

CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

Agriculture

A01 AGRICULTURE; FORESTRY; ANIMAL HUSBANDRY; HUNTING; TRAPPING; FISHING

A01B SOIL WORKING IN AGRICULTURE OR FORESTRY; PARTS, DETAILS, OR ACCESSORIES OF AGRICULTURAL MACHINES OR IMPLEMENTS, IN GENERAL (making or covering furrows or holes for sowing, planting, or manuring [A01C 5/00](#); soil working for engineering purposes [E01](#), [E02](#), [E21](#); {measuring areas for agricultural purposes [G01B](#)})

WARNING

The following IPC groups are not used in the CPC system. Subject matter covered by these groups is classified in the following CPC groups:

A01B 69/04	covered by	A01B 69/008
A01B 69/06	covered by	A01B 69/005
A01B 69/08	covered by	A01B 69/006

A01C PLANTING; SOWING; FERTILISING (combined with general working of soil [A01B 49/04](#); parts, details or accessories of agricultural machines or implements, in general [A01B 51/00](#) to [A01B 75/00](#); {apparatus for spreading sand or salt [E01C](#); sowing and fertilising with aircraft [B64D 1/16](#) to [B64D 1/20](#)})

A01D HARVESTING; MOWING {(parts, details or accessories of agricultural machines or implements in general [A01B 51/00](#) to [A01B 75/00](#))}

NOTE

1. This subclass covers the shredding or pulverising of stubble, e.g. for the purpose of producing mulch, but does not cover other mechanical destruction of unwanted vegetation, which is covered by group [A01M 21/02](#)
2. In this subclass, in groups [A01D 34/00](#), [A01D 42/00](#), [A01D 43/00](#), [A01D 57/00](#), [A01D 67/00](#), [A01D 69/00](#) and [A01D 75/00](#), it is desirable to add the indexing code of group [A01D 2101/00](#)

A01F **PROCESSING OF HARVESTED PRODUCE; HAY OR STRAW PRESSES; DEVICES FOR STORING AGRICULTURAL OR HORTICULTURAL PRODUCE** (devices for topping or skinning onions or flower bulbs [A23N 15/08](#))

A01G **HORTICULTURE; CULTIVATION OF VEGETABLES, FLOWERS, RICE, FRUIT, VINES, HOPS OR SEAWEED; FORESTRY; WATERING** (picking of fruits, vegetables, hops, or the like [A01D 46/00](#); plant reproduction by tissue culture techniques [A01H 4/00](#); devices for topping or skinning onions or flower bulbs [A23N 15/08](#); propagating unicellular algae [C12N 1/12](#); plant cell culture [C12N 5/00](#))

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:
[A01G 33/02](#) covered by [A01G 33/00](#)

A01H **NEW PLANTS OR PROCESSES FOR OBTAINING THEM; PLANT REPRODUCTION BY TISSUE CULTURE TECHNIQUES**

A01J **MANUFACTURE OF DAIRY PRODUCTS** (preservation, pasteurisation, sterilisation of milk products [A23](#); for chemical matters, see subclass [A23C](#))

A01K **ANIMAL HUSBANDRY; CARE OF BIRDS, FISHES, INSECTS; FISHING; REARING OR BREEDING ANIMALS, NOT OTHERWISE PROVIDED FOR; NEW BREEDS OF ANIMALS**

NOTE

This subclass covers:

- equipment for the care, culture or rearing of all animals, or for obtaining their products, unless provided for elsewhere, e.g. milking [A01J](#), shoeing animals [A01L](#), veterinary devices [A61D](#), culture of animal cells [C12M](#), [C12N](#);
- methods of breeding animals or new animal breeds.

A01L **SHOEING OF ANIMALS** {(making metal horseshoes by rolling [B21H 7/12](#); making horseshoes or appurtenances therefor by forging or pressing [B21K 15/02](#); casting of metals [B22D](#))}

A01M

CATCHING OR TRAPPING OF ANIMALS (apiculture [A01K 47/00](#) to [A01K 59/00](#); fishing [A01K 69/00](#) to [A01K 97/00](#); pesticides [A01N](#));
APPARATUS FOR THE DESTRUCTION OF NOXIOUS ANIMALS OR NOXIOUS PLANTS (equipment fitted in or to aircraft for dropping or releasing powdered, liquid or gaseous matter, e.g. pesticides, herbicides, [B64D 1/16](#))

NOTE

in this subclass, terms "killing" and "destruction" cover "non-chemical sterilisation" of invertebrates

A01N

PRESERVATION OF BODIES OF HUMANS OR ANIMALS OR PLANTS OR PARTS THEREOF; BIOCIDES, e.g. AS DISINFECTANTS, AS PESTICIDES, AS HERBICIDES (preparations for medical, dental or toilet purposes [A61K](#); methods or apparatus for disinfection or sterilisation in general, or for deodorising of air [A61L](#)); **PEST REPELLANTS OR ATTRACTANTS** (decoys [A01M 1/06](#); medicinal preparations [A61K](#)); **PLANT GROWTH REGULATORS** (compounds in general [C01](#), [C07](#), [C08](#); fertilisers [C05](#); soil conditioners or stabilisers [C09K 17/00](#))

NOTE

1. This subclass covers:
 - compositions, physical forms, methods of application of specific materials or the use of single compounds or compositions
 - chemosterilants for the sexual sterilisation of invertebrates, e.g. insects (sex sterilants for other purposes [A61K](#)).
2. This subclass does not cover materials which affect the growth of a plant solely by supplying nutrients, i.e. plant food, ordinarily required for growth or materials which are used to prevent or cure mineral deficiencies in plants, e.g. addition of iron chelates to cure iron chlorosis, which materials are covered by class [C05](#).
3. In this subclass, the following expression is used with the meaning indicated:
 - "plant growth regulators" are those materials which alter the plant through a chemical modification of the plant metabolism, such as auxins.

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

A01N 43/824	covered by A01N 43/82
A01N 43/828	covered by A01N 43/82
A01N 43/832	covered by A01N 43/82
A01N 43/836	covered by A01N 43/82
A01N 53/02	covered by A01N 53/00
A01N 53/04	covered by A01N 53/00

A01N

(continued)

A01N 53/06	covered by A01N 53/00
A01N 53/08	covered by A01N 53/00
A01N 53/10	covered by A01N 53/00
A01N 53/12	covered by A01N 53/00
A01N 53/14	covered by A01N 53/00
A01N 55/10	covered by A01N 55/00

Foodstuffs; tobacco**A21 BAKING; EDIBLE DOUGHS**

A21B BAKERS` OVENS; MACHINES OR EQUIPMENT FOR BAKING
 (domestic baking equipment [A47J 37/00](#); combustion apparatus [F23](#); domestic stoves or ranges being wholly or partly ovens [F24B](#), [F24C](#))

A21C MACHINES OR EQUIPMENT FOR MAKING OR PROCESSING DOUGHS; HANDLING BAKED ARTICLES MADE FROM DOUGH

A21D TREATMENT, e.g. PRESERVATION, OF FLOUR OR DOUGH, e.g. BY ADDITION OF MATERIALS; BAKING; BAKERY PRODUCTS; PRESERVATION THEREOF

A22 BUTCHERING; MEAT TREATMENT; PROCESSING POULTRY OR FISH

A22B SLAUGHTERING

A22C PROCESSING MEAT, POULTRY, OR FISH (preserving [A23B](#); obtaining protein compositions for foodstuffs [A23J 1/00](#); fish, meat or poultry preparations [A23L](#); disintegrating, e.g. chopping meat, [B02C 18/00](#); preparation of proteins [C07K 1/00](#))

A23 FOODS OR FOODSTUFFS; THEIR TREATMENT, NOT COVERED BY OTHER CLASSES

NOTE

Attention is drawn to the following places:

[C08B](#) Polysaccharides, derivatives thereof

A23

(continued)

[C11](#) Animal or vegetable oils, fats, fatty substances or waxes

[C12](#) Biochemistry, beer, spirits, wine, vinegar

[C13](#) Sugar industry

A23B

PRESERVING, e.g. BY CANNING, MEAT, FISH, EGGS, FRUIT, VEGETABLES, EDIBLE SEEDS; CHEMICAL RIPENING OF FRUIT OR VEGETABLES; THE PRESERVED, RIPENED, OR CANNED PRODUCTS (preserving foodstuffs in general [A23L 3/00](#); preserving in general [A61L](#); applying food preservatives in packages [B65D 81/28](#))

A23C

DAIRY PRODUCTS, e.g. MILK, BUTTER, CHEESE; MILK OR CHEESE SUBSTITUTES; MAKING THEREOF (obtaining protein compositions for foodstuffs, {e.g. from milk} , [A23J 1/00](#); preparation of peptides, e.g. of proteins, in general [C07K 1/00](#))

NOTE

This subclass covers:

- the chemical aspects of making dairy products
- the apparatus used for performing techniques provided for therein, e.g. for concentration, evaporation, drying, preservation, or sterilisation, unless such apparatus is specifically provided for in another subclass, e.g. [A01J](#) for treatment of milk or cream for manufacture of butter or cheese.

A23D

EDIBLE OILS OF FATS, e.g. MARGARINES, SHORTENINGS, COOKING OILS (animal feeding-stuffs [A23K 1/00](#); foods or foodstuffs containing edible oils or fats [A21D](#), [A23C](#), [A23G](#), [A23L](#); obtaining, refining, preserving [C11B](#), [C11C](#); hydrogenation [C11C 3/12](#))

A23F

COFFEE; TEA; THEIR SUBSTITUTES; MANUFACTURE, PREPARATION, OR INFUSION THEREOF (coffee or tea pots [A47G 19/14](#); tea infusers [A47G 19/16](#); apparatus for making beverages, e.g. coffee or tea, [A47J 31/00](#); coffee mills [A47J 42/00](#))

A23G

COCOA; COCOA PRODUCTS, e.g. CHOCOLATE; SUBSTITUTES FOR COCOA OR COCOA PRODUCTS; CONFECTIONERY; CHEWING GUM; ICE-CREAM; PREPARATION THEREOF

NOTE

1. In this subclass, the following term is used with the meaning indicated:

A23G

(continued)

- "ice-cream" includes any edible frozen or congealed semi-liquid or pasty substance, e.g. slush ice
- 2. In this subclass, subject matter which cannot be completely classified in a single one of the main groups should be classified in each relevant main group
- 3. The classification symbols of groups:
[A23G 1/305](#), [A23G 1/56](#), [A23G 3/343](#), [A23G 3/346](#), [A23G 4/062](#), [A23G 9/322](#) and [A23G 9/52](#)
 can be followed by additional symbols preceded by the sign "+", e.g. [A23G 1/56](#) +D8. The symbols give further information concerning structure, composition or form and have the meaning as listed below:
 - D . . Containing organic compounds
 - D2 .. containing micro-organisms, enzymes
 - D4 .. containing vitamins, antibiotics
 - D6 .. containing beet sugar or cane sugar if specifically mentioned; containing other carbohydrates, e.g. starches, gums, alcohol sugar, polysaccharides, dextrins
 - D8 .. containing cocoa fat if specifically mentioned; containing products of cocoa fat; containing other fats, e.g. fatty acid, fatty alcohol, their esters, lecithin, paraffins
 - D10 .. containing amino-acids, proteins, e.g. gelatine, polypeptides
 - D12 .. containing dairy products
 - D14 .. containing fruits, nuts, e.g. almonds, seeds, plants or their extracts (gums D6)
 - F . . Containing inorganic compounds
 - H . . Products with special structure
 - H2 .. foamed, gas-expanded or cellular products
 - H4 .. products with a supported structure
 - H4D ... products with an inedible support, e.g. a stick
 - H4F ... products with an edible support, e.g. a cornet
 - H6 .. products with a composite structure, e.g. laminated products
 - H8 .. hollow products, e.g. with inedible or edible filling, fixed or movable within the cavity

