

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 in the CPC scheme. The subject matter for these IPC 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](#) - [A01B 75/00](#); {apparatus for spreading sand or salt [E01C](#); sowing and fertilising with aircraft [B64D 1/16](#) - [B64D 1/20](#)})

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

NOTES

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 in the CPC scheme. The subject matter for these IPC 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](#) - [A01K 59/00](#); fishing [A01K 69/00](#) - [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](#))

NOTES

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 in the CPC scheme. The subject matter for these IPC 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 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](#)
[C11](#)
[C12](#)
[C13](#)

Polysaccharides, derivatives thereof
 Animal or vegetable oils, fats, fatty substances or waxes
 Biochemistry, beer, spirits, wine, vinegar
 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 10/00](#)-[A23K 20/30](#), [A23K 30/00](#)-[A23K 50/90](#); 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

NOTES

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

A23L FOODS, FOODSTUFFS, OR NON-ALCOHOLIC BEVERAGES, NOT COVERED BY SUBCLASSES [A23B](#) - [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**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:

- "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 - A41F](#); cutting tools or machines in general [B26](#); weaving, braiding, lace-making, knitting, tufting, treating of textiles [D03 - 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 in the CPC scheme. The subject matter for these IPC 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**

A43D **MACHINES, TOOLS, EQUIPMENT OR METHODS FOR MANUFACTURING OR REPAIRING FOOTWEAR**

NOTE

In this subclass, a method of manufacturing footwear which is dependent on a distinct machine or tool, is classified in the group covering the machine or tool for the manufacture.

A44 **HABERDASHERY; JEWELLERY**

A44B **BUTTONS, PINS, BUCKLES, SLIDE FASTENERS, OR THE LIKE** (fastenings specially adapted for footwear [A43C](#))

NOTE

This subclass [covers](#) buckles or slide fasteners whether used as haberdashery or otherwise.

WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

[A44B 1/16](#)

covered by

[A44B 1/14](#)

A44C **JEWELLERY; BRACELETS; OTHER PERSONAL ADORNMENTS; COINS** (jewel boxes [A45C 11/16](#))

WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

[A44C 11/02](#)

covered by

[A44C 5/18](#)

A44D INDEXING SCHEME RELATING TO BUTTONS, PINS, BUCKLES OR SLIDE FASTENERS, AND TO JEWELLERY, BRACELETS OR OTHER PERSONAL ADORNMENTS

NOTE

This subclass constitutes an internal scheme for indexing only.

A45 HAND OR TRAVELLING ARTICLES

A45B WALKING STICKS (walking aids, e.g. sticks, for blind persons [A61H 3/06](#)); 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](#) - [B65D 37/00](#); making leather, canvas, or like articles [B68F](#))

NOTES

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 in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

[A45D 97/00](#)

covered by

[A45D 44/00](#)

A45F TRAVELLING OR CAMP EQUIPMENT: SACKS OR PACKS CARRIED ON THE BODY

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 in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

[A46B 11/02](#)

covered by

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

A46B
(continued) [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;
- "cabinets" or "racks" covers also cabinets or racks for storage in general.

WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is 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](#)); SOFAS; BEDS (upholstery in general [B68G](#))

WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

[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 in the CPC scheme. The subject matter for these IPC 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 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 in the CPC scheme. The subject matter for these IPC 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
A47G 29/02	covered by	A47B 97/001

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 in the CPC scheme. The subject matter for these IPC 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

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 in the CPC scheme. The subject matter for these IPC 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

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

A61C 7/24	covered by	A61C 7/20
A61C 7/26	covered by	A61C 7/20

A61C (continued)	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 in the CPC scheme. The subject matter for these IPC 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 in the CPC scheme. The subject matter for these IPC 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 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 (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](#) {; microorganisms per se [C12N](#)})

NOTES

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 chemically altering the physiology of the host or parasite (biocides [A01N 25/00](#) - [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](#) - [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 microorganisms [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.

A61K
(continued)

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC 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 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 39/108	covered by	
A61K 39/112	covered by	
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](#)

2. 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](#))

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC 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
A61L 101/00-A61L 101/56	covered by	

2. IPC7 groups [A61L 2/07](#) and subgroups, and [A61L 9/012](#) - [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**

NOTES

1. 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
2. Void
3. 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 in the CPC scheme. The subject matter for these IPC 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
A61M23/00	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 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](#).

A61N

(continued)

WARNING

The following IPC groups are not in the CPC scheme. The subject matter for these IPC 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

A61P SPECIFIC THERAPEUTIC ACTIVITY OF CHEMICAL COMPOUNDS OR MEDICINAL PREPARATIONