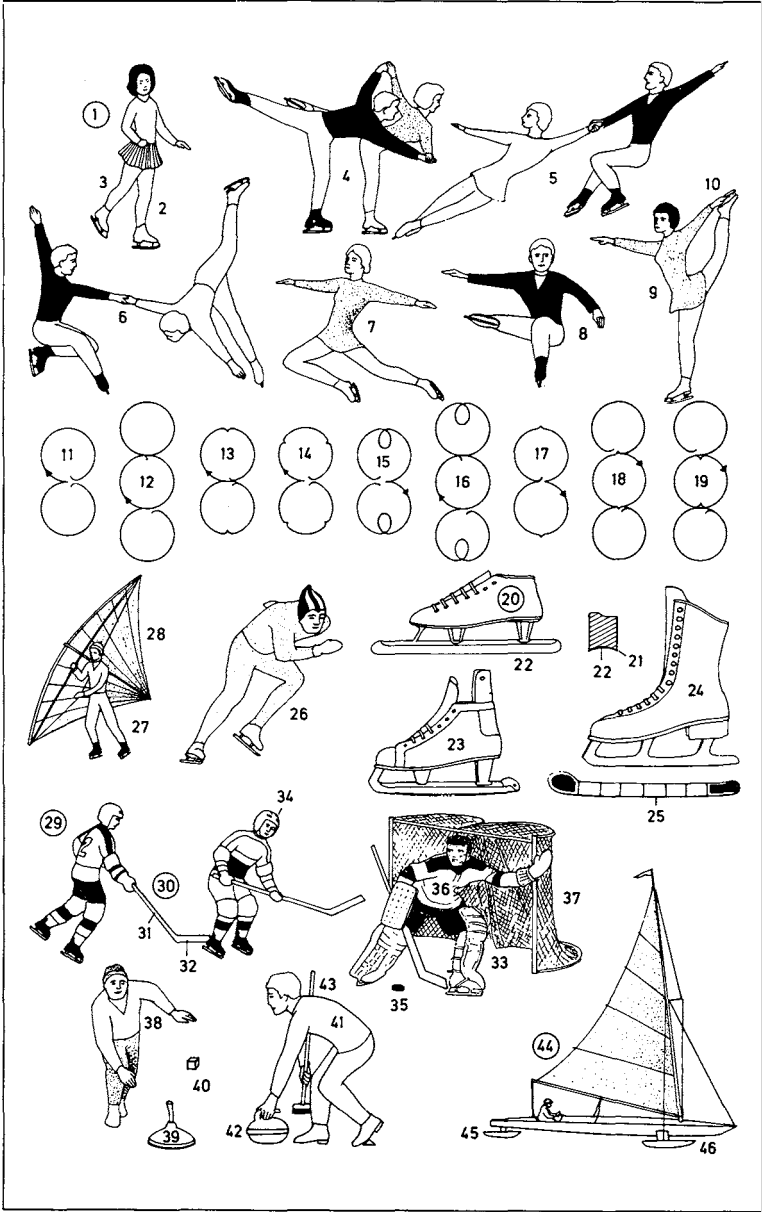
- 1-72 skiing
- 1 compact ski
- 2 safety binding (release binding)
- 3 strap
- 4 steel edge
- 5 ski stick (ski pole)
- 6 grip
- 7 loop
- 8 basket
- 9 ladies' one-piece ski suit
- 10 skiing cap (ski cap)
- 11 skiing goggles
- 12 cemented sole skiing boot
- 13 crash helmet
- 14-20 cross-country equipment
- 14 cross-country ski
- 15 cross-country rat trap binding
- 16 cross-country boot
- 17 cross-country gear
- 18 peaked cap
- 19 sunglasses
- 20 cross-country poles made of bamboo
- 21-24 ski-waxing equipment
- 21 ski wax
- 22 waxing iron (blowlamp, blowtorch)
- 23 waxing cork
- 24 wax scraper
- 25 downhill racing pole
- 26 herringbone, for climbing a slope
- 27 sidestep, for climbing a slope
- 28 ski bag
- 29 slalom
- 30 gate pole
- 31 racing suit
- 32 downhill racing
- 33 'egg' position, the ideal downhill racing position
- 34 downhill ski
- 35 ski jumping
- 36 lean forward
- 37 number
- 38 ski jumping ski
- 39 grooves (3 to 5 grooves)
- 40 cable binding
- 41 ski jumping boots
- 42 cross-country
- 43 cross-country stretch-suit

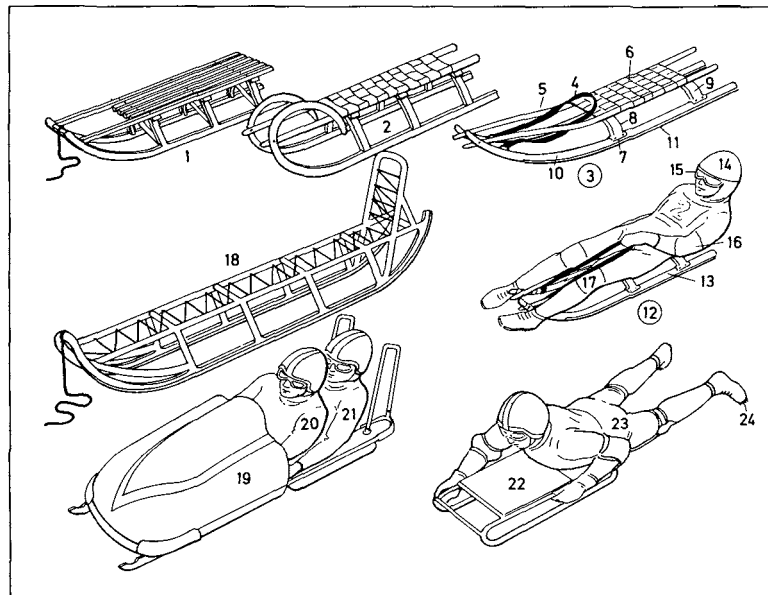
- 44 course
- 45 course-marking flag
- 46 layers of a modern ski
- 47 special core
- 48 laminates
- 49 stabilizing layer (stabilizer)
- 50 steel edge
- 51 aluminium (*Am.* aluminum) upper edge
- 52 synthetic bottom (artificial bottom)
- 53 safety jet
- 54-56 parts of the binding
- 54 automatic heel unit
- 55 toe unit
- 56 ski stop
- 57-63 ski lift
- 57 double chair lift
- 58 safety bar with footrest
- 59 ski lift
- 60 track
- 61 hook
- 62 automatic cable pulley
- 63 haulage cable
- 64 slalom
- 65 open gate
- 66 closed vertical gate
- 67 open vertical gate
- 68 transversal chicane
- 69 hairpin
- 70 elbow
- 71 corridor
- 72 Allais chicane



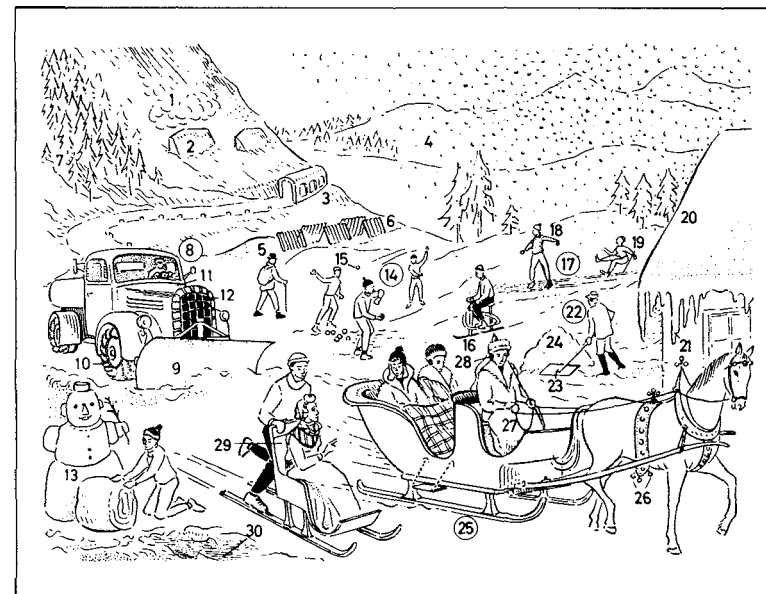
- 1-26 ice skating
- 1 ice skater, a solo skater
- 2 tracing leg
- 3 free leg
- 4 pair skaters
- 5 death spiral
- 6 pivot
- 7 stag jump (stag leap)
- 8 jump-sit-spin
- 9 upright spin
- 10 holding the foot
- 11-19 compulsory figures
- 11 curve eight
- 12 change
- 13 three
- 14 double-three
- 15 loop
- 16 change loop
- 17 bracket
- 18 counter
- 19 rocker
- 20-25 ice skates
- 20 speed skating set (speed skate)
- 21 edge
- 22 hollow grinding (hollow ridge, concave ridge)
- 23 ice hockey set (ice hockey skate)
- 24 ice skating boot
- 25 skate guard
- 26 speed skater
- 27, 28 skate sailing
- 27 skate sailor
- 28 hand sail
- 29-37 ice hockey
- 29 ice hockey player
- 30 ice hockey stick
- 31 stick handle
- 32 stick blade
- 33 shin pad
- 34 headgear (protective helmet)
- 35 puck, a vulcanized rubber disc (disk)
- 36 goalkeeper
- 37 goal
- 38-40 ice-stick shooting (Bavarian curling)

- 38 ice-stick shooter (Bavarian curler)
- 39 ice stick
- 40 block
- 41-43 curling
- 41 curler
- 42 curling stone (granite)
- 43 curling brush (curling broom, besom)
- 44-46 ice yachting (iceboating, ice sailing)
- 44 ice yacht (iceboat)
- 45 steering runner
- 46 outrigger runner





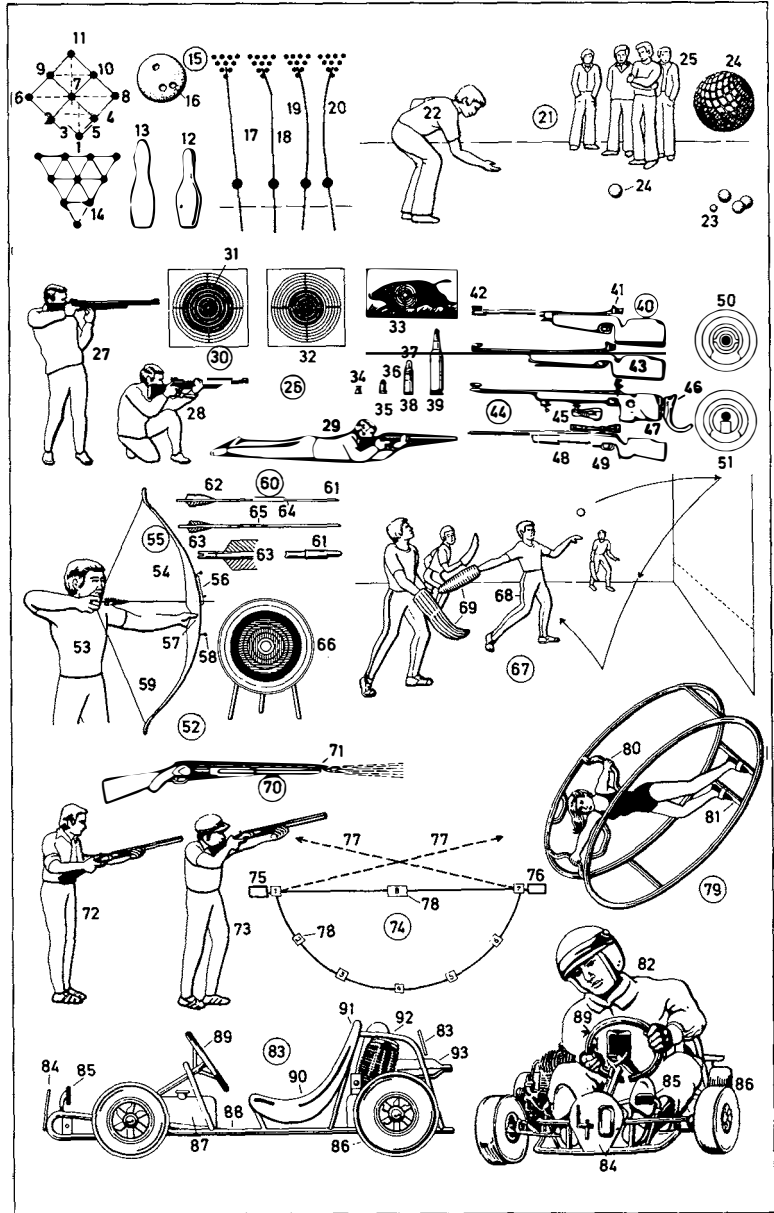
- 1 toboggan (sledge, *Am.* sled)
- 2 toboggan (sledge, *Am.* sled) with seat of plaid straps
- 3 junior luge toboggan (junior luge, junior toboggan)
- 4 rein
- 5 bar (strut)
- 6 seat
- 7 bracket
- 8 front prop
- 9 rear prop
- 10 movable runner
- 11 metal face
- 12 luge tobogganer
- 13 luge toboggan (luge, toboggan)
- 14 crash helmet
- 15 goggles
- 16 elbow pad
- 17 knee pad
- 18 Nansen sledge, a polar sledge
- 19-21 bobsleigh (bobsledding)
- 19 bobsleigh (bobsled), a two-man bobsleigh (a boblet)
- 20 steersman
- 21 brakeman
- 22-24 skeleton tobogganing (Cresta tobogganing)
- 22 skeleton (skeleton toboggan)
- 23 skeleton rider
- 24 rake, for braking and steering

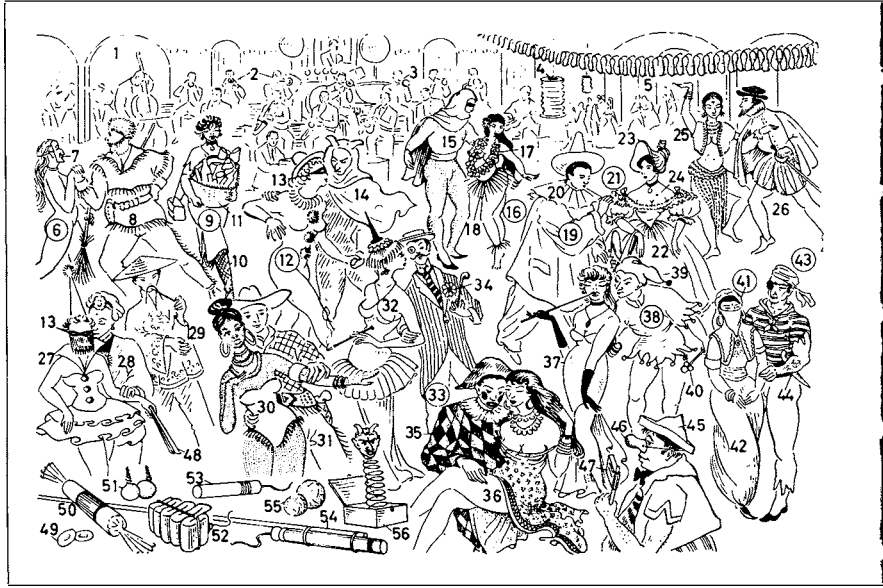


- 1 avalanche (snow avalanche, *Am.* snowslide); *kinds*: wind avalanche, ground avalanche
- 2 avalanche wall, a deflecting wall (diverting wall); *sim.*: avalanche wedge
- 3 avalanche gallery
- 4 snowfall
- 5 snowdrift
- 6 snow fence
- 7 avalanche forest [planted as protection against avalanches]
- 8 street-cleaning lorry (street cleaner)
- 9 snow plough (*Am.* snowplow) attachment
- 10 snow chain (skid chain, tyre chain, *Am.* tire chain)
- 11 radiator bonnet (*Am.* radiator hood)
- 12 radiator shutter and shutter opening (louvre shutter)
- 13 snowman
- 14 snowball fight
- 15 snowball
- 16 ski bob
- 17 slide
- 18 boy, sliding
- 19 icy surface (icy ground)
- 20 covering of snow (on the roof)
- 21 icicle
- 22 man clearing snow
- 23 snow push (snow shovel)
- 24 heap of snow
- 25 horse-drawn sleigh (horse sleigh)
- 26 sleigh bells (bells, set of bells)
- 27 foot muff (*Am.* foot bag)
- 28 earmuff
- 29 handsledge (tread sledge); *sim.*: push sledge
- 30 slush

- 1-13 **skittles**
- 1-11 skittle frame
- 1 front pin (front)
- 2 left front second pin (left front second)
- 3 running three [left]
- 4 right front second pin (right front second)
- 5 running three [right]
- 6 left corner pin (left corner), a corner (copper)
- 7 landlord
- 8 right corner pin (right corner), a corner (copper)
- 9 back left second pin (back left second)
- 10 back right second pin (back right second)
- 11 back pin (back)
- 12 pin
- 13 landlord
- 14-20 **tenpin bowling**
- 14 frame
- 15 bowling ball (ball with finger holes)
- 16 finger hole
- 17-20 deliveries
- 17 straight ball
- 18 hook ball (hook)
- 19 curve
- 20 back-up ball (back-up)
- 21 **boules; sim.:** Italian game of boccie, green bowls (bowls)
- 22 boules player
- 23 jack (target jack)
- 24 grooved boule
- 25 group of players
- 26 **rifle shooting**
- 27-29 shooting positions
- 27 standing position
- 28 kneeling position
- 29 prone position
- 30-33 targets
- 30 target for 50 m events (50 m target)
- 31 circle
- 32 target for 100 m events (100 m target)
- 33 bobbing target (turning target, running-boar target)
- 34-39 ammunition
- 34 air rifle cartridge
- 35 rimfire cartridge for zimmerstutzen (indoor target rifle), a smallbore German single-shot rifle
- 36 case head
- 37 caseless round
- 38 .22 long rifle cartridge
- 39 .222 Remington cartridge
- 40-49 sporting rifles
- 40 air rifle
- 41 optical sight

- 42 front sight (foresight)
- 43 smallbore standard rifle
- 44 international smallbore free rifle
- 45 palm rest for standing position
- 46 butt plate with hook
- 47 butt with thumb hole
- 48 smallbore rifle for bobbing target (turning target)
- 49 telescopic sight (riflescope, telescope sight)
- 50 optical ring sight
- 51 optical ring and bead sight
- 52-66 **archery** (target archery)
- 52 shot
- 53 archer
- 54 competition bow
- 55 riser
- 56 point-of-aim mark
- 57 grip (handle)
- 58 stabilizer
- 59 bow string (string)
- 60 arrow
- 61 pile (point) of the arrow
- 62 fletching
- 63 nock
- 64 shaft
- 65 cresting
- 66 target
- 67 Basque game of **pelota (jai alai)**
- 68 pelota player
- 69 wicker basket (cesta)
- 70-78 **skeet** (skeet shooting), a kind of clay pigeon shooting
- 70 skeet over-and-under shotgun
- 71 muzzle with skeet choke
- 72 ready position on call
- 73 firing position
- 74 shooting range
- 75 high house
- 76 low house
- 77 target's path
- 78 shooting station (shooting box)
- 79 **aero wheel**
- 80 handle
- 81 footrest
- 82 **go-karting** (karting)
- 83 go-kart (kart)
- 84 number plate (number)
- 85 pedals
- 86 pneumatic tyre (*Am. tire*)
- 87 petrol tank (*Am. gasoline tank*)
- 88 frame
- 89 steering wheel
- 90 bucket seat
- 91 protective bulkhead
- 92 two-stroke engine
- 93 silencer (*Am. muffler*)





- 1-48 masked ball (masquerade, fancy-dress ball)

1 ballroom

2 dance band

3 pop musician

4 paper lantern

5 festoon (string of decorations)

6-48 disguise (fancy dress) at the masquerade

6 witch

7 mask

8 fur trapper (trapper)

9 Apache girl

10 net stocking

11 first prize in the tombola (raffle), a hamper

12 pierette

13 half mask (domino)

14 devil

15 domino

16 hula-hula girl (Hawaii girl)

17 garland

18 grass skirt (hula skirt)

19 pierrot

20 ruff

21 midinette

22 Biedermeier dress

23 poke bonnet

24 décolletage with beauty spot

25 bayadère (Hindu dancing girl)

26 grandee

27 Columbine

28 maharaja (maharajah)

29 mandarin, a Chinese dignitary

30 exotic girl (exotic)

31 cowboy; *sim.*: gaucho (vaquero)

32 vamp, in fancy dress

33 dandy (fop, beau)

34 rosette

35 harlequin

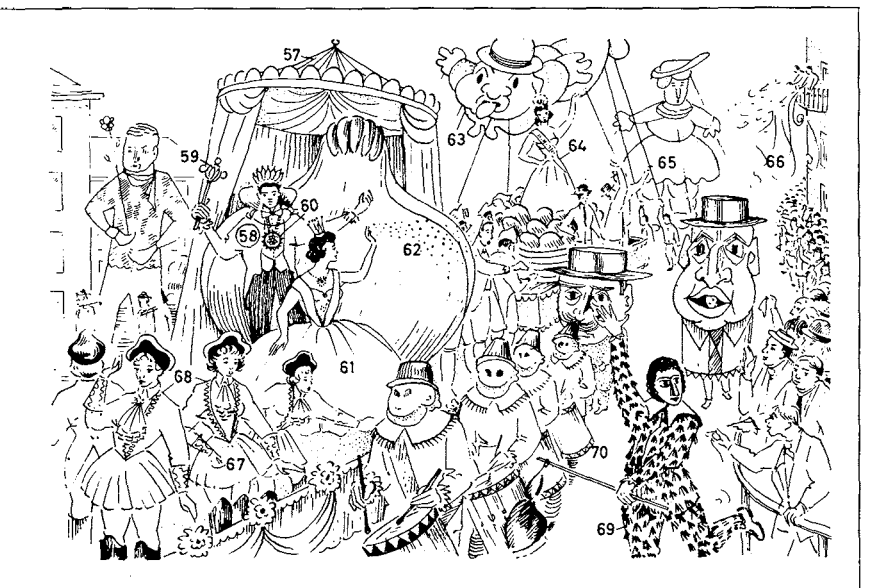
36 gipsy (gypsy) girl

37 cocotte (demi-monde, demi-mondaine, demi-rep)

38 owl-glass, a fool (jester, buffoon)

39 foolscap (jester's cap and bells)

40 rattle



- 41 odalisque, Eastern female slave in Sultan's seraglio

42 chalwar (pantaloons)

43 pirate (buccaneer)

44 tattoo

45 paper hat

46 false nose

47 clapper (rattle)

48 slapstick

49-54 fireworks

49 percussion cap

50 cracker

51 banger

52 jumping jack

53 cannon cracker (maroon, mar-roon)

54 rocket

55 paper ball

56 jack-in-the-box

57-70 carnival procession

57 carnival float (carnival truck)

58 King Carnival

59 bauble (fool's sceptre, *Am.* scepter)

60 fool's badge

61 Queen Carnival

62 confetti

63 giant

64 beauty queen

65 fairy-tale figure

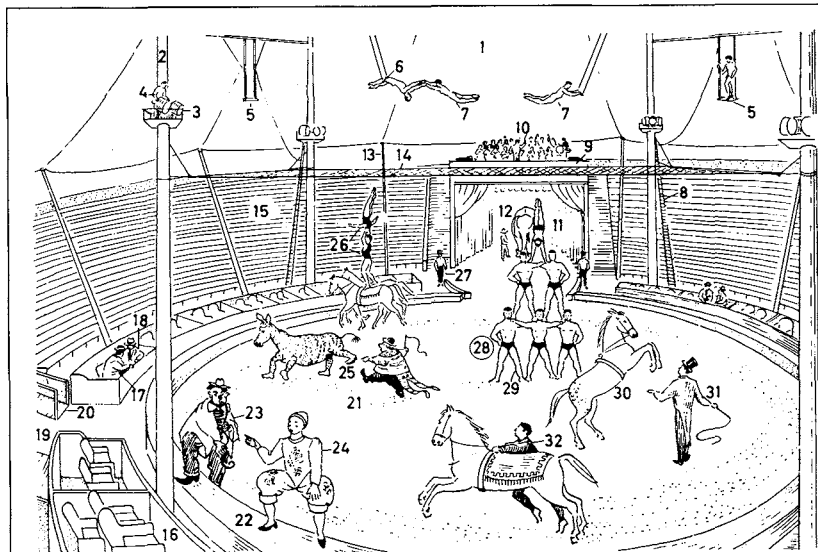
66 paper streamer

67 majorette

68 king's guard

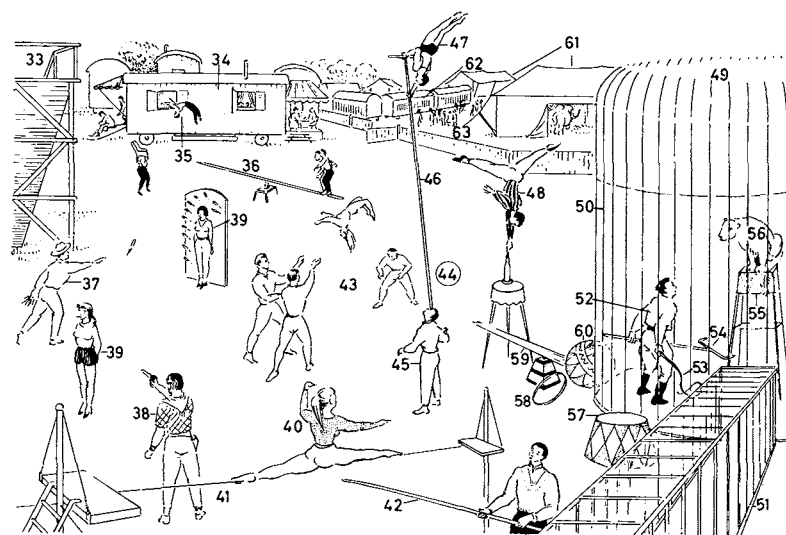
69 buffoon, a clown

70 lansquenets drum

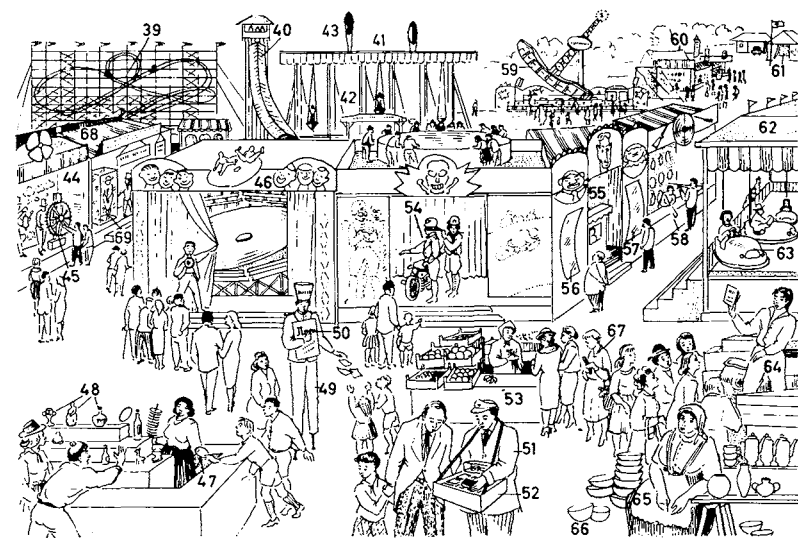
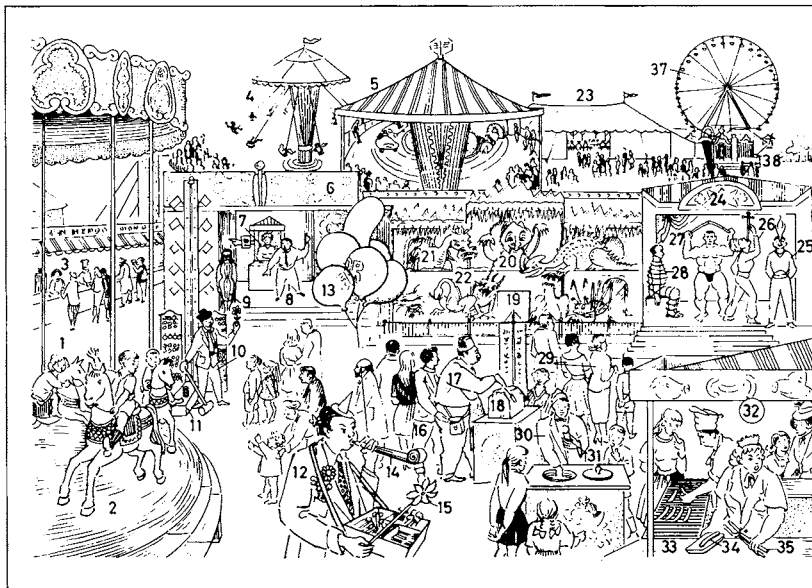


## 1-63 travelling (Am. traveling) circus

- 1 circus tent (big top), a four-pole tent
- 2 tent pole
- 3 spotlight
- 4 lighting technician
- 5 trapeze platform
- 6 trapeze
- 7 trapeze artist
- 8 rope ladder
- 9 bandstand
- 10 circus band
- 11 ring entrance (arena entrance)
- 12 wings
- 13 tent prop (prop)
- 14 safety net
- 15 seats for the spectators
- 16 circus box
- 17 circus manager
- 18 agent
- 19 entrance and exit
- 20 steps
- 21 ring (arena)
- 22 ring fence
- 23 musical clown (clown)
- 24 clown
- 25 comic turn (clown act), a circus act
- 26 circus riders (bareback riders)
- 27 ring attendant, a circus attendant
- 28 pyramid
- 29 support
- 30, 31 performance by liberty horses
- 30 circus horse, performing the levade (pesade)
- 31 ringmaster
- 32 vaulter



- 33 emergency exit
- 34 caravan (circus caravan, Am. trailer)
- 35 springboard acrobat (springboard artist)
- 36 springboard
- 37 knife thrower
- 38 circus marksman
- 39 assistant
- 40 tightrope dancer
- 41 tightrope
- 42 balancing pole
- 43 throwing act
- 44 balancing act
- 45 support
- 46 pole (bamboo pole)
- 47 acrobat
- 48 equilibrist (balancer)
- 49 wild animal cage, a round cage
- 50 bars of the cage
- 51 passage (barred passage, passage for the wild animals)
- 52 tamer (wild animal tamer)
- 53 whip
- 54 fork
- 55 pedestal
- 56 wild animal (tiger, lion)
- 57 stand
- 58 hoop (jumping hoop)
- 59 seesaw
- 60 ball
- 61 camp
- 62 cage caravan
- 63 menagerie



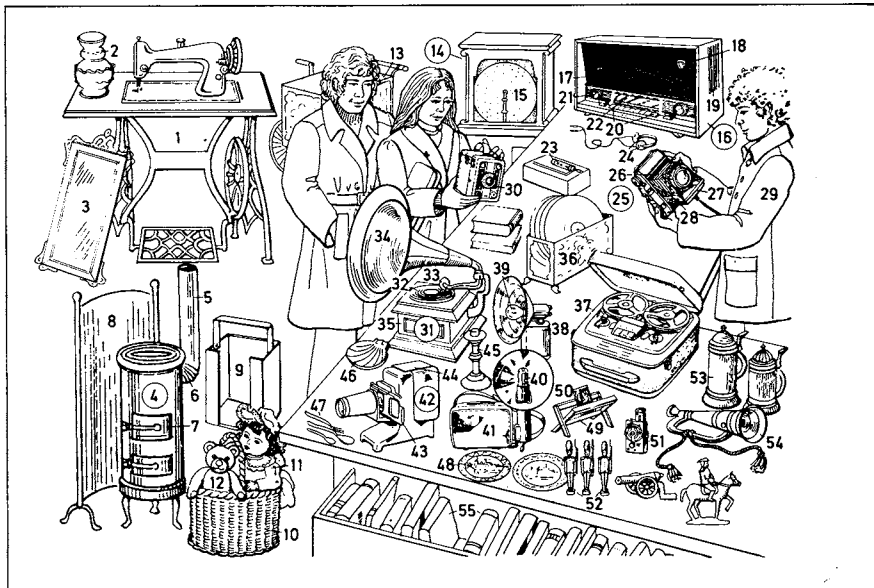
## 1-69 fair (annual fair)

- 1 fairground
- 2 children's merry-go-round (whirligig), a roundabout (*Am.* carousel)
- 3 refreshment stall (drinks stall)
- 4 chairplane
- 5 up-and-down roundabout
- 6 show booth (booth)
- 7 box (box office)
- 8 barker
- 9 medium
- 10 showman
- 11 try-your-strength machine
- 12 hawker
- 13 balloon
- 14 paper serpent
- 15 windmill
- 16 pickpocket (thief)
- 17 vendor
- 18 nougat
- 19 ghost train
- 20 monster

- 21 dragon
- 22 monster
- 23 beer marquee
- 24 sideshow
- 25-28 travelling (*Am.* traveling) artistes (travelling show people)
- 25 fire eater
- 26 sword swallower
- 27 strong man
- 28 escapologist
- 29 spectators
- 30 ice-cream vendor (ice-cream man)
- 31 ice-cream cornet, with ice cream
- 32 sausage stand
- 33 grill (*Am.* broiler)
- 34 bratwurst (grilled sausage, *Am.* broiled sausage)
- 35 sausage tongs
- 36 fortune teller
- 37 big wheel (Ferris wheel)
- 38 orchestrion (automatic organ), an automatic musical instrument
- 39 scenic railway (switchback)

- 40 toboggan slide (chute)
- 41 swing boats
- 42 swing boat, turning full circle
- 43 full circle
- 44 lottery booth (tombola booth)
- 45 wheel of fortune
- 46 devil's wheel (typhoon wheel)
- 47 throwing ring (quoit)
- 48 prizes
- 49 sandwich man on stilts
- 50 sandwich board (placard)
- 51 cigarette seller, an itinerant trader (a hawker)
- 52 tray
- 53 fruit stall
- 54 wall-of-death rider
- 55 hall of mirrors
- 56 concave mirror
- 57 convex mirror
- 58 shooting gallery
- 59 giant swing boat
- 60 junk stalls (second-hand stalls)
- 61 first aid tent (first aid post)

- 62 dodgems (bumper cars)
- 63 dodgem (bumper car)
- 64-66 pottery stand
- 64 barker
- 65 market woman
- 66 pottery
- 67 visitors to the fair
- 68 waxworks
- 69 wax figure

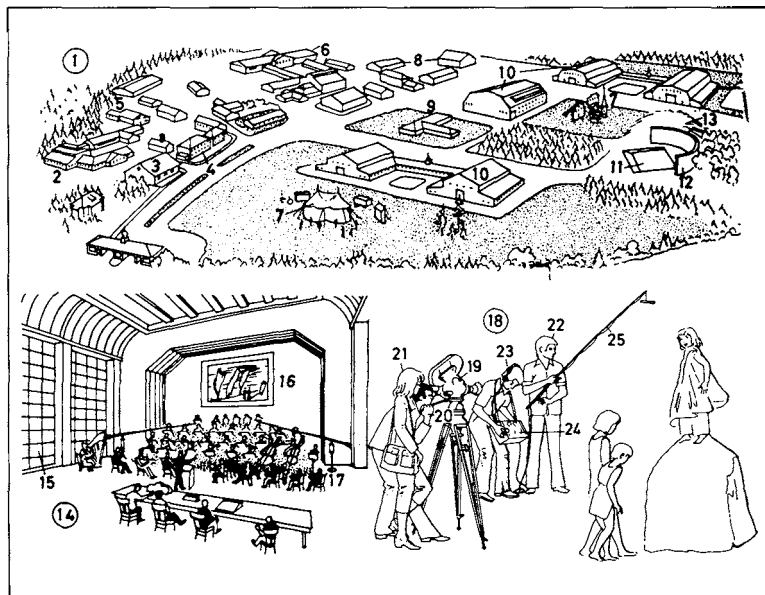


- |  |  |
|--|--|
| 1 treadle sewing machine   | 23 crystal detector (crystal set)                  |
| 2 flower vase  | 24 headphones (headset)                            |
| 3 wall mirror  | 25 folding camera                                  |
| 4 cylindrical stove  | 26 bellows   |
| 5 stovepipe  | 27 hinged cover                                    |
| 6 stovepipe elbow  | 28 spring extension                                |
| 7 stove door   | 29 salesman  |
| 8 stove screen   | 30 box camera                                      |
| 9 coal scuttle   | 31 gramophone                                      |
| 10 firewood basket   | 32 record (gramophone record)                      |
| 11 doll  | 33 needle head with gramophone needle              |
| 12 teddy bear  | 34 horn  |
| 13 barrel organ  | 35 gramophone box                                  |
| 14 orchestron  | 36 record rack                                     |
| 15 metal disc (disk)   | 37 portable tape recorder                          |
| 16 radio (radio set, <i>joc.</i> : 'steam radio'),<br>a superheterodyne (superhet) | 38 flashgun  |
| 17 baffle board  | 39 flash bulb                                      |
| 18 'magic eye', a tuning indicator valve   | 40, 41 electronic flash (electronic flash-<br>gun) |
| 19 loudspeaker aperture  | 40 flash head                                      |
| 20 station selector buttons (station<br>preset buttons)                            | 41 accumulator                                     |
| 21 tuning knob   | 42 slide projector                                 |
| 22 frequency bands   | 43 slide holder                                    |
|  | 44 lamphouse                                       |



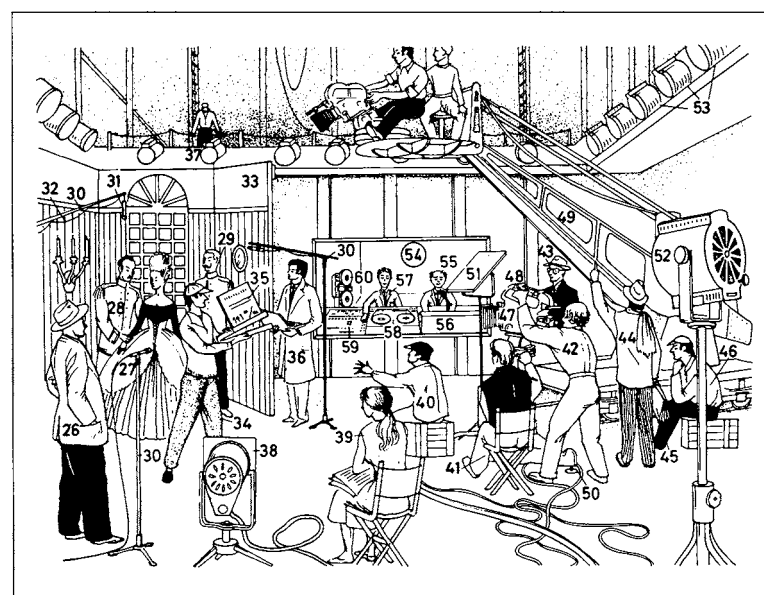
- |  |  |
|--|--|
| 45 candlestick                                 | 70 washboard   |
| 46 scallop shell                               | 71 humming top   |
| 47 cutlery                                     | 72 slate   |
| 48 souvenir plate                              | 73 pencil box  |
| 49 drying rack for photographic plates         | 74 adding machine                                      |
| 50 photographic plate                          | 75 paper roll  |
| 51 delayed-action release                      | 76 number keys   |
| 52 tin soldiers ( <i>sim.</i> : lead soldiers) | 77 abacus  |
| 53 beer mug (stein)                            | 78 inkwell, with lid                                   |
| 54 bugle                                       | 79 typewriter  |
| 55 second-hand books                           | 80 [hand-operated] calculating<br>machine (calculator) |
| 56 grandfather clock                           | 81 operating handle                                    |
| 57 clock case                                  | 82 result register (product register)                  |
| 58 pendulum                                    | 83 rotary counting mechanism (rotary<br>counter)       |
| 59 time weight                                 | 84 kitchen scales                                      |
| 60 striking weight                             | 85 waist slip (underskirt)                             |
| 61 rocking chair                               | 86 wooden handcart                                     |
| 62 sailor suit                                 | 87 wall clock  |
| 63 sailor's hat                                | 88 bed warmer  |
| 64 washing set                                 | 89 milk churn  |
| 65 washing basin                               |  |
| 66 water jug                                   |  |
| 67 washstand                                   |  |
| 68 dolly                                       |  |
| 69 washtub                                     |  |





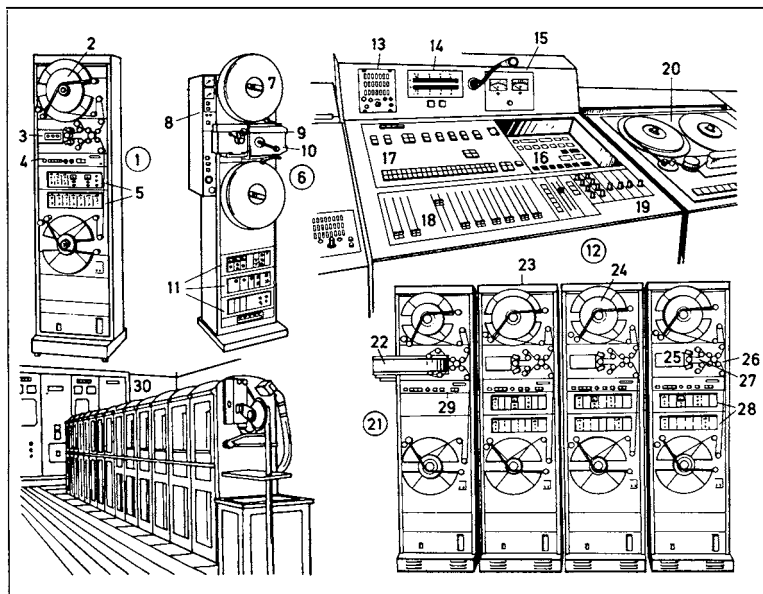
- 1-13 film studios** (studio complex, *Am.* movie studios)
- 1** lot (studio lot)
  - 2** processing laboratories (film laboratories, motion picture laboratories)
  - 3** cutting rooms
  - 4** administration building (office building, offices)
  - 5** film (motion picture) storage vault (film library, motion picture library)
  - 6** workshop
  - 7** film set (*Am.* movie set)
  - 8** power house
  - 9** technical and research laboratories
  - 10** groups of stages
  - 11** concrete tank for marine sequences
  - 12** cyclorama
  - 13** hill
  - 14-60 shooting** (filming)
  - 14** music recording studio (music recording theatre, *Am.* theater)
  - 15** 'acoustic' wall lining

- 16** screen (projection screen)
- 17** film orchestra
- 18** exterior shooting (outdoor shooting, exterior filming, outdoor filming)
- 19** camera with crystal-controlled drive
- 20** cameraman
- 21** assistant director
- 22** boom operator (boom swinger)
- 23** recording engineer (sound recordist)
- 24** portable sound recorder with crystal-controlled drive
- 25** microphone boom
- 26-60** shooting (filming) in the studio (on the sound stage, on the stage, in the filming hall)
- 26** production manager
- 27** leading lady (film actress, film star, star)
- 28** leading man (film actor, film star, star)
- 29** film extra (extra)
- 30** arrangement of microphones for stereo and sound effects



- 31** studio microphone
- 32** microphone cable
- 33** side flats and background
- 34** clapper boy
- 35** clapper board (clapper) with slates (boards) for the film title, shot number (scene number), and take number
- 36** make-up artist (hairstylist)
- 37** lighting electrician (studio electrician, lighting man, *Am.* gaffer)
- 38** diffusing screen
- 39** continuity girl (script girl)
- 40** film director (director)
- 41** cameraman (first cameraman)
- 42** camera operator, an assistant cameraman (camera assistant)
- 43** set designer (art director)
- 44** director of photography
- 45** filmscript (script, shooting script, *Am.* movie script)
- 46** assistant director
- 47** soundproof film camera (soundproof motion picture camera), a wide screen camera (cinemascope camera)

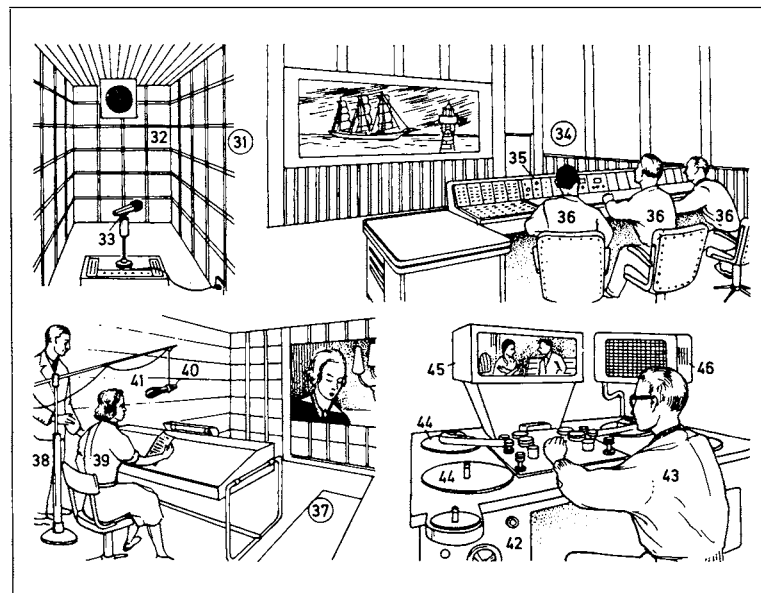
- 48** soundproof housing (soundproof cover, blimp)
- 49** camera crane (dolly)
- 50** hydraulic stand
- 51** mask (screen) for protection from spill light (gobo)
- 52** tripod spotlight (fill-in light, filler light, fill light, filler)
- 53** spotlight catwalk
- 54** recording room
- 55** recording engineer (sound recordist)
- 56** mixing console (mixing desk)
- 57** sound assistant (assistant sound engineer)
- 58** magnetic sound recording equipment (magnetic sound recorder)
- 59** amplifier and special effects equipment, e.g. for echo and sound effects
- 60** sound recording camera (optical sound recorder)



# 1-46 sound recording and re-recording (dubbing)

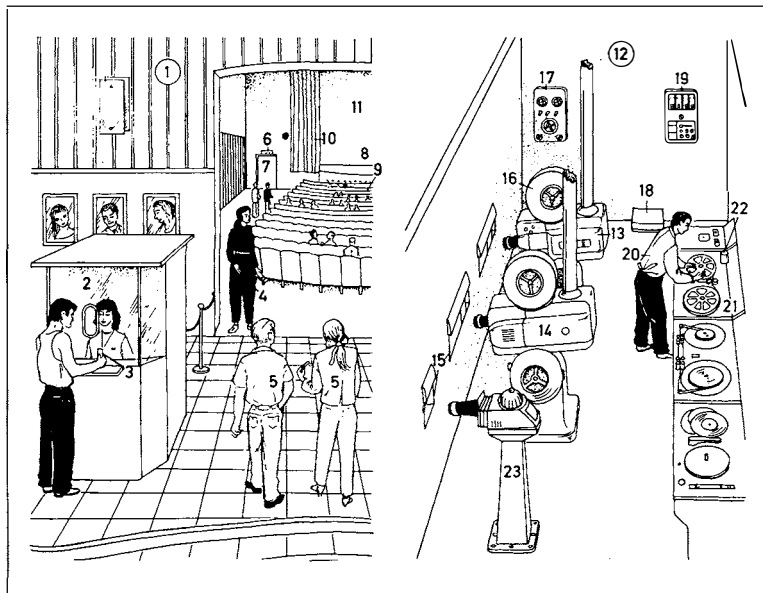
- 1 magnetic sound recording equipment (magnetic sound recorder)
- 2 magnetic film spool
- 3 magnetic head support assembly
- 4 control panel
- 5 magnetic sound recording and playback amplifier
- 6 optical sound recorder (sound recording camera, optical sound recording equipment)
- 7 daylight film magazine
- 8 control and monitoring panel
- 9 eyepiece for visual control of optical sound recording
- 10 deck
- 11 recording amplifier and mains power unit
- 12 control desk (control console)
- 13 monitoring loudspeaker (control loudspeaker)
- 14 recording level indicators

- 15 monitoring instruments
- 16 jack panel
- 17 control panel
- 18 sliding control
- 19 equalizer
- 20 magnetic sound deck
- 21 mixer for magnetic film
- 22 film projector
- 23 recording and playback equipment
- 24 film reel (film spool)
- 25 head support assembly for the recording head, playback head, and erase head
- 26 film transport mechanism
- 27 synchronizing filter
- 28 magnetic sound amplifier
- 29 control panel
- 30 film-processing machines (film-developing machines) in the processing laboratory (film laboratory, motion picture laboratory)



- 31 echo chamber
- 32 echo chamber loudspeaker
- 33 echo chamber microphone
- 34-36 sound mixing (sound dubbing, mixing of several sound tracks)
- 34 mixing room (dubbing room)
- 35 mixing console (mixing desk) for mono or stereo sound
- 36 dubbing mixers (recording engineers, sound recordists) dubbing (mixing)
- 37-41 synchronization (syncing, dubbing, post-synchronization, post-syncing)
- 37 dubbing studio (dubbing theatre, *Am.* theater)
- 38 dubbing director
- 39 dubbing speaker (dubbing actress)
- 40 boom microphone
- 41 microphone cable
- 42-46 cutting (editing)

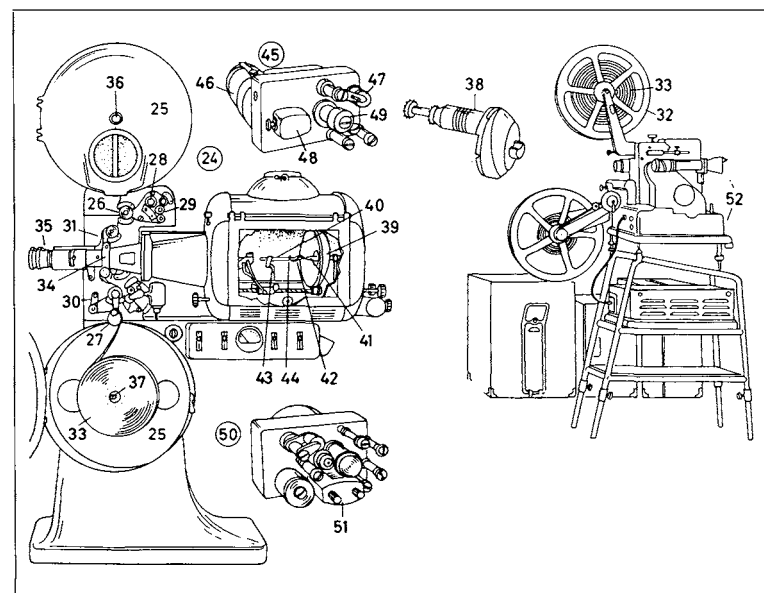
- 42 cutting table (editing table, cutting bench)
- 43 film editor (cutter)
- 44 film turntables for picture and sound tracks
- 45 projection of the picture
- 46 loudspeaker



### 1-23 film projection (motion picture projection)

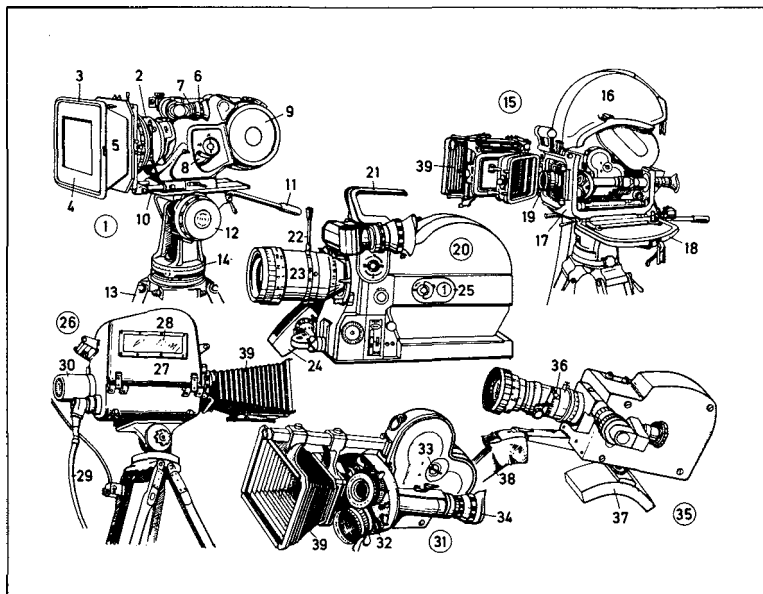
- 1 cinema (picture house, *Am.* movie theater, movie house)
- 2 cinema box office (*Am.* movie theater box office)
- 3 cinema ticket (*Am.* movie theater ticket)
- 4 usherette
- 5 cinemagoers (filmgoers, cinema audience, *Am.* moviegoers, movie audience)
- 6 safety lighting (emergency lighting)
- 7 emergency exit
- 8 stage
- 9 rows of seats (rows)
- 10 stage curtain (screen curtain)
- 11 screen (projection screen)
- 12 projection room (projection booth)
- 13 lefthand projector
- 14 righthand projector
- 15 projection room window with projection window and observation port

- 16 reel drum (spool box)
- 17 house light dimmers (auditorium lighting control)
- 18 rectifier, a selenium or mercury vapour rectifier for the projection lamps
- 19 amplifier
- 20 projectionist
- 21 rewind bench for rewinding the film
- 22 film cement (splicing cement)
- 23 slide projector for advertisements
- 24-52 film projectors**
- 24 sound projector (film projector, cinema projector, theatre projector, *Am.* movie projector)
- 25-38 projector mechanism**
- 25 fireproof reel drums (spool boxes) with circulating oil cooling system
- 26 feed sprocket (supply sprocket)
- 27 take-up sprocket
- 28 magnetic head cluster
- 29 guide roller (guiding roller) with framing control



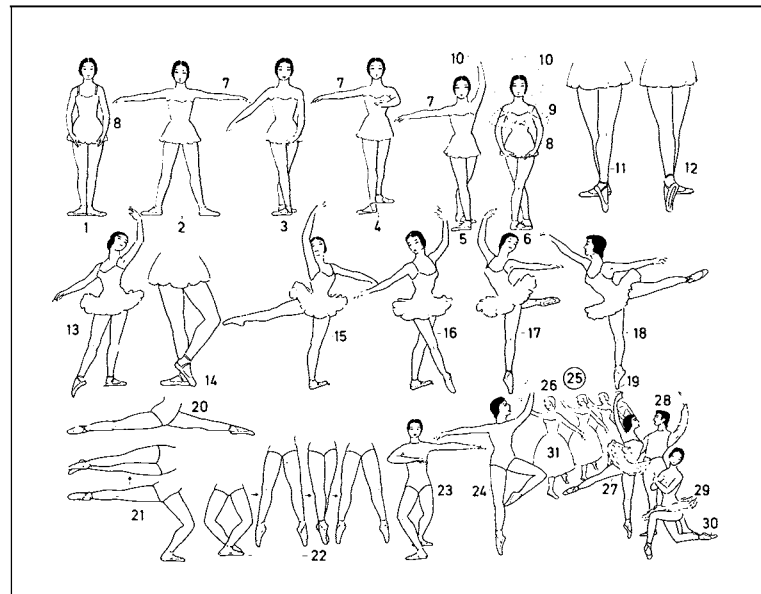
- 30 loop former for smoothing out the intermittent movement; *also*: film break detector
- 31 film path
- 32 film reel (film spool)
- 33 reel of film
- 34 film gate (picture gate, projector gate) with cooling fan
- 35 projection lens (projector lens)
- 36 feed spindle
- 37 take-up spindle with friction drive
- 38 maltese cross mechanism (maltese cross movement, Geneva movement)
- 39-44 lamphouse**
- 39 mirror arc lamp, with aspherical (non-spherical) concave mirror and blowout magnet for stabilizing the arc (*also*: high-pressure xenon arc lamp)
- 40 positive carbon (positive carbon rod)

- 41 negative carbon (negative carbon rod)
- 42 arc
- 43 carbon rod holder
- 44 crater (carbon crater)
- 45 optical sound unit [also designed for multi-channel optical stereophonic sound and for push-pull sound tracks]
- 46 sound optics
- 47 sound head
- 48 exciter lamp in housing
- 49 photocell in hollow drum
- 50 attachable four-track magnetic sound unit (penthouse head, magnetic sound head)
- 51 four-track magnetic head
- 52 narrow-gauge (*Am.* narrow-gage) cinema projector for mobile cinema



**1-39 motion picture cameras** (film cameras)

- 1** standard-gauge (*Am.* standard-gauge) motion picture camera (standard-gauge, *Am.* standard-gauge, 35 mm camera)
- 2** lens (object lens, taking lens)
- 3** lens hood (sunshade) with matte box
- 4** matte (mask)
- 5** lens hood barrel
- 6** viewfinder eyepiece
- 7** eyepiece control ring
- 8** opening control for the segment disc (disk) shutter
- 9** magazine housing
- 10** slide bar for the lens hood
- 11** control arm (control lever)
- 12** pan and tilt head
- 13** wooden tripod
- 14** degree scale
- 15** soundproof (blimped) motion picture camera (film camera)
- 16-18** soundproof housing (blimp)
- 16** upper section of the soundproof housing
- 17** lower section of the soundproof housing
- 18** open sidewall of the soundproof housing
- 19** camera lens
- 20** lightweight professional motion picture camera
- 21** grip (handgrip)
- 22** zooming lever
- 23** zoom lens (variable focus lens, varifocal lens) with infinitely variable focus
- 24** handgrip with shutter release
- 25** camera door
- 26** sound camera (newsreel camera) for recording sound and picture
- 27** soundproof housing (blimp)
- 28** window for the frame counters and indicator scales
- 29** pilot tone cable (sync pulse cable)
- 30** pilot tone generator (signal generator, pulse generator)
- 31** professional narrow-gauge (*Am.* narrow-gauge) motion picture camera, a 16 mm camera
- 32** lens turret (turret head)
- 33** housing lock
- 34** eyecup
- 35** high-speed camera, a special narrow-gauge (*Am.* narrow-gauge) camera
- 36** zooming lever
- 37** rifle grip
- 38** handgrip with shutter release
- 39** lens hood bellows

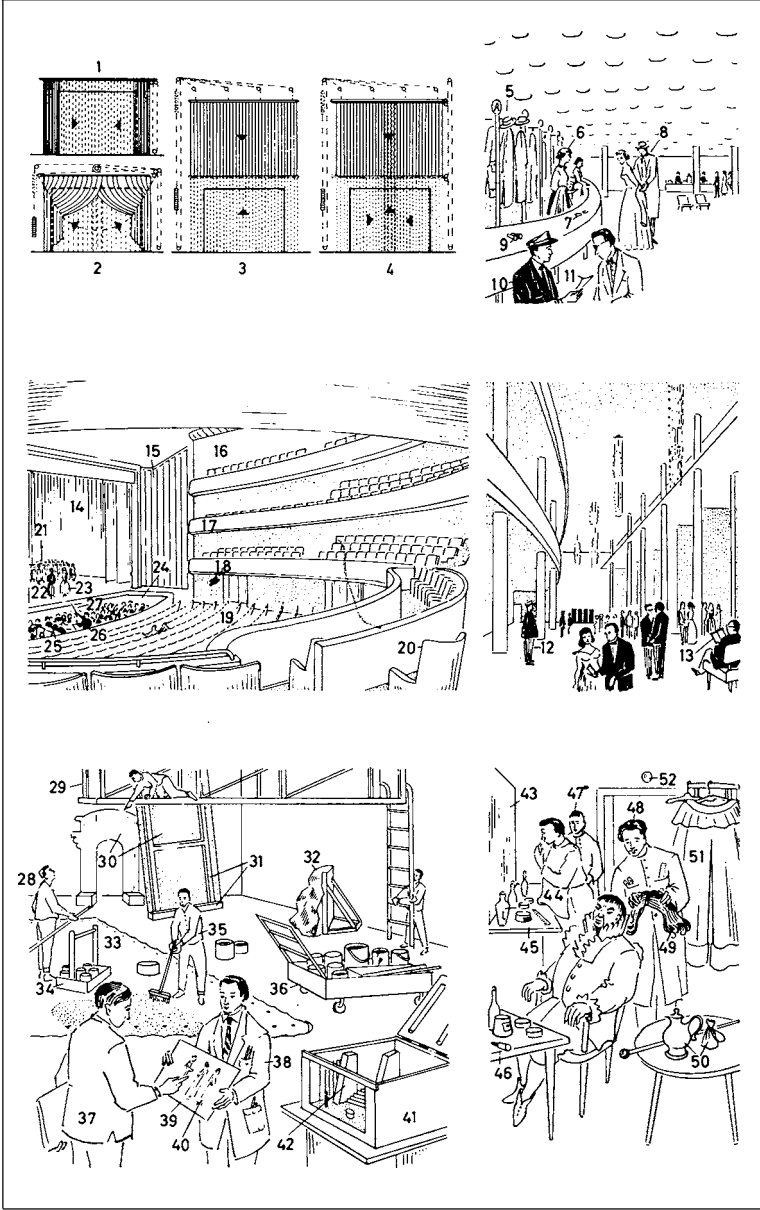


**1-6 the five positions** (ballet positions)

- 1** first position
- 2** second position
- 3** third position
- 4** fourth position [open]
- 5** fourth position [crossed; extended fifth position]
- 6** fifth position
- 7-10** ports de bras (arm positions)
- 7** port de bras à coté
- 8** port de bras en bas
- 9** port de bras en avant
- 10** port de bras en haut
- 11** dégagé à la quatrième devant
- 12** dégagé à la quatrième derrière
- 13** effacé
- 14** sur le cou-de-pied
- 15** écarté
- 16** croisé
- 17** attitude
- 18** arabesque
- 19** à pointe (on full point)
- 20** splits
- 21** cabriole (capriole)
- 22** entrechat (entrechat quatre)
- 23** préparation [e.g. for a pirouette]
- 24** pirouette
- 25** corps de ballet
- 26** ballet dancer (ballerina)
- 27, 28** pas de trois
- 27** prima ballerina
- 28** principal male dancer (leading soloist)
- 29** tutu
- 30** point shoe, a ballet shoe (ballet slipper)
- 31** ballet skirt

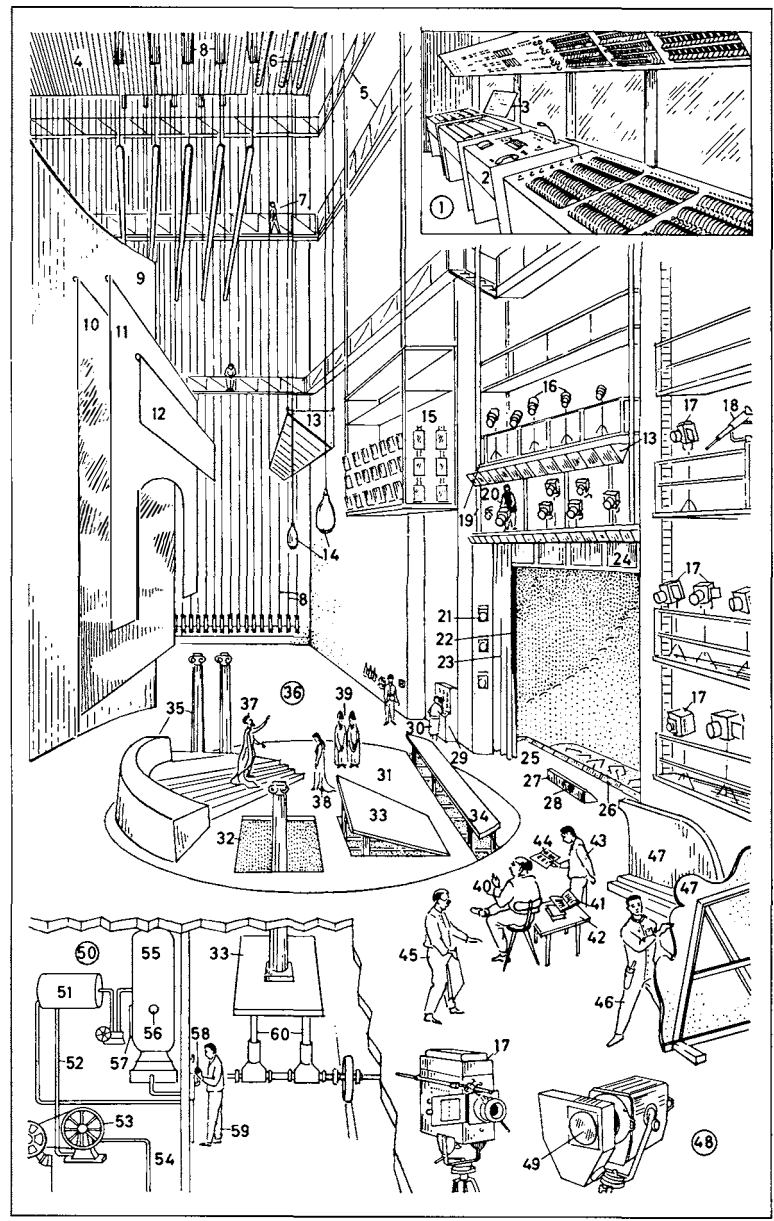
- 1-4 types of curtain operation
- 1 draw curtain (side parting)
- 2 tableau curtain (bunching up side-ways)
- 3 fly curtain (vertical ascent)
- 4 combined fly and draw curtain
- 5-11 cloakroom hall (Am. checkroom hall)
- 5 cloakroom (Am. checkroom)
- 6 cloakroom attendant (Am. check-room attendant)
- 7 cloakroom ticket (Am. check)
- 8 playgoer (theatre-goer, Am. theatergoer)
- 9 opera glass (opera glasses)
- 10 commissionaire
- 11 theatre (Am. theater) ticket, an admission ticket
- 12, 13 foyer (lobby, crush room)
- 12 usher; form.: box attendant
- 13 programme (Am. program)
- 14-27 auditorium and stage
- 14 stage
- 15 proscenium
- 16-20 auditorium
- 16 gallery (balcony)
- 17 upper circle
- 18 dress circle (Am. balcony, mezza-nine)
- 19 front stalls
- 20 seat (theatre seat, Am. theater seat)
- 21-27 rehearsal (stage rehearsal)
- 21 chorus
- 22, 23 singer
- 24 orchestra pit
- 25 orchestra
- 26 conductor
- 27 baton (conductor's baton)
- 28-42 paint room, a workshop
- 28 stagehand (scene shifter)
- 29 catwalk (bridge)
- 30 set piece
- 31 reinforcing struts
- 32 built piece (built unit)
- 33 backcloth (backdrop)
- 34 portable box for paint containers

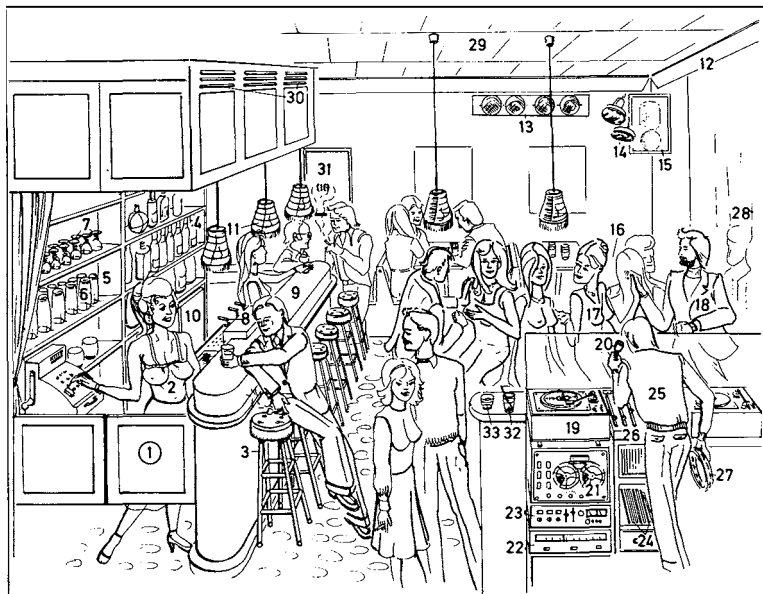
- 35 scene painter
- 36 paint trolley
- 37 stage designer (set designer)
- 38 costume designer
- 39 design for a costume
- 40 sketch for a costume
- 41 model stage
- 42 model of the set
- 43-52 dressing room
- 43 dressing room mirror
- 44 make-up gown
- 45 make-up table
- 46 greasepaint stick
- 47 chief make-up artist (chief make-up man)
- 48 make-up artist (hairstylist)
- 49 wig
- 50 props (properties)
- 51 theatrical costume
- 52 call light



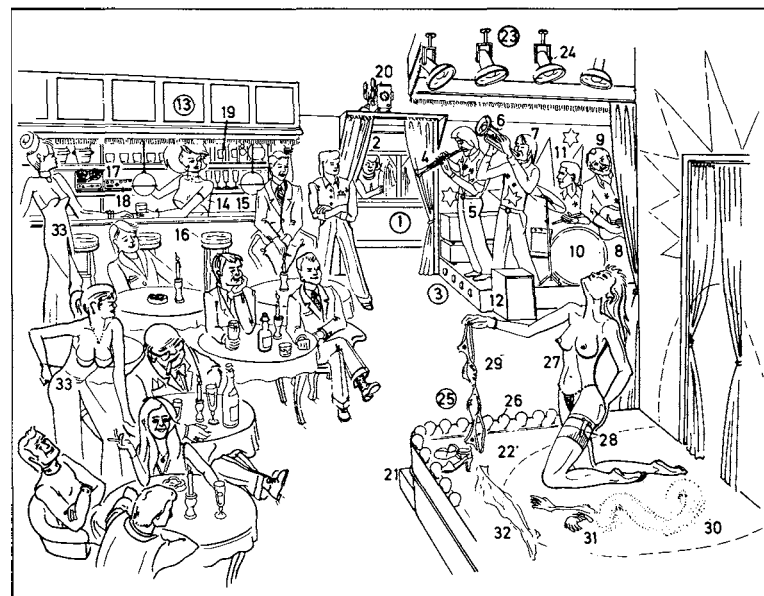
- 1-60 stagehouse with machinery
- (machinery in the flies and below stage)
- 1 control room
- 2 control console (lighting console, lighting control console) with pre-set control for presetting lighting effects
- 3 lighting plot (light plot)
- 4 grid (gridiron)
- 5 fly floor (fly gallery)
- 6 sprinkler system for fire prevention (for fire protection)
- 7 fly man
- 8 fly lines (lines)
- 9 cyclorama
- 10 backcloth (backdrop, background)
- 11 arch, a drop cloth
- 12 border
- 13 compartment (compartment-type, compartmentalized) batten (Am. border light)
- 14 stage lighting units (stage lights)
- 15 horizon lights (backdrop lights)
- 16 adjustable acting area lights (acting area spotlights)
- 17 scenery projectors (projectors)
- 18 monitor (water cannon) (piece of safety equipment)
- 19 travelling (Am. traveling) lighting bridge (travelling lighting gallery)
- 20 lighting operator (lighting man)
- 21 portal spotlight (tower spotlight)
- 22 adjustable proscenium
- 23 curtain (theatrical curtain)
- 24 iron curtain (safety curtain, fire curtain)
- 25 forestage (apron)
- 26 footlight (footlights, floats)
- 27 prompt box
- 28 prompter
- 29 stage manager's desk
- 30 stage director (stage manager)
- 31 revolving stage
- 32 trap opening
- 33 lift (Am. elevator)
- 34 bridge (Am. elevator), a rostrum

- 35 pieces of scenery
- 36 scene
- 37 actor
- 38 actress
- 39 extras (supers, supernumeraries)
- 40 director (producer)
- 41 prompt book (prompt script)
- 42 director's table (producer's table)
- 43 assistant director (assistant producer)
- 44 director's script (producer's script)
- 45 stage carpenter
- 46 stagehand (scene shifter)
- 47 set piece
- 48 mirror spot (mirror spotlight)
- 49 automatic filter change (with colour filters, colour mediums, gelatines)
- 50 hydraulic plant room
- 51 water tank
- 52 suction pipe
- 53 hydraulic pump
- 54 pressure pipe
- 55 pressure tank (accumulator)
- 56 pressure gauge (Am. gage)
- 57 level indicator (liquid level indicator)
- 58 control lever
- 59 operator
- 60 rams





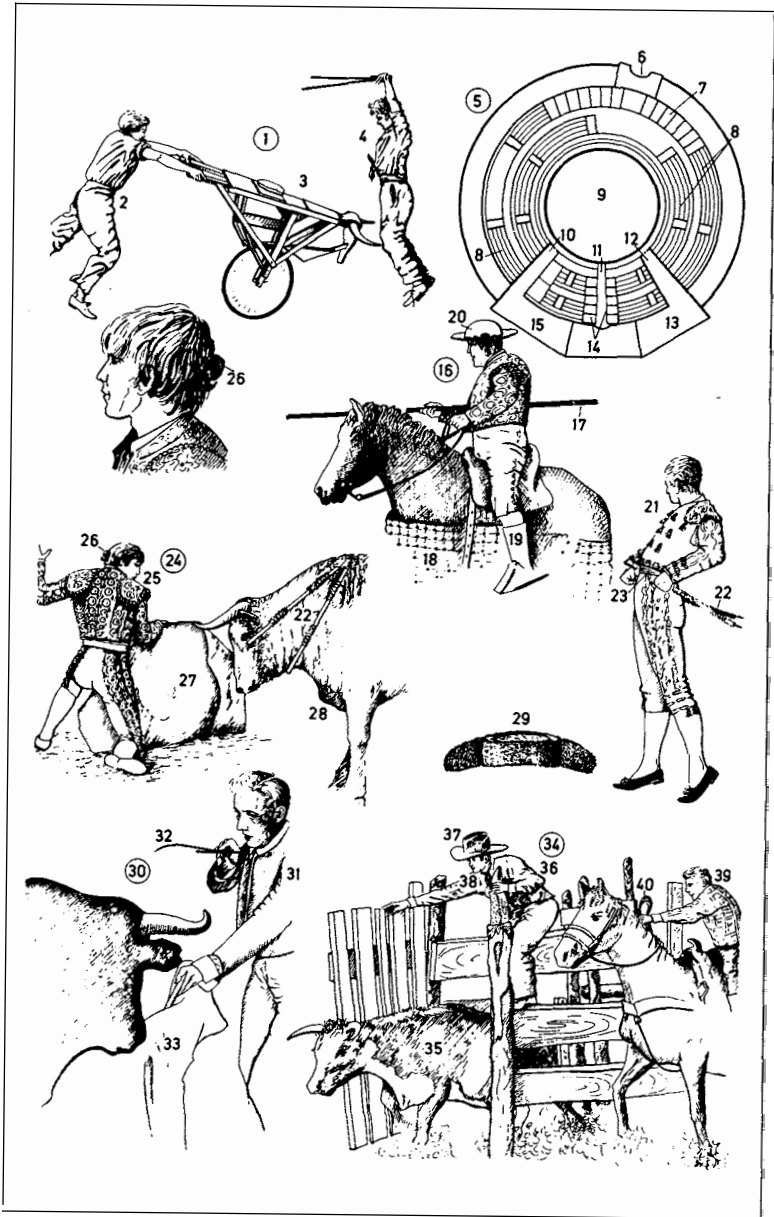
- |  |  |
|--|--|
| 1 bar  | 22 tuner                               |
| 2 barmaid                                      | 23 amplifier                           |
| 3 bar stool                                    | 24 records (discs)                     |
| 4 shelf for bottles                            | 25 disc jockey                         |
| 5 shelf for glasses                            | 26 mixing console (mixing desk, mixer) |
| 6 beer glass                                   | 27 tambourine                          |
| 7 wine and liqueur glasses                     | 28 mirrored wall                       |
| 8 beer tap (tap)                               | 29 ceiling tiles                       |
| 9 bar  | 30 ventilators                         |
| 10 refrigerator (fridge, <i>Am.</i> icebox)    | 31 toilets (lavatories, WC)            |
| 11 bar lamps                                   | 32 long drink                          |
| 12 indirect lighting                           | 33 cocktail ( <i>Am.</i> highball)     |
| 13 colour ( <i>Am.</i> color) organ (clavilux) |  |
| 14 dance floor lighting                        |  |
| 15 speaker (loudspeaker)                       |  |
| 16 dance floor                                 |  |
| 17, 18 dancing couple (dancers)                |  |
| 19 record player                               |  |
| 20 microphone                                  |  |
| 21 tape recorder                               |  |
| 22, 23 stereo system (stereo equipment)        |  |



## 1-33 nightclub (night spot)

- |  |  |
|--|--|
| 1 cloakroom ( <i>Am.</i> checkroom)                        | 21 box containing screen                 |
| 2 cloakroom attendant ( <i>Am.</i> checkroom attendant)    | 22 stage                                 |
| 3 band   | 23 stage lighting                        |
| 4 clarinet   | 24 spotlight                             |
| 5 clarinettist ( <i>Am.</i> clarinetist)                   | 25 festoon lighting                      |
| 6 trumpet  | 26 festoon lamp (lamp, light bulb)       |
| 7 trumpeter  | 27-32 striptease act (striptease number) |
| 8 guitar   | 27 striptease artist (stripper)          |
| 9 guitarist (guitar player)                                | 28 suspender ( <i>Am.</i> garter)        |
| 10 drums   | 29 brassière (bra)                       |
| 11 drummer   | 30 fur stole                             |
| 12 speaker (loudspeaker)                                   | 31 gloves                                |
| 13 bar   | 32 stocking                              |
| 14 barmaid   | 33 hostess                               |
| 15 bar   |  |
| 16 bar stool   |  |
| 17 tape recorder   |  |
| 18 receiver  |  |
| 19 spirits   |  |
| 20 cine projector for porno films (sex films, blue movies) |  |

- 1-33 **bullfight** (corrida, corrida de toros)
- 1 mock bullfight
- 2 novice (aspirant matador, novillero)
- 3 mock bull (dummy bull)
- 4 novice banderillero (apprentice banderillero)
- 5 bullring (plaza de toros) [diagram]
- 6 main entrance
- 7 boxes
- 8 stands
- 9 arena (ring)
- 10 bullfighters' entrance
- 11 torril door
- 12 exit gate for killed bulls
- 13 slaughterhouse
- 14 bull pens (corrals)
- 15 paddock
- 16 lancer on horseback (picador)
- 17 lance (pike pole, javelin)
- 18 armoured (*Am.* armored) horse
- 19 leg armour (*Am.* armor)
- 20 picador's round hat
- 21 banderillero, a torero
- 22 banderillas (barbed darts)
- 23 shirtwaist
- 24 bullfight
- 25 matador (swordsman), a torero
- 26 queue, a distinguishing mark of the matador
- 27 red cloak (capa)
- 28 fighting bull
- 29 montera [hat made of tiny black silk chenille balls]
- 30 killing the bull (kill, estocada)
- 31 matador in charity performances [without professional uniform]
- 32 estoque (sword)
- 33 muleta
- 34 **rodeo**
- 35 young bull
- 36 cowboy
- 37 stetson (stetson hat)
- 38 scarf (necktie)
- 39 rodeo rider
- 40 lasso





- 1, 2 medieval (mediaeval) notes
- 1 plainsong notation (neumes, neums, pneumes, square notation)
- 2 mensural notation
- 3-7 musical note (note)
- 3 note head
- 4 note stem (note tail)
- 5 hook
- 6 stroke
- 7 dot indicating augmentation of note's value
- 8-11 clefs
- 8 treble clef (G-clef, violin clef)
- 9 bass clef (F-clef)
- 10 alto clef (C-clef)
- 11 tenor clef
- 12-19 note values
- 12 breve (brevis, *Am.* double-whole note)
- 13 semibreve (*Am.* whole note)
- 14 minim (*Am.* half note)
- 15 crotchet (*Am.* quarter note)
- 16 quaver (*Am.* eighth note)
- 17 semiquaver (*Am.* sixteenth note)
- 18 demisemiquaver (*Am.* thirty-second note)
- 19 hemidemisemiquaver (*Am.* sixty-fourth note)
- 20-27 rests
- 20 breve rest
- 21 semibreve rest (*Am.* whole rest)
- 22 minim rest (*Am.* half rest)
- 23 crotchet rest (*Am.* quarter rest)
- 24 quaver rest (*Am.* eighth rest)
- 25 semiquaver rest (*Am.* sixteenth rest)
- 26 demisemiquaver rest (*Am.* thirty-second rest)
- 27 hemidemisemiquaver rest (*Am.* sixty-fourth rest)
- 28-42 time (time signatures, measure, *Am.* meter)
- 28 two-eight time
- 29 two-four time
- 30 two-two time
- 31 four-eight time
- 32 four-four time (common time)
- 33 four-two time
- 34 six-eight time
- 35 six-four time

- 36 three-eight time
- 37 three-four time
- 38 three-two time
- 39 nine-eight time
- 40 nine-four time
- 41 five-four time
- 42 bar (bar line, measure line)
- 43, 44 staff (stave)
- 43 line of the staff
- 44 space
- 45-49 scales
- 45 C major scale naturals: c, d, e, f, g, a, b, c
- 46 A minor scale [natural] naturals: a, b, c, d, e, f, g, a
- 47 A minor scale [harmonic]
- 48 A minor scale [melodic]
- 49 chromatic scale
- 50-54 accidentals (inflections, key signatures)
- 50, 51 signs indicating the raising of a note
- 50 sharp (raising the note a semitone or half-step)
- 51 double sharp (raising the note a tone or full-step)
- 52, 53 signs indicating the lowering of a note
- 52 flat (lowering the note a semitone or half-step)
- 53 double flat (lowering the note a tone or full-step)
- 54 natural
- 55-68 keys (major keys and the related minor keys having the same signature)
- 55 C major (A minor)
- 56 G major (E minor)
- 57 D major (B minor)
- 58 A major (F sharp minor)
- 59 E major (C sharp minor)
- 60 B major (G sharp minor)
- 61 F sharp major (D sharp minor)
- 62 C major (A minor)
- 63 F major (D minor)
- 64 B flat major (G minor)
- 65 E flat major (C minor)
- 66 A flat major (F minor)
- 67 D flat major (B flat minor)
- 68 G flat major (E flat minor)

The image displays musical notation examples for page 320. It includes mensural notation for 'Magni - fi - cat' and 'Nu kom der heidē Heiland,'. Below these are examples of scales (C major, A minor) and keys (C major, A minor, G major, E minor, etc.). The notation is presented in a clear, structured manner, with notes and rests numbered to correspond with the list on the left.