A23J

PROTEIN COMPOSITIONS FOR FOODSTUFFS; WORKING-UP PROTEINS FOR FOODSTUFFS; PHOSPHATIDE COMPOSITIONS FOR FOODSTUFFS (fodder [A23K](#); protein compositions or phosphatide compositions for pharmaceuticals [A61K](#); phosphatides per se [C07F 9/10](#); proteins per se [C07K](#))

A23K**FODDER****WARNING**

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups are classified in the following CPC groups:

A23K 1/20	covered by	A23K 1/003
A23K 1/24	covered by	A23K 1/003 ,
A23K 1/1826		
A23K 3/04	covered by	A23K 1/143

A23L

FOODS, FOODSTUFFS, OR NON-ALCOHOLIC BEVERAGES, NOT COVERED BY SUBCLASSES [A23B](#) TO [A23J](#); THEIR PREPARATION OR TREATMENT, e.g. COOKING, MODIFICATION OF NUTRITIVE QUALITIES, PHYSICAL TREATMENT (shaping or working, not fully covered by this subclass, [A23P](#)); PRESERVATION OF FOODS OR FOODSTUFFS, IN GENERAL

A23N

MACHINES OR APPARATUS FOR TREATING HARVESTED FRUIT, VEGETABLES OR FLOWER BULBS IN BULK, NOT OTHERWISE PROVIDED FOR; PEELING VEGETABLES OR FRUIT IN BULK; APPARATUS FOR PREPARING ANIMAL FEEDING- STUFFS (machines for cutting straw or fodder [A01F 29/00](#); disintegrating, e.g. shredding, [B02C](#); severing, e.g. cutting, splitting, slicing [B26B](#), [B26D](#))

A23P

SHAPING OR WORKING OF FOODSTUFFS, NOT FULLY COVERED BY A SINGLE OTHER SUBCLASS (shaping substances in a plastic state in general [B29C](#))

NOTE

Attention is drawn to subclasses [A01J](#), [A21C](#), [A22C](#), [A47J](#), [B02C](#), in addition to other subclasses of [A23](#), in connection with the shaping or working of foodstuffs

A23V

INDEXING SCHEME RELATING TO FOODS, FOODSTUFFS OR NON-ALCOHOLIC BEVERAGES

NOTE

This subclass constitutes an internal scheme for indexing only.

A23Y INDEXING SCHEME RELATING TO LACTIC OR PROPIONIC ACID BACTERIA USED IN FOODSTUFFS OR FOOD PREPARATION

NOTE

This subclass constitutes an internal scheme for indexing only. The indexing codes of [A23Y](#) are used when classifying technical subjects in the food-related subclasses [A23B-A23L](#).

A24 TOBACCO; CIGARS; CIGARETTES; SMOKERS' REQUISITES

A24B MANUFACTURE OR PREPARATION OF TOBACCO FOR SMOKING OR CHEWING; TOBACCO; SNUFF

A24C MACHINES FOR MAKING CIGARS OR CIGARETTES

A24D CIGARS; CIGARETTES; TOBACCO SMOKE FILTERS; MOUTHPIECES FOR CIGARS OR CIGARETTES; MANUFACTURE OF TOBACCO SMOKE FILTERS OR MOUTHPIECES

A24F SMOKERS' REQUISITES; MATCH BOXES ([lighters F23Q](#))

Personal or domestic articles

A41 WEARING APPAREL

A41B SHIRTS; UNDERWEAR; BABY LINEN; HANDKERCHIEFS

A41C CORSETS; BRASSIERES

A41D OUTERWEAR; PROTECTIVE GARMENTS; ACCESSORIES ([eye or ear protectors A61F 9/00](#), [A61F 11/00](#); [sweating suits A61H 36/00](#))

NOTE

In this subclass, the following term is used with the meaning indicated:

A41D

(continued)

– "outerwear" covers dressing-gowns, bathing costumes and pyjamas

A41F

GARMENT FASTENINGS; SUSPENDERS

A41G

ARTIFICIAL FLOWERS; WIGS; MASKS; FEATHERS

A41H

APPLIANCES OR METHODS FOR MAKING CLOTHES, e.g. FOR DRESS-MAKING, FOR TAILORING, NOT OTHERWISE PROVIDED FOR (machines, appliances, or methods for making particular articles of apparel, see the relevant groups for these articles in A41B to A41F; cutting tools or machines in general B26; weaving, braiding, lace-making, knitting, tufting, treating of textiles D03 to D06; sewing-machines, sewing appliances, seam-ripping devices D05B; cutting or otherwise severing textile materials D06H 7/00)

A42

HEADWEAR

A42B

HATS; HEAD COVERINGS (headbands, head-scarves A41D 20/00, A41D 23/00)

A42C

MANUFACTURING OR TRIMMING HATS OR OTHER HEAD COVERINGS

A43

FOOTWEAR

A43B

CHARACTERISTIC FEATURES OF FOOTWEAR; PARTS OF FOOTWEAR**WARNING**

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

- [A43B 21/10](#)–[A43B 21/16](#) covered by [A43B 21/06](#)
- [A43B 21/34](#) covered by [A43B 21/24](#)

A43C

FASTENINGS OR ATTACHMENTS OF FOOTWEAR; LACES IN GENERAL

A45B

WALKING STICKS; UMBRELLAS; LADIES` OR LIKE FANS (cane or umbrella stands or holders [A47G 25/12](#))

NOTE

In this subclass, the following term is used with the meaning indicated:

- "umbrellas" also covers sunshades similar in construction to umbrellas

A45C

PURSES; LUGGAGE; HAND CARRIED BAGS (sacks or packs carried on the body [A45F](#) containers in general [B65D](#), e.g. portable flexible containers, [B65D 27/00](#) to [B65D 37/00](#); making leather, canvas, or like articles [B68F](#))

NOTE

1. In this subclass, the following term is used with the meaning indicated:

- "luggage" means containers for personal belongings for a journey, e.g. travelling bags, suitcases, trunks.

2. In this subclass, the following terms are used with the meaning indicated:

- "flexible" means providing a structure with no considerable resistance against deformation or decrease of the enclosed volume, whereby a two-dimensional stability may be provided, e.g. by a stiffened bottom
- "semi-rigid" means providing a structure with three-dimensional stability in an unloaded state and resilient resistance against deformation, or allowing a limited decrease, of the enclosed volume, e.g. by a resilient frame or a rigid frame with flexible side walls
- "rigid" means providing a structure with three-dimensional stability allowing no deformation leading to a considerable decrease of the enclosed volume
- "collapsible" means providing a feature other than use of flexible material for reducing the dimensions of flexible luggage or the enclosed volume of semi-rigid or rigid luggage
- "extensible" means providing a feature other than use of flexible material for increasing the enclosed volume of flexible, semi-rigid or rigid luggage

A45D

HAIRDRESSING OR SHAVING EQUIPMENT; MANICURING OR OTHER COSMETIC TREATMENT (wigs, toupees, or the like [A41G 3/00](#), [A41G 5/00](#); hairdressers` chairs [A47C 1/04](#); hair cutting appliances, razors [B26B](#))

WARNING

The following IPC groups are not used not used in the CPC scheme. Subject matter covered by this group is classified in the corresponding CPC groups as it follows: - [A45D 97/00](#) covered by [A45D 44/00](#)

A45F **TRAVELLING OR CAMP EQUIPMENT; SACKS OR PACKS CARRIED ON THE BODY** (hand carried bags or luggage [A45C](#))

NOTE

This subclass covers only the equipment specified in its subdivisions. Travelling or camp equipment is normally classified in the classes for the equipment concerned, e.g. camp furniture [A47](#).

A46 **BRUSHWARE**

A46B **BRUSHES** (handles not integral with brushware [B25G](#))

WARNING

The following IPC groups are not used in the classification scheme. Subject matter covered by these groups is classified in the following groups:

[A46B 11/02](#) covered by [A46B 11/00](#) or [A46B 11/0017](#) or [A46B 11/0017](#) or [A46B 11/002](#)

[A46B 11/04](#) covered by [A46B 11/00](#) or [A46B 11/0013](#)

A46D **MANUFACTURE OF BRUSHES**

A47 **FURNITURE** (arrangements of seats for, or adaptations of seats to, vehicles [B60N](#)); **DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL** (ladders [E06C](#))

NOTE

In this subclass, the following term is used with the meaning indicated:

- "furniture" covers also easels or stands, e.g. for blackboards or drawing tables.

A47B **TABLES; DESKS; OFFICE FURNITURE; CABINETS; DRAWERS; GENERAL DETAILS OF FURNITURE** (furniture jointing [F16B](#))

NOTE

In this subclass, the following terms are used with the meanings indicated:

- "tables" covers also tables or underframes therefor for other than domestic use;

A47B

(continued)

– "cabinets" or "racks" covers also cabinets or racks for storage in general.

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups are classified in the following CPC groups:

[A47B 21/013](#) and subgroups are covered by [A47B 21/00](#) and subgroups

A47C

CHAIRS (seats specially adapted for vehicles [B60N 2/00](#); {hunting stands, e.g. hunting seats [A01M 31/02](#); seats adapted for angling, e.g. fisherman's seats [A01K 97/22](#); bath seats [A47K 3/12](#); shower seats [A47K 3/282](#); chairs with toilet means [A47K 11/04](#); seats for surgeons, dentists [A61B 19/28](#); chairs for disabled persons [A61G 5/00](#); operating chairs, dental chairs, physiotherapeutic chairs, gynaecological chairs [A61G 15/00](#); chairs with massage means [A61H 2201/0149](#); ski-lift seats [B61B 12/002](#); rail vehicles seats [B61D 33/00](#); vessel furniture, e.g. boat seats [B63B 29/04](#); aircraft seats [B64D 11/06](#)}); **SOFAS; BEDS** (upholstery in general [B68G](#); {beds specially adapted for nursing [A61G 7/00](#); sleeping accommodation for caravans [B60P 3/38](#), sleeping accommodation for rail vehicles [B61D 31/00](#); sleeping accommodation for load-carrying vehicles [B62D 33/0612](#); berths for vessels [B63B 29/10](#)})

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A47C 1/038](#) covered by [A47C 1/0355](#)

[A47C 23/053](#) covered by [A47C 23/05](#), [A47C 23/0507](#),
[A47C 23/0515](#)

A47D

FURNITURE SPECIALLY ADAPTED FOR CHILDREN (school benches or desks [A47B 39/00](#), [A47B 41/00](#))

A47F

SPECIAL FURNITURE, FITTINGS, OR ACCESSORIES FOR SHOPS, STOREHOUSES, BARS, RESTAURANTS OR THE LIKE; PAYING COUNTERS

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A47F 1/14](#) covered by [A47B 87/0207](#)

[A47F 1/16](#) covered by [A47F 5/0037](#)

[A47F 1/18](#) covered by [A47F 5/0025](#)

[A47F 3/022](#) covered by [A47F 1/06](#)

[A47F 3/024](#) covered by [A47F 1/08](#)

A47F

(continued)

[A47F 3/026](#) covered by [A47F 1/10](#)**A47G****HOUSEHOLD OR TABLE EQUIPMENT** (book-ends [A47B 5/00](#); knives [B26B](#))**NOTE**

This subclass covers equipment for similar use in hotels, dressing rooms, vehicles, or the like, not otherwise provided for

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A47G 25/42](#) covered by [A47G 25/40](#), [A47G 2025/4092](#)

[A47G 25/46](#) covered by [A47G 25/44](#), [A47G 2025/448](#)

[A47G 25/64](#) covered by [A47G 25/62](#), [A47G 2025/629](#)

A47H**FURNISHINGS FOR WINDOWS OR DOORS** (concerned with the functioning of the door or window [E05](#); roller blinds [E06B](#))**WARNING**

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A47H 13/10](#) covered by [A47H 15/02](#)

[A47H 13/12](#) covered by [A47H 15/04](#)

A47J**KITCHEN EQUIPMENT** {(domestic washing or cleaning [A47L](#); refuse receptacles [B65F 1/00](#))}; **COFFEE MILLS; SPICE MILLS; APPARATUS FOR MAKING BEVERAGES** (disintegrating, e.g. mincing, [B02C](#); severing, e.g. cutting, slicing, [B26B](#), [B26D](#))**A47K****SANITARY EQUIPMENT NOT OTHERWISE PROVIDED FOR** (connecting to water supply or waste pipe, sinks [E03C](#); water-closets [E03D](#)); **TOILET ACCESSORIES** (cosmetic equipment [A45D](#))**A47L****DOMESTIC WASHING OR CLEANING** (brushes [A46B](#); cleaning quantities of bottles or of other hollow articles of one kind [B08B 9/00](#); laundry [D06F](#)); **SUCTION CLEANERS IN GENERAL** (cleaning in general [B08](#))**NOTE**

A47L

(continued)

Machines or implements which can be used for cleaning windows, window shades, window screens, venetian blinds, as well as floors, carpets, furniture, walls or wall coverings are classified in group [A47L 11/00](#) or [A47L 13/00](#).