- 1-5 **chord**
- 1-4 **triad**
- 1 major triad
- 2 minor triad
- 3 diminished triad
- 4 augmented triad
- 5 chord of four notes, a chord of the seventh (seventh chord, dominant seventh chord)
- 6-13 **intervals**
- 6 unison (unison interval)
- 7 major second
- 8 major third
- 9 perfect fourth
- 10 perfect fifth
- 11 major sixth
- 12 major seventh
- 13 perfect octave
- 14-22 **ornaments** (graces, grace notes)
- 14 long appoggiatura
- 15 acciaccatura (short appoggiatura)
- 16 slide
- 17 trill (shake) without turn
- 18 trill (shake) with turn
- 19 upper mordent (inverted mordent, pralltriller)
- 20 lower mordent (mordent)
- 21 turn
- 22 arpeggio
- 23-26 other signs in musical notation
- 23 triplet; *corresponding groupings*:  
duplet (couplet), quadruplet, quintuplet, sextolet (sextuplet), septolet (septuplet, septimole)
- 24 tie (bind)
- 25 pause (pause sign)
- 26 repeat mark
- 27-41 **expression marks** (signs of relative intensity)
- 27 marcato (marcando, markiert, attack, strong accent)
- 28 presto (quick, fast)
- 29 portato (lourer, mezzo staccato, carried)
- 30 tenuto (held)
- 31 crescendo (increasing gradually in power)

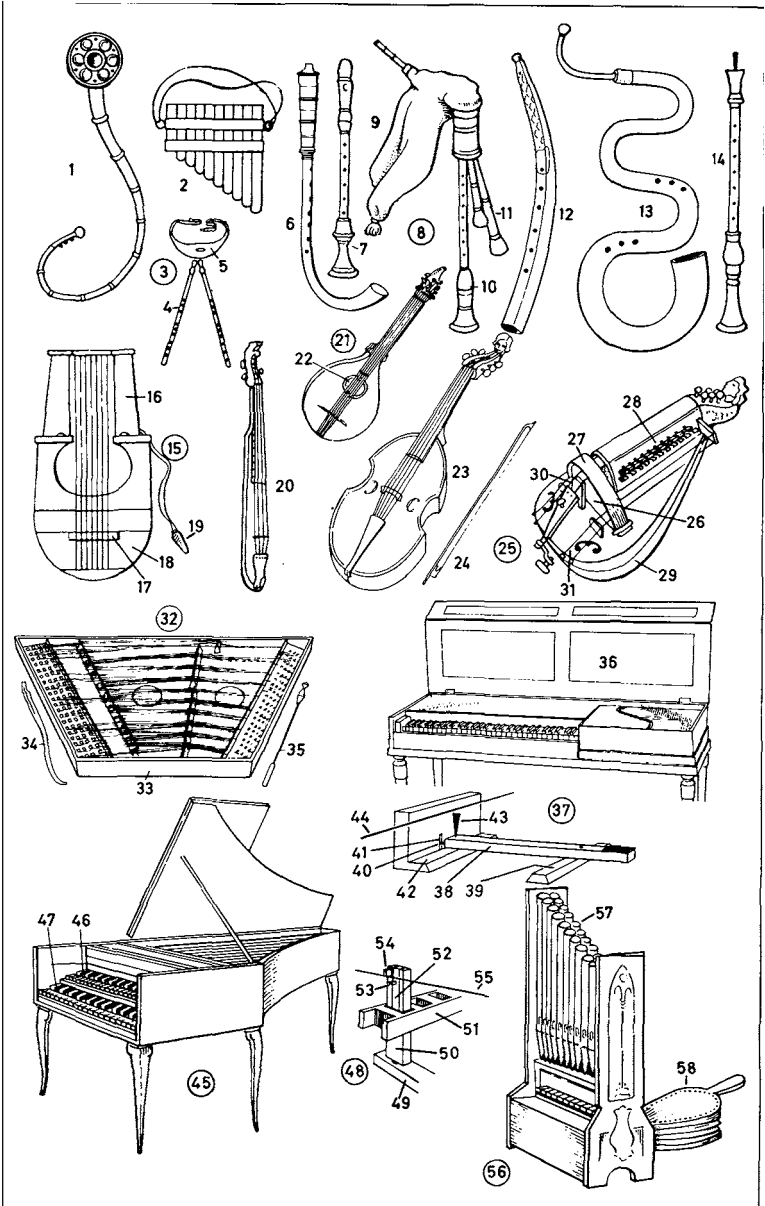
- 32 decrescendo (diminuendo, decreasing or diminishing gradually in power)
- 33 legato (bound)
- 34 staccato (detached)
- 35 piano (soft)
- 36 pianissimo (very soft)
- 37 pianissimo piano (as soft as possible)
- 38 forte (loud)
- 39 fortissimo (very loud)
- 40 forte fortissimo (double fortissimo, as loud as possible)
- 41 forte piano (loud and immediately soft again)
- 42-50 **divisions of the compass**
- 42 subcontra octave (double contra octave)
- 43 contra octave
- 44 great octave
- 45 small octave
- 46 one-line octave
- 47 two-line octave
- 48 three-line octave
- 49 four-line octave
- 50 five-line octave

$2A_2B_2H_1C$  usw  
in Britain:  
 $A_2B\flat_2B_2C_1$  etc.

$\flat HCHc h c^1 h^1 c^2 h^2 c^3 h^3 c^4 h^4 c^5$   
 $B_1CBc b c' b' c' b' c' b' c' b' c'$

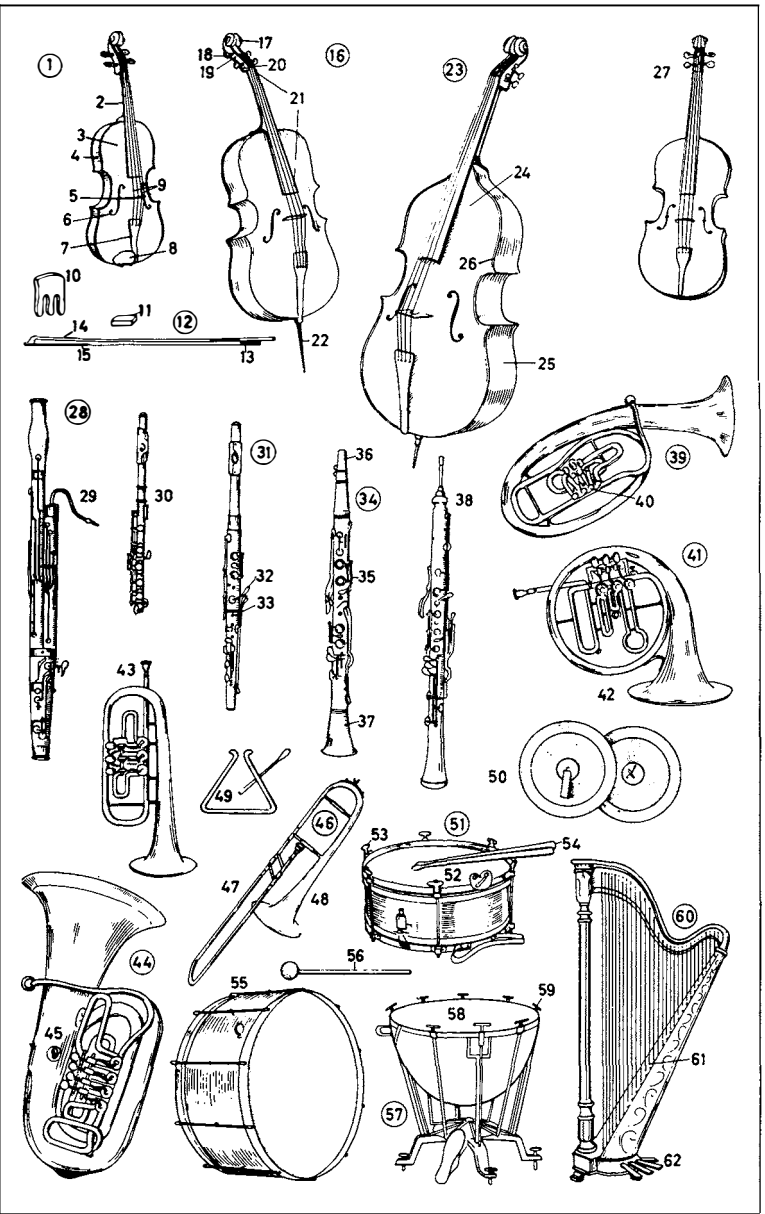
- 1 lur, a bronze trumpet
- 2 panpipes (Pandean pipes, syrinx)
- 3 aulos, a double shawm
- 4 aulos pipe
- 5 phorbeia (peristomion, capistrum, mouth band)
- 6 crumhorn (crumhorn, cromorne, krumbhorn, krummhorn)
- 7 recorder (fipple flute)
- 8 bagpipe; *sim.*: musette
- 9 bag
- 10 chanter (melody pipe)
- 11 drone (drone pipe)
- 12 curved cornett (zink)
- 13 serpent
- 14 shawm (schalmeyes); *larger*: bombard (bombarde, pommcr)
- 15 cythara (cithara); *sim. and smaller*: lyre
- 16 arm
- 17 bridge
- 18 sound box (resonating chamber, resonator)
- 19 plectrum, a plucking device
- 20 kit (pochette), a miniature violin
- 21 cittern (cithern, cither, cister, citole), a plucked instrument; *sim.*: pandora (bandora, bandore)
- 22 sound hole
- 23 viol (descant viol, treble viol, a viola da gamba); *larger*: tenor viol, bass viol (viola da gamba, gamba), violone (double bass viol)
- 24 viol bow
- 25 hurdy-gurdy (vielle à roue, symphonia, armonie, organistrum)
- 26 friction wheel
- 27 wheel cover (wheel guard)
- 28 keyboard (keys)
- 29 resonating body (resonator, sound box)
- 30 melody strings
- 31 drone strings (drones, bourdons)
- 32 dulcimer
- 33 rib (resonator wall)
- 34 beater for the Valasian dulcimer

- 35 hammer (stick) for the Appenzell dulcimer
- 36 clavichord; *kinds*: fretted or unfretted clavichord
- 37 clavichord mechanism
- 38 key (key lever)
- 39 balance rail
- 40 guiding blade
- 41 guiding slot
- 42 resting rail
- 43 tangent
- 44 string
- 45 harpsichord (clavicembalo, cembalo), a wing-shaped stringed keyboard instrument; *sim.*: spinet (virginal)
- 46 upper keyboard (upper manual)
- 47 lower keyboard (lower manual)
- 48 harpsichord mechanism
- 49 key (key lever)
- 50 jack
- 51 slide (register)
- 52 tongue
- 53 quill plectrum
- 54 damper
- 55 string
- 56 portative organ, a portable organ; *larger*: positive organ (positive)
- 57 pipe (flue pipe)
- 58 bellows



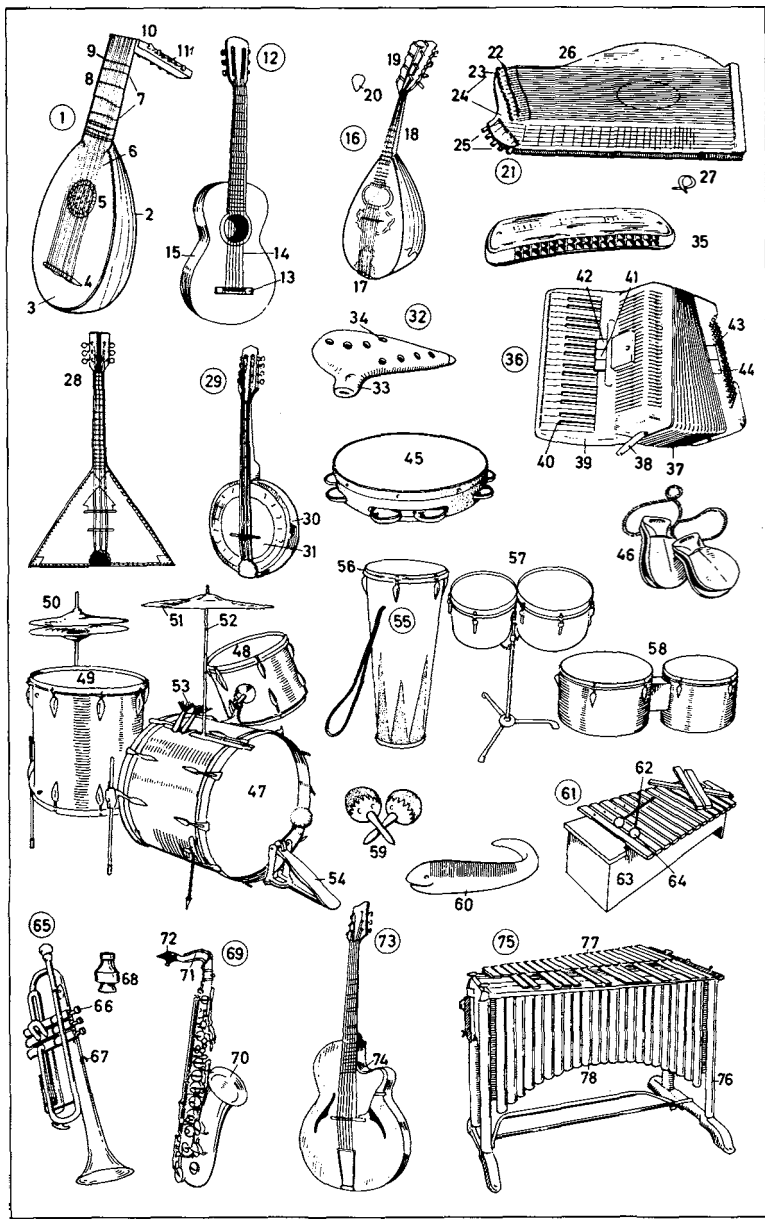
- 1-62 **orchestral instruments**
- 1-27 **stringed instruments**, bowed instruments
- 1 violin
- 2 neck of the violin
- 3 resonating body (violin body, sound box of the violin)
- 4 rib (side wall)
- 5 violin bridge
- 6 F-hole, a sound hole
- 7 tailpiece
- 8 chin rest
- 9 strings (violin strings, fiddle strings): G-string, D-string, A-string, E-string
- 10 mute (sordino)
- 11 resin (rosin, colophony)
- 12 violin bow (bow)
- 13 nut (frog)
- 14 stick (bow stick)
- 15 hair of the violin bow (horsehair)
- 16 violoncello (cello), a member of the da gamba violin family
- 17 scroll
- 18 tuning peg (peg)
- 19 pegbox
- 20 nut
- 21 fingerboard
- 22 spike (tailpin)
- 23 double bass (contrabass, violone, double bass viol, *Am.* bass)
- 24 belly (top, soundboard)
- 25 rib (side wall)
- 26 purfling (inlay)
- 27 viola
- 28-38 **woodwind instruments** (woodwinds)
- 28 bassoon; *larger:* double bassoon (contrabassoon)
- 29 tube with double reed
- 30 piccolo (small flute, piccolo flute, flauto piccolo)
- 31 flute (German flute), a cross flute (transverse flute, side-blown flute)
- 32 key
- 33 fingerhole
- 34 clarinet; *larger:* bass clarinet

- 35 key (brille)
- 36 mouthpiece
- 37 bell
- 38 oboe (hautboy); *kinds:* oboe d'amore; tenor oboes: oboe da caccia, cor anglais; heckelphone (baritone oboe)
- 39-48 **brass instruments** (brass)
- 39 tenor horn
- 40 valve
- 41 French horn (horn, waldhorn), a valve horn
- 42 bell
- 43 trumpet; *larger:* Bb cornet; *smaller:* cornet
- 44 bass tuba (tuba, bombardon); *sim.:* helicon (pellitone), contrabass tuba
- 45 thumb hold
- 46 trombone; *kinds:* alto trombone, tenor trombone, bass trombone
- 47 trombone slide (slide)
- 48 bell
- 49-59 **percussion instruments**
- 49 triangle
- 50 cymbals
- 51-59 **membranophones**
- 51 side drum (snare drum)
- 52 drum head (head, upper head, batter head, vellum)
- 53 tensioning screw
- 54 drumstick
- 55 bass drum (Turkish drum)
- 56 stick (padded stick)
- 57 kettledrum (timpano), a screw-tensioned drum; *sim.:* machine drum (mechanically tuned drum)
- 58 kettledrum skin (kettledrum vellum)
- 59 tuning screw
- 60 harp, a pedal harp
- 61 strings
- 62 pedal



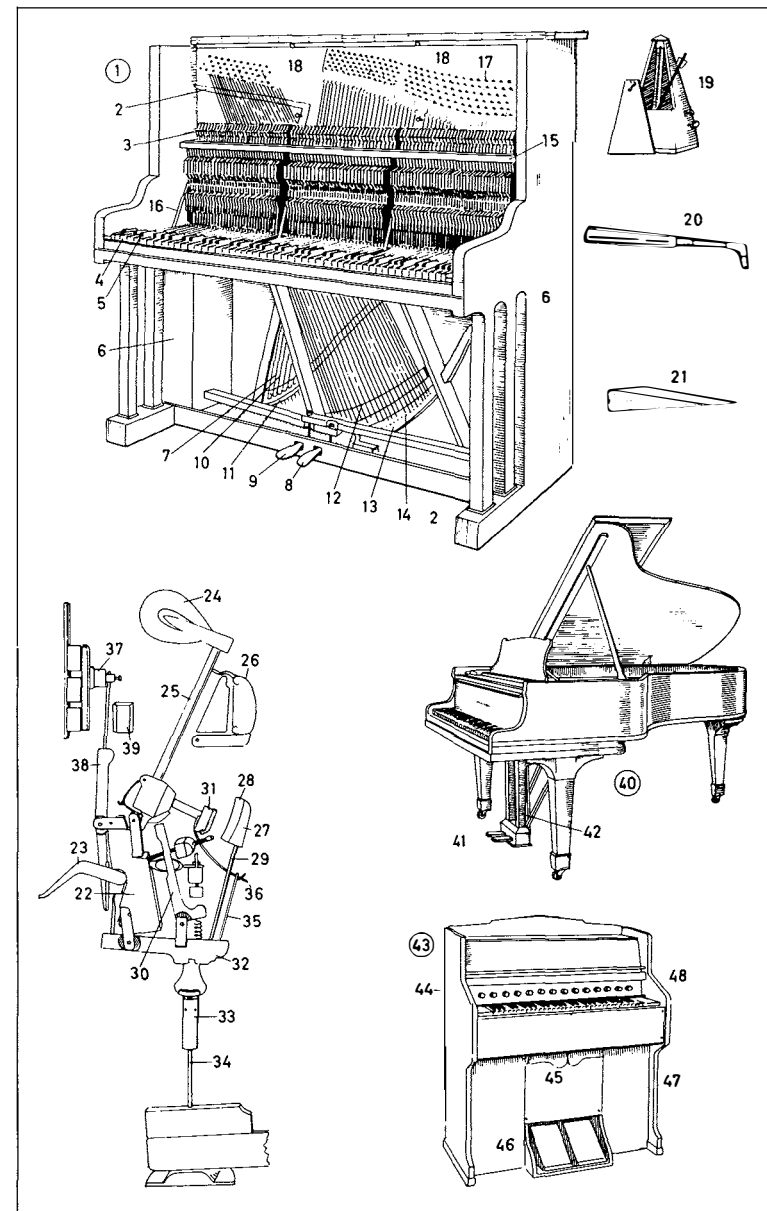
- 1-46 popular musical instruments** (folk instruments)
- 1-31** stringed instruments
- 1 lute; *larger*: theorbo, chitarraone
- 2 resonating body (resonator)
- 3 soundboard (belly, table)
- 4 string fastener (string holder)
- 5 sound hole (rose)
- 6 string, a gut (catgut) string
- 7 neck
- 8 fingerboard
- 9 fret
- 10 head (bent-back pegbox, swan-head pegbox, pegbox)
- 11 tuning peg (peg, lute pin)
- 12 guitar
- 13 string holder
- 14 string, a gut (catgut) or nylon string
- 15 resonating body (resonating chamber, resonator, sound box)
- 16 mandolin (mandoline)
- 17 sleeve protector (cuff protector)
- 18 neck
- 19 pegdisc
- 20 plectrum
- 21 zither (plucked zither)
- 22 pin block (wrest pin block, wrest plank)
- 23 tuning pin (wrest pin)
- 24 accompaniment strings (bass strings, unfretted strings, open strings)
- 25 melody strings (fretted strings, stopped strings)
- 26 semicircular projection of the resonating sound box (resonating body)
- 27 ring plectrum
- 28 balalaika
- 29 banjo
- 30 tambourine-like body
- 31 parchment membrane
- 32 ocarina, a globular flute
- 33 mouthpiece
- 34 fingerhole
- 35 mouth organ (harmonica)
- 36 accordion; *sim.*: piano accordion, concertina, bandoneon
- 37 bellows
- 38 bellows strap

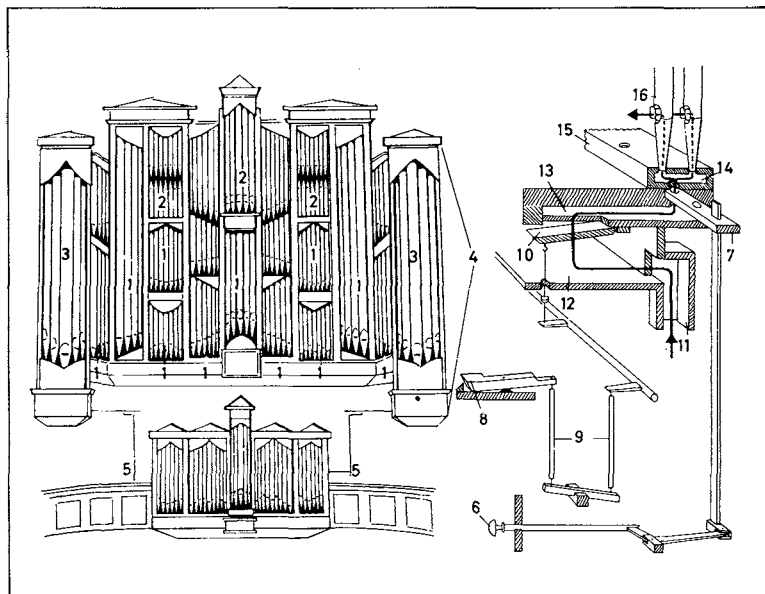
- 39 melody side (keyboard side, melody keys)
- 40 keyboard (keys)
- 41 treble stop (treble coupler, treble register)
- 42 stop lever
- 43 bass side (accompaniment side, bass studs, bass press-studs, bass buttons)
- 44 bass stop (bass coupler, bass register)
- 45 tambourine
- 46 castanets
- 47-78 jazz band instruments** (dance band instruments)
- 47-58** percussion instruments
- 47-54** drum kit (drum set, drums)
- 47 bass drum
- 48 small tom-tom
- 49 large tom-tom
- 50 high-hat cymbals (choke cymbals, Charleston cymbals, cup cymbals)
- 51 cymbal
- 52 cymbal stand (cymbal holder)
- 53 wire brush
- 54 pedal mechanism
- 55 conga drum (conga)
- 56 tension hoop
- 57 timbales
- 58 bongo drums (bongos)
- 59 maracas; *sim.*: shakers
- 60 guiro
- 61 xylophone; *form.*: straw fiddle; *sim.*: marimbaphone (steel marimba), tubaphone
- 62 wooden slab
- 63 resonating chamber (sound box)
- 64 beater
- 65 jazz trumpet
- 66 valve
- 67 finger hook
- 68 mute (sordino)
- 69 saxophone
- 70 bell
- 71 crook
- 72 mouthpiece
- 73 struck guitar (jazz guitar)
- 74 hollow to facilitate fingering
- 75 vibraphone (*Am.* vibraharp)
- 76 metal frame
- 77 metal bar
- 78 tubular metal resonator



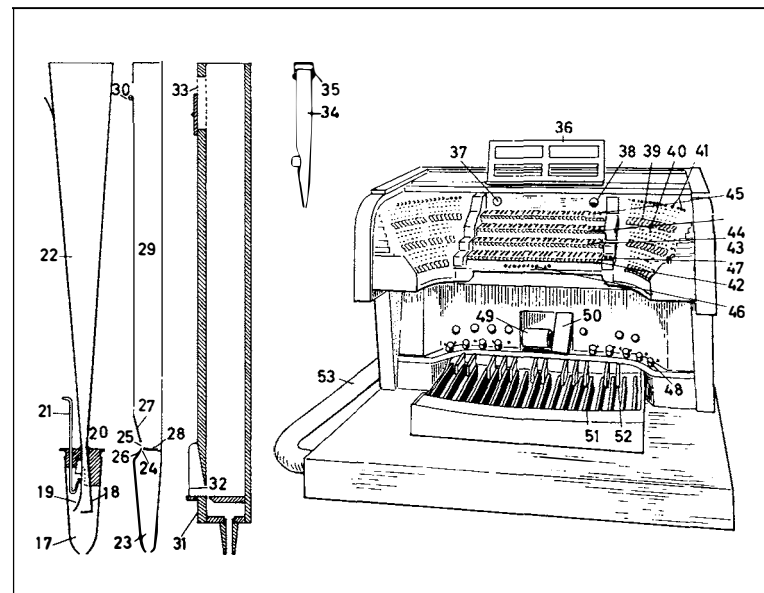
- 1 **piano** (pianoforte, upright piano, upright, vertical piano, spinet piano, console piano), a keyboard instrument (keyed instrument); *smaller form*: cottage piano (piano); *earlier forms*: pantaleon; celesta, with steel bars instead of strings
- 2-18 **piano action** (piano mechanism)
- 2 iron frame
- 3 hammer; *collectively*: striking mechanism
- 4, 5 keyboard (piano keys)
- 4 white key (ivory key)
- 5 black key (ebony key)
- 6 piano case
- 7 strings (piano strings)
- 8, 9 piano pedals
- 8 right pedal (sustaining pedal, damper pedal; *loosely*: forte pedal, loud pedal) for raising the dampers
- 9 left pedal (soft pedal; *loosely*: piano pedal) for reducing the striking distance of the hammers on the strings
- 10 treble strings
- 11 treble bridge (treble belly bridge)
- 12 bass strings
- 13 bass bridge (bass belly bridge)
- 14 hitch pin
- 15 hammer rail
- 16 brace
- 17 tuning pin (wrest pin, tuning peg)
- 18 pin block (wrest pin block, wrest plank)
- 19 metronome
- 20 tuning hammer (tuning key, wrest)
- 21 tuning wedge
- 22-39 **key action** (key mechanism)
- 22 beam
- 23 damper-lifting lever
- 24 felt-covered hammer head
- 25 hammer shank
- 26 hammer rail
- 27 check (back check)
- 28 check felt (back check felt)

- 29 wire stem of the check (wire stem of the back check)
- 30 sticker (hopper, hammer jack, hammer lever)
- 31 button
- 32 action lever
- 33 pilot
- 34 pilot wire
- 35 tape wire
- 36 tape
- 37 damper (damper block)
- 38 damper lifter
- 39 damper rest rail
- 40 **grand piano** (horizontal piano, grand, concert grand; *smaller*: baby grand piano, boudoir piano; *sim.*: square piano, table piano)
- 41 grand piano pedals; right pedal for raising the dampers; left pedal for softening the tone (shifting the keyboard so that only one string is struck 'una corda')
- 42 pedal bracket
- 43 **harmonium** (reed organ, melodium)
- 44 draw stop (stop, stop knob)
- 45 knee lever (knee swell, swell)
- 46 pedal (bellows pedal)
- 47 harmonium case
- 48 harmonium keyboard (manual)





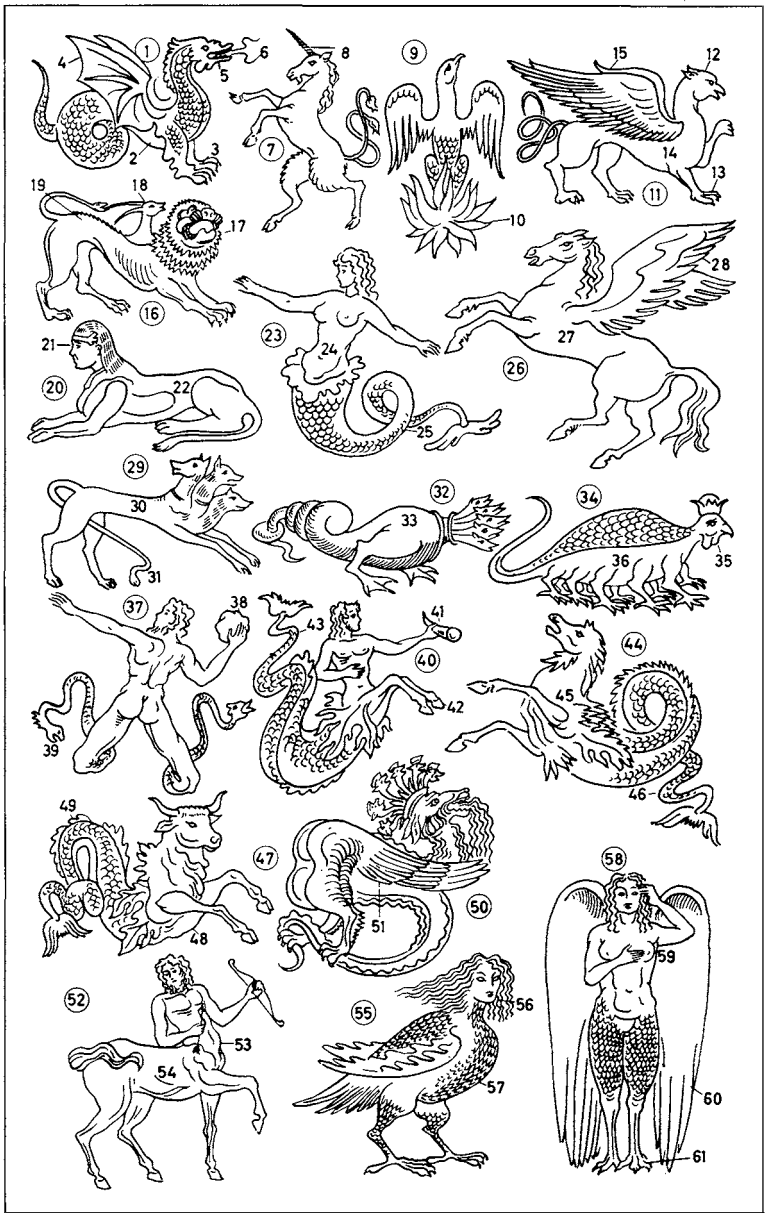
- 1-52 organ** (church organ)  
**1-5** front view of organ (organ case)  
 [built according to classical principles]  
**1-3** display pipes (face pipes)  
**1** Hauptwerk  
**2** Oberwerk  
**3** pedal pipes  
**4** pedal tower  
**5** Rückpositiv  
**6-16** tracker action (mechanical action); *other systems*: pneumatic action, electric action  
**6** draw stop (stop, stop knob)  
**7** slider (slide)  
**8** key (key lever)  
**9** sticker  
**10** pallet  
**11** wind trunk  
**12-14** wind chest, a slider wind chest; *other types*: sliderless wind chest (unit wind chest), spring chest, kegellade chest (cone chest), diaphragm chest  
**12** wind chest (wind chest box)  
**13** groove  
**14** upper board groove  
**15** upper board  
**16** pipe of a particular stop  
**17-35** organ pipes (pipes)  
**17-22** metal reed pipe (*set of pipes*: reed stop), a posaune stop  
**17** boot  
**18** shallot  
**19** tongue  
**20** block  
**21** tuning wire (tuning crook)  
**22** tube  
**23-30** open metal flue pipe, a salicional  
**23** foot



- 24** flue pipe windway (flue pipe duct)  
**25** mouth (cutup)  
**26** lower lip  
**27** upper lip  
**28** languid  
**29** body of the pipe (pipe)  
**30** tuning flap (tuning tongue), a tuning device  
**31-33** open wooden flue pipe (open wood), principal (diapason)  
**31** cap  
**32** ear  
**33** tuning hole (tuning slot), with slide  
**34** stopped flue pipe  
**35** stopper  
**36-52** organ console (console) of an electric action organ  
**36** music rest (music stand)  
**37** crescendo roller indicator  
**38** voltmeter  
**39** stop tab (rocker)  
**40** free combination stud (free combination knob)  
**41** cancel buttons for reeds, couplers etc.  
**42** manual I, for the Rückpositiv  
**43** manual II, for the Hauptwerk  
**44** manual III, for the Oberwerk  
**45** manual IV, for the Schwellwerk  
**46** thumb pistons controlling the manual stops (free or fixed combinations) and buttons for setting the combinations  
**47** switches for current to blower and action  
**48** toe piston, for the coupler  
**49** crescendo roller (general crescendo roller)  
**50** balanced swell pedal  
**51** pedal key [natural]  
**52** pedal key [sharp or flat]  
**53** cable (transmission cable)

- 1-61 fabulous creatures** (fabulous animals), mythical creatures
- 1 dragon
  - 2 serpent's body
  - 3 claws (claw)
  - 4 bat's wing
  - 5 fork-tongued mouth
  - 6 forked tongue
  - 7 unicorn [symbol of virginity]
  - 8 spirally twisted horn
  - 9 Phoenix
  - 10 flames or ashes of resurrection
  - 11 griffin (griffon, gryphon)
  - 12 eagle's head
  - 13 griffin's claws
  - 14 lion's body
  - 15 wing
  - 16 chimera (chimaera), a monster
  - 17 lion's head
  - 18 goat's head
  - 19 dragon's body
  - 20 sphinx, a symbolic figure
  - 21 human head
  - 22 lion's body
  - 23 mermaid (nix, nixie, water nixie, sea maid, sea maiden, naiad, water nymph, water elf, ocean nymph, sea nymph, river nymph); *sim.*: Nereids, Oceanids (sea divinities, sea deities, sea goddesses); *male*: nix (merman, seaman)
  - 24 woman's trunk
  - 25 fish's tail (dolphin's tail)
  - 26 Pegasus (favourite, *Am.* favorite, steed of the Muses, winged horse); *sim.*: hippogryph
  - 27 horse's body
  - 28 wings
  - 29 Cerberus (hellhound)
  - 30 three-headed dog's body
  - 31 serpent's tail
  - 32 Lernaean (Lernean) Hydra
  - 33 nine-headed serpent's body
  - 34 basilisk (cockatrice)
  - 35 cock's head
  - 36 dragon's body

- 37 giant (titan)
- 38 rock
- 39 serpent's foot
- 40 triton, a merman (demigod of the sea)
- 41 conch shell trumpet
- 42 horse's hoof
- 43 fish's tail
- 44 hippocampus
- 45 horse's trunk
- 46 fish's tail
- 47 sea ox, a sea monster
- 48 monster's body
- 49 fish's tail
- 50 seven-headed dragon of St. John's Revelation (Revelations, Apocalypse)
- 51 wing
- 52 centaur (hippocentaur), half man and half beast
- 53 man's body with bow and arrow
- 54 horse's body
- 55 harpy, a winged monster
- 56 woman's head
- 57 bird's body
- 58 siren, a daemon
- 59 woman's body
- 60 wing
- 61 bird's claw





## 1-40 prehistoric finds

## 1-9 Old Stone Age (Palaeolithic, Paleolithic, period) and Mesolithic period

- 1 hand axe (*Am. ax*) (fist hatchet), a stone tool
- 2 head of throwing spear, made of bone
- 3 bone harpoon
- 4 head
- 5 harpoon thrower, made of reindeer antler
- 6 painted pebble
- 7 head of a wild horse, a carving
- 8 Stone Age idol, an ivory statuette
- 9 bison, a cave painting (rock painting) [cave art, cave painting]

## 10-20 New Stone Age (Neolithic period)

- 10 amphora [corded ware]
- 11 bowl [menhir group]
- 12 collared flask [Funnel-Beaker culture]
- 13 vessel with spiral pattern [spiral design pottery]
- 14 bell beaker [bell beaker culture]
- 15 pile dwelling (lake dwelling, lacustrine dwelling)
- 16 dolmen (cromlech), a megalithic tomb (*coll.*: giant's tomb); *other kinds*: passage grave, gallery grave (long cist); *when covered with earth*: tumulus (barrow, mound)
- 17 stone cist, a contracted burial
- 18 menhir (standing stone), a monolith
- 19 boat axe (*Am. ax*), a stone battle axe
- 20 clay figurine, an idol