Health; amusement

A61

MEDICAL OR VETERINARY SCIENCE; HYGIENE

A61B

DIAGNOSIS; SURGERY; IDENTIFICATION (analysing biological material [G01N](#), e.g. [G01N 33/48](#); obtaining records using waves other than optical waves, in general [G03B 42/00](#))

NOTE

This subclass covers instruments, implements and processes for diagnostic, surgical and person-identification purposes, including obstetrics, instruments for cutting corns, vaccination instruments, finger-printing, psycho-physical tests.

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

A61B 5/0295	covered by	A61B 5/026	
A61B 5/151	covered by	A61B 5/1411	
A61B 5/153	covered by	A61B 5/1405	
A61B 5/154	covered by	A61B 5/1438	
A61B 5/157	covered by	A61B 5/00	and s. gr.
A61B 17/03	covered by	A61B 17/00	
A61B 17/125	covered by	A61B 17/122	
A61B 17/138	covered by	A61B 17/12	
A61B 17/76	covered by	A61B 17/744	
A61B 17/78	covered by	A61B 17/744	
A61B 17/90	covered by	A61B 17/88	
A61B 17/94	covered by	A61B 17/29	

A61C

DENTISTRY; APPARATUS OR METHODS FOR ORAL OR DENTAL HYGIENE (non-driven toothbrushes [A46B](#); {tongue scrapers [A61B 17/24](#);} preparations for dentistry [A61K 6/00](#); preparations for cleaning the teeth or mouth [A61K 8/00](#), [A61Q 11/00](#))

WARNING

A61C

(continued)

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

A61C 5/09	covered by	A61C 5/08
A61C 5/11	covered by	A61C 5/08
A61C 7/24	covered by	A61C 7/20
A61C 7/26	covered by	A61C 7/20
A61C 7/32	covered by	A61C 7/28
A61C 8/02	covered by	A61C 8/0004
A61C 11/04	covered by	A61C 11/00
A61C 13/003	covered by	A61C 13/26
A61C 13/007	covered by	A61C 13/01
A61C 13/03	covered by	A61C 13/01
A61C 13/07	covered by	A61C 13/0025
A61C 13/093	covered by	A61C 13/1006
A61C 13/103	covered by	A61C 13/1009
A61C 13/105	covered by	A61C 13/1009
A61C 13/107	covered by	A61C 13/0001
A61C 13/113	covered by	A61C 13/0001
A61C 13/15	covered by	A61C 19/003
A61C 13/23	covered by	A61C 13/0025
A61C 13/263	covered by	A61C 13/225
A61C 13/271	covered by	A61C 13/26
A61C 13/32	covered by	A61C 13/225
A61C 13/36	covered by	A61C 13/1016
A61C 13/38	covered by	A61C 13/12
A61C 17/024	covered by	A61C 17/02
A61C 17/032	covered by	A61C 17/02
A61C 17/06	covered by	A61C 17/00
A61C 17/08	covered by	A61C 17/00
A61C 17/10	covered by	A61C 17/00
A61C 17/12	covered by	A61C 17/00
A61C 17/18	covered by	A61C 17/16

A61D**VETERINARY INSTRUMENTS, IMPLEMENTS, TOOLS, OR METHODS****NOTE**

This subclass covers only instruments, implements, tools, or methods specially adapted for use with animals

A61F

FILTERS IMPLANTABLE INTO BLOOD VESSELS; PROSTHESES; DEVICES PROVIDING PATENCY TO, OR PREVENTING COLLAPSING OF, TUBULAR STRUCTURES OF THE BODY, E.G. STENTS; ORTHOPAEDIC, NURSING OR CONTRACEPTIVE DEVICES; FOMENTATION; TREATMENT OR PROTECTION OF EYES OR EARS; BANDAGES, DRESSINGS OR ABSORBENT PADS; FIRST-AID KITS (dental prosthetics [A61C](#))

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A61F 2/48](#) covered by [A61F 2/02](#)
[A61F 2/56](#) covered by [A61F 2/54](#)
[A61F 2/62](#) covered by [A61F 2/60](#)
[A61F 2/70](#) covered by [A61F 2/68](#), [A61F 2/72](#)
[A61F 2/74](#) covered by [A61F 2/68](#)
[A61F 5/045](#) covered by [A61G 13/12](#)
[A61F 5/052](#) covered by [A61F 5/05](#)
[A61F 5/447](#) covered by [A61F 5/445](#)
[A61F 5/452](#) covered by [A61F 5/451](#)
[A61F 5/457](#) covered by [A61F 5/451](#)
[A61F 5/458](#) covered by [A61F 5/451](#)
[A61F 6/10](#) covered by [A61F 6/08](#)
[A61F 9/01](#) covered by [A61F 9/00802-A61F 9/00825](#)
[A61F 9/011](#) covered by [A61F 9/00802-A61F 9/00825](#)
[A61F 13/22](#) covered by [A61F 13/206](#)
[A61F 13/24](#) covered by [A61F 13/2037](#)
[A61F 13/30](#) covered by [A61F 13/26](#)
[A61F 13/32](#) covered by [A61F 13/26](#)
[A61F 13/40](#) covered by [A61M 35/006](#)

A61G

TRANSPORT OR ACCOMODATION FOR PATIENTS; OPERATING TABLES OR CHAIRS; CHAIRS FOR DENTISTRY; FUNERAL DEVICES (embalming corpses [A01N 1/00](#); {chairs or beds in general [A47C](#); walking aids [A61H 3/00](#)})

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A61G 3/04](#) covered by [A61G 3/02](#)
[A61G 7/043](#) covered by [A61G 7/05](#)
[A61G 7/12](#) covered by [A61G 7/10](#)
[A61G 7/14](#) covered by [A61G 7/10](#)

A61G

(continued)

A61G 7/16	covered by	A61G 7/10
A61G 15/04	covered by	A61G 15/02
A61G 15/06	covered by	A61G 15/02
A61G 17/013	covered by	A61G 17/00

A61H

PHYSICAL THERAPY APPARATUS, e.g. DEVICES FOR LOCATING OR STIMULATING REFLEX POINTS IN THE BODY; ARTIFICIAL RESPIRATION; MASSAGE; BATHING DEVICES FOR SPECIAL THERAPEUTIC OR HYGIENIC PURPOSES OR SPECIFIC PARTS OF THE BODY (methods or devices enabling invalids to operate an apparatus or a device not forming part of the body [A61F 4/00](#); electrotherapy, magnetotherapy, radiation therapy, ultrasound therapy [A61N](#))

NOTE

In this subclass, the following expression is used with the meaning indicated:

- "physical therapy" covers the treatment of disease or disability by means, e.g. mechanical means, as opposed to drugs or surgery. It includes, by way of example, massage, whirlpool baths or devices for exercising a passive body member.

A61J

CONTAINERS SPECIALLY ADAPTED FOR MEDICAL OR PHARMACEUTICAL PURPOSES; DEVICES OR METHODS SPECIALLY ADAPTED FOR BRINGING PHARMACEUTICAL PRODUCTS INTO PARTICULAR PHYSICAL OR ADMINISTERING FORMS; DEVICES FOR ADMINISTERING FOOD OR MEDICINES ORALLY; BABY COMFORTERS; DEVICES FOR RECEIVING SPITTLE

A61K

PREPARATIONS FOR MEDICAL, DENTAL, OR TOILET PURPOSES (devices or methods specially adapted for bringing pharmaceutical products into particular physical or administering forms [A61J 3/00](#); chemical aspects of, or use of materials for deodorisation of air, for disinfection or sterilisation, or for bandages, dressings, absorbent pads or surgical articles [A61L](#); {compounds per se [C01](#), [C07](#), [C08](#), [C12N](#)} ; soap compositions [C11D](#); {micro-organisms per se [C12N](#)})

NOTE

1. This subclass covers the following subject matter, whether set forth as a composition (mixture), process of preparing the composition or process of treating using the composition:
 - a. Drug or other biological compositions which are capable of:
 - preventing, alleviating, treating or curing abnormal or pathological conditions of the living body by such means as destroying a parasitic organism, or limiting the effect of the disease or abnormality by

A61K

(continued)

chemically altering the physiology of the host or parasite (biocides [A01N 25/00](#) to [A01N 65/00](#));

- maintaining, increasing, decreasing, limiting, or destroying a physiological body function, e.g. vitamin compositions, sex sterilants, fertility inhibitors, growth promoters, or the like (sex sterilants for invertebrates, e.g. insects, [A01N](#); plant growth regulators [A01N 25/00](#) to [A01N 65/00](#));
- diagnosing a physiological condition or state by an in vivo test, e.g. X-ray contrast or skin patch test compositions (measuring or testing processes involving enzymes or micro-organisms [C12Q](#); in vitro testing of biological material, e.g. blood, urine, [G01N](#), e.g. [G01N 33/48](#))

b. Body treating compositions generally intended for deodorising, protecting, adorning or grooming the body, e.g. cosmetics, dentifrices, tooth filling materials.

2. Attention is drawn to the definitions of groups of chemical elements following the title of section C.
3. Attention is drawn to the notes in class [C07](#), for example the notes following the title of the subclass [C07D](#), setting forth the rules for classifying organic compounds in that class, which rules are also applicable, if not otherwise indicated, to the classification of organic compounds in [A61K](#).
4. In this subclass, with the exception of group [A61K 8/00](#), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

WARNING

1. The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

A61K 9/133	covered by	A61K 9/127
A61K 9/18	covered by	A61K 9/14
A61K 9/22	covered by	A61K 9/20
A61K 9/24	covered by	A61K 9/209
A61K 9/26	covered by	A61K 9/2077 ,
A61K 9/2081		
A61K 9/30	covered by	A61K 9/28
A61K 9/32	covered by	A61K 9/28
A61K 9/34	covered by	A61K 9/28
A61K 9/36	covered by	A61K 9/28
A61K 9/38	covered by	A61K 9/28
A61K 9/40	covered by	A61K 9/28
A61K 9/42	covered by	A61K 9/28
A61K 9/44	covered by	A61K 9/2072
A61K 9/46	covered by	A61K 9/0007
A61K 9/52	covered by	A61K 9/50
A61K 9/54	covered by	A61K 9/5073 ,
A61K 9/5078 ,	A61K 9/5084	
A61K 9/56	covered by	A61K 9/50
A61K 9/58	covered by	A61K 9/50

A61K

(continued)

A61K 9/60	covered by	A61K 9/50
A61K 9/62	covered by	A61K 9/50
A61K 9/64	covered by	A61K 9/50
A61K 9/66	covered by	A61K 9/48
A61K 9/68	covered by	A61K 9/0058
A61K 9/72	covered by	A61K 9/0073
A61K 45/08	covered by	A61K 31/00 ,
A61K 47/00		
A61K 47/04	covered by	A61K 47/02
A61K 50/00	covered by	A61K 9/0009 ,
C09J 9/02		

The following IPC indexing codes are not used in the CPC scheme:

[A61K 101/00](#) - [A61K 135/00](#)

- Subgroups of [A61K 48/00](#) are incomplete (Jan. 2003). Documents are being reclassified from [A61K 48/00](#) to its subgroups