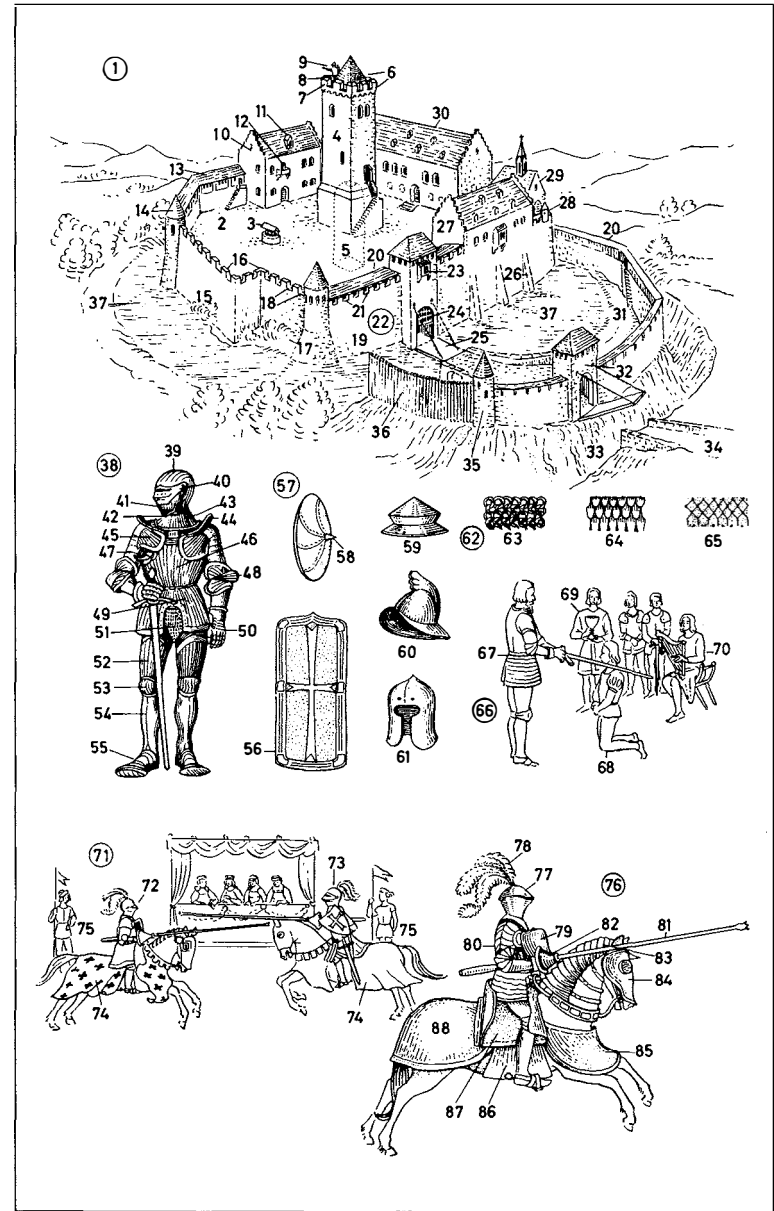
## 21-40 Bronze Age and Iron Age; epochs: Hallstatt period, La Tène period

- 21 bronze spear head
- 22 hafted bronze dagger
- 23 socketed axe (*Am. ax*), a bronze axe with haft fastened to rings
- 24 girdle clasp
- 25 necklace (lunula)
- 26 gold neck ring

- 27 violin-bow fibula (safety pin)
- 28 serpentine fibula; *other kinds*: boat fibula, arc fibula
- 29 bulb-head pin, a bronze pin
- 30 two-piece spiral fibula; *sim.*: disc (disk) fibula
- 31 hafted bronze knife
- 32 iron key
- 33 ploughshare (*Am. plowshare*)
- 34 sheet-bronze situla, a funerary vessel
- 35 pitcher [chip-carved pottery]
- 36 miniature ritual cart (miniature ritual chariot)
- 37 Celtic silver coin
- 38 face urn, a cinerary urn; *other kinds*: domestic urn, embossed urn
- 39 urn grave in stone chamber
- 40 urn with cylindrical neck



- 1 knight's castle** (castle)  
**2** inner ward (inner bailey)  
**3** draw well  
**4** keep (donjon)  
**5** dungeon  
**6** battlements (crenellation)  
**7** merlon  
**8** tower platform  
**9** watchman  
**10** ladies' apartments (bowers)  
**11** dormer window (dormer)  
**12** balcony  
**13** storehouse (magazine)  
**14** angle tower  
**15** curtain wall (curtains, enclosure wall)  
**16** bastion  
**17** angle tower  
**18** crenel (embrasure)  
**19** inner wall  
**20** battlemented parapet  
**21** parapet (breastwork)  
**22** gatehouse  
**23** machicolation (machicoulis)  
**24** portcullis  
**25** drawbridge  
**26** buttress  
**27** offices and service rooms  
**28** turret  
**29** chapel  
**30** great hall  
**31** outer ward (outer bailey)  
**32** castle gate  
**33** moat (ditch)  
**34** approach  
**35** watchtower (turret)  
**36** palisade (pallisade, palisading)  
**37** moat (ditch, fosse)  
**38-65 knight's armour** (*Am. armor*)  
**38** suit of armour (*Am. armor*)  
**39-42** helmet  
**39** skull  
**40** visor (visor)  
**41** beaver  
**42** throat piece  
**43** gorget  
**44** épaulière  
**45** pallette (pauldron, besageur)  
**46** breastplate (cuirass)  
**47** brassard (rear brace and vambrace)  
**48** cubitière (coudière, couter)  
**49** tasse (tasset)  
**50** gauntlet  
**51** habergeon (haubergeon)  
**52** cuisse (cuish, cuissard, cuissart)  
**53** knee cap (knee piece, genouillère, poleyn)  
**54** jambeau (greave)  
**55** solleret (sabaton, sabbaton)  
**56** pavis (pavise, pavaïs)  
**57** buckler (round shield)  
**58** boss (umbo)  
**59** iron hat  
**60** morion  
**61** light casque  
**62** types of mail and armour (*Am. armor*)  
**63** mail (chain mail, chain armour, *Am. armor*)  
**64** scale armour (*Am. armor*)  
**65** plate armour (*Am. armor*)  
**66** accolade (dubbing, knighting)  
**67** liege lord, a knight  
**68** esquire  
**69** cup bearer  
**70** minstrel (minnesinger, troubadour)  
**71** tournament (tourney, joust, just, tilt)  
**72** crusader  
**73** Knight Templar  
**74** caparison (trappings)  
**75** herald (marshal at tournament)  
**76** tilting armour (*Am. armor*)  
**77** tilting helmet (jousting helmet)  
**78** panache (plume of feathers)  
**79** tilting target (tilting shield)  
**80** lance rest  
**81** tilting lance (lance)  
**82** vamplate  
**83-88** horse armour (*Am. armor*)  
**83** neck guard (neck piece)  
**84** chamfron (chaffron, chafiron, chamfrain, chanfron)  
**85** poitrel  
**86** flanchard (flancard)  
**87** tournament saddle  
**88** rump piece (quarter piece)



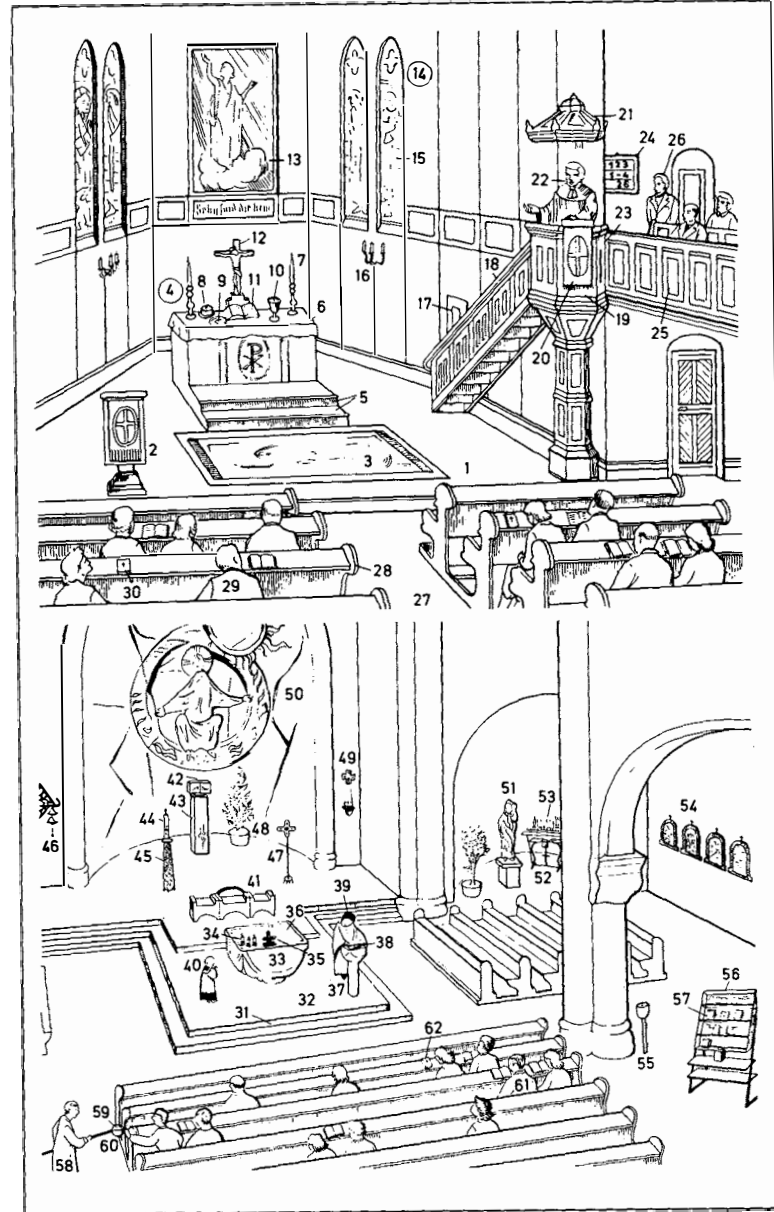
**1-30 Protestant church**

- 1 chancel
- 2 lectern
- 3 altar carpet
- 4 altar (communion table, Lord's table, holy table)
- 5 altar steps
- 6 altar cloth
- 7 altar candle
- 8 pyx (pix)
- 9 paten (patin, patine)
- 10 chalice (communion cup)
- 11 Bible (Holy Bible, Scriptures, Holy Scripture)
- 12 altar crucifix
- 13 altarpiece
- 14 church window
- 15 stained glass
- 16 wall candelabrum
- 17 vestry door (sacristy door)
- 18 pulpit steps
- 19 pulpit
- 20 antependium
- 21 canopy (soundboard, sounding board)
- 22 preacher (pastor, vicar, clergyman, rector) in his robes (vestments, canonicals)
- 23 pulpit balustrade
- 24 hymn board showing hymn numbers
- 25 gallery
- 26 vergers (sexton, sacristan)
- 27 aisle
- 28 pew; *collectively*: pews (seating)
- 29 churchgoer (worshipper); *collectively*: congregation
- 30 hymn book

**31-62 Roman Catholic church**

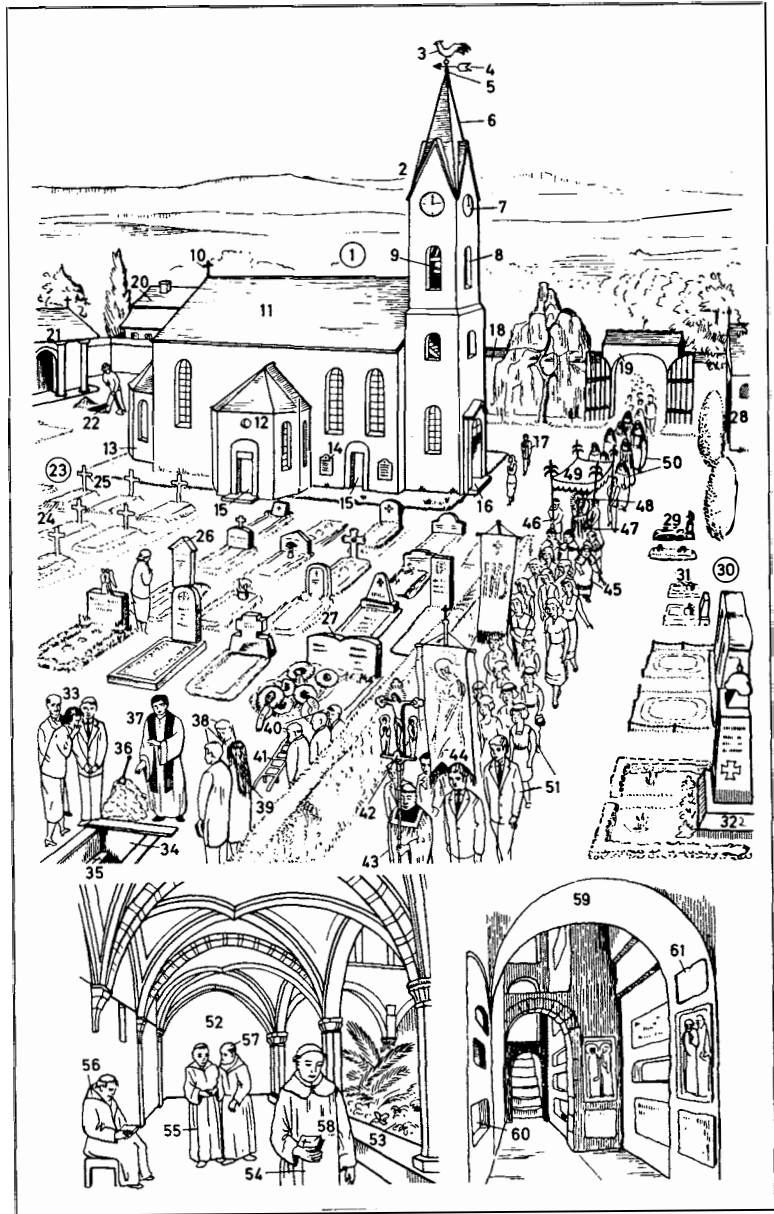
- 31 altar steps
- 32 presbytery (choir, chancel, sacristum, sanctuary)
- 33 altar
- 34 altar candles
- 35 altar cross
- 36 altar cloth
- 37 lectern

- 38 missal (mass book)
- 39 priest
- 40 server
- 41 sedilia
- 42 tabernacle
- 43 stele (stela)
- 44 paschal candle (Easter candle)
- 45 paschal candlestick (Easter candlestick)
- 46 sanctus bell
- 47 processional cross
- 48 altar decoration (foliage, flower arrangement)
- 49 sanctuary lamp
- 50 altarpiece, a picture of Christ
- 51 Madonna (statue of the Virgin Mary)
- 52 pricket
- 53 votive candles
- 54 station of the Cross
- 55 offertory box
- 56 literature stand
- 57 literature (pamphlets, tracts)
- 58 vergers (sexton, sacristan)
- 59 offertory bag
- 60 offering
- 61 man praying
- 62 prayer book



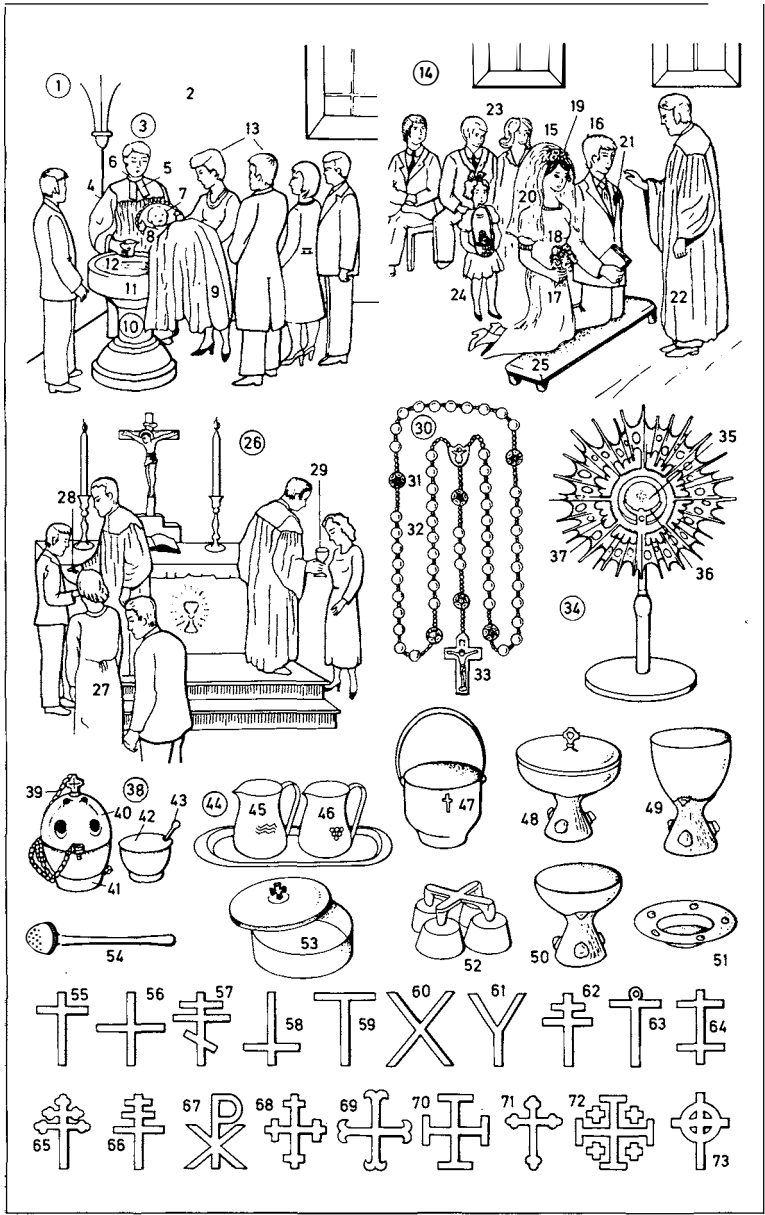
- 1 church
- 2 steeple
- 3 weathercock
- 4 weather vane (wind vane)
- 5 spire ball
- 6 church spire (spire)
- 7 church clock (tower clock)
- 8 belfry window
- 9 electrically operated bell
- 10 ridge cross
- 11 church roof
- 12 memorial chapel
- 13 vestry (sacristy), an annexe (annex)
- 14 memorial tablet (memorial plate, wall memorial, wall stone)
- 15 side entrance
- 16 church door (main door, portal)
- 17 churchgoer
- 18 graveyard wall (churchyard wall)
- 19 graveyard gate (churchyard gate, lichgate, lychgate)
- 20 vicarage (parsonage, rectory)
- 21-41 graveyard (churchyard, God's acre, *Am.* burying ground)
- 21 mortuary
- 22 grave digger
- 23 grave (tomb)
- 24 grave mound
- 25 cross
- 26 gravestone (headstone, tombstone)
- 27 family grave (family tomb)
- 28 graveyard chapel
- 29 child's grave
- 30 urn grave
- 31 urn
- 32 soldier's grave
- 33-41 funeral (burial)
- 33 mourners
- 34 grave
- 35 coffin (*Am.* casket)
- 36 spade
- 37 clergyman
- 38 the bereaved
- 39 widow's veil, a mourning veil
- 40 pallbearers

- 41 bier
- 42-50 procession (religious procession)
- 42 processional crucifix
- 43 cross bearer (crucifer)
- 44 processional banner, a church banner
- 45 acolyte
- 46 canopy bearer
- 47 priest
- 48 monstrance with the Blessed Sacrament (consecrated Host)
- 49 canopy (baldachin, baldaquin)
- 50 nuns
- 51 participants in the procession
- 52-58 monastery
- 52 cloister
- 53 monastery garden
- 54 monk, a Benedictine monk
- 55 habit (monk's habit)
- 56 cowl (hood)
- 57 tonsure
- 58 breviary
- 59 catacomb, an early Christian underground burial place
- 60 niche (tomb recess, arcosolium)
- 61 stone slab



- 1 Christian baptism (christening)  
2 baptistery (baptistry)  
3 Protestant clergyman  
4 robes (vestments, canonicals)  
5 bands  
6 collar  
7 child to be baptized (christened)  
8 christening robe (christening dress)  
9 christening shawl  
10 font  
11 font basin  
12 baptismal water  
13 godparents  
14 church wedding (wedding ceremony, marriage ceremony)  
15, 16 bridal couple  
15 bride  
16 bridegroom (groom)  
17 ring (wedding ring)  
18 bride's bouquet (bridal bouquet)  
19 bridal wreath  
20 veil (bridal veil)  
21 [myrtle] buttonhole  
22 clergyman  
23 witnesses [to the marriage]  
24 bridesmaid  
25 kneeler  
26 Holy Communion  
27 communicants  
28 Host (wafer)  
29 communion cup  
30 rosary  
31 paternoster  
32 Ave Maria; *set of 10*: decade  
33 crucifix  
34-54 liturgical vessels (ecclesiastical vessels)  
34 monstrance  
35 Host (consecrated Host, Blessed Sacrament)  
36 lunula (lunule)  
37 rays  
38 censer (thurible), for offering incense (for incensing)  
39 thurible chain  
40 thurible cover

- 41 thurible bowl  
42 incense boat  
43 incense spoon  
44 cruet set  
45 water cruet  
46 wine cruet  
47 holy water basin  
48 ciborium containing the sacred wafers  
49 chalice  
50 dish for communion wafers  
51 paten (patin, patine)  
52 altar bells  
53 pyx (pix)  
54 aspergillum  
55-72 forms of Christian crosses  
55 Latin cross (cross of the Passion)  
56 Greek cross  
57 Russian cross  
58 St. Peter's cross  
59 St. Anthony's cross (tau cross)  
60 St. Andrew's cross (saltire cross)  
61 Y-cross  
62 cross of Lorraine  
63 ansate cross  
64 patriarchal cross  
65 cardinal's cross  
66 papal cross  
67 Constantinian cross, a monogram of Christ (CHR)  
68 crosslet  
69 cross moline  
70 cross of Jerusalem  
71 cross botonnée (cross treflée)  
72 fivefold cross (quintuple cross)  
73 Celtic cross



**1-18 Egyptian art**

- 1 pyramid, a royal tomb
- 2 king's chamber
- 3 queen's chamber
- 4 air passage
- 5 coffin chamber
- 6 pyramid site
- 7 funerary temple
- 8 valley temple
- 9 pylon, a monumental gateway
- 10 obelisks
- 11 Egyptian sphinx
- 12 winged sun disc (sun disk)
- 13 lotus column
- 14 knob-leaf capital (bud-shaped capital)
- 15 papyrus column
- 16 bell-shaped capital
- 17 palm column
- 18 ornamented column
- 19, 20 Babylonian art**
- 19 Babylonian frieze
- 20 glazed relief tile

**21-28 art of the Persians**

- 21 tower tomb
- 22 stepped pyramid
- 23 double bull column
- 24 projecting leaves
- 25 palm capital
- 26 volute (scroll)
- 27 shaft
- 28 double bull capital

**29-36 art of the Assyrians**

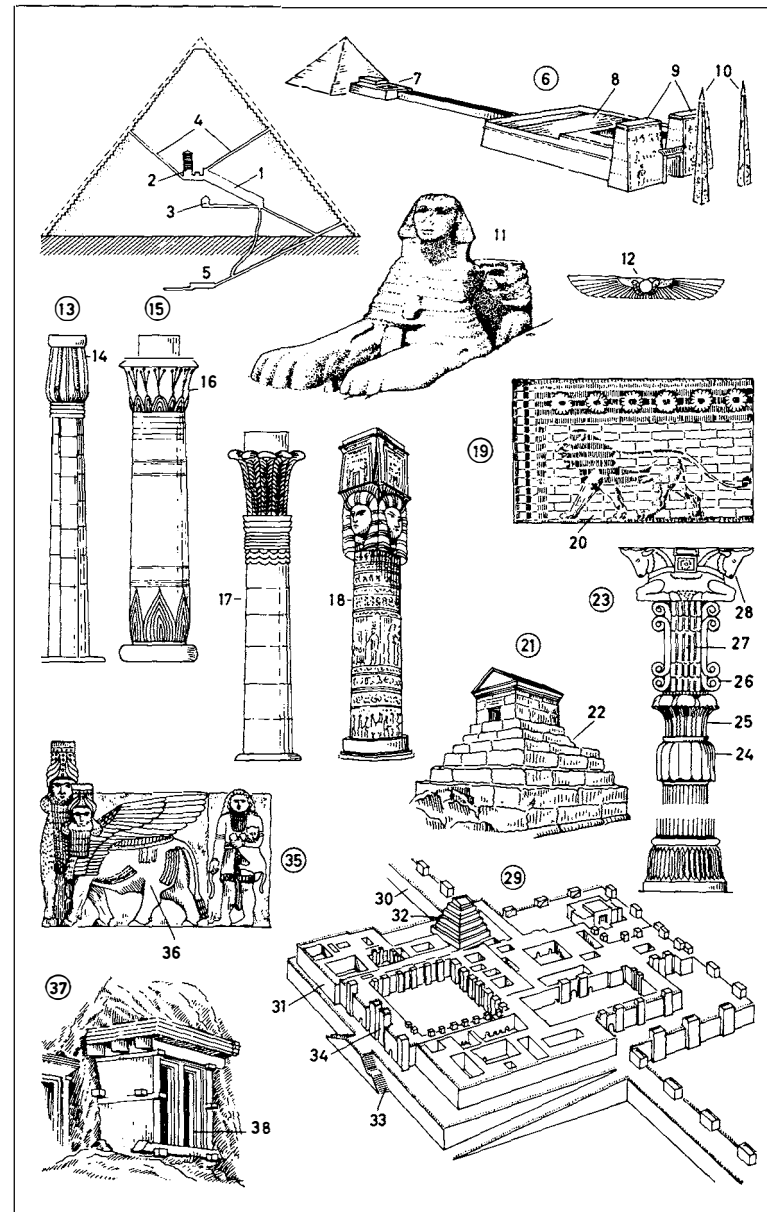
- 29 Sargon's Palace, palace buildings
- 30 city wall
- 31 castle wall
- 32 temple tower (ziggurat), a stepped (terraced) tower

**33-36 art of the Assyrians**

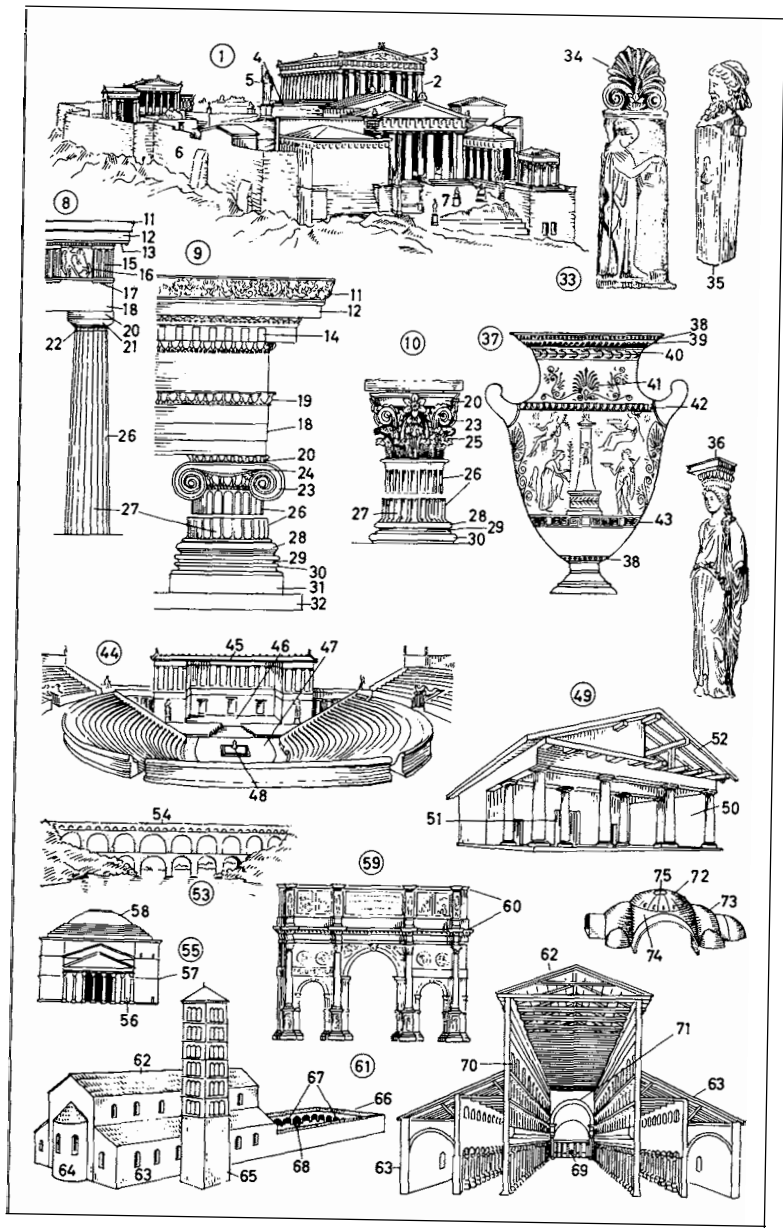
- 33 outside staircase
- 34 main portal
- 35 portal relief
- 36 portal figure

**37 art of Asia Minor**

- 38 rock tomb



- 1-48 Greek art**  
1-7 the Acropolis  
1 the Parthenon, a Doric temple  
2 peristyle  
3 pediment  
4 crepidoma (stereobate)  
5 statue  
6 temple wall  
7 propylaea  
8 Doric column  
9 Ionic column  
10 Corinthian column  
**11-14 cornice**  
11 cyma  
12 corona  
13 mutule  
14 dentils  
15 triglyph  
16 metope, a frieze decoration  
17 regula  
18 epistyle (architrave)  
19 cyma (cymatium, kymation)  
**20-25 capital**  
20 abacus  
21 echinus  
22 hypotrachelium (gorgerin)  
23 volute (scroll)  
24 volute cushion  
25 acanthus  
26 column shaft  
27 flutes (grooves, channels)  
**28-31 base**  
28 [upper] torus  
29 trochilus (concave moulding, *Am.* molding)  
30 [lower] torus  
31 plinth  
32 stylobate  
33 stele (stela)  
34 acroterion (acroterium, acroter)  
35 herm (herma, hermes)  
36 caryatid; *male*: Atlas  
37 Greek vase  
**38-43 Greek ornamentation** (Greek decoration, Greek decorative designs)  
38 bead-and-dart moulding (*Am.* molding), an ornamental band  
39 running dog (*Vitruvian scroll*)  
40 leaf ornament  
41 palmette  
42 egg and dart (egg and tongue, egg and anchor) cyma  
43 meander  
44 Greek theatre (*Am.* theater)  
45 scene  
46 proscenium  
47 orchestra  
48 thymele (altar)  
**49-52 Etruscan art**  
49 Etruscan temple  
50 portico  
51 cella  
52 entablature  
**53-60 Roman art**  
53 aqueduct  
54 conduit (water channel)  
55 centrally-planned building (centralized building)  
56 portico  
57 reglet  
58 cupola  
59 triumphal arch  
60 attic  
**61-71 Early Christian art**  
61 basilica  
62 nave  
63 aisle  
64 apse  
65 campanile  
66 atrium  
67 colonnade  
68 fountain  
69 altar  
70 clerestory (clearstory)  
71 triumphal arch  
**72-75 Byzantine art**  
72, 73 dome system  
72 main dome  
73 semidome  
74 pendentive  
75 eye, a lighting aperture



1-21 Romanesque art

1-13 Romanesque church, a cathedral

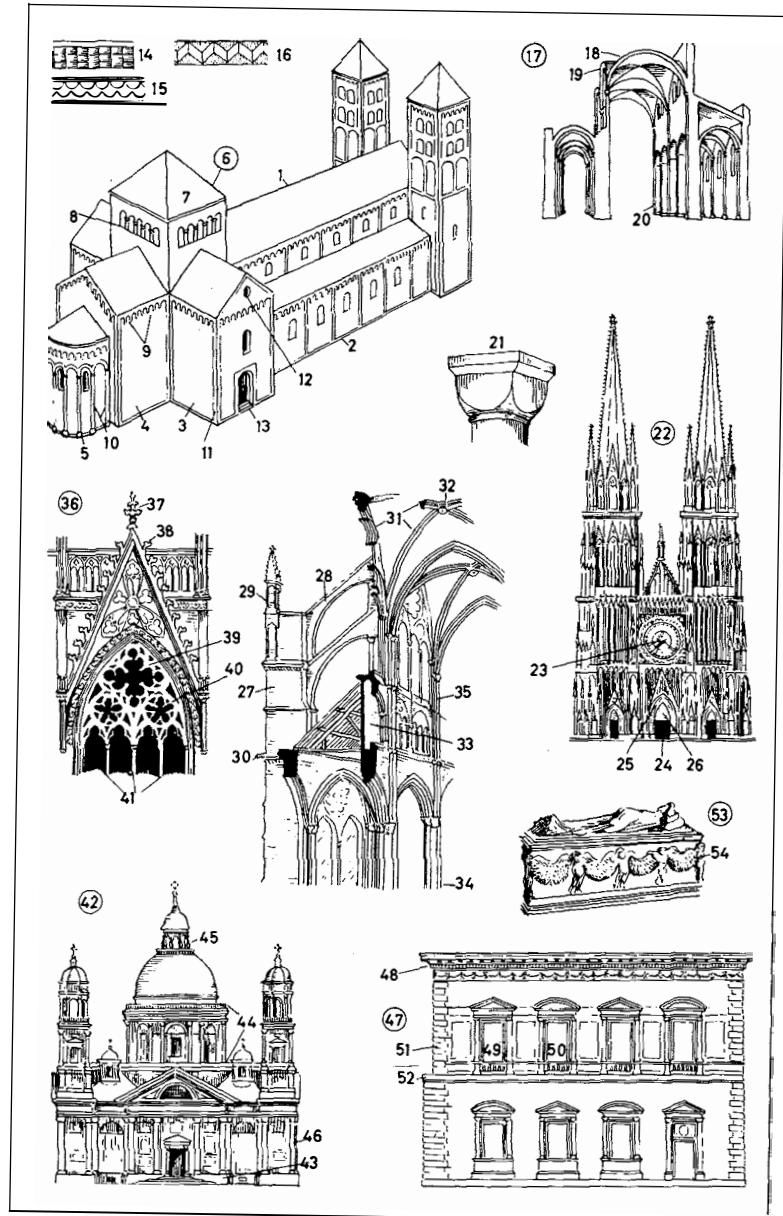
- 1 nave
- 2 aisle
- 3 transept
- 4 choir (chancel)
- 5 apse
- 6 central tower (*Am.* center tower)
- 7 pyramidal tower roof
- 8 arcading
- 9 frieze of round arcading
- 10 blind arcade (blind arcading)
- 11 lesene, a pilaster strip
- 12 circular window
- 13 side entrance
- 14-16 Romanesque ornamentation  
(Romanesque decoration,  
Romanesque decorative designs)
- 14 chequered (*Am.* checkered) pat-  
tern (chequered design)
- 15 imbrication (imbricated design)
- 16 chevron design
- 17 Romanesque system of vaulting
- 18 transverse arch
- 19 barrel vault (tunnel vault)
- 20 pillar
- 21 cushion capital

22-41 Gothic art

- 22 Gothic church [westwork, west  
end, west façade], a cathedral
- 23 rose window
- 24 church door (main door, portal), a  
recessed portal
- 25 archivolt
- 26 tympanum
- 27-35 Gothic structural system
- 27, 28 buttresses
- 27 buttress
- 28 flying buttress
- 29 pinnacle
- 30 gargoyle
- 31, 32 cross vault (groin vault)
- 31 ribs (cross ribs)
- 32 boss (pendant)
- 33 triforium
- 34 clustered pier (compound pier)

35 respond (engaged pillar)

- 36 pediment
- 37 finial
- 38 crocket
- 39-41 tracery window, a lancet window
- 39 quatrefoil
- 40 cinquefoil
- 41 mullions
- 42-54 Renaissance art
- 42 Renaissance church
- 43 projection, a projecting part of the  
building
- 44 drum
- 45 lantern
- 46 pilaster (engaged pillar)
- 47 Renaissance palace
- 48 cornice
- 49 pedimental window
- 50 pedimental window with round  
gable
- 51 rustication (rustic work)
- 52 string course
- 53 sarcophagus
- 54 festoon (garland)





1-8 Baroque art

- 1 Baroque church
- 2 bull's eye
- 3 bulbous cupola
- 4 dormer window (dormer)
- 5 curved gable
- 6 twin columns
- 7 cartouche
- 8 scrollwork
- 9-13 Rococo art
- 9 Rococo wall
- 10 coving, a hollow moulding (*Am.* moulding)
- 11 framing
- 12 ornamental moulding (*Am.* moulding)
- 13 rocaille, a Rococo ornament
- 14 table in Louis Seize style (Louis Seize table)
- 15 neoclassical building (building in neoclassical style), a gateway
- 16 Empire table (table in the Empire style)
- 17 Biedermeier sofa (sofa in the Biedermeier style)
- 18 Art Nouveau easy chair (easy chair in the Art Nouveau style)

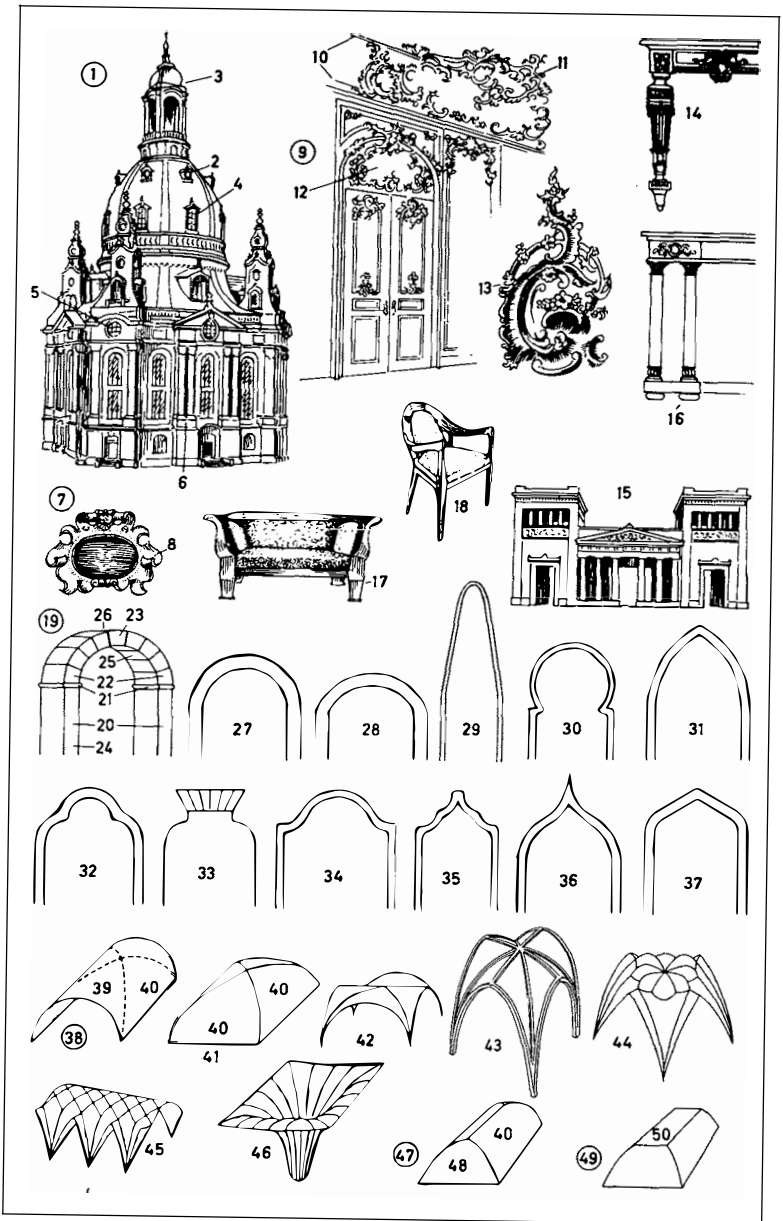
19-37 types of arch

- 19 arch
- 20 abutment
- 21 impost
- 22 springer, a voussoir (wedge stone)
- 23 keystone
- 24 face
- 25 intrados
- 26 extrados
- 27 round arch
- 28 segmental arch (basket handle)
- 29 parabolic arch
- 30 horseshoe arch
- 31 lancet arch
- 32 trefoil arch
- 33 shouldered arch
- 34 convex arch
- 35 tented arch
- 36 ogee arch (keel arch)

37 Tudor arch

38-50 types of vault

- 38 barrel vault (tunnel vault)
- 39 crown
- 40 side
- 41 cloister vault (cloistered vault)
- 42 groin vault (groined vault)
- 43 rib vault (ribbed vault)
- 44 stellar vault
- 45 net vault
- 46 fan vault
- 47 trough vault
- 48 trough
- 49 cavetto vault
- 50 cavetto



**1-6 Chinese art**

- 1 pagoda (multi-storey, multistory, pagoda), a temple tower
- 2 storey (story) roof (roof of storey)
- 3 pailou (pailoo), a memorial archway
- 4 archway
- 5 porcelain vase
- 6 incised lacquered work

**7-11 Japanese art**

- 7 temple
- 8 bell tower
- 9 supporting structure
- 10 bodhisattva (boddhisattva), a Buddhist saint
- 11 torii, a gateway

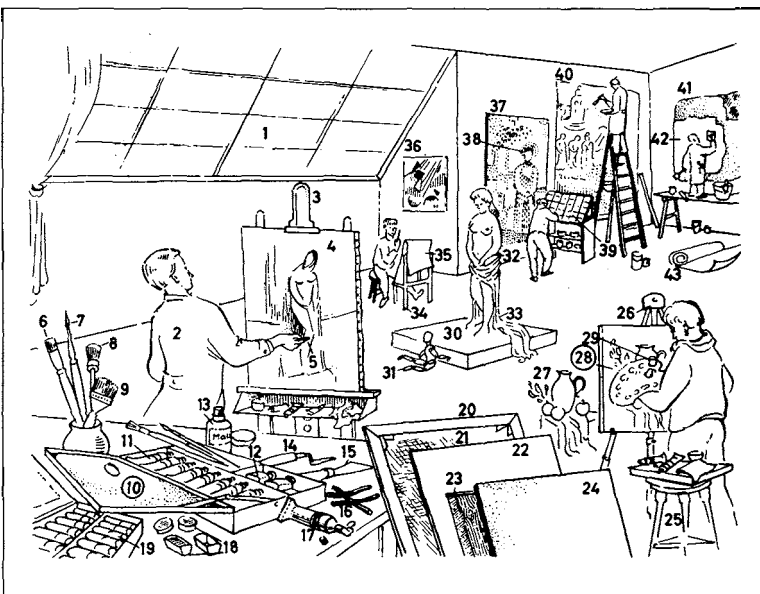
**12-18 Islamic art**

- 12 mosque
- 13 minaret, a prayer tower
- 14 mihrab
- 15 minbar (mimbar, pulpit)
- 16 mausoleum, a tomb
- 17 stalactite vault (stalactitic vault)
- 18 Arabian capital

**19-28 Indian art**

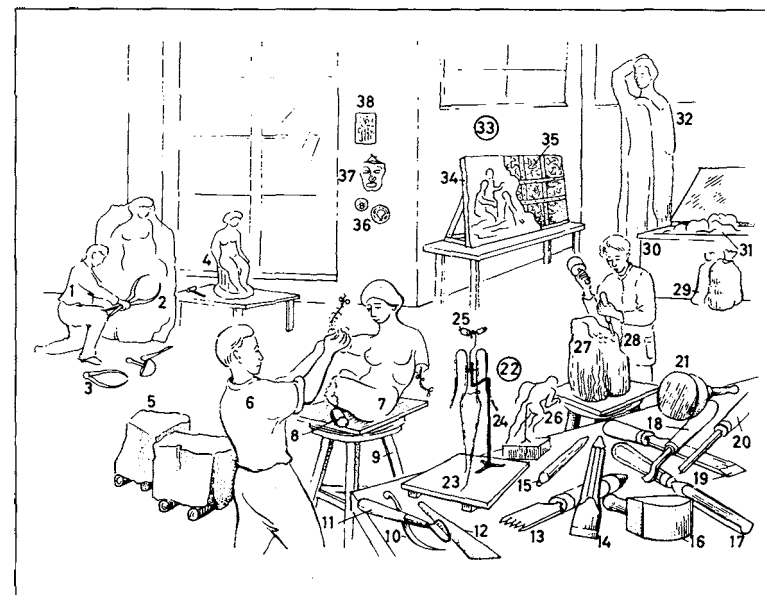
- 19 dancing Siva (Shiva), an Indian god
- 20 statue of Buddha
- 21 stupa (Indian pagoda), a mound (dome), a Buddhist shrine
- 22 umbrella
- 23 stone wall (*Am.* stone fence)
- 24 gate
- 25 temple buildings
- 26 shikara (sika, sikhara, temple tower)
- 27 chaitya hall
- 28 chaitya, a small stupa



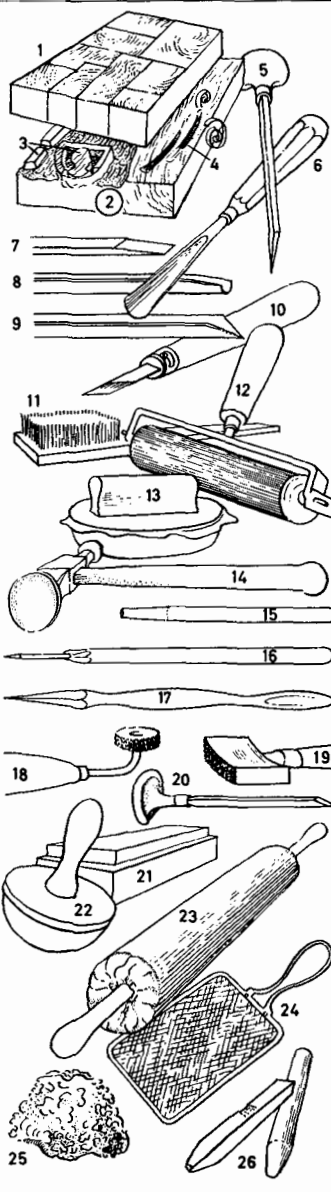


## 1-43 studio

- |  |  |
|--|--|
| 1 studio skylight                                | 22 piece of hardboard, with painting surface |
| 2 painter, an artist                             | 23 wooden board                              |
| 3 studio easel                                   | 24 fibreboard ( <i>Am.</i> fiberboard)       |
| 4 chalk sketch, a rough draft                    | 25 painting table                            |
| 5 crayon (piece of chalk)                        | 26 folding easel                             |
| 6-19 painting materials                          | 27 still life group, a motif                 |
| 6 flat brush                                     | 28 palette                                   |
| 7 camel hair brush                               | 29 palette dipper                            |
| 8 round brush                                    | 30 platform                                  |
| 9 priming brush                                  | 31 lay figure (mannequin, manikin)           |
| 10 box of paints (paintbox)                      | 32 nude model (model, nude)                  |
| 11 tube of oil paint                             | 33 drapery                                   |
| 12 varnish                                       | 34 drawing easel                             |
| 13 thinner                                       | 35 sketch pad                                |
| 14 palette knife                                 | 36 study in oils                             |
| 15 spatula                                       | 37 mosaic (tessellation)                     |
| 16 charcoal pencil (charcoal, piece of charcoal) | 38 mosaic figure                             |
| 17 tempera (gouache)                             | 39 tesserae                                  |
| 18 watercolour ( <i>Am.</i> watercolor)          | 40 fresco (mural)                            |
| 19 pastel crayon                                 | 41 sgraffito                                 |
| 20 wedged stretcher (canvas stretcher)           | 42 plaster                                   |
| 21 canvas  | 43 cartoon                                   |



- |  |   |
|--|---|
| 1 sculptor   | 20 V-shaped gouge                         |
| 2 proportional dividers                                      | 21 mallet                                 |
| 3 calliper (caliper)   | 22 framework                              |
| 4 plaster model, a plaster cast                              | 23 baseboard                              |
| 5 block of stone (stone block)                               | 24 armature support (metal rod)           |
| 6 modeller ( <i>Am.</i> modeler)                             | 25 armature                               |
| 7 clay figure, a torso                                       | 26 wax model                              |
| 8 roll of clay, a modelling ( <i>Am.</i> modeling) substance | 27 block of wood                          |
| 9 modelling ( <i>Am.</i> modeling) stand                     | 28 wood carver (wood sculptor)            |
| 10 wooden modelling ( <i>Am.</i> modeling) tool              | 29 sack of gypsum powder (gypsum)         |
| 11 wire modelling ( <i>Am.</i> modeling) tool                | 30 clay box                               |
| 12 beating wood  | 31 modelling ( <i>Am.</i> modeling) clay  |
| 13 claw chisel (toothed chisel, tooth chisel)                | 32 statue, a sculpture                    |
| 14 flat chisel   | 33 low relief (bas-relief)                |
| 15 point (punch)   | 34 modelling ( <i>Am.</i> modeling) board |
| 16 iron-headed hammer  | 35 wire frame, wire netting               |
| 17 gouge (hollow chisel)                                     | 36 circular medallion (tondo)             |
| 18 spoon chisel  | 37 mask                                   |
| 19 wood chisel, a bevelled-edge chisel                       | 38 plaque                                 |



**1-13 wood engraving** (xylography), a relief printing method (a letterpress printing method)

**1** end-grain block for wood engravings, a wooden block

**2** wooden plank for woodcutting, a relief image carrier

**3** positive cut

**4** plank cut

**5** burin (graver)

**6** U-shaped gouge

**7** scorper (scauper, scalper)

**8** scoop

**9** V-shaped gouge

**10** contour knife

**11** brush

**12** roller (brayer)

**13** pad (wiper)

**14-24 copperplate engraving** (chalcography), an intaglio process; *kinds*: etching, mezzotint, aquatint, crayon engraving

**14** hammer

**15** burin

**16** etching needle (engraver)

**17** scraper and burnisher

**18** roulette

**19** rocking tool (rocker)

**20** round-headed graver, a graver (burin)

**21** oilstone

**22** dabber (inking ball, ink ball)

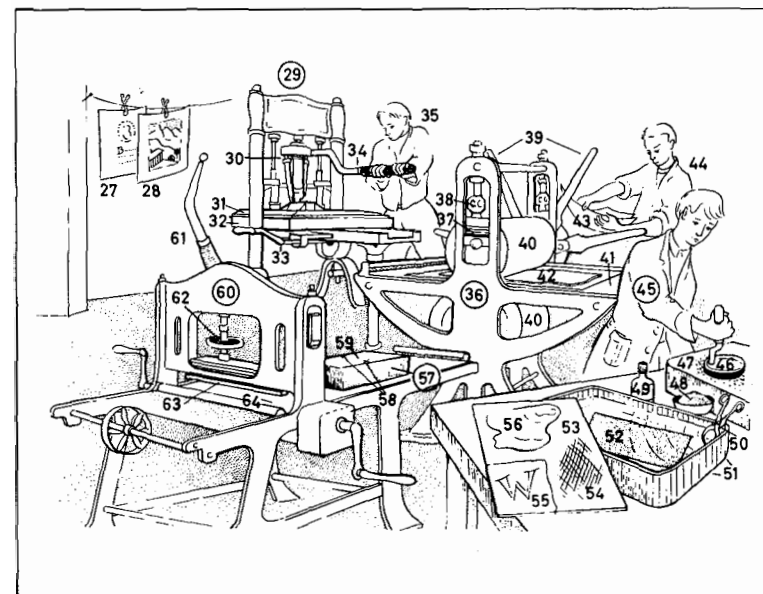
**23** leather roller

**24** sieve

**25, 26 lithography** (stone lithography), a planographic printing method

**25** sponge for moistening the lithographic stone

**26** lithographic crayons (greasy chalk)



**27-64 graphic art studio**, a printing office (*Am.* printery)

**27** broadside (broadsheet, single sheet)

**28** full-colour (*Am.* full-color) print (colour print, chromolithograph)

**29** platen press, a hand press

**30** toggle

**31** platen

**32** type forme (*Am.* form)

**33** feed mechanism

**34** bar (devil's tail)

**35** pressman

**36** copperplate press

**37** tympan

**38** pressure regulator

**39** star wheel

**40** cylinder

**41** bed

**42** felt cloth

**43** proof (pull)

**44** copperplate engraver

**45** lithographer (litho artist), grinding the stone

**46** grinding disc (disk)

**47** grain (granular texture)

**48** pulverized glass

**49** rubber solution

**50** tongs

**51** etching bath for etching

**52** zinc plate

**53** polished copperplate

**54** cross hatch

**55** etching ground

**56** non-printing area

**57** lithographic stone

**58** register marks

**59** printing surface (printing image carrier)

**60** lithographic press

**61** lever

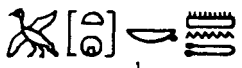
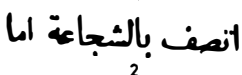
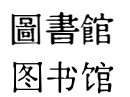
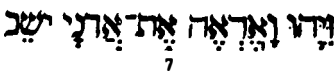
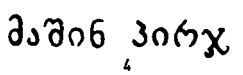
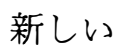
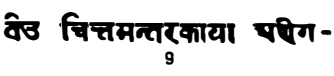
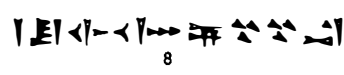



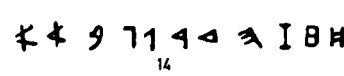

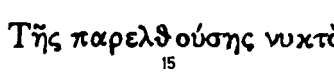

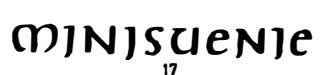
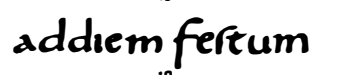
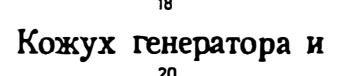

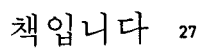
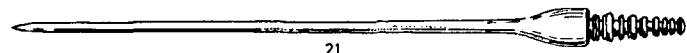
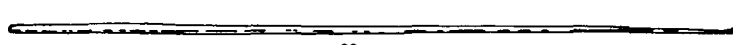


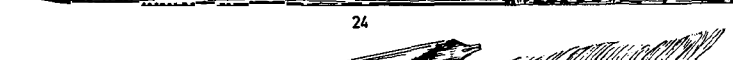


**62** scraper adjustment

**63** scraper

**64** bed

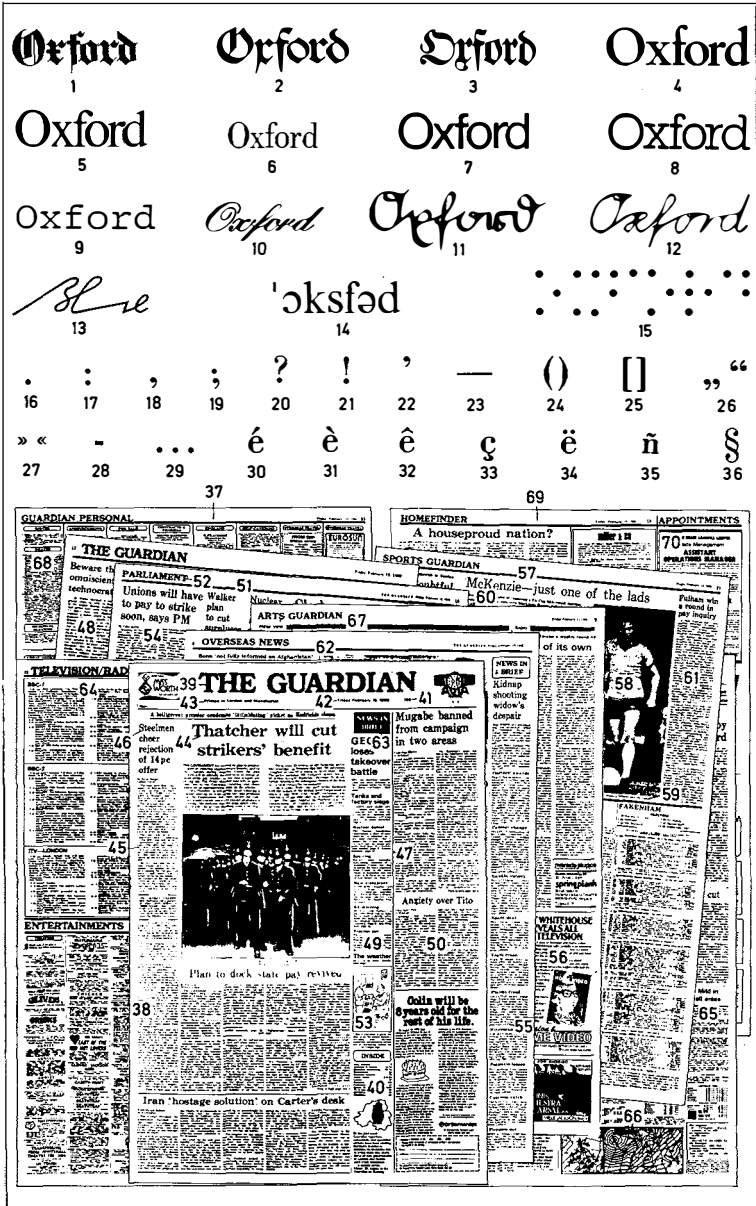
1-20 scripts of various peoples

- 1 ancient Egyptian hieroglyphics, a pictorial system of writing
- 2 Arabic
- 3 Armenian
- 4 Georgian
- 5 Chinese
- 6 Japanese
- 7 Hebrew (Hebraic)
- 8 cuneiform script
- 9 Devanagari, script employed in Sanskrit
- 10 Siamese
- 11 Tamil
- 12 Tibetan
- 13 Sinaitic script
- 14 Phoenician
- 15 Greek
- 16 Roman capitals
- 17 uncial (uncials, uncial script)
- 18 Carolingian (Carlovingian, Caroline) minuscule
- 19 runes
- 20 Cyrillic
- 21-26 ancient writing implements
- 21 Indian steel stylus for writing on palm leaves
- 22 ancient Egyptian reed pen
- 23 writing cane
- 24 brush
- 25 Roman metal pen (stylus)
- 26 quill (quill pen)
- 27 Korean

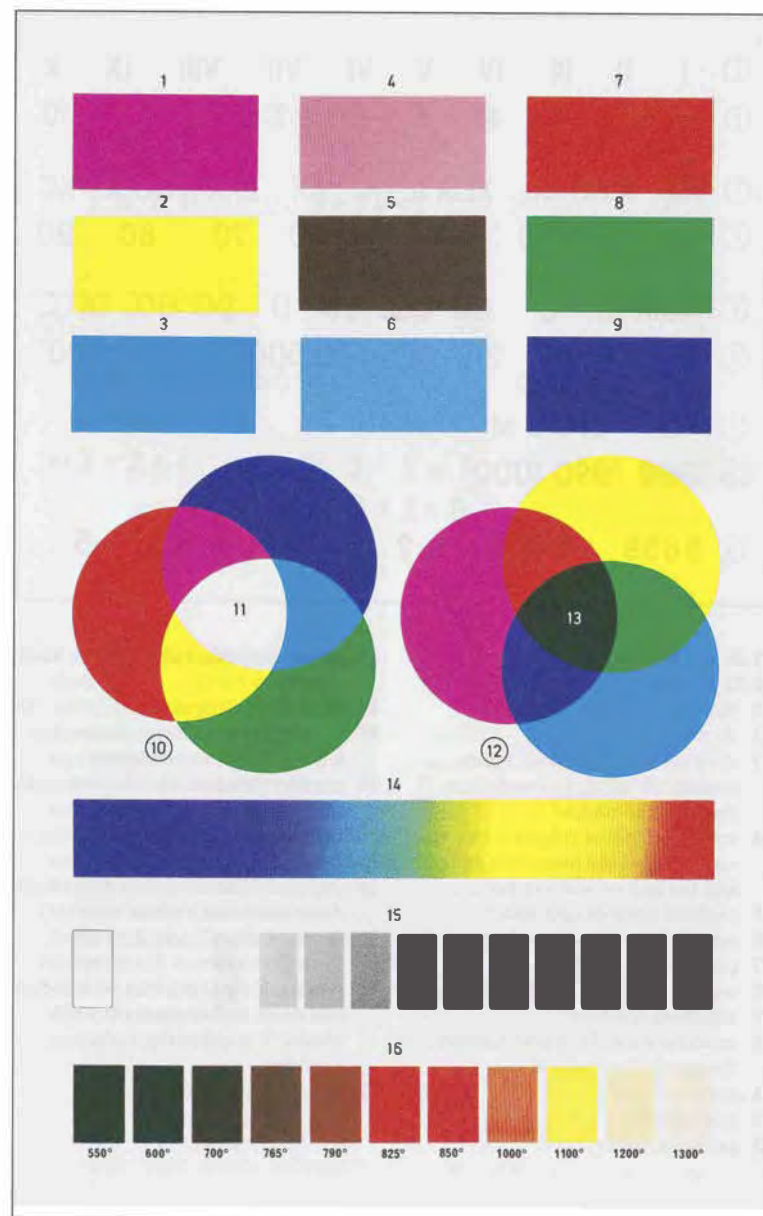
|   |   |   |
|---|---|---|
|    |    |    |
| 1   | 2   | 5   |
|    |    |    |
| 7   | 4   | 6   |
|    |    |    |
| 9   | 8   | 10  |
|    |    |    |
| 11  | 12  | 14  |
|    |    |    |
| 13  | 15  | 16  |
|    |    |    |
| 17  | 18  | 20  |
|    |    |    |
| 19  | 27  | 21  |
|   |  |  |
| 22  | 23  | 24  |
|  |  |  |
| 25  | 26  | 27  |

- 1-15 types** (type faces)  
1 Gothic type (German black-letter type)  
2 Schwabacher type (German black-letter type)  
3 Fraktur (German black-letter type)  
4 Humanist (Mediaeval)  
5 Transitional  
6 Didone  
7 Sanserif (Sanserif type, Grotesque)  
8 Egyptian  
9 typescript (typewriting)  
10 English hand (English handwriting, English writing)  
11 German hand (German handwriting, German writing)  
12 Latin script  
13 shorthand (shorthand writing, stenography)  
14 phonetics (phonetic transcription)  
15 Braille  
**16-29 punctuation marks** (stops)  
16 full stop (period, full point)  
17 colon  
18 comma  
19 semicolon  
20 question mark (interrogation point, interrogation mark) ·  
21 exclamation mark (*Am.* exclamation point)  
22 apostrophe  
23 dash (em rule)  
24 parentheses (round brackets)  
25 square brackets  
26 quotation mark (double quotation marks, paired quotation marks, inverted commas)  
27 guillemet (French quotation mark)  
28 hyphen  
29 marks of omission (ellipsis)  
**30-35 accents and diacritical marks** (diacritics)  
30 acute accent (acute)  
31 grave accent (grave)  
32 circumflex accent (circumflex)  
33 cedilla [under c]

- 34 diaeresis (*Am.* dieresis) [over e]  
35 tilde [over n]  
36 section mark  
**37-70 newspaper**, a national daily newspaper  
37 newspaper page  
38 front page  
39 newspaper heading  
40 contents  
41 price  
42 date of publication  
43 place of publication  
44 headline  
45 column  
46 column heading  
47 column rule  
48 leading article (leader, editorial)  
49 reference to related article  
50 brief news item  
51 political section  
52 page heading  
53 cartoon  
54 report by newspaper's own correspondent  
55 news agency's sign  
56 advertisement (*coll.* ad)  
57 sports section  
58 press photo  
59 caption  
60 sports report  
61 sports news item  
62 home and overseas news section  
63 news in brief (miscellaneous news)  
64 television programmes (*Am.* programs)  
65 weather report  
66 weather chart (weather map)  
67 arts section (feuilleton)  
68 death notice  
69 advertisements (classified advertising)  
70 job advertisement, a vacancy (a situation offered)



- 1 red
- 2 yellow
- 3 blue
- 4 pink
- 5 brown
- 6 azure (sky blue)
- 7 orange
- 8 green
- 9 violet
- 10 additive mixture of colours (*Am. colors*)
- 11 white
- 12 subtractive mixture of colours (*Am. colors*)
- 13 black
- 14 solar spectrum (colours, *Am. colors*, of the rainbow)
- 15 grey (*Am. gray*) scale
- 16 heat colours (*Am. colors*)



- ① I II III IV V VI VII VIII IX X  
 ② 1 2 3 4 5 6 7 8 9 10
- ① XX XXX XL XLIX IL L LX LXX LXXX XC  
 ② 20 30 40 49 50 60 70 80 90
- ① XCIX IC C CC CCC CD D DC DCC DCCC  
 ② 99 100 200 300 400 500 600 700 800
- ① CM CMXC M  
 ② 900 990 1000
- ③ 9658 ④ 5 kg. ⑤ 2 ⑥ 2<sup>nd</sup> ⑦ +5 ⑧ -5

- ⑨ a,b,c... ⑩  $3\frac{1}{3}$  ⑪ 2,4,6,8 ⑫ 1,3,5,7
- ⑬ 3,5,7,11 ⑭  $3+2\sqrt{-1}$  ⑮  $\frac{2}{3}$  ⑯  $\frac{3}{2}$
- ⑰  $\frac{\frac{5}{6}}{\frac{3}{4}}$  ⑱  $\frac{12}{4}$  ⑲  $\frac{4}{5} + \frac{2}{7} = \frac{38}{35}$  ⑳ 0.357
- ㉑  $0.6666\dots = 0.\overline{6}$  ㉒  $3+2=5$
- ㉓  $3-2=1$  ㉔  $3 \cdot 2 = 6$   
 $3 \times 2 = 6$  ㉕  $6 \div 2 = 3$

**1-26 arithmetic****1-22 numbers**

- 1 Roman numerals  
 2 Arabic numerals  
 3 abstract number, a four-figure number [8: units; 5: tens; 6: hundreds; 9: thousands]  
 4 concrete number (physical quantity consisting of the numerical value and the unit or unit symbol)  
 5 cardinal number (cardinal)  
 6 ordinal number (ordinal)  
 7 positive number [with plus sign]  
 8 negative number [with minus sign]  
 9 algebraic symbols  
 10 mixed number [3: whole number (integer);  $\frac{1}{3}$ : fraction]  
 11 even numbers  
 12 odd numbers  
 13 prime numbers

- 14 complex number [3: real part;  $2\sqrt{-1}$ : imaginary part]  
 15, 16 vulgar fractions

- 15 proper fraction [2: numerator, horizontal line; 3: denominator]  
 16 improper fraction, also the reciprocal of item 15  
 17 compound fraction (complex fraction)  
 18 improper fraction [when cancelled down produces a whole number]  
 19 fractions of different denominations [35: common denominator]  
 20 proper decimal fraction with decimal point and decimal places [3: tenths; 5: hundredths; 7: thousandths]  
 21, 22 recurring decimal

**23-26 fundamental arithmetical operations**

- 23 addition (adding) [3 and 2: the terms of the sum; + : plus sign; = : equals sign; 5: the sum]  
 24 subtraction (subtracting); [3: the minuend; - : minus sign; 2: the subtrahend; 1: the remainder (difference)]  
 25 multiplication (multiplying); [3: the multiplicand;  $\times$ : multiplication sign; 2: the multiplier; 2 and 3: factors; 6: the product]  
 26 division (dividing); [6: the dividend;  $\div$ : division sign; 2: the divisor; 3: the quotient]



$$\begin{array}{lll} \textcircled{1} 3^2 = 9 & \textcircled{2} \sqrt[3]{8} = 2 & \textcircled{3} \sqrt{4} = 2 \\ & \textcircled{4} 3x + 2 = 12 & \\ & & \textcircled{6} \\ \textcircled{5} 4a + 6ab - 2ac = 2a(2 + 3b - c) & \log_{10} 3 = 0.4771 & \\ \textcircled{7} \frac{P[\pounds 1000] \times R[5\%] \times T[2 \text{ years}]}{100} = I[\pounds 100] & & \end{array}$$

**1-24 arithmetic****1-10 advanced arithmetical operations**

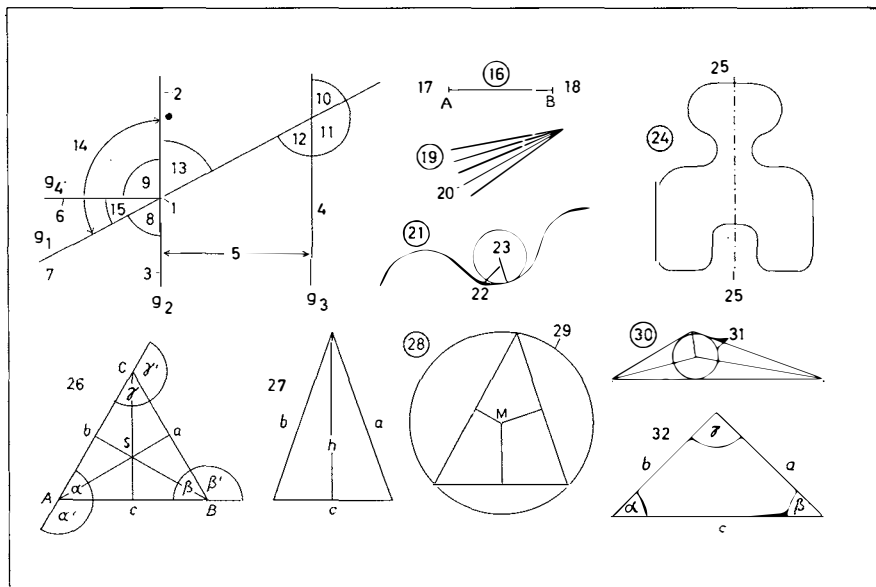
- 1** raising to a power [three squared ( $3^2$ ): the power; 3: the base; 2: the exponent (index); 9: value of the power]  
**2** evolution (extracting a root); [cube root of 8: cube root; 8: the radical; 3: the index (degree) of the root;  $\sqrt{\phantom{x}}$ : radical sign; 2: value of the root]  
**3** square root  
**4, 5** algebra  
**4** simple equation [3, 2: the coefficients;  $x$ : the unknown quantity]  
**5** identical equation; [a, b, c: algebraic symbols]  
**6** logarithmic calculation (taking the logarithm, log); [log: logarithm sign; 3: number whose logarithm is required; 10: the base; 0: the characteristic; 4771: the mantissa; 0.4771: the logarithm]

- 7** simple interest formula [P: the principal; R: rate of interest; T: time; I: interest (profit); %: percentage sign]  
**8-10** rule of three (rule-of-three sum, simple proportion)  
**8** statement with the unknown quantity  $\times$   
**9** equation (conditional equation)  
**10** solution  
**11-14 higher mathematics**  
**11** arithmetical series with the elements 2, 4, 6, 8  
**12** geometrical series  
**13, 14 infinitesimal calculus**  
**13** derivative [dx, dy: the differentials; d: differential sign]  
**14** integral (integration) [x: the variable; C: constant of integration;  $\int$ : the integral sign; dx: the differential]

$$\begin{array}{lll} \textcircled{8} \begin{array}{l} 2 \text{ years @ } \pounds 50 \\ 4 \text{ years @ } \pounds x \end{array} & \textcircled{11} 2 + 4 + 6 + 8 \dots & \textcircled{13} \frac{dy}{dx} \\ \hline \textcircled{9} 2 : 50 = 4 : x & \textcircled{12} 2 + 4 + 8 + 16 + 32 \dots & \int ax dx = a \int x dx = \frac{ax^2}{2} + C \\ \textcircled{10} x = \pounds 100 & \textcircled{14} & \textcircled{15} \infty \quad \textcircled{16} \equiv \quad \textcircled{17} \approx \quad \textcircled{18} \neq \quad \textcircled{19} > \\ & & \textcircled{20} < \quad \textcircled{21} \parallel \quad \textcircled{22} \sim \quad \textcircled{23} \triangleleft \quad \textcircled{24} \triangle \end{array}$$

**15-24 mathematical symbols**

- 15** infinity  
**16** identically equal to (the sign of identity)  
**17** approximately equal to  
**18** unequal to  
**19** greater than  
**20** less than  
**21-24 geometrical symbols**  
**21** parallel (sign of parallelism)  
**22** similar to (sign of similarity)  
**23** angle symbol  
**24** triangle symbol



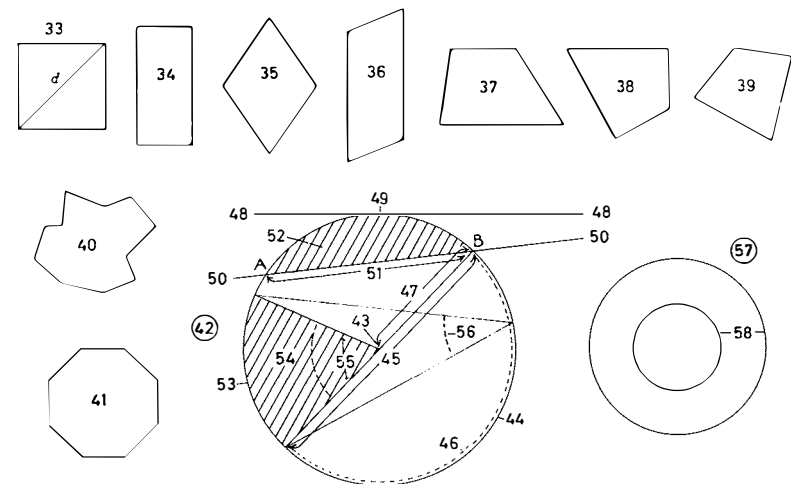
**1-58 plane geometry** (elementary geometry, Euclidian geometry)

**1-23 point, line, angle**

- 1 point [point of intersection of  $g_1$  and  $g_2$ ], the angular point of 8
- 2, 3 straight line  $g_2$
- 4 the parallel to  $g_2$
- 5 distance between the straight lines  $g_2$  and  $g_3$
- 6 perpendicular ( $g_4$ ) on  $g_2$
- 7, 3 the arms of 8
- 8, 13 vertically opposite angles
- 8 angle
- 9 right angle  $[90^\circ]$
- 10, 11, 12 reflex angle
- 10 acute angle, also the alternate angle to 8
- 11 obtuse angle
- 12 corresponding angle to 10
- 13, 9, 15 straight angle  $[180^\circ]$
- 14 adjacent angle; *here*: supplementary angle to 13
- 15 complementary angle to 8

**16 straight line AB**

- 17 end A
- 18 end B
- 19 pencil of rays
- 20 ray
- 21 curved line
- 22 radius of curvature
- 23 centre (Am. center) of curvature
- 24-28 plane surfaces
- 24 symmetrical figure
- 25 axis of symmetry
- 26-32 plane triangles
- 26 equilateral triangle [A, B, C: the vertices; a, b, c: the sides;  $\alpha$  (alpha),  $\beta$  (beta),  $\gamma$  (gamma): the interior angles;  $\alpha'$ ,  $\beta'$ ,  $\gamma'$ : the exterior angles; S: the centre (Am. center)]
- 27 isosceles triangle [a, b: the sides (legs); c: the base; h: the perpendicular, an altitude]
- 28 acute-angled triangle with perpendicular bisectors of the sides
- 29 circumcircle (circumscribed circle)



- 30 obtuse-angled triangle with bisectors of the angles
- 31 inscribed circle
- 32 right-angled triangle and the trigonometrical functions of angles [a, b: the catheti; c: the hypotenuse;  $\gamma$ : the right angle;  $a/c = \sin \alpha$  (sine);  $b/c = \cos \alpha$  (cosine);  $a/b = \tan \alpha$  (tangent);  $b/a = \cot \alpha$  (cotangent)]

**33-39 quadrilaterals**

**33-36 parallelograms**

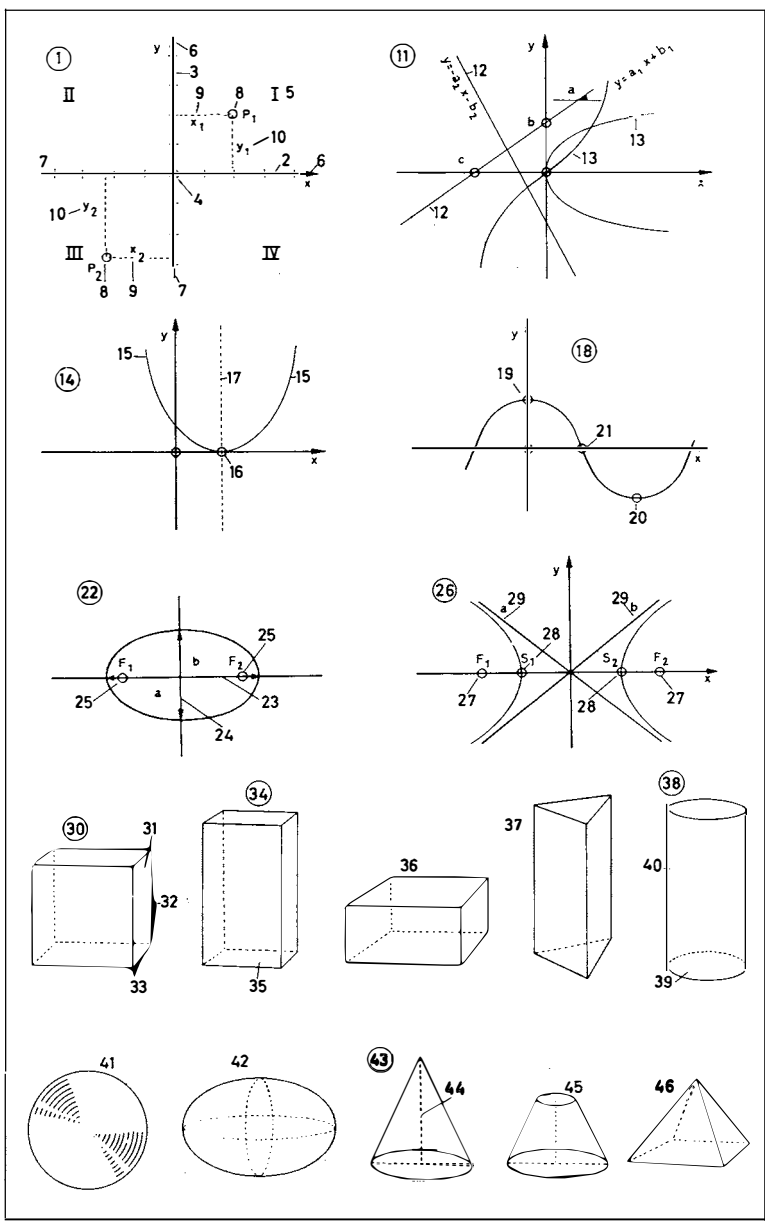
- 33 square [d: a diagonal]
- 34 rectangle
- 35 rhombus (rhomb, lozenge)
- 36 rhomboid
- 37 trapezium
- 38 deltoid (kite)
- 39 irregular quadrilateral
- 40 polygon
- 41 regular polygon
- 42 circle
- 43 centre (Am. center)

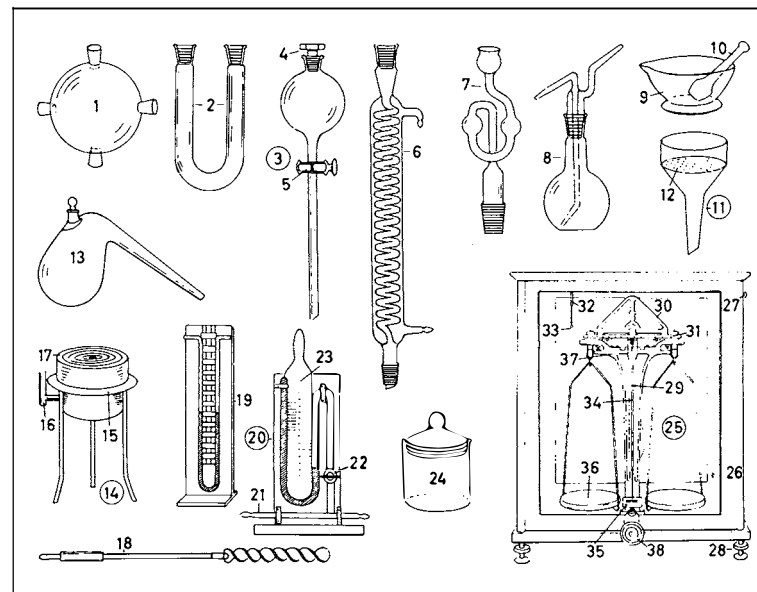
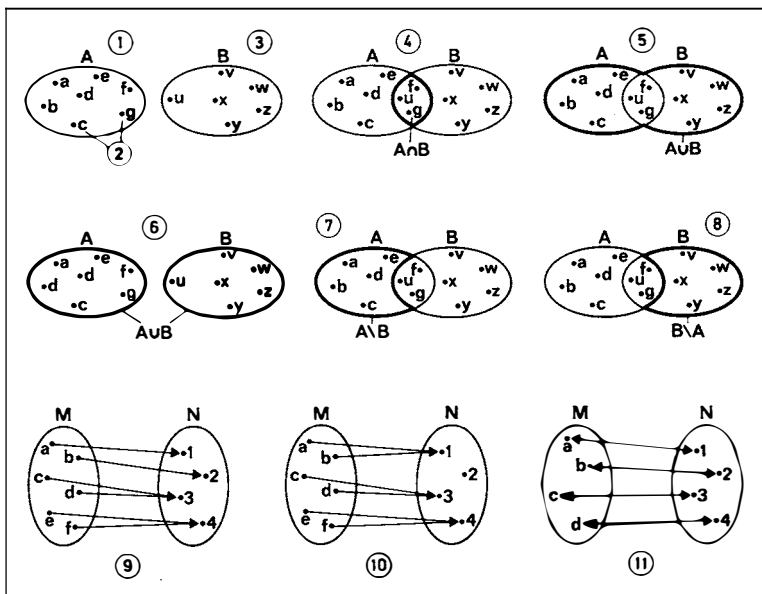
**44 circumference (periphery)**