A61L

METHODS OR APPARATUS FOR STERILISING MATERIALS OR OBJECTS IN GENERAL; DISINFECTION, STERILISATION, OR DEODORISATION OF AIR; CHEMICAL ASPECTS OF BANDAGES, DRESSINGS, ABSORBENT PADS, OR SURGICAL ARTICLES; MATERIALS FOR BANDAGES, DRESSINGS, ABSORBENT PADS, OR SURGICAL ARTICLES (preservation of bodies or disinfecting characterised by the agent employed [A01N](#); preserving, e.g. sterilising, food or foodstuffs [A23](#); preparations for medical, dental or toilet purposes [A61K](#); preparation of ozone [C01B 13/10](#))

WARNING

- The following IPC groups are not used in the CPC system. Subject matter covered by these groups is classified in the following CPC groups:

A61L 33/10	covered by	A61L 33/0011
A61L 33/14	covered by	A61L 33/0011
A61L 33/16	covered by	A61L 33/0047
- IPC7 groups [A61L 2/07](#) and subgroups, and [A61L 9/012](#) to [A61L 9/014](#) might be incomplete as relevant documents might still be classified in the hierarchical higher groups

A61M

DEVICES FOR INTRODUCING MEDIA INTO, OR ONTO, THE BODY (introducing media into or onto the bodies of animals [A61D 7/00](#); means for inserting tampons [A61F 13/26](#); devices for administering food or medicines orally [A61J](#); containers for collecting, storing or administering blood or medical fluids [A61J 1/05](#)); **DEVICES FOR TRANSDUCING BODY MEDIA OR FOR TAKING MEDIA FROM THE BODY** (surgery [A61B](#); chemical aspects of surgical articles [A61L](#)); **DEVICES FOR PRODUCING OR ENDING SLEEP OR STUPOR**

NOTE

This subclass covers suction, pumping or atomising devices for medical use (e.g. cups, breast relievers, irrigators, sprays, powder insufflators, atomisers, inhalers), apparatus for general or local anaesthetics, devices or methods for causing a change in the state of consciousness, catheters, dilators, apparatus for introducing medicines into the body other than orally

Void

When classifying in this group, classification is also made in group [B01D 15/08](#) insofar as subject matter of general interest relating to chromatography is concerned

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A61M 1/18](#) covered by [B01D 63/02](#), [B01D 63/04](#)

[A61M 1/20](#) covered by [B01D 63/06](#)

[A61M 1/22](#) covered by [B01D 63/08](#)

[A61M 1/24](#) covered by [B01D 63/10](#)

[A61M 3/04](#) covered by [A61M 3/02](#)

[A61M 5/175](#) covered by [A61M 5/168](#)

[A61M 5/303](#) covered by [A61M 5/30](#)

[A61M 5/307](#) covered by [A61M 5/30](#)

[A61M 23/00](#) covered by [A61M 25/01](#), [A61M 29/00](#)

[A61M 25/08](#) covered by [A61M 25/0105](#)

[A61M 25/082](#) covered by [A61M 25/0116](#)

[A61M 25/085](#) covered by [A61M 25/0122](#)

[A61M 25/088](#) covered by [A61M 25/01](#)

[A61M 25/092](#) covered by [A61M 25/0133](#)

[A61M 25/095](#) covered by [A61M 25/01](#), [A61B 5/00](#), [A61N 1/056](#)

[A61M 25/098](#) covered by [A61M 25/0108](#)

[A61M 25/12](#) covered by [A61M 25/10](#), [A61M 29/02](#)

[A61M 25/14](#) covered by [A61M 25/0021](#)

[A61M 25/16](#) covered by [A61M 25/0009](#)

[A61M 25/18](#) covered by [A61M 25/0014](#)

[A61M 29/04](#) covered by [A61M 29/02](#)

A61M

(continued)

[A61M 36/00](#) covered by [A61M 37/0069](#), [A61N 5/10](#)
[A61M 36/02](#) covered by [A61M 37/0069](#), [A61N 5/10](#)
[A61M 36/04](#) covered by [A61M 37/0069](#), [A61N 5/10](#), [A61M 15/02](#)
[A61M 36/06](#) covered by [A61M 37/0069](#), [A61N 5/10](#); [A61M 15/02](#)
[A61M 36/08](#) covered by [A61M 5/1785](#)
[A61M 36/10](#) covered by [A61M 37/0069](#), [A61N 5/10](#)
[A61M 36/12](#) covered by [A61M 37/0069](#), [A61N 5/10](#)
[A61M 36/14](#) covered by [A61M 37/0069](#), [A61N 5/10](#)

A61N
ELECTROTHERAPY; MAGNETOTHERAPY; RADIATION THERAPY; ULTRASOUND THERAPY

(measurement of bioelectric currents [A61B](#); surgical instruments, devices or methods for transferring non-mechanical forms of energy to or from the body [A61B 18/00](#); anaesthetic apparatus in general [A61M](#); incandescent lamps [H01K](#); infra-red radiators for heating [H05B](#))

NOTE

In this subclass, the following term is used with the meaning indicated: In this subclass, the following term is used with the meaning indicated:

- "therapy" implies that the treatment, when it aims at destroying sick or abnormal cells, is performed within the limits of healthy cell life, the destruction thereof being undesired, contrary to that which takes place with instruments, devices or methods covered by group [A61B 18/00](#).

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A61N 1/34](#) covered by [A61N 1/36021](#), [A61N 1/36071](#)
[A61N 2/04](#) covered by [A61N 2/02](#)
[A61N 5/067](#) covered by [A61N 5/06](#)
[A61N 5/08](#) covered by [A61N 5/06](#)
[A61N 2/08](#) covered by [A61N 2/06](#)
[A61N 2/10](#) covered by [A61N 2/06](#)
[A61N 5/073](#) covered by [A61N 5/06](#), [A61N 2005/073](#)

A61Q
SPECIFIC USE OF COSMETICS OR SIMILAR TOILET PREPARATIONS
NOTE

1. This subclass covers the use of cosmetics or similar toilet preparations already classified as such in main group [A61K 8/00](#) or in addition thereto in subclasses [C11D](#) and [C12N](#) or in classes [C01](#), [C07](#) and [C08](#).