- 45 diameter
- 46 semicircle
- 47 radius (r)
- 48 tangent
- 49 point of contact (P)
- 50 secant
- 51 the chord AB
- 52 segment
- 53 arc
- 54 sector
- 55 angle subtended by the arc at the centre (Am. center) (centre, Am. center, angle)
- 56 circumferential angle
- 57 ring (annulus)
- 58 concentric circles

- 1 system of right-angled coordinates
- 2, 3 axes of coordinates (coordinate axes)
- 2 axis of abscissae (x-axis)
- 3 axis of ordinates (y-axis)
- 4 origin of ordinates
- 5 quadrant [I-IV: 1st to 4th quadrant]
- 6 positive direction
- 7 negative direction
- 8 points  $[P_1 \text{ and } P_2]$  in the system of coordinates;  $x_1$  and  $y_1$  [and  $x_2$  and  $y_2$  respectively] their coordinates
- 9 values of the abscissae  $[x_1 \text{ and } x_2]$  (the abscissae)
- 10 values of the ordinates  $[y_1 \text{ and } y_2]$  (the ordinates)
- 11-29 conic sections
- 11 curves in the system of coordinates
- 12 plane curves [a: the gradient (slope) of the curve; b: the ordinates' intersection of the curve; c: the root of the curve]
- 13 inflected curves
- 14 parabola, a curve of the second degree
- 15 branches of the parabola
- 16 vertex of the parabola
- 17 axis of the parabola
- 18 a curve of the third degree
- 19 maximum of the curve
- 20 minimum of the curve
- 21 point of inflexion (of inflection)
- 22 ellipse
- 23 transverse axis (major axis)
- 24 conjugate axis (minor axis)
- 25 foci of the ellipse  $[F_1 \text{ and } F_2]$
- 26 hyperbola
- 27 foci  $[F_1 \text{ and } F_2]$
- 28 vertices  $[S_1 \text{ and } S_2]$
- 29 asymptotes [a and b]
- 30-46 solids
- 30 cube
- 31 square, a plane (plane surface)
- 32 edge

- 33 corner
- 34 quadratic prism
- 35 base
- 36 parallelepiped
- 37 triangular prism
- 38 cylinder, a right cylinder
- 39 base, a circular plane
- 40 curved surface
- 41 sphere
- 42 ellipsoid of revolution
- 43 cone
- 44 height of the cone (cone height)
- 45 truncated cone (frustum of a cone)
- 46 quadrilateral pyramid



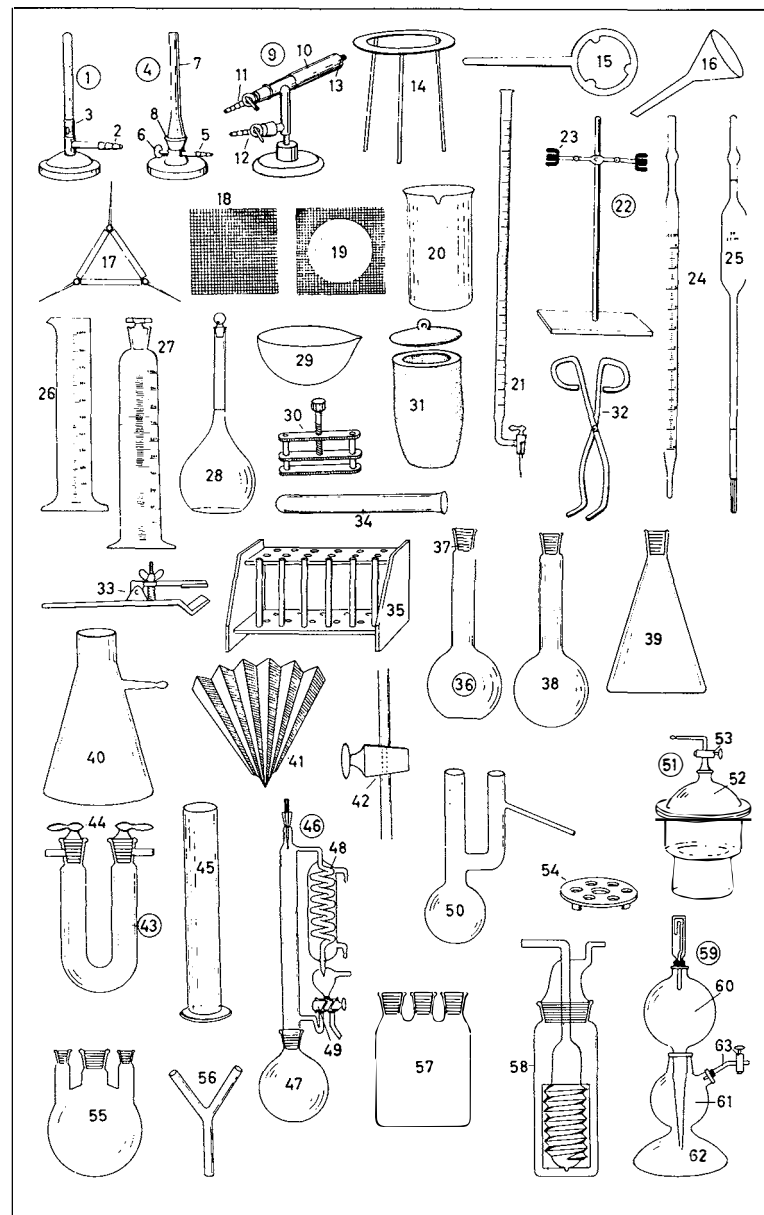


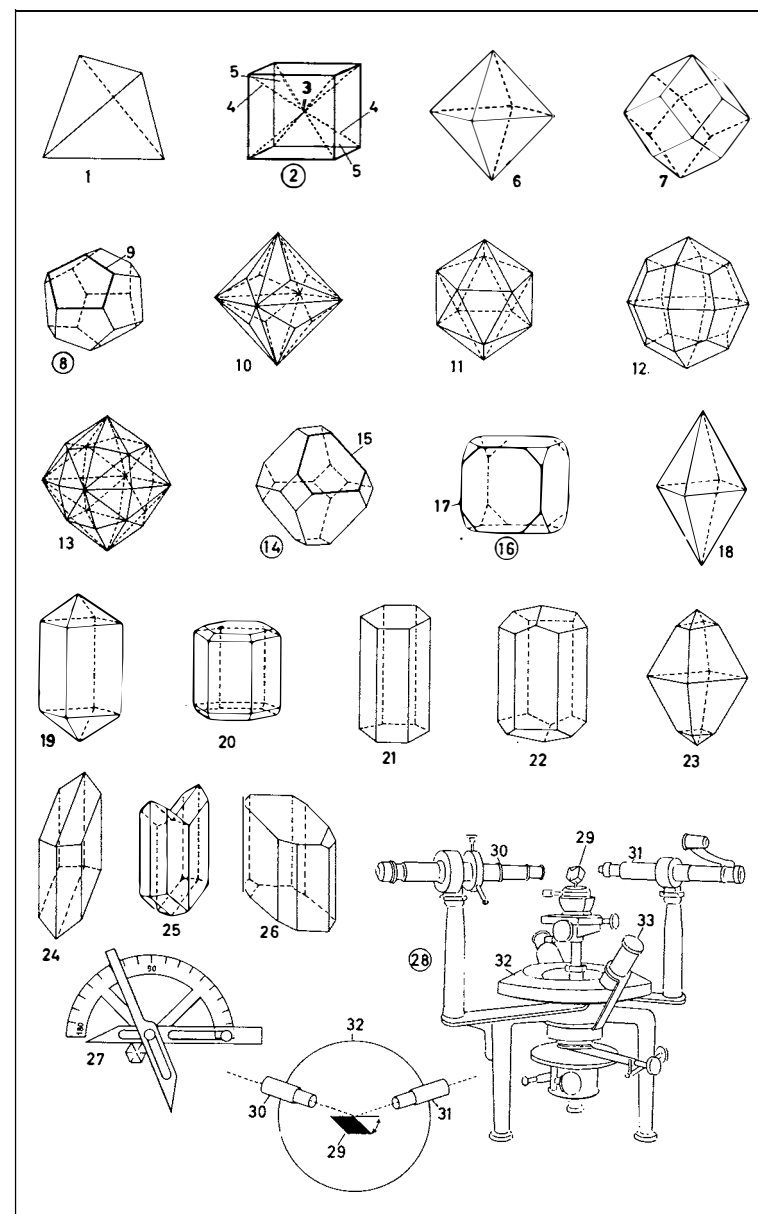
### 1-38 laboratory apparatus (laboratory equipment)

- |  |   |
|--|---|
| 1 Scheidt globe  | 20 mirror manometer for measuring small pressures |
| 2 U-tube   | 21 inlet  |
| 3 separating funnel  | 22 tap ( <i>Am. faucet</i> )                      |
| 4 octagonal ground-glass stopper                           | 23 sliding scale                                  |
| 5 tap ( <i>Am. faucet</i> )                                | 24 weighing bottle                                |
| 6 coiled condenser   | 25 analytical balance                             |
| 7 air lock   | 26 case   |
| 8 wash-bottle  | 27 sliding front panel                            |
| 9 mortar   | 28 three-point support                            |
| 10 pestle  | 29 column (balance column)                        |
| 11 filter funnel (Büchner funnel)                          | 30 balance beam (beam)                            |
| 12 filter (filter plate)                                   | 31 rider bar                                      |
| 13 retort  | 32 rider holder                                   |
| 14 water bath  | 33 rider  |
| 15 tripod  | 34 pointer  |
| 16 water gauge ( <i>Am. gage</i> )                         | 35 scale  |
| 17 insertion rings   | 36 scale pan                                      |
| 18 stirrer   | 37 stop   |
| 19 manometer for measuring positive and negative pressures | 38 stop knob                                      |

- 1-63 laboratory apparatus** (laboratory equipment)
- 1 Bunsen burner
  - 2 gas inlet (gas inlet pipe)
  - 3 air regulator
  - 4 Teclu burner
  - 5 pipe union
  - 6 gas regulator
  - 7 stem
  - 8 air regulator
  - 9 bench torch
  - 10 casing
  - 11 oxygen inlet
  - 12 hydrogen inlet
  - 13 oxygen jet
  - 14 tripod
  - 15 ring (retort ring)
  - 16 funnel
  - 17 pipe clay triangle
  - 18 wire gauze
  - 19 wire gauze with asbestos centre (*Am. center*)
  - 20 beaker
  - 21 burette (for measuring the volume of liquids)
  - 22 burette stand
  - 23 burette clamp
  - 24 graduated pipette
  - 25 pipette
  - 26 measuring cylinder (measuring glass)
  - 27 measuring flask
  - 28 volumetric flask
  - 29 evaporating dish (evaporating basin), made of porcelain
  - 30 tube clamp (tube clip, pinchcock)
  - 31 clay crucible with lid
  - 32 crucible tongs
  - 33 clamp
  - 34 test tube
  - 35 test tube rack
  - 36 flat-bottomed flask
  - 37 ground glass neck
  - 38 long-necked round-bottomed flask
  - 39 Erlenmeyer flask (conical flask)
  - 40 filter flask

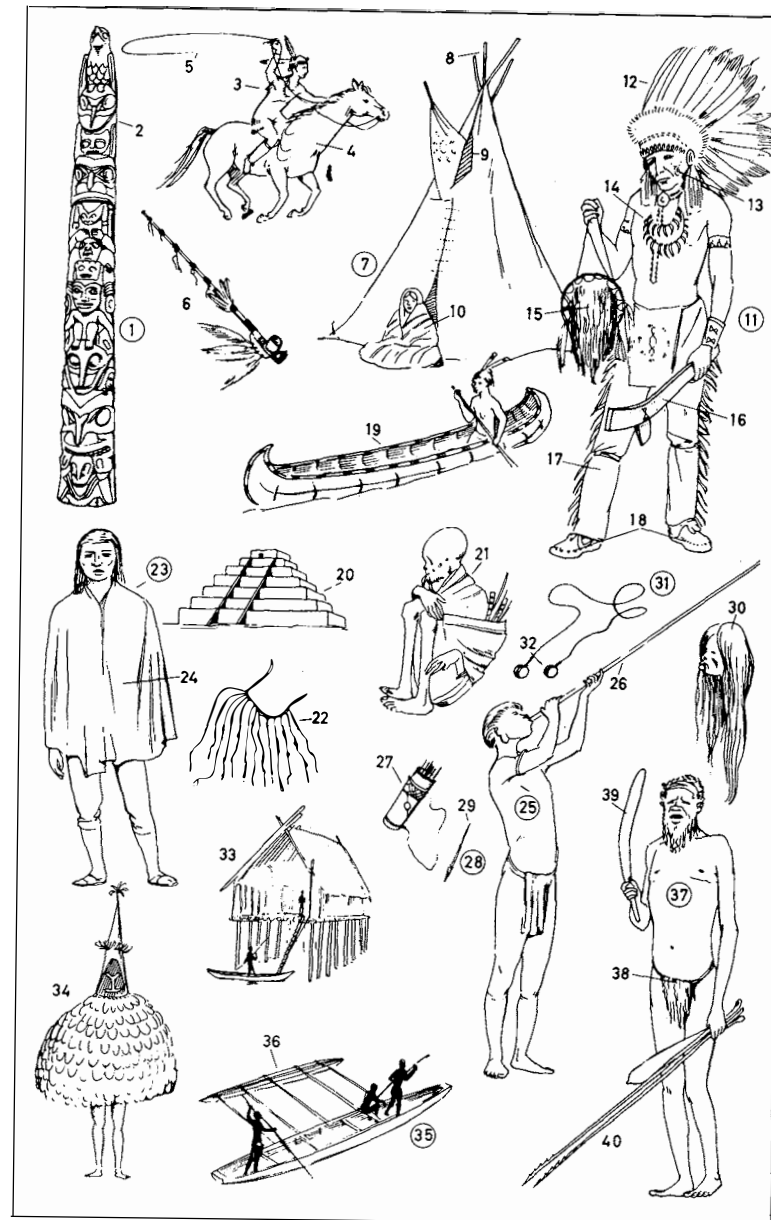
- 41 fluted filter
- 42 one-way tap
- 43 calcium chloride tube
- 44 stopper with tap
- 45 cylinder
- 46 distillation apparatus (distilling apparatus)
- 47 distillation flask (distilling flask)
- 48 condenser
- 49 return tap, a two-way tap
- 50 distillation flask (distilling flask, Claisen flask)
- 51 desiccator
- 52 lid with fitted tube
- 53 tap
- 54 desiccator insert made of porcelain
- 55 three-necked flask
- 56 connecting piece (Y-tube)
- 57 three-necked bottle
- 58 gas-washing bottle
- 59 gas generator (Kipp's apparatus, *Am. Kipp generator*)
- 60 overflow container
- 61 container for the solid
- 62 acid container
- 63 gas outlet



**1-26 basic crystal forms and crystal combinations** [structure of crystals]**1-17 regular** (cubic, tesseral, isometric) **crystal system****1** tetrahedron (four-faced polyhedron) [tetrahedrite, fahlerz, fahl ore]**2** hexahedron (cube, six-faced polyhedron), a holohedron [rock salt]**3** centre (*Am.* center) of symmetry (crystal centre)**4** axis of symmetry (rotation axis)**5** plane of symmetry**6** octahedron (eight-faced polyhedron) [gold]**7** rhombic dodecahedron [garnet]**8** pentagonal dodecahedron [pyrite, iron pyrites]**9** pentagon (five-sided polygon)**10** triakis-octahedron [diamond]**11** icosahedron (twenty-faced polyhedron), a regular polyhedron**12** icositetrahedron (twenty-four-faced polyhedron) [leucite]**13** hexakis-octahedron (hexoctahedron, forty-eight-faced polyhedron) [diamond]**14** octahedron with cube [galena]**15** hexagon (six-sided polygon)**16** cube with octahedron [fluorite, fluorspar]**17** octagon (eight-sided polygon)**18, 19 tetragonal crystal system****18** tetragonal dipyramid (tetragonal bipyramid)**19** protoprism with protopyramid [zircon]**20-22 hexagonal crystal system****20** protoprism with protopyramid, deutero-pyramid and basal pinacoid [apatite]**21** hexagonal prism**22** hexagonal (ditrigonal) biprism with rhombohedron [calcite]**23** orthorhombic pyramid (rhombohedral crystal system) [sulphur, *Am.* sulfur]**24, 25 monoclinic crystal system****24** monoclinic prism with clinopyrhamid and hemipyramid (hemi-hedron) [gypsum]**25** orthopinacoid (swallowtail twin crystal) [gypsum]**26** triclinic pinacoids (triclinic crystal system) [copper sulphate, *Am.* copper sulfate]**27-33 apparatus for measuring crystals** (for crystallography)**27** contact goniometer**28** reflecting goniometer**29** crystal**30** collimator**31** observation telescope**32** divided circle (graduated circle)**33** lens for reading the angle of rotation

- 1 totem pole
- 2 totem, a carved and painted pictorial or symbolic representation
- 3 plains Indian
- 4 mustang, a prairie horse
- 5 lasso, a long throwing-rope with running noose
- 6 pipe of peace
- 7 wigwam (tepee, teepee)
- 8 tent pole
- 9 smoke flap
- 10 squaw, an Indian woman
- 11 Indian chief
- 12 headdress, an ornamental feather headdress
- 13 war paint
- 14 necklace of bear claws
- 15 scalp (cut from enemy's head), a trophy
- 16 tomahawk, a battle axe (*Am. ax*)
- 17 leggings
- 18 moccasin, a shoe of leather and bast
- 19 canoe of the forest Indians
- 20 Maya temple, a stepped pyramid
- 21 mummy
- 22 quipa (knotted threads, knotted code of the Incas)
- 23 Indio (Indian of Central and South America); *here*: highland Indian
- 24 poncho, a blanket with a head opening used as an armless cloak-like wrap
- 25 Indian of the tropical forest
- 26 blowpipe
- 27 quiver
- 28 dart
- 29 dart point
- 30 shrunken head, a trophy
- 31 bola (bolas), a throwing and entangling device
- 32 leather-covered stone or metal ball
- 33 pile dwelling
- 34 duk-duk dancer, a member of a duk-duk (men's secret society)

- 35 outrigger canoe (canoe with outrigger)
- 36 outrigger
- 37 Australian aborigine
- 38 loincloth of human hair
- 39 boomerang, a wooden missile
- 40 throwing stick (spear thrower) with spears



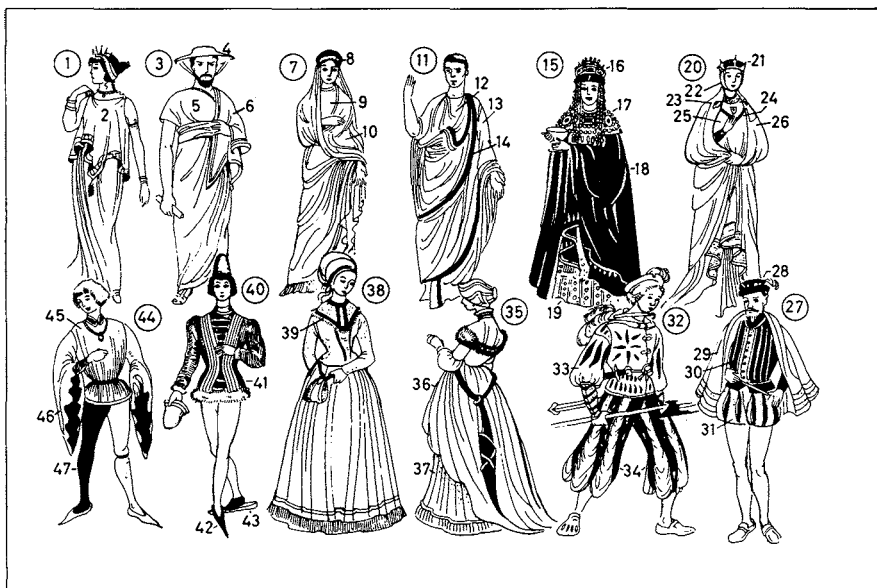
- 1 Eskimo
- 2 sledge dog (sled dog), a husky
- 3 dog sledge (dog sled)
- 4 igloo, a dome-shaped snow hut
- 5 block of snow
- 6 entrance tunnel
- 7 blubber-oil lamp
- 8 wooden missile
- 9 lance
- 10 harpoon
- 11 skin float
- 12 kayak, a light one-man canoe
- 13 skin-covered wooden or bone frame
- 14 paddle
- 15 reindeer harness
- 16 reindeer
- 17 Ostyak (Ostiak)
- 18 passenger sledge
- 19 yurt (yurta), a dwelling tent of the western and central Asiatic nomads
- 20 felt covering
- 21 smoke outlet
- 22 Kirghiz
- 23 sheepskin cap
- 24 shaman
- 25 decorative fringe
- 26 frame drum
- 27 Tibetan
- 28 flintlock with bayonets
- 29 prayer wheel
- 30 felt boot
- 31 houseboat (sampan)
- 32 junk
- 33 mat sail
- 34 rickshaw (ricksha)
- 35 rickshaw coolie (cooly)
- 36 Chinese lantern
- 37 samurai
- 38 padded armour (*Am.* armor)
- 39 geisha
- 40 kimono
- 41 obi
- 42 fan
- 43 coolie (cooly)
- 44 kris (creese, crease), a Malayan dagger
- 45 snake charmer
- 46 turban
- 47 flute
- 48 dancing snake





- 1 camel caravan
- 2 riding animal
- 3 pack animal
- 4 oasis
- 5 grove of palm trees
- 6 bedouin (beduin)
- 7 burnous
- 8 Masai warrior
- 9 headdress (hairdress)
- 10 shield
- 11 painted ox hide
- 12 long-bladed spear
- 13 negro
- 14 dance drum
- 15 throwing knife
- 16 wooden mask
- 17 figure of an ancestor
- 18 slit gong
- 19 drumstick
- 20 dugout, a boat hollowed out of a tree trunk
- 21 negro hut
- 22 negress
- 23 lip plug (labret)
- 24 grinding stone
- 25 Herero woman
- 26 leather cap
- 27 calabash (gourd)
- 28 beehive-shaped hut
- 29 bushman
- 30 earplug
- 31 loincloth
- 32 bow
- 33 knoberry (knobkerrie), a club with round, knobbed end
- 34 bushman woman making a fire by twirling a stick
- 35 windbreak
- 36 Zulu in dance costume
- 37 dancing stick
- 38 bangle
- 39 ivory war horn
- 40 string of amulets and bones
- 41 pigmy
- 42 magic pipe for exorcising evil spirits
- 43 fetish

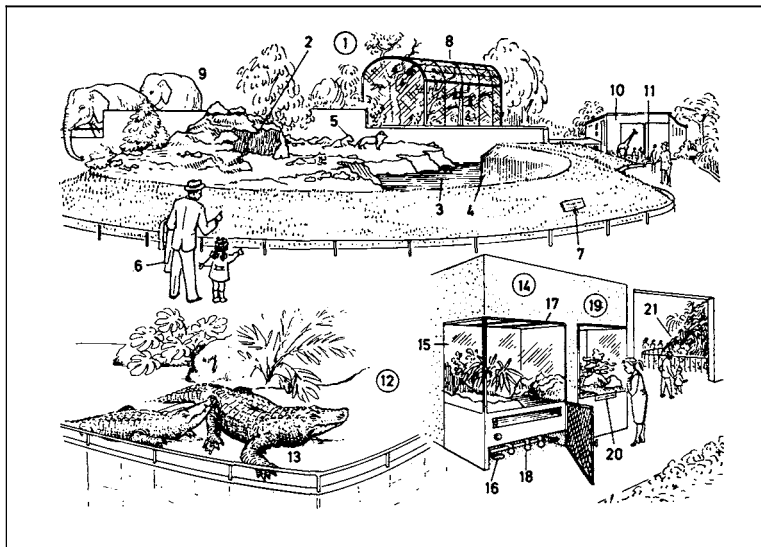




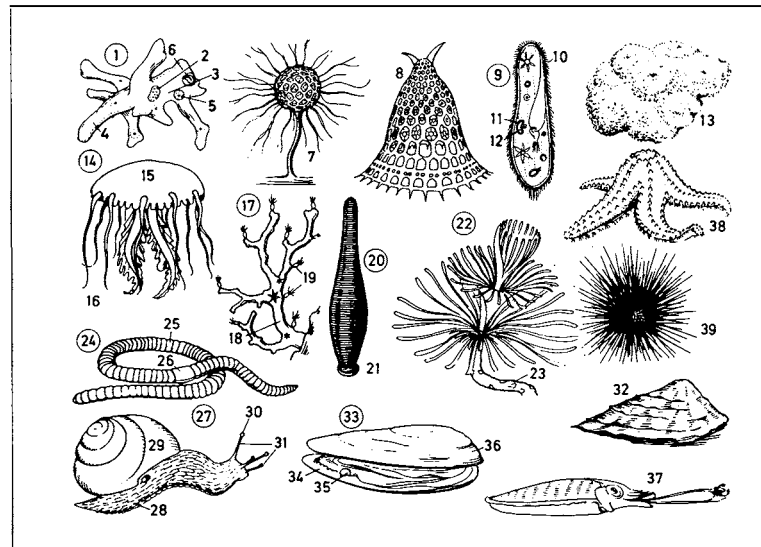
- 1 Greek woman
- 2 peplos
- 3 Greek
- 4 petasus (Thessalonian hat)
- 5 chiton, a linen gown worn as a basic garment
- 6 himation, woollen (*Am.* woollen) cloak
- 7 Roman woman
- 8 toupee wig (partial wig)
- 9 stola
- 10 palla, a coloured (*Am.* colored) wrap
- 11 Roman
- 12 tunica (tunic)
- 13 toga
- 14 purple border (purple band)
- 15 Byzantine empress
- 16 pearl diadem
- 17 jewels
- 18 purple cloak
- 19 long tunic
- 20 German princess [13th cent.]
- 21 crown (diadem)
- 22 chinband
- 23 tassel
- 24 cloak cord
- 25 girt-up gown (girt-up surcoat, girt-up tunic)
- 26 cloak
- 27 German dressed in the Spanish style [ca. 1575]
- 28 wide-brimmed cap
- 29 short cloak (Spanish cloak, short cape)
- 30 padded doublet (stuffed doublet, peasecod)
- 31 stuffed trunk-hose
- 32 lansquenet (German mercenary soldier) [ca. 1530]
- 33 slashed doublet (paned doublet)
- 34 Pluderhose (loose breeches, paned trunk-hose, slops)
- 35 woman of Basle [ca. 1525]
- 36 overgown (gown)
- 37 undergown (petticoat)
- 38 woman of Nuremberg [ca. 1500]
- 39 shoulder cape
- 40 Burgundian [15th cent.]
- 41 short doublet



- 42 piked shoes (peaked shoes, copped shoes, crackowes, poulaines)
- 43 pattens (clogs)
- 44 young nobleman [ca. 1400]
- 45 short, padded doublet (short, quilted doublet, jerkin)
- 46 dagged sleeves (petal-scalloped sleeves)
- 47 hose
- 48 Augsburg patrician lady [ca. 1575]
- 49 puffed sleeve
- 50 overgown (gown, open gown, sleeveless gown)
- 51 French lady [ca. 1600]
- 52 millstone ruff (cartwheel ruff, ruff)
- 53 corseted waist (wasp waist)
- 54 gentleman [ca. 1650]
- 55 wide-brimmed felt hat (cavalier hat)
- 56 falling collar (wide-falling collar) of linen
- 57 white lining
- 58 jack boots (bucket-top boots)
- 59 lady [ca. 1650]
- 60 full puffed sleeves (puffed sleeves)
- 61 gentleman [ca. 1700]
- 62 three-cornered hat
- 63 dress sword
- 64 lady [ca. 1700]
- 65 lace fontange (high headdress of lace)
- 66 lace-trimmed loose-hanging gown (loose-fitting housecoat, robe de chambre, negligée, contouche)
- 67 band of embroidery
- 68 lady [ca. 1880]
- 69 bustle
- 70 lady [ca. 1858]
- 71 poke bonnet
- 72 crinoline
- 73 gentleman of the Biedermeier period
- 74 high collar (choker collar)
- 75 embroidered waistcoat (vest)
- 76 frock coat
- 77 pigtail wig
- 78 ribbon (bow)
- 79 ladies in court dress [ca. 1780]
- 80 train
- 81 upswept Rococo coiffure
- 82 hair decoration
- 83 panniered overskirt

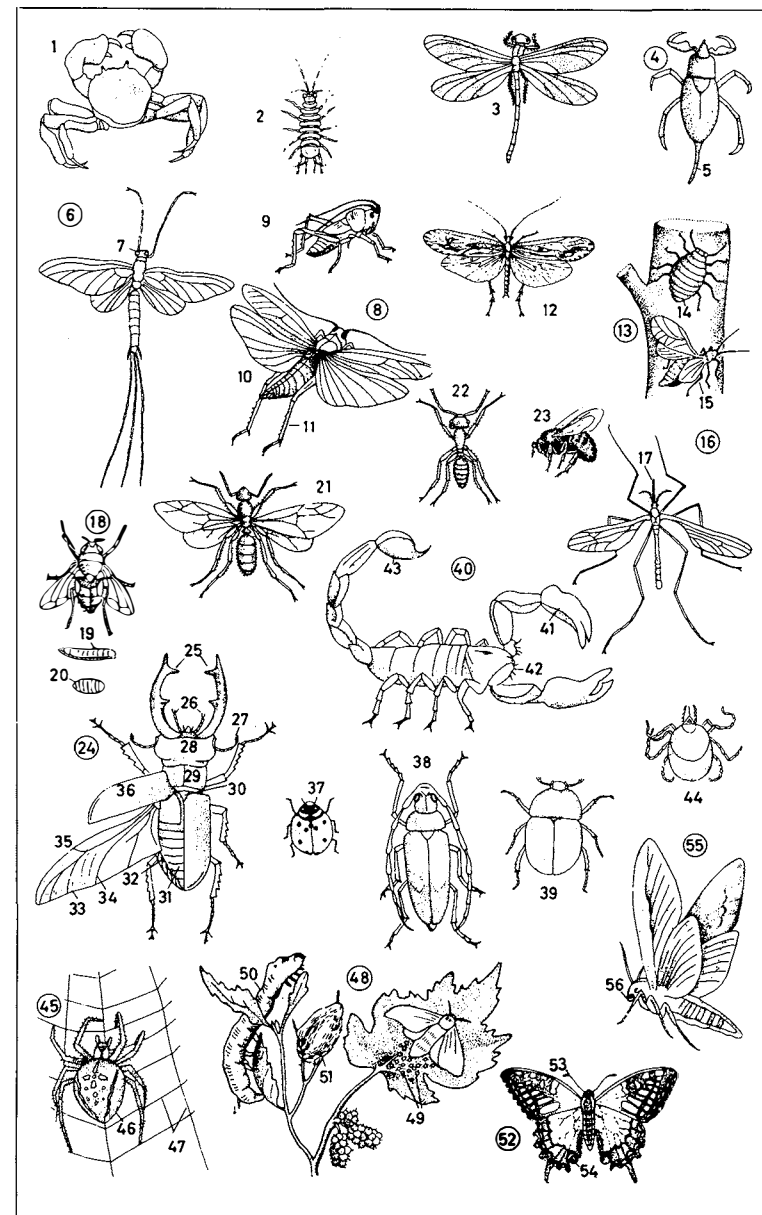


- 1 outdoor enclosure
- 2 rocks
- 3 moat
- 4 enclosing wall
- 5 animals on show; *here*: a pride of lions
- 6 visitor to the zoo
- 7 notice
- 8 aviary
- 9 elephant enclosure
- 10 animal house (e.g. carnivore house, giraffe house, elephant house, monkey house)
- 11 outside cage (summer quarters)
- 12 reptile enclosure
- 13 Nile crocodile
- 14 terrarium and aquarium
- 15 glass case
- 16 fresh-air inlet
- 17 ventilator
- 18 underfloor heating
- 19 aquarium
- 20 information plate
- 21 flora in artificially maintained climate



- 1-12 unicellular** (one-celled, single-celled) **animals** (protozoans)
- 1 amoeba, a rhizopod
- 2 cell nucleus
- 3 protoplasm
- 4 pseudopod
- 5 excretory vacuole (contractile vacuule, an organelle)
- 6 food vacuole
- 7 Actinophrys, a heliozoan
- 8 radiolarian; *here*: siliceous skeleton
- 9 slipper animalcule, a Paramecium (ciliate infusorian)
- 10 cilium
- 11 macronucleus (meganucleus)
- 12 micronucleus
- 13-39 multicellular animals** (metazoans)
- 13 bath sponge, a porifer (sponge)
- 14 medusa, a discomedusa, a coelenterate
- 15 umbrella
- 16 tentacle
- 17 red coral (precious coral), a coral animal (anthozoan, reef-building animal)
- 18 coral colony
- 19 coral polyp
- 20-26 worms** (Vermes)
- 20 leech, an annelid
- 21 sucker
- 22 Spirographis, a bristle worm
- 23 tube
- 24 earthworm
- 25 segment
- 26 clitellum [accessory reproductive organ]
- 27-36 molluscs** (*Am.* mollusks)
- 27 edible snail, a snail
- 28 creeping foot
- 29 shell (snail shell)
- 30 stalked eye
- 31 tentacles (feelers)
- 32 oyster
- 33 freshwater pearl mussel
- 34 mother-of-pearl (nacre)
- 35 pearl
- 36 mussel shell
- 37 cuttlefish, a cephalopod
- 38, 39 echinoderms
- 38 starfish (sea star)
- 39 sea urchin (sea hedgehog)

- 1, 2 crustaceans**  
 1 mitten crab, a crab  
 2 water slater  
**3-39, 48-56 insects**  
 3 water nymph (dragonfly), a homopteran (homopterous insect)  
 4 water scorpion (water bug), a rhynchophore  
 5 raptorial leg  
 6 mayfly (dayfly, ephemerid)  
 7 compound eye  
 8 green grasshopper (green locust, meadow grasshopper), an orthopteron (orthopterous insect)  
 9 larva (grub)  
 10 adult insect, an imago  
 11 leaping hind leg  
 12 caddis fly (spring fly, water moth), a neuropteran  
 13 aphid (greenfly), a plant louse  
 14 wingless aphid  
 15 winged aphid  
**16-20 dipterous insects** (dipterans)  
 16 gnat (mosquito, midge), a culicid  
 17 proboscis (sucking organ)  
 18 bluebottle (blowfly), a fly  
 19 maggot (larva)  
 20 chrysalis (pupa)  
**21-23 Hymenoptera**  
 21, 22 ant  
 21 winged female  
 22 worker  
 23 bumblebee (humblebee)  
**24-39 beetles** (Coleoptera)  
 24 stag beetle, a lamellicorn beetle  
 25 mandibles  
 26 trophi  
 27 antenna (feeler)  
 28 head  
 29, 30 thorax  
 29 thoracic shield (prothorax)  
 30 scutellum  
 31 tergites  
 32 stigma  
 33 wing (hind wing)  
 34 nervure  
 35 point at which the wing folds  
 36 elytron (forewing)  
 37 ladybird (*Am.* ladybug), a coccinellid  
 38 Ergates faber, a longicorn beetle (longicorn)  
 39 dung beetle, a lamellicorn beetle  
**40-47 arachnids**  
 40 Euscorpis flavicandus, a scorpion  
 41 cheliped with chelicer  
 42 maxillary antenna (maxillary feeler)  
 43 tail sting  
**44-46 spiders**  
 44 wood tick (dog tick)  
 45 cross spider (garden spider), an orb spinner  
 46 spinneret  
 47 spider's web (web)  
**48-56 Lepidoptera** (butterflies and moths)  
 48 mulberry-feeding moth (silk moth), a bombycid moth  
 49 eggs  
 50 silkworm  
 51 cocoon  
 52 swallowtail, a butterfly  
 53 antenna (feeler)  
 54 eyespot  
 55 privet hawkmoth, a hawkmoth (sphinx)  
 56 proboscis



**1-3 flightless birds**

- 1 cassowary; *sim.*: emu
- 2 ostrich
- 3 clutch of ostrich eggs [12 - 14 eggs]
- 4 king penguin, a penguin, a flightless bird

**5-10 web-footed birds**

- 5 white pelican
- 6 webfoot (webbed foot)
- 7 web (palmations) of webbed foot (palmate foot)
- 8 lower mandible with gular pouch
- 9 northern gannet (gannet, solan goose), a gannet
- 10 green cormorant (shag), a cormorant displaying with spread wings

**11-14 long-winged birds (seabirds)**

- 11 common sea swallow, a sea swallow (tern), diving for food
- 12 fulmar
- 13 guillemot, an auk
- 14 black-headed gull (mire crow), a gull

**15-17 Anseres**

- 15 goosander (common merganser), a sawbill
- 16 mute swan, a swan
- 17 knob on the bill
- 18 common heron, a heron

**19-21 plovers**

- 19 stilt (stilt bird, stilt plover)
- 20 coot, a rail
- 21 lapwing (green plover, peewit, pewit)

- 22 quail, a gallinaceous bird

- 23 turtle dove, a pigeon

- 24 swift

- 25 hoopoe, a roller

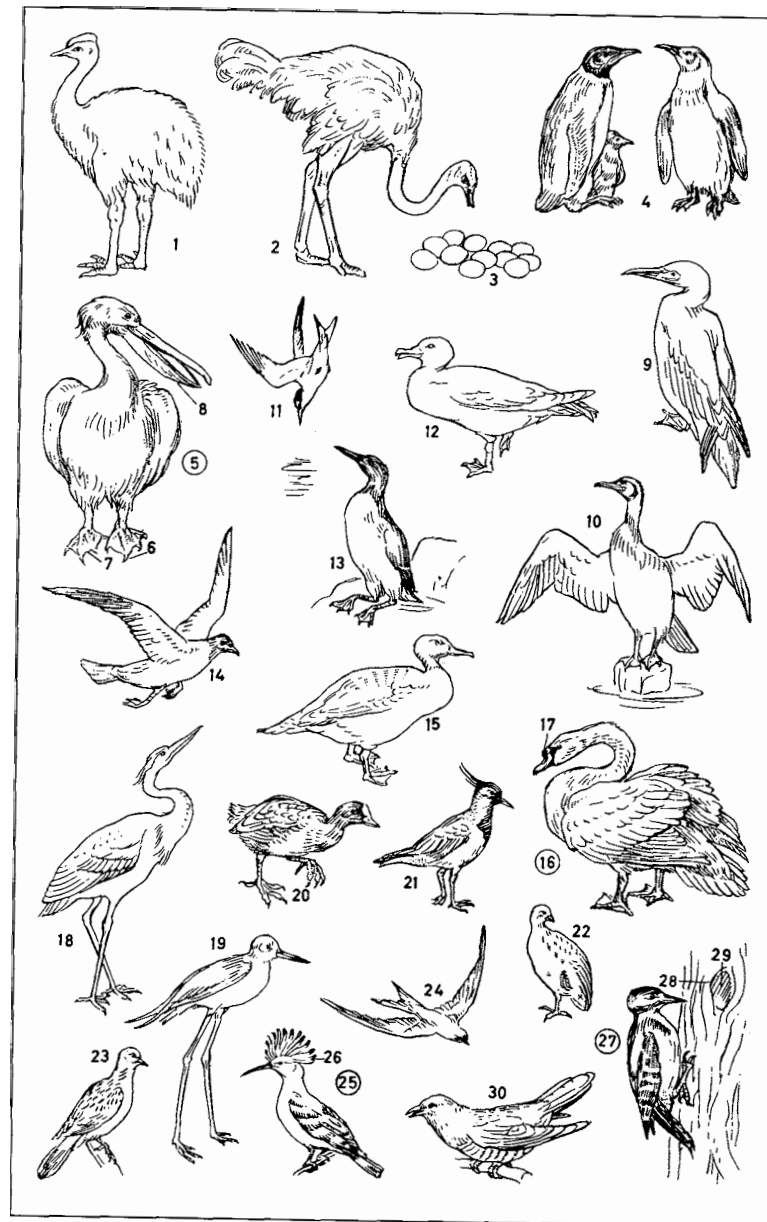
- 26 erectile crest

- 27 spotted woodpecker, a woodpecker; *related*: wryneck

- 28 entrance to the nest

- 29 nesting cavity

- 30 cuckoo



1, 3, 4, 5, 7, 9, 10 songbirds

1 goldfinch, a finch

2 bee eater

3 redstart (star finch), a thrush

4 bluetit, a tit (titmouse), a resident  
bird (non-migratory bird)

5 bullfinch

6 common roller (roller)

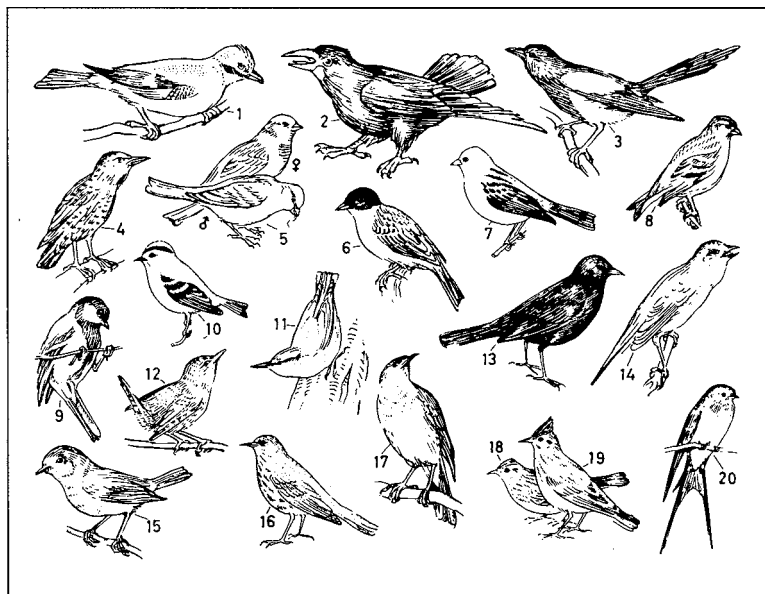
7 golden oriole, a migratory bird

8 kingfisher

9 white wagtail, a wagtail

10 chaffinch



**1-20 songbirds****1-3 Corvidae** (corvine birds, crows)

1 jay (nutcracker)

2 rook, a crow

3 magpie

4 starling (pastor, shepherd bird)

5 house sparrow

**6-8 finches**

6, 7 buntings

6 yellowhammer (yellow bunting)

7 ortolan (ortolan bunting)

8 siskin (aberdevine)

9 great titmouse (great tit, ox eye), a titmouse (tit)

10 golden-crested wren (goldcrest);  
*sim.*: firecrest, one of the  
Regulidae

11 nuthatch

12 wren

**13-17 thrushes**

13 blackbird

14 nightingale (*poet.*: philomel,  
philomela)

15 robin (redbreast, robin redbreast)

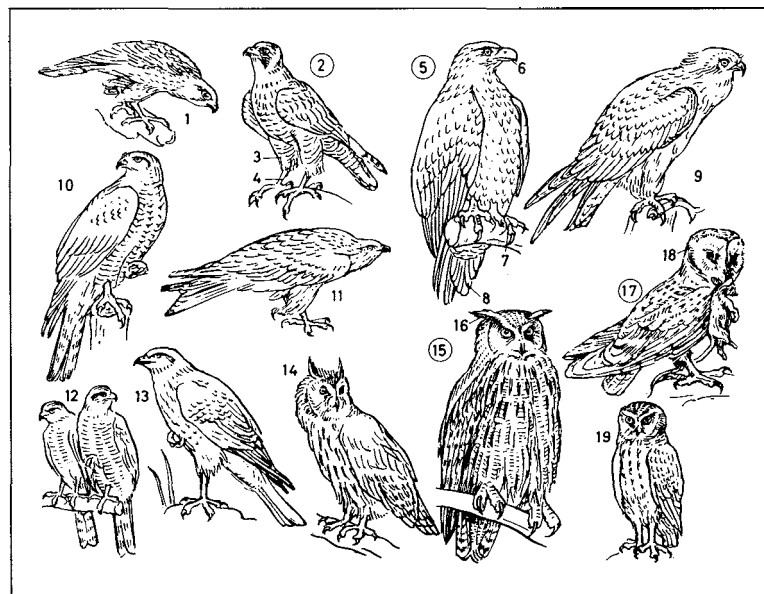
16 song thrush (throstle, mavis)

17 thrush nightingale

18, 19 larks

18 woodlark

19 crested lark (tufted lark)

20 common swallow (barn swallow,  
chimney swallow), a swallow**1-13 diurnal birds of prey****1-4 falcons**

1 merlin

2 peregrine falcon

3 leg feathers

4 tarsus

**5-9 eagles**5 white-tailed sea eagle (white-tailed  
eagle, grey sea eagle, erne)

6 hooked beak

7 claw (talon)

8 tail

9 common buzzard

**10-13 accipiters**

10 goshawk

11 common European kite (glede,  
kite)

12 sparrow hawk (spar-hawk)

13 marsh harrier (moor buzzard,  
moor harrier, moor hawk)**14-19 owls**

14 long-eared owl (horned owl)

15 eagle-owl (great horned owl)

16 plumicorn (feathered ear, ear tuft,  
ear, horn)17 barn owl (white owl, silver owl,  
yellow owl, church owl, screech  
owl)

18 facial disc (disk)

19 little owl (sparrow owl)



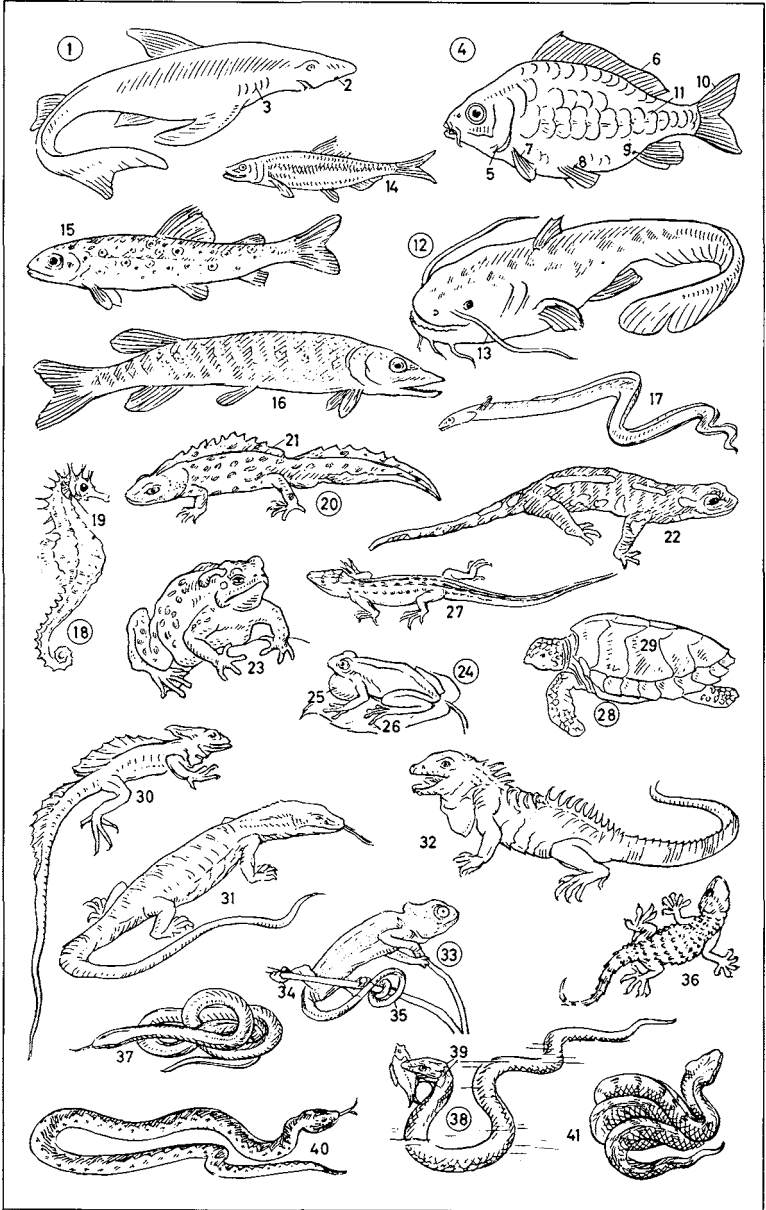
- 1 sulphur-crested cockatoo, a parrot
- 2 blue-and-yellow macaw
- 3 blue bird of paradise
- 4 sappho
- 5 cardinal (cardinal bird)
- 6 toucan (red-billed toucan), one of the Piciformes





- 1-18 fishes**  
1 man-eater (blue shark, requin), a shark  
2 nose (snout)  
3 gill slit (gill cleft)  
4 mirror carp  
5 gill cover (operculum)  
6 dorsal fin  
7 pectoral fin  
8 pelvic fin (abdominal fin, ventral fin)  
9 anal fin  
10 caudal fin (tail fin)  
11 scale  
12 catfish (sheatfish, sheathfish, wels)  
13 barbel  
14 herring  
15 brown trout  
16 pike (northern pike)  
17 freshwater eel (eel)  
18 sea horse (Hippocampus, horse-fish)  
19 tufted gills  
**20-26 Amphibia** (amphibians)  
**20-22 salamanders**  
20 greater water newt (crested newt), a water newt  
21 dorsal crest  
22 fire salamander, a salamander  
**23-26 salientians** (anurans, batrachians)  
23 European toad, a toad  
24 tree frog (tree toad)  
25 vocal sac (vocal pouch, croaking sac)  
26 adhesive disc (disk)  
**27-41 reptiles**  
**27, 30-37 lizards**  
27 sand lizard  
28 hawksbill turtle (hawksbill)  
29 carapace (shell)  
30 basilisk  
31 desert monitor, a monitor lizard (monitor)  
32 common iguana, an iguana  
33 chameleon, one of the Chamaeleontidae (Rhiptoglossa)  
34 prehensile foot

- 35 prehensile tail  
36 wall gecko, a gecko  
37 slowworm (blindworm), one of the Anguidae  
**38-41 snakes**  
38 ringed snake (ring snake, water snake, grass snake), a colubrid  
39 collar  
**40, 41 vipers** (adders)  
40 common viper, a poisonous (venomous) snake  
41 asp (asp viper)

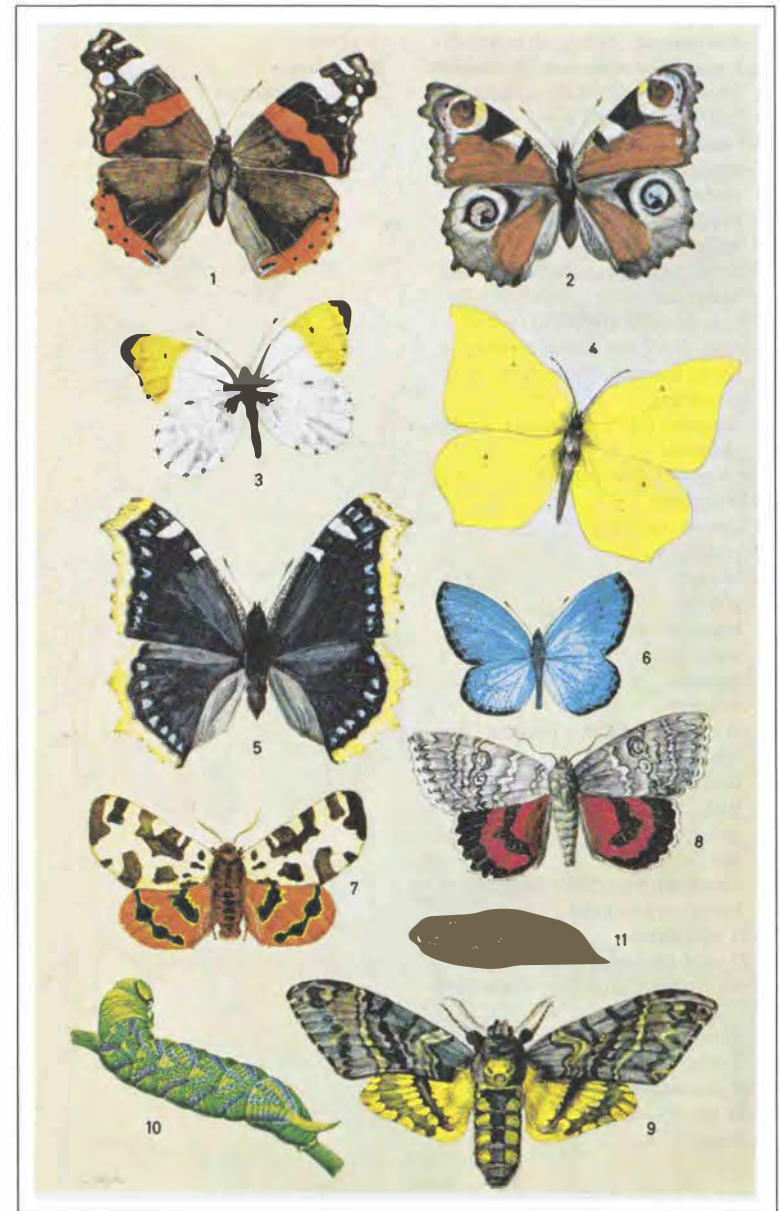


**1-6 butterflies**

- 1 red admiral
- 2 peacock butterfly
- 3 orange tip (orange tip butterfly)
- 4 brimstone (brimstone butterfly)
- 5 Camberwell beauty (mourning cloak, mourning cloak butterfly)
- 6 blue (lycaenid butterfly, lycaenid)

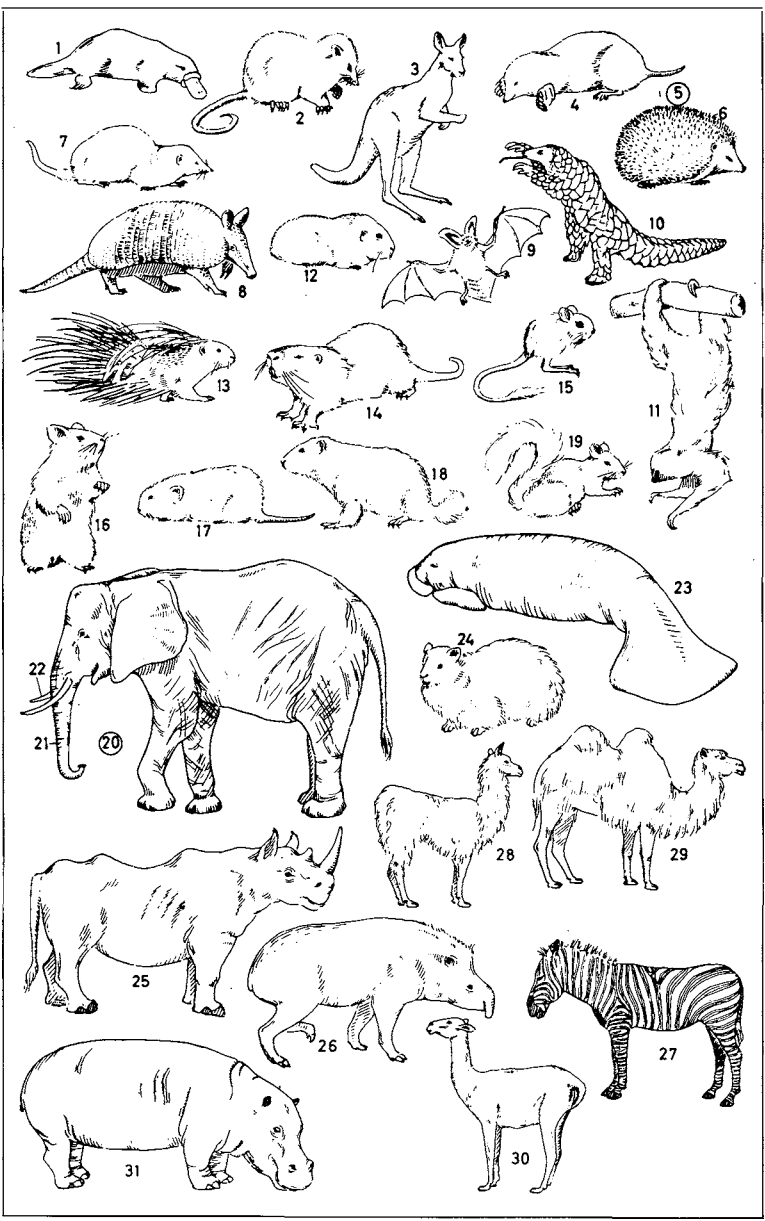
**7-11 moths (Heterocera)**

- 7 garden tiger
- 8 red underwing
- 9 death's-head moth (death's-head hawkmoth), a hawkmoth (sphinx)
- 10 caterpillar
- 11 chrysalis (pupa)



- 1 platypus (duck-bill, duck-mole), a monotreme (oviparous mammal)
- 2, 3 **marsupial mammals** (marsupials)
- 2 New World opossum, a didelphid
- 3 red kangaroo (red flyer), a kangaroo
- 4-7 **insectivores** (insect-eating mammals)
- 4 mole
- 5 hedgehog
- 6 spine
- 7 shrew (shrew mouse), one of the Soricidae
- 8 nine-banded armadillo (peba)
- 9 long-eared bat (flutter-mouse), a flying mammal (chiropter, chiropteran)
- 10 pangolin (scaly ant-eater), a scaly mammal
- 11 two-toed sloth (unau)
- 12-19 **rodents**
- 12 guinea pig (cavy)
- 13 porcupine
- 14 beaver
- 15 jerboa
- 16 hamster
- 17 water vole
- 18 marmot
- 19 squirrel
- 20 African elephant, a proboscidean (proboscidian)
- 21 trunk (proboscis)
- 22 tusk
- 23 manatee (manati, lamantin), a sirenian
- 24 South African dassie (das, coney, hyrax), a procaviid
- 25-31 **ungulates**
- 25-27 **odd-toed ungulates**
- 25 African black rhino, a rhinoceros (nasicorn)
- 26 Brazilian tapir, a tapir
- 27 zebra
- 28-31 **even-toed ungulates**
- 28 llama

- 29 Bactrian camel (two-humped camel)
- 30 guanaco
- 31 hippopotamus



1-10 ungulates, ruminants

- 1 elk (moose)
- 2 wapiti (Am. elk)
- 3 chamois
- 4 giraffe
- 5 black buck, an antelope
- 6 mouflon (mouflon)
- 7 ibex (rock goat, bouquetin, steinbock)
- 8 water buffalo (Indian buffalo, water ox)
- 9 bison
- 10 musk ox

11-22 carnivores (beasts of prey)

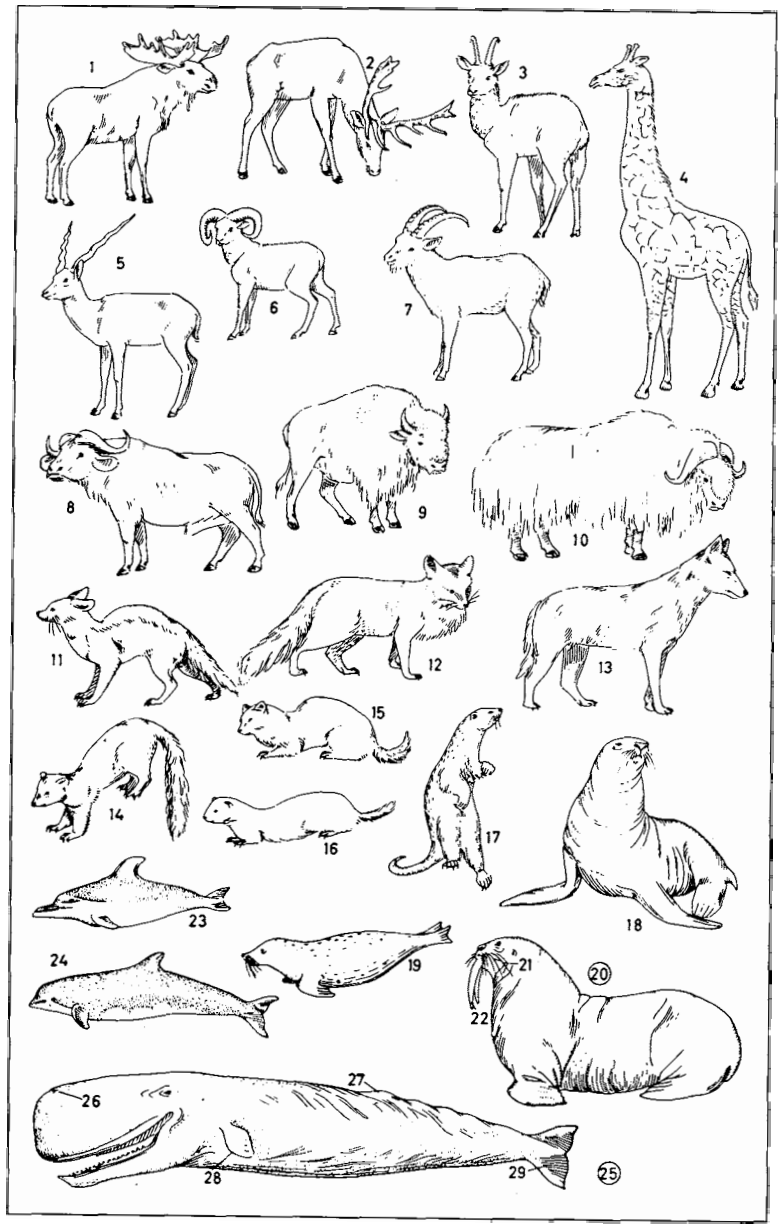
- 11-13 Canidae
  - 11 black-backed jackal (jackal)
  - 12 red fox
  - 13 wolf
- 14-17 martens
  - 14 stone marten (beach marten)
  - 15 sable
  - 16 weasel
  - 17 sea otter, an otter

18-22 seals (pinnipeds)

- 18 fur seal (sea bear, ursine seal)
- 19 common seal (sea calf, sea dog)
- 20 walrus (morse)
- 21 whiskers
- 22 tusk

23-29 whales

- 23 bottle-nosed dolphin (bottle-nose dolphin)
- 24 common dolphin
- 25 sperm whale (cachalot)
- 26 blowhole (spout hole)
- 27 dorsal fin
- 28 flipper
- 29 tail flukes (tail)



**1-11 carnivores** (beasts of prey)

**1** striped hyena, a hyena

**2-8 felines** (cats)

**2** lion

**3** mane (lion's mane)

**4** paw

**5** tiger

**6** leopard

**7** cheetah (hunting leopard)

**8** lynx

**9-11 bears**

**9** raccoon (raccoon, *Am. coon*)

**10** brown bear

**11** polar bear (white bear)

**12-16 primates**

**12, 13** monkeys

**12** rhesus monkey (rhesus, rhesus macaque)

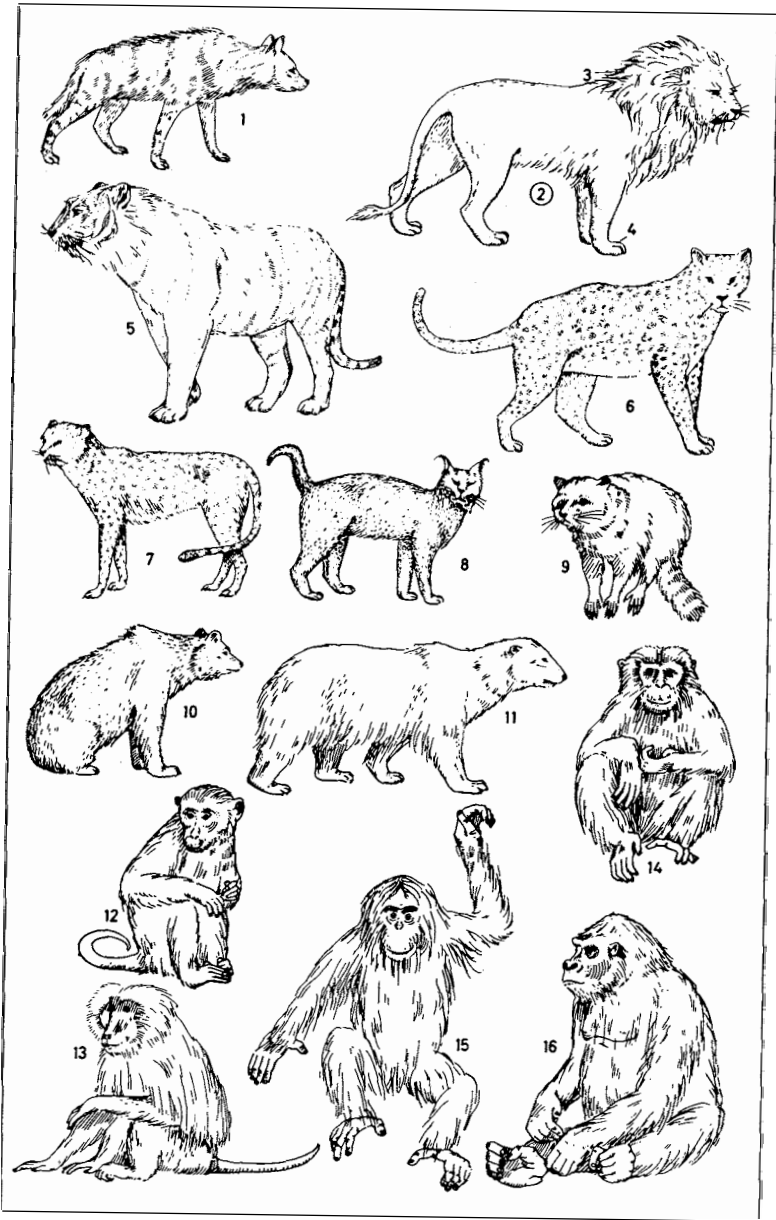
**13** baboon

**14-16 anthropoids** (anthropoid apes, great apes)

**14** chimpanzee

**15** orang-utan (orang-outan)

**16** gorilla

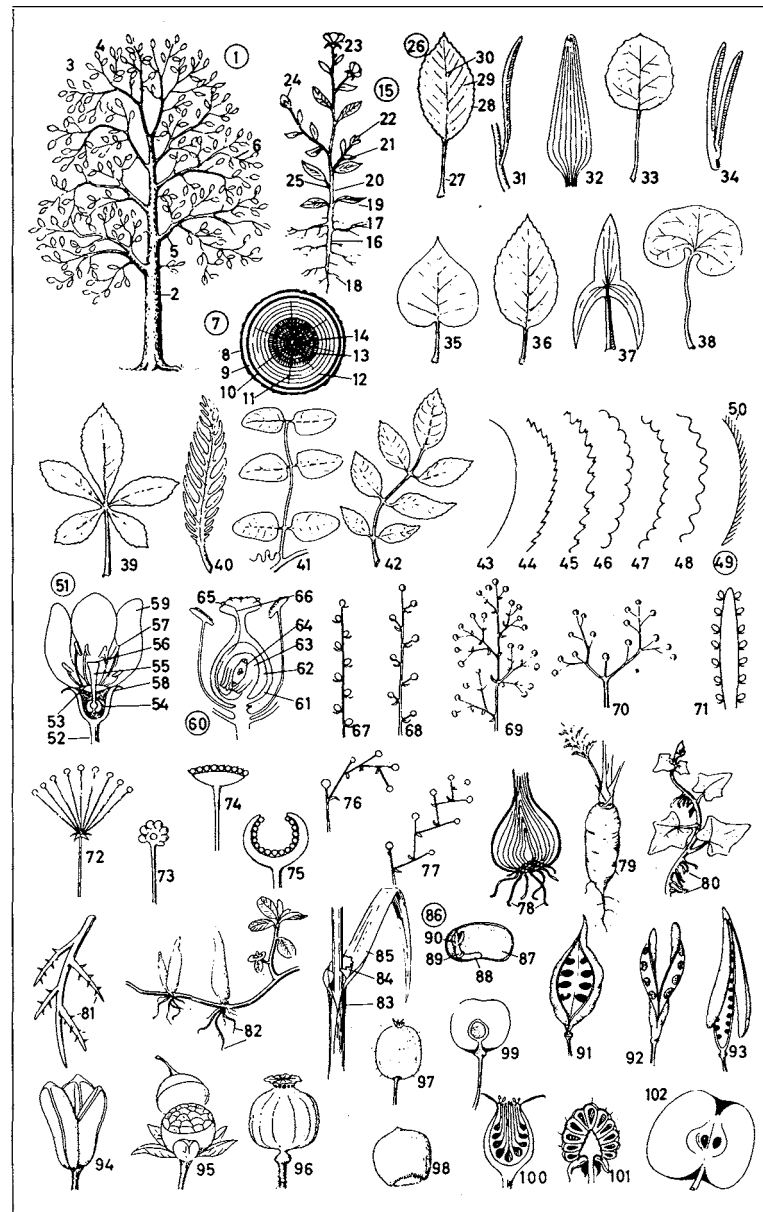




- 1 *Gigantocypris agassizi*
- 2 *Eupharynx pelecyanoides* (pelican eel, pelican fish)
- 3 *Metacrinus* (feather star), a sea lily, an echinoderm
- 4 *Lycoteuthis diadema* (jewelled squid), a cuttlefish [luminescent]
- 5 *Atolla*, a deep-sea medusa, a coelenterate
- 6 *Melanocetes*, a pediculate [luminescent]
- 7 *Lophocalyx philippensis*, a glass sponge
- 8 *Mopsea*, a sea fan [colony]
- 9 *Hydrallmania*, a hydroid polyp, a coelenterate [colony]
- 10 *Malacosteus indicus*, a stomiatid [luminescent]
- 11 *Brsinga endecacnemos*, a sand star (brittle star), an echinoderm [luminescent only when stimulated]
- 12 *Pasiphaea*, a shrimp, a crustacean
- 13 *Echiostoma*, a stomiatid, a fish [luminescent]
- 14 *Umbellula encrinus*, a sea pen (sea feather), a coelenterate [colony, luminescent]
- 15 *Polychaetes*, a crustacean
- 16 *Lithodes*, a crustacean, a crab
- 17 *Archaster*, a starfish (sea star), an echinoderm
- 18 *Oneirophanta*, a sea cucumber, an echinoderm
- 19 *Palaeopneustes niasicus*, a sea urchin (sea hedgehog), an echinoderm
- 20 *Chitonactis*, a sea anemone (actinia), a coelenterate



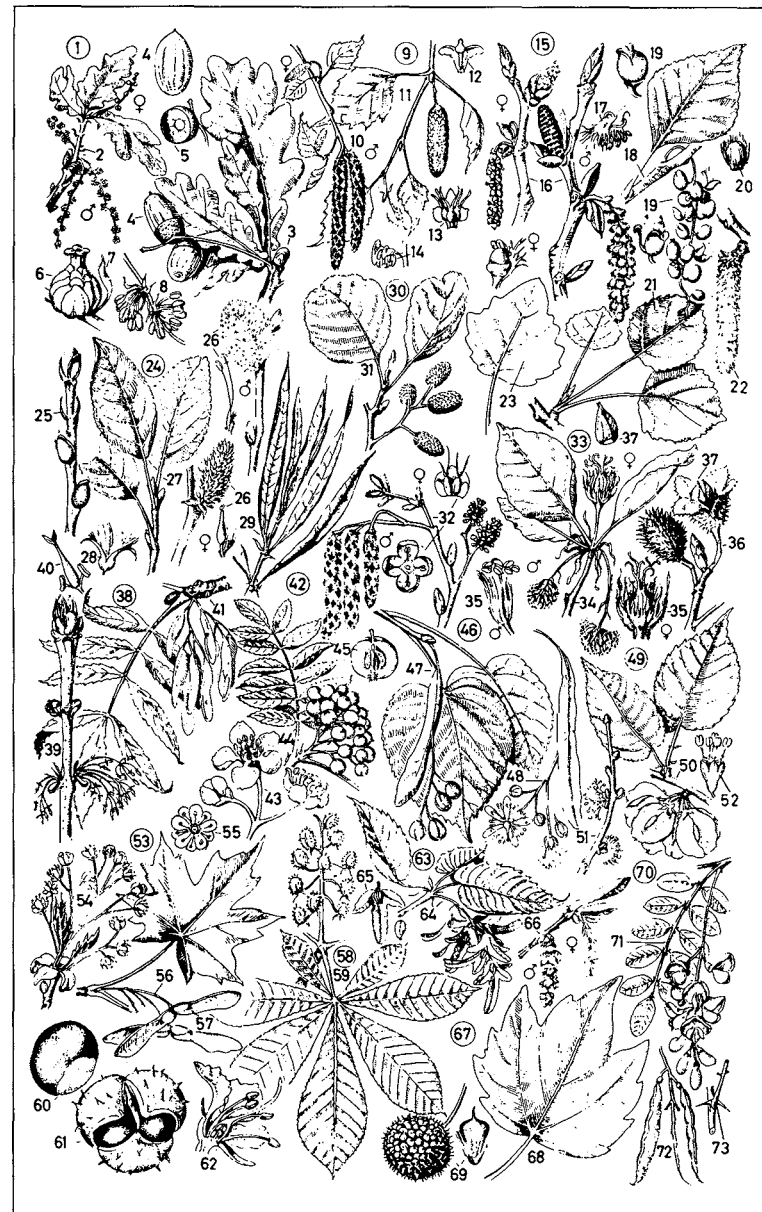
- 1 tree
- 2 bole (tree trunk, trunk, stem)
- 3 crown of tree (crown)
- 4 top of tree (treetop)
- 5 bough (limb, branch)
- 6 twig (branch)
- 7 bole (tree trunk) [cross section]
- 8 bark (rind)
- 9 phloem (bast sieve tissue, inner fibrous bark)
- 10 cambium (cambium ring)
- 11 medullary rays (vascular rays, pith rays)
- 12 sapwood (sap, alburnum)
- 13 heartwood (duramen)
- 14 pith
- 15 **plant**
- 16-18 root
- 16 primary root
- 17 secondary root
- 18 root hair
- 19-25 shoot (sprout)
- 19 leaf
- 20 stalk
- 21 side shoot (offshoot)
- 22 terminal bud
- 23 flower
- 24 flower bud
- 25 leaf axil with axillary bud
- 26 **leaf**
- 27 leaf stalk (petiole)
- 28 leaf blade (blade, lamina)
- 29 venation (veins, nervures, ribs)
- 30 midrib (nerve)
- 31-38 leaf shapes
- 31 linear
- 32 lanceolate
- 33 orbicular (orbiculate)
- 34 acerose (acerous, acerate, acicular, needle-shaped)
- 35 cordate
- 36 ovate
- 37 sagittate
- 38 reniform
- 39-42 compound leaves
- 39 digitate (digitated, palmate, quinquefoliate)
- 40 pinnatifid
- 41 abruptly pinnate
- 42 odd-pinnate
- 43-50 leaf margin shapes
- 43 entire
- 44 serrate (serrulate, saw-toothed)
- 45 doubly toothed
- 46 crenate
- 47 dentate
- 48 sinuate
- 49 ciliate (ciliated)
- 50 cilium
- 51 **flower**
- 52 flower stalk (flower stem, scape)
- 53 receptacle (floral axis, thalamus, torus)
- 54 ovary
- 55 style
- 56 stigma
- 57 stamen
- 58 sepal
- 59 petal
- 60 ovary and stamen [section]
- 61 ovary wall
- 62 ovary cavity
- 63 ovule
- 64 embryo sac
- 65 pollen
- 66 pollen tube
- 67-77 inflorescences
- 67 spike (racemose spike)
- 68 raceme (simple raceme)
- 69 panicle
- 70 cyme
- 71 spadix (fleshy spike)
- 72 umbel (simple umbel)
- 73 capitulum
- 74 composite head (discoid flower head)
- 75 hollow flower head
- 76 bostryx (helicoid cyme)
- 77 cincinnus (scorpioid cyme, curled cyme)
- 78-82 roots
- 78 adventitious roots
- 79 tuber (tuberous root, swollen taproot)
- 80 adventitious roots (aerial roots)
- 81 root thorns
- 82 pneumatophores
- 83-85 blade of grass
- 83 leaf sheath
- 84 ligule (ligula)
- 85 leaf blade (lamina)
- 86 embryo (seed, germ)
- 87 cotyledon (seed leaf, seed lobe)
- 88 radicle
- 89 hypocotyl
- 90 plumule (leaf bud)
- 91-102 fruits
- 91-96 dehiscent fruits
- 91 follicle
- 92 legume (pod)
- 93 siliqua (pod)
- 94 schizocarp
- 95 pyxidium (circumscissile seed vessel)
- 96 poricidal capsule (porose capsule)
- 97-102 indehiscent fruits
- 97 berry
- 98 nut
- 99 drupe (stone fruit) (cherry)
- 100 aggregate fruit (compound fruit) (rose hip)
- 101 aggregate fruit (compound fruit) (raspberry)
- 102 pome (apple)



## 1-73 deciduous trees

- 1 oak (oak tree)
- 2 flowering branch
- 3 fruiting branch
- 4 fruit (acorn)
- 5 cupule (cup)
- 6 female flower
- 7 bract
- 8 male inflorescence
- 9 birch (birch tree)
- 10 branch with catkins, a flowering branch
- 11 fruiting branch
- 12 scale (catkin scale)
- 13 female flower
- 14 male flower
- 15 poplar
- 16 flowering branch
- 17 flower
- 18 fruiting branch
- 19 fruit
- 20 seed
- 21 leaf of the aspen (trembling poplar)
- 22 infructescence
- 23 leaf of the white poplar (silver poplar, silverleaf)
- 24 willow (goat willow)
- 25 branch with flower buds
- 26 catkin with single flower
- 27 branch with leaves
- 28 fruit
- 29 osier branch with leaves
- 30 alder
- 31 fruiting branch
- 32 branch with previous year's cone
- 33 beech (beech tree)
- 34 flowering branch
- 35 flower
- 36 fruiting branch
- 37 beech nut
- 38 ash (ash tree)
- 39 flowering branch
- 40 flower
- 41 fruiting branch
- 42 mountain ash (rowan, quickbeam)
- 43 inflorescence

- 44 infructescence
- 45 fruit [longitudinal section]
- 46 lime (lime tree, linden, linden tree)
- 47 fruiting branch
- 48 inflorescence
- 49 elm (elm tree)
- 50 fruiting branch
- 51 flowering branch
- 52 flower
- 53 maple (maple tree)
- 54 flowering branch
- 55 flower
- 56 fruiting branch
- 57 maple seed with wings (winged maple seed)
- 58 horse chestnut (horse chestnut tree, chestnut, chestnut tree, buck-eye)
- 59 branch with young fruits
- 60 chestnut (horse chestnut)
- 61 mature (ripe) fruit
- 62 flower [longitudinal section]
- 63 hornbeam (yoke elm)
- 64 fruiting branch
- 65 seed
- 66 flowering branch
- 67 plane (plane tree)
- 68 leaf
- 69 infructescence and fruit
- 70 false acacia (locust tree)
- 71 flowering branch
- 72 part of the infructescence
- 73 base of the leaf stalk with stipules