A61Q

(continued)

2. Since subclass **A61P** is not activated in ECLA, relevant IPC Note (2) is not applicable.

WARNING

The groups of subclass [A61Q](#) are incomplete. See provisionally also **A61K7/00** and subgroups

A62**LIFE-SAVING; FIRE-FIGHTING** (ladders [E06C](#))**A62B**

DEVICES, APPARATUS OR METHODS FOR LIFE-SAVING (valves specially adapted for medical use [A61M 39/00](#); life-saving devices, apparatus or methods specially adapted for use in water [B63C 9/00](#); divers' equipment [B63C 11/00](#); specially adopted for use with aircraft, e.g. parachutes, ejector seats, {[B64D 17/00](#), [B64D 25/10](#)}; rescue devices peculiar to mining [E21F 11/00](#))

A62C

FIRE-FIGHTING (fire-extinguishing compositions, use of chemical substances in extinguishing fires [A62D 1/00](#); spraying, applying liquids or other fluent materials to surfaces in general [B05](#); alarm arrangements [G08B](#), e.g. fire alarms actuated by smoke or gases [G08B 17/10](#))

A62D**CHEMICAL MEANS FOR EXTINGUISHING FIRES OR FOR COMBATING OR PROTECTING AGAINST HARMFUL CHEMICAL AGENTS; CHEMICAL MATERIALS FOR USE IN BREATHING APPARATUS****WARNING**

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A62D 1/02](#) covered by [A62D 1/0007](#), [A62D 1/0071](#)

[A62D 1/04](#) covered by [A62D 1/0071](#)

[A62D 1/08](#) covered by [A62D 1/0007](#) to [A62D 1/0028](#), [A62D 1/0057](#), [A62D 1/0092](#)

A63**SPORTS; GAMES; AMUSEMENTS****A63B**

APPARATUS FOR PHYSICAL TRAINING, GYMNASTICS, SWIMMING, CLIMBING, OR FENCING; BALL GAMES; TRAINING EQUIPMENT (apparatus for passive exercising, massage [A61H](#))

WARNING

A63B

(continued)

The following IPC groups are not used in the internal classification scheme. Subject matter covered by these groups is classified in the following CPC groups:

A63B 7/06	covered by	A63G 1/00	
A63B 21/075	covered by	A63B 21/072	
A63B 21/08	covered by	A63B 21/06	
A63B 22/08	covered by	A63B 22/0605	in
absence of	A63B 22/0002		
A63B 22/10	covered by	A63B 22/0605	in
combination with	A63B 22/0002		
A63B 22/12	covered by	A63B 22/0605	in
combination with	A63B 22/001		
A63B 29/04	covered by	A63B 29/00	
A63B 31/16	covered by	A63B 31/14	
A63B 49/06	covered by	A63B 49/02	
A63B 51/16	covered by	A63B 51/14	
A63B 55/06	covered by	A63B 55/04	
A63B 63/02	covered by	A63B 63/00	
A63B 63/04	covered by	A63B 63/00	
A63B 69/22	covered by	A63B 69/20	
A63B 69/28	covered by	A63B 69/20	
A63B 69/30	covered by	A63B 69/20	
A63B 71/16	covered by	A63B 71/081	

A63C

SKATES; SKIS; ROLLER SKATES; DESIGN OR LAYOUT OF COURTS, RINKS OR THE LIKE (devices for underwater sports

[A63B 31/00](#), [A63B 33/00](#), [B63C 11/00](#); devices for gliding on water, e.g. water skis, [B63B 35/79](#), [B63B 35/81](#), [B63B 35/83](#))

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

A63C 5/025	covered by	A63C 5/00
A63C 5/14	covered by	A63C 5/12

A63D

BOWLING-ALLEYS; BOWLING GAMES; BOCCIA; BOWLS; BAGATELLE; BILLIARDS (balls [A63B](#); indoor games using small moving playing bodies, e.g. balls, [A63F 7/00](#))

A63F

CARD, BOARD, OR ROULETTE GAMES; INDOOR GAMES USING SMALL MOVING PLAYING BODIES; VIDEO GAMES; GAMES NOT OTHERWISE PROVIDED FOR

A63G **MERRY-GO-ROUNDS; SWINGS; ROCKING-HORSES; CHUTES; SWITCHBACKS; SIMILAR DEVICES FOR PUBLIC AMUSEMENT**

A63H **TOYS, e.g. TOPS, DOLLS, HOOPS, BUILDING BLOCKS**

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

A63H 3/33	covered by	A63H 3/28
A63H 17/267	covered by	A63H 17/262
A63H 17/273	covered by	A63H 17/26
A63H 17/385	covered by	A63H 17/36
A63H 17/39	covered by	A63H 17/36
A63H 17/41	covered by	A63H 17/40
A63H 25/00	covered by	A63H 29/16 , A63H 31/00
A63H 25/02	covered by	A63H 29/16 , A63H 31/00
A63H 27/01	covered by	A63H 27/007
A63H 27/127	covered by	A63H 27/12
A63H 27/133	covered by	A63H 27/12
A63H 27/16	covered by	A63H 27/001 , A63H 31/16
A63H 27/18	covered by	A63H 27/00 , A63H 27/02
A63H 27/20	covered by	A63H 27/00
A63H 27/22	covered by	A63H 27/00 , A63H 29/18
A63H 27/24	covered by	A63H 27/02 , A63H 29/00 ,
A63H 29/22		
A63H 27/26	covered by	A63H 27/06
A63H 27/28	covered by	A63H 27/008
A63H 27/30	covered by	A63H 27/02
A63H 27/32	covered by	A63H 27/00

A63J **DEVICES FOR THEATRES, CIRCUSES, OR THE LIKE; CONJURING APPLIANCES OR THE LIKE** (buildings for meetings, entertainments or sports [E04H 3/10](#))

A63K **RACING; RIDING SPORTS; EQUIPMENT OR ACCESSORIES THEREFOR** (stop watches [G04F 7/06](#); timing [G07C 1/22](#); indicating arrangements for variable information by selection or combination of individual elements [G09F 9/00](#))