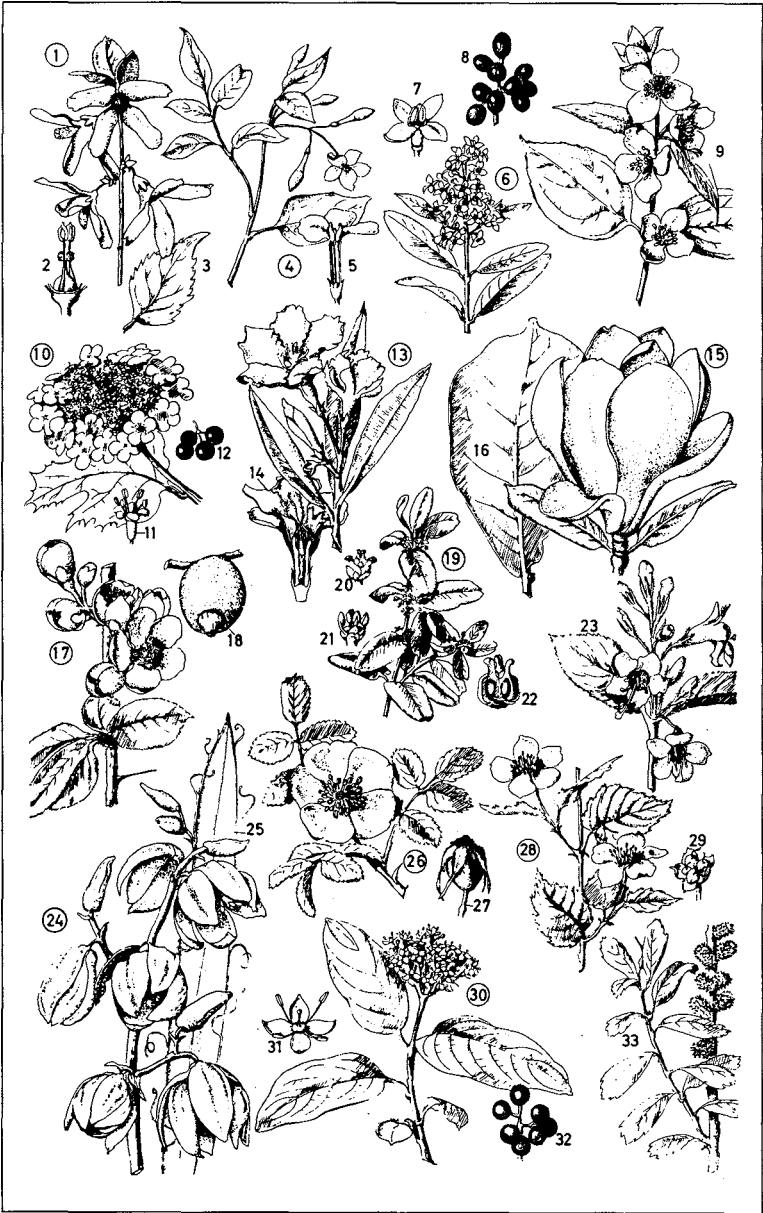
## 1-71 coniferous trees (conifers)

- 1 silver fir (European silver fir, common silver fir)
- 2 fir cone, a fruit cone
- 3 cone axis
- 4 female flower cone
- 5 bract scale (bract)
- 6 male flower shoot
- 7 stamen
- 8 cone scale
- 9 seed with wing (winged seed)
- 10 seed [longitudinal section]
- 11 fir needle (needle)
- 12 spruce (spruce fir)
- 13 spruce cone
- 14 cone scale
- 15 seed
- 16 female flower cone
- 17 male inflorescence
- 18 stamen
- 19 spruce needle
- 20 pine (Scots pine)
- 21 dwarf pine
- 22 female flower cone
- 23 short shoot with bundle of two leaves
- 24 male inflorescences
- 25 annual growth
- 26 pine cone
- 27 cone scale
- 28 seed
- 29 fruit cone of the arolla pine (Swiss stone pine)
- 30 fruit cone of the Weymouth pine (white pine)
- 31 short shoot [cross section]
- 32 larch
- 33 flowering branch
- 34 scale of the female flower cone
- 35 anther
- 36 branch with larch cones (fruit cones)
- 37 seed
- 38 cone scale
- 39 arbor vitae (tree of life, thuja)
- 40 fruiting branch
- 41 fruit cone

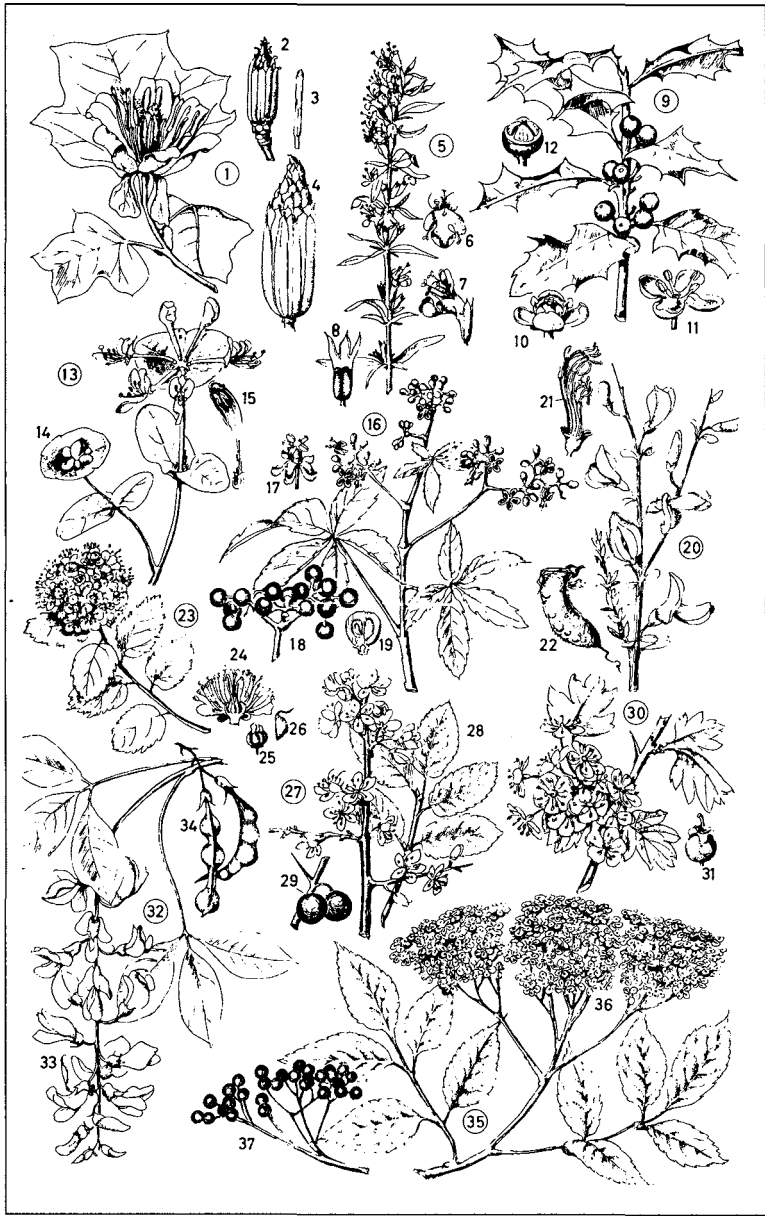
- 42 scale
- 43 branch with male and female flowers
- 44 male shoot
- 45 scale with pollen sacs
- 46 female shoot
- 47 juniper (juniper tree)
- 48 female shoot [longitudinal section]
- 49 male shoot
- 50 scale with pollen sacs
- 51 fruiting branch
- 52 juniper berry
- 53 fruit [cross section]
- 54 seed
- 55 stone pine
- 56 male shoot
- 57 fruit cone with seeds [longitudinal section]
- 58 cypress
- 59 fruiting branch
- 60 seed
- 61 yew (yew tree)
- 62 male flower shoot and female flower cone
- 63 fruiting branch
- 64 fruit
- 65 cedar (cedar tree)
- 66 fruiting branch
- 67 fruit scale
- 68 male flower shoot and female flower cone
- 69 mammoth tree (Wellingtonia, sequoia)
- 70 fruiting branch
- 71 seed



- 1 forsythia
- 2 ovary and stamen
- 3 leaf
- 4 yellow-flowered jasmine (jasmin, jessamine)
- 5 flower [longitudinal section] with styles, ovaries, and stamens
- 6 privet (common privet)
- 7 flower
- 8 infructescence
- 9 mock orange (sweet syringa)
- 10 snowball (snowball bush, guelder rose)
- 11 flower
- 12 fruits
- 13 oleander (rosebay, rose laurel)
- 14 flower [longitudinal section]
- 15 red magnolia
- 16 leaf
- 17 japonica (japanese quince)
- 18 fruit
- 19 common box (box, box tree)
- 20 female flower
- 21 male flower
- 22 fruit [longitudinal section]
- 23 weigela (weigelia)
- 24 yucca [part of the inflorescence]
- 25 leaf
- 26 dog rose (briar rose, wild briar)
- 27 fruit
- 28 kerria
- 29 fruit
- 30 cornelian cherry
- 31 flower
- 32 fruit (cornelian cherry)
- 33 sweet gale (gale)

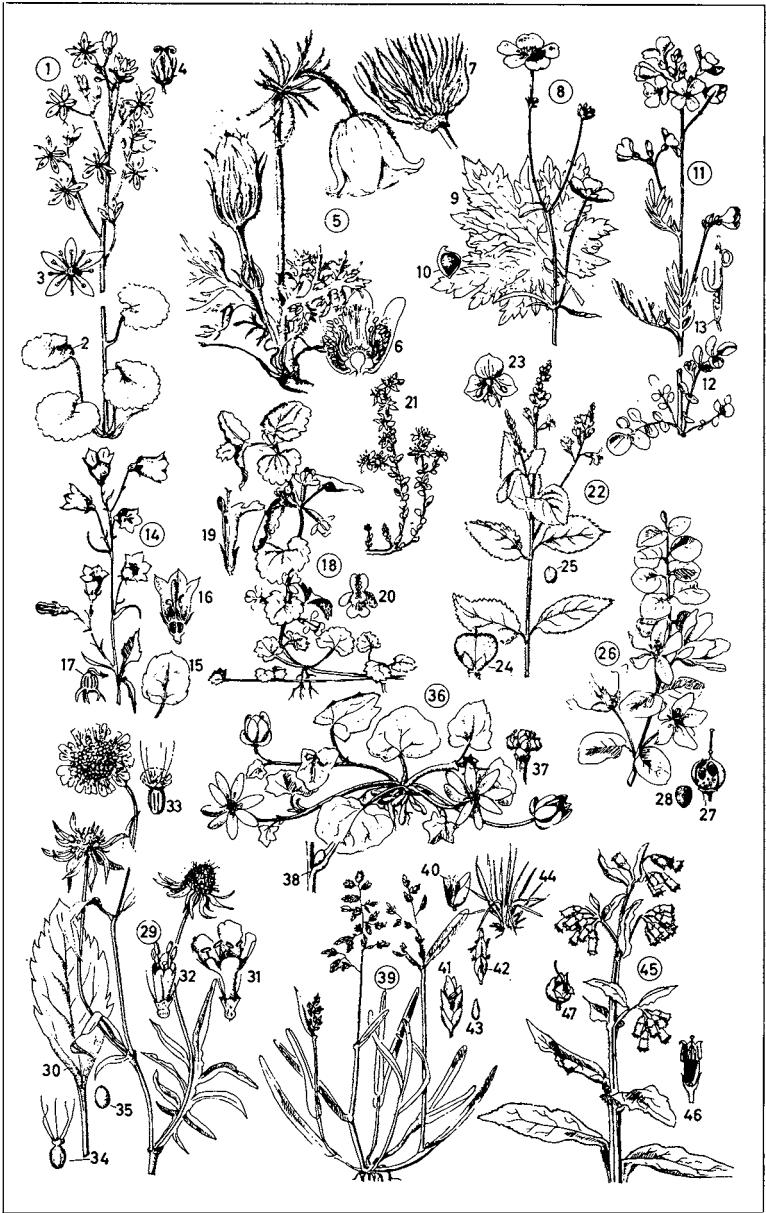


- 1 tulip tree (tulip poplar, saddle tree, whitewood)
- 2 carpels
- 3 stamen
- 4 fruit
- 5 hyssop
- 6 flower [front view]
- 7 flower
- 8 calyx with fruit
- 9 holly
- 10 androgynous (hermaphroditic, hermaphrodite) flower
- 11 male flower
- 12 fruit with stones exposed
- 13 honeysuckle (woodbine, woodbind)
- 14 flower buds
- 15 flower [cut open]
- 16 Virginia creeper (American ivy, woodbine)
- 17 open flower
- 18 infructescence
- 19 fruit [longitudinal section]
- 20 broom
- 21 flower with the petals removed
- 22 immature (unripe) legume (pod)
- 23 spiraea
- 24 flower [longitudinal section]
- 25 fruit
- 26 carpel
- 27 blackthorn (sloe)
- 28 leaves
- 29 fruits
- 30 single-pistilled hawthorn (thorn, may)
- 31 fruit
- 32 laburnum (golden chain, golden rain)
- 33 raceme
- 34 fruits
- 35 black elder (elder)
- 36 elder flowers
- 37 elderberries



- 1 rotundifoliate (rotundifolious) saxifrage (rotundifoliate breakstone)
- 2 leaf
- 3 flower
- 4 fruit
- 5 anemone (windflower)
- 6 flower [longitudinal section]
- 7 fruit
- 8 buttercup (meadow buttercup, butterflower, goldcup, king cup, crow-foot)
- 9 basal leaf
- 10 fruit
- 11 lady's smock (ladysmock, cuckoo flower)
- 12 basal leaf
- 13 fruit
- 14 harebell (hairbell, bluebell)
- 15 basal leaf
- 16 flower [longitudinal section]
- 17 fruit
- 18 ground ivy (ale hoof)
- 19 flower [longitudinal section]
- 20 flower [front view]
- 21 stonecrop
- 22 speedwell
- 23 flower
- 24 fruit
- 25 seed
- 26 moneywort
- 27 dehiscent fruit
- 28 seed
- 29 small scabious
- 30 basal leaf
- 31 ray floret (flower of outer series)
- 32 disc (disk) floret (flower of inner series)
- 33 involucre calyx with pappus bristles
- 34 ovary with pappus
- 35 fruit
- 36 lesser celandine
- 37 fruit
- 38 leaf axil with bulbil
- 39 annual meadow grass
- 40 flower
- 41 spikelet [side view]

- 42 spikelet [front view]
- 43 caryopsis, an indehiscent fruit
- 44 tuft of grass (clump of grass)
- 45 comfrey
- 46 flower [longitudinal section]
- 47 fruit



- 
- This botanical illustration plate features 28 numbered figures (1-28) depicting various plant species. The drawings are detailed line art, showing different parts of the plants, including whole specimens, stems with leaves, flower clusters, individual flowers, and fruits. The plants vary in their growth habits, from rosettes to upright stems with terminal inflorescences. Some figures show detailed views of reproductive organs like stamens and pistils.
- Figure 1: A rosette of leaves with a single flower on a long stem.
  - Figure 2: A single flower with a long tube.
  - Figure 3: A single flower with a long tube.
  - Figure 4: A single flower with a long tube.
  - Figure 5: A single flower with a long tube.
  - Figure 6: A single flower with a long tube.
  - Figure 7: A rosette of leaves with a single flower on a long stem.
  - Figure 8: A single flower with a long tube.
  - Figure 9: A single flower with a long tube.
  - Figure 10: A single flower with a long tube.
  - Figure 11: A single flower with a long tube.
  - Figure 12: A single flower with a long tube.
  - Figure 13: A single flower with a long tube.
  - Figure 14: A single flower with a long tube.
  - Figure 15: A single flower with a long tube.
  - Figure 16: A single flower with a long tube.
  - Figure 17: A single flower with a long tube.
  - Figure 18: A single flower with a long tube.
  - Figure 19: A single flower with a long tube.
  - Figure 20: A single flower with a long tube.
  - Figure 21: A single flower with a long tube.
  - Figure 22: A single flower with a long tube.
  - Figure 23: A single flower with a long tube.
  - Figure 24: A single flower with a long tube.
  - Figure 25: A single flower with a long tube.
  - Figure 26: A single flower with a long tube.
  - Figure 27: A single flower with a long tube.
  - Figure 28: A single flower with a long tube.

- 1 wood anemone (anemone, wind-flower)
- 2 lily of the valley
- 3 cat's foot (milkwort); *sim.*: sand-flower (everlasting)
- 4 turk's cap (turk's cap lily)
- 5 goatsbeard (goat's beard)
- 6 ramson
- 7 lungwort
- 8 corydalis
- 9 orpine (livelong)
- 10 daphne
- 11 touch-me-not
- 12 staghorn (stag horn moss, stag's horn, stag's horn moss, coral evergreen)
- 13 butterwort, an insectivorous plant
- 14 sundew; *sim.*: Venus's flytrap
- 15 bearberry
- 16 polypody (polypod), a fern; *sim.*: male fern, brake (bracken, eagle fern), royal fern (royal osmund, king's fern, ditch fern)
- 17 haircap moss (hair moss, golden maidenhair), a moss
- 18 cotton grass (cotton rush)
- 19 heather (heath, ling); *sim.*: bell heather (cross-leaved heather)
- 20 rock rose (sun rose)
- 21 marsh tea
- 22 sweet flag (sweet calamus, sweet sedge)
- 23 bilberry (whortleberry, huckleberry, blueberry); *sim.*: cowberry (red whortleberry), bog bilberry (bog whortleberry), crowberry (crakeberry)



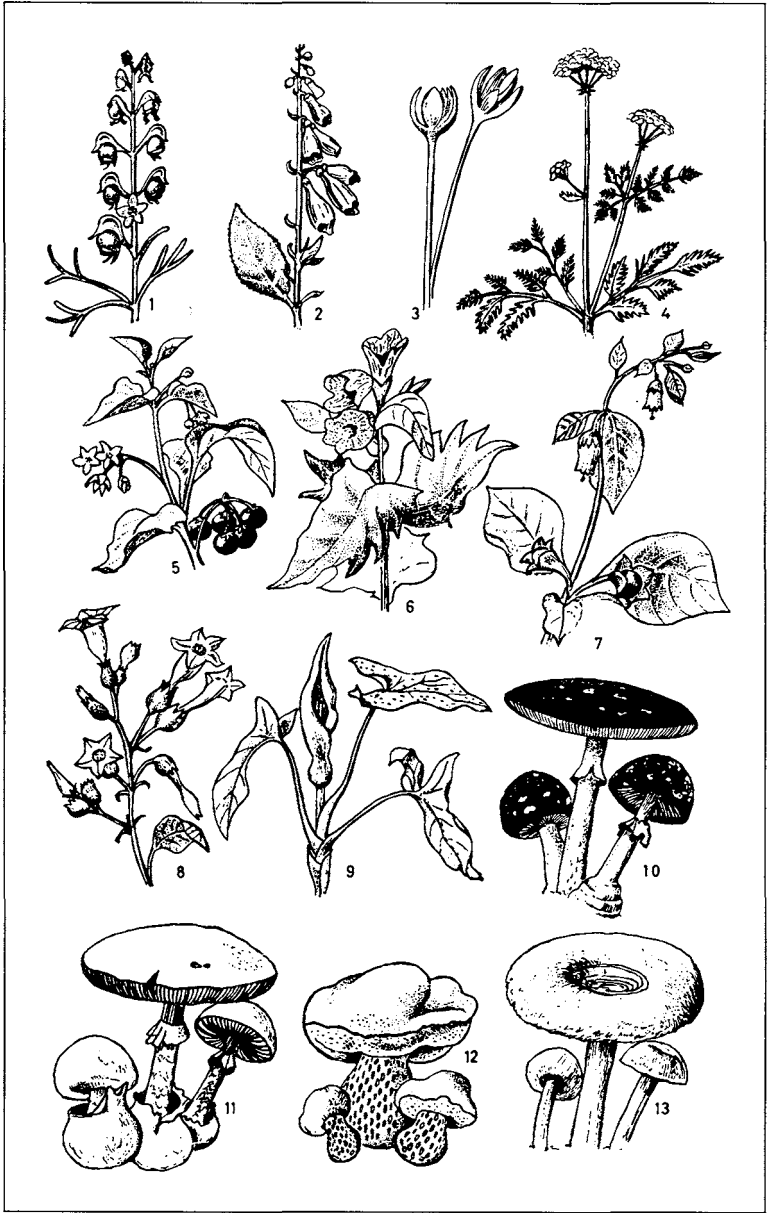
378 Alpine Plants, Aquatic Plants (Water Plants),  
and Marsh Plants

- 1-13 alpine plants  
1 alpine rose (alpine rhododendron)  
2 flowering shoot  
3 alpine soldanella (soldanella)  
4 corolla opened out  
5 seed vessel with the style  
6 alpine wormwood  
7 inflorescence  
8 auricula  
9 edelweiss  
10 flower shapes  
11 fruit with pappus tuft  
12 part of flower head (of capitulum)  
13 stemless alpine gentian  
14-57 aquatic plants (water plants) and  
marsh plants  
14 white water lily  
15 leaf  
16 flower  
17 Queen Victoria water lily (Victoria  
regia water lily, royal water lily,  
Amazon water lily)  
18 leaf  
19 underside of the leaf  
20 flower  
21 reed mace bulrush (cattail, cat's  
tail, cattail flag, club rush)  
22 male part of the spadix  
23 male flower  
24 female part  
25 female flower  
26 forget-me-not  
27 flowering shoot  
28 flower [section]  
29 frog's bit  
30 watercress  
31 stalk with flowers and immature  
(unripe) fruits  
32 flower  
33 siliqua (pod) with seeds  
34 two seeds  
35 duckweed (duck's meat)  
36 plant in flower  
37 flower  
38 fruit  
39 flowering rush  
40 flower umbel  
41 leaves  
42 fruit  
43 green alga  
44 water plantain  
45 leaf  
46 panicle  
47 flower  
48 honey wrack, a brown alga  
49 thallus (plant body, frond)  
50 holdfast  
51 arrow head  
52 leaf shapes  
53 inflorescence with male flowers  
[above] and female flowers [below]  
54 sea grass  
55 inflorescence  
56 Canadian waterweed (Canadian  
pondweed)  
57 flower

Alpine Plants, Aquatic Plants (Water Plants), 378  
and Marsh Plants

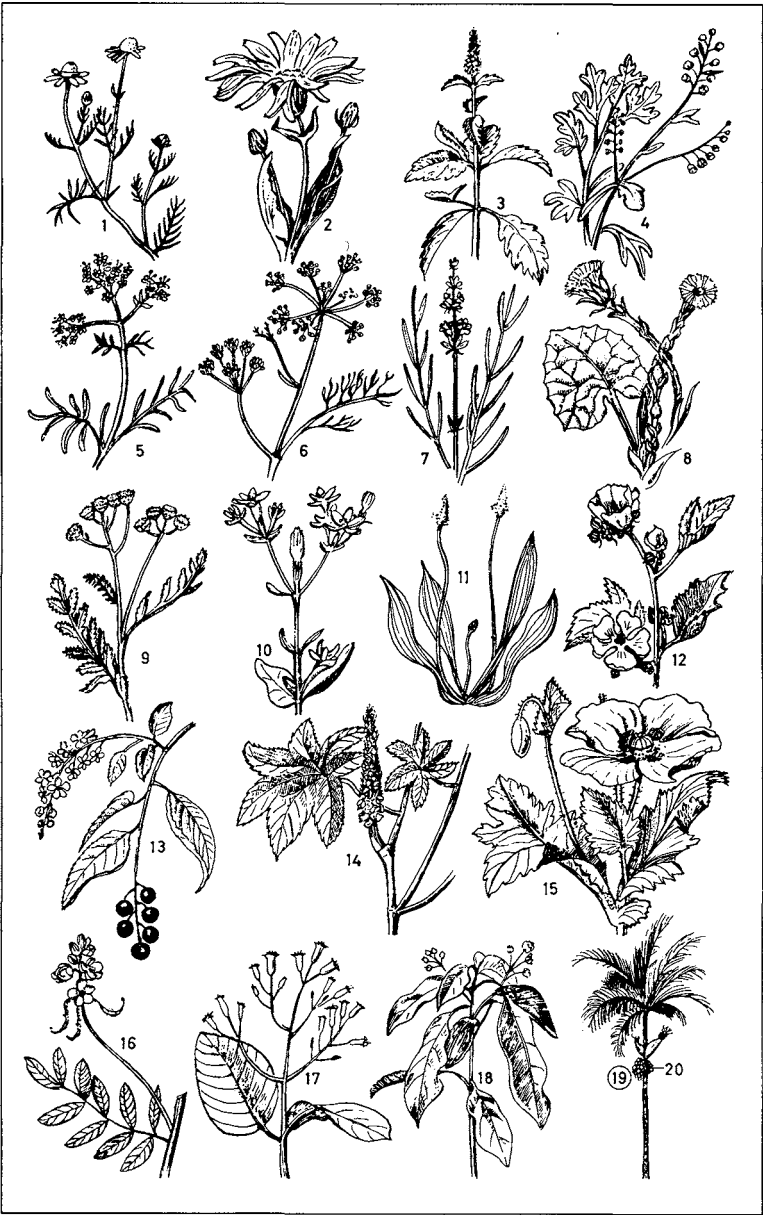


- 1 aconite (monkshood, wolfsbane, helmet flower)
- 2 foxglove (Digitalis)
- 3 meadow saffron (naked lady, naked boys)
- 4 hemlock (Conium)
- 5 black nightshade (common nightshade, petty morel)
- 6 henbane
- 7 deadly nightshade (belladonna, banewort, dwale), a solanaceous herb
- 8 thorn apple (stramonium, stramonny, *Am.* jimson weed, jimpson weed, Jamestown weed, stinkweed)
- 9 cuckoo pint (lords-and-ladies, wild arum, wake-robin)
- 10-13 poisonous fungi (poisonous mushrooms, toadstools)
- 10 fly agaric (fly amanita, fly fungus), an agaric
- 11 amanita
- 12 Satan's mushroom
- 13 woolly milk cap

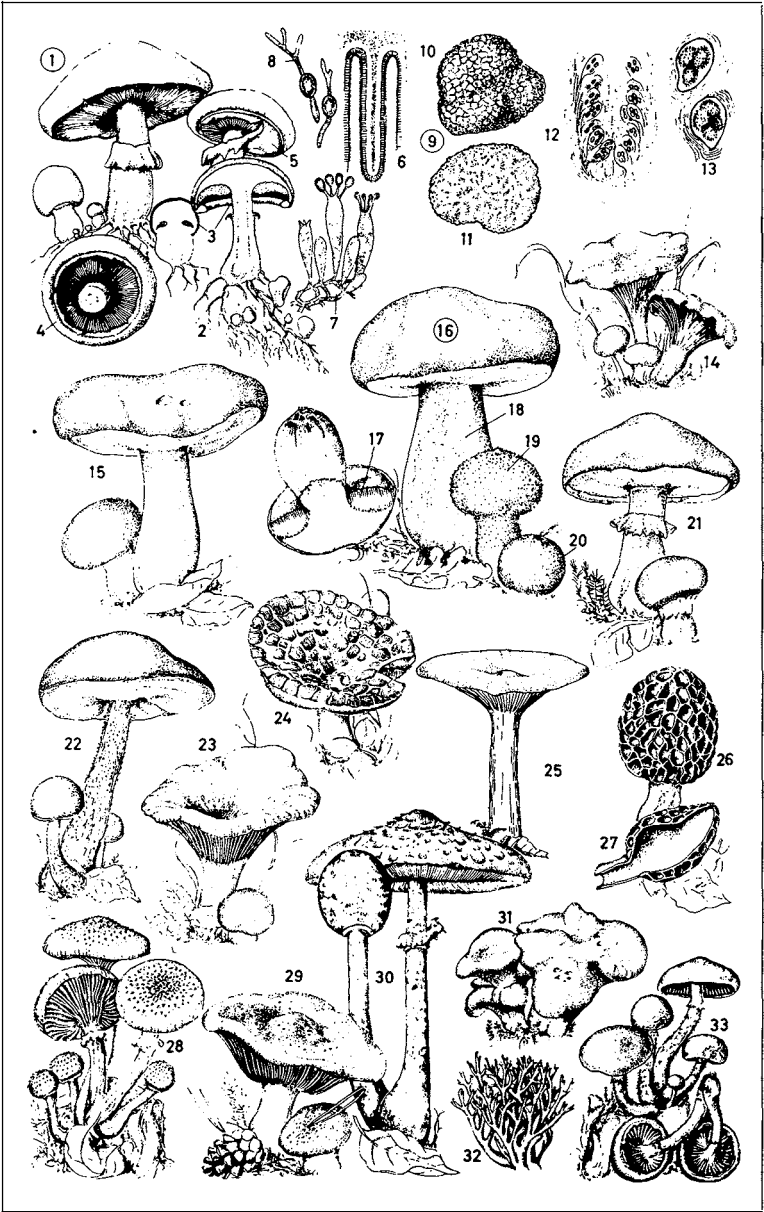




- 1 camomile (chamomile, wild camomile)
- 2 arnica
- 3 peppermint
- 4 wormwood (absinth)
- 5 valerian (allheal)
- 6 fennel
- 7 lavender
- 8 coltsfoot
- 9 tansy
- 10 centaury
- 11 ribwort (ribwort plantain, ribgrass)
- 12 marshmallow
- 13 alder buckthorn (alder dogwood)
- 14 castor-oil plant (Palma Christi)
- 15 opium poppy
- 16 senna (cassia); *the dried leaflets:* senna leaves
- 17 cinchona (chinchona)
- 18 camphor tree (camphor laurel)
- 19 betel palm (areca, areca palm)
- 20 betel nut (areca nut)



- 1 meadow mushroom (field mushroom)
- 2 mycelial threads (hyphae, mycelium) with fruiting bodies
- 3 mushroom [longitudinal section]
- 4 cap (pileus) with gills
- 5 veil (velum)
- 6 gill [section]
- 7 basidia [on the gill with basidiospores]
- 8 germinating basidiospores (spores)
- 9 truffle
- 10 truffle [external view]
- 11 truffle [section]
- 12 interior showing asci [section]
- 13 two asci with the ascospores (spores)
- 14 chanterelle (chantarelle)
- 15 Chestnut Boletus
- 16 cep (cepe, squirrel's bread, Boletus edulis)
- 17 layer of tubes (hymenium)
- 18 stem (stipe)
- 19 puffball (Bovista nigrescens)
- 20 devil's tobacco pouch (common puffball)
- 21 Brown Ring Boletus (Boletus luteus)
- 22 Birch Boletus (Boletus scaber)
- 23 Russula vesca
- 24 scaled prickly fungus
- 25 slender funnel fungus
- 26 morel (Morchella esculenta)
- 27 morel (Morchella conica)
- 28 honey fungus
- 29 saffron milk cap
- 30 parasol mushroom
- 31 hedgehog fungus (yellow prickly fungus)
- 32 yellow coral fungus (goatsbeard, goat's beard, coral Clavaria)
- 33 little cluster fungus



## 382 Tropical Plants used as Stimulants, Spices, and Flavourings (Am. Flavorings)

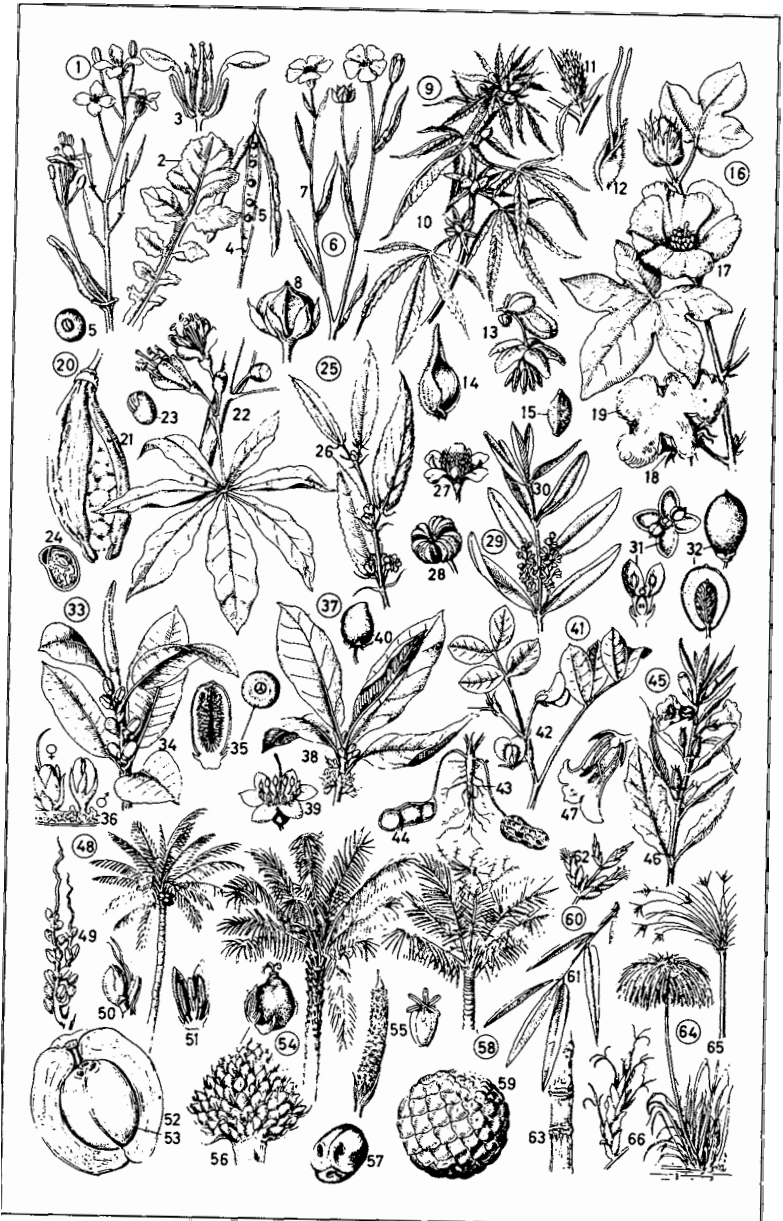
- 1 coffee tree (coffee plant)
- 2 fruiting branch
- 3 flowering branch
- 4 flower
- 5 fruit with two beans [longitudinal section]
- 6 coffee bean; *when processed*: coffee
- 7 tea plant (tea tree)
- 8 flowering branch
- 9 tea leaf; *when processed*: tea
- 10 fruit
- 11 maté shrub (maté, yerba maté, Paraguay tea)
- 12 flowering branch with androgynous (hermaphroditic, hermaphrodite) flowers
- 13 male flower
- 14 androgynous (hermaphroditic, hermaphrodite) flower
- 15 fruit
- 16 cacao tree (cacao)
- 17 branch with flowers and fruits
- 18 flower [longitudinal section]
- 19 cacao beans (cocoa beans); *when processed*: cocoa, cocoa powder
- 20 seed [longitudinal section]
- 21 embryo
- 22 cinnamon tree (cinnamon)
- 23 flowering branch
- 24 fruit
- 25 cinnamon bark; *when crushed*: cinnamon
- 26 clove tree
- 27 flowering branch
- 28 flower bud; *when dried*: clove
- 29 flower
- 30 nutmeg tree
- 31 flowering branch
- 32 female flower [longitudinal section]
- 33 mature (ripe) fruit
- 34 nutmeg with mace, a seed with lacinate aril
- 35 seed [cross section]; *when dried*: nutmeg
- 36 pepper plant
- 37 fruiting branch
- 38 inflorescence
- 39 fruit [longitudinal section] with seed (peppercorn); *when ground*: pepper
- 40 Virginia tobacco plant
- 41 flowering shoot
- 42 flower
- 43 tobacco leaf; *when cured*: tobacco
- 44 mature (ripe) fruit capsule
- 45 seed
- 46 vanilla plant
- 47 flowering shoot
- 48 vanilla pod; *when cured*: stick of vanilla
- 49 pistachio tree
- 50 flowering branch with female flowers
- 51 drupe (pistachio, pistachio nut)
- 52 sugar cane
- 53 plant in bloom
- 54 panicle
- 55 flower

## Tropical Plants used as Stimulants, Spices, 382 and Flavourings (Am. Flavorings)



- 1 rape (cole, coleseed)
- 2 basal leaf
- 3 flower [longitudinal section]
- 4 mature (ripe) siliqua (pod)
- 5 oleiferous seed
- 6 flax
- 7 peduncle (pedicel, flower stalk)
- 8 seed vessel (boll)
- 9 hemp
- 10 fruiting female (pistillate) plant
- 11 female inflorescence
- 12 flower
- 13 male inflorescence
- 14 fruit
- 15 seed
- 16 cotton
- 17 flower
- 18 fruit
- 19 lint [cotton wool]
- 20 silk-cotton tree (kapok tree, capoc tree, ceiba tree)
- 21 fruit
- 22 flowering branch
- 23 seed
- 24 seed [longitudinal section]
- 25 jute
- 26 flowering branch
- 27 flower
- 28 fruit
- 29 olive tree (olive)
- 30 flowering branch
- 31 flower
- 32 fruit
- 33 rubber tree (rubber plant)
- 34 fruiting branch
- 35 fig
- 36 flower
- 37 gutta-percha tree
- 38 flowering branch
- 39 flower
- 40 fruit
- 41 peanut (ground nut, monkey nut)
- 42 flowering shoot
- 43 root with fruits
- 44 nut (kernel) [longitudinal section]
- 45 sesame plant (simsim, benniseed)
- 46 flowers and fruiting branch

- 47 flower [longitudinal section]
- 48 coconut palm (coconut tree, coco palm, cocoa palm)
- 49 inflorescence
- 50 female flower
- 51 male flower [longitudinal section]
- 52 fruit [longitudinal section]
- 53 coconut (cokernut)
- 54 oil palm
- 55 male spadix
- 56 infructescence with fruit
- 57 seed with micropyles (foramina) (foraminate seed)
- 58 sago palm
- 59 fruit
- 60 bamboo stem (bamboo culm)
- 61 branch with leaves
- 62 spike
- 63 part of bamboo stem with joints
- 64 papyrus plant (paper reed, paper rush)
- 65 umbel
- 66 spike



384 Southern Fruits (Tropical, Subtropical,  
and Mediterranean Fruits)

- 1 date palm (date)

2 fruiting palm

3 palm frond

4 male spadix

5 male flower

6 female spadix

7 female flower

8 stand of fruit

9 date

10 date kernel

11 fig

12 branch with pseudocarps

13 fig with flowers [longitudinal section]

14 female flower

15 male flower

16 pomegranate

17 flowering branch

18 flower [longitudinal section, corolla removed]

19 fruit

20 seed [longitudinal section]

21 seed [cross section]

22 embryo

23 lemon; *sim.*: tangerine (mandarin), orange, grapefruit

24 flowering branch

25 orange flower [longitudinal section]

26 fruit

27 orange [cross section]

28 banana plant (banana tree)

29 crown

30 herbaceous stalk with overlapping leaf sheaths

31 inflorescence with young fruits

32 infructescence (bunch of fruit)

33 banana

34 banana flower

35 banana leaf [diagram]

36 almond

37 flowering branch

38 fruiting branch

39 fruit

40 drupe containing seed [almond]

41 carob

42 branch with female flowers

43 female flower

44 male flower

45 fruit

46 silique (pod) [cross section]

47 seed

48 sweet chestnut (Spanish chestnut)

49 flowering branch

50 female inflorescence

51 male flower

52 cupule containing seeds

53 Brazil nut

54 flowering branch

55 leaf

56 flower [from above]

57 flower [longitudinal section]

58 opened capsule containing seeds

59 Brazil nut [cross section]

60 nut [longitudinal section]

61 pineapple plant (pineapple)

62 pseudocarp with crown of leaves

63 syncarp

64 pineapple flower

65 flower [longitudinal section]

Southern Fruits (Tropical, Subtropical, 384  
and Mediterranean Fruits)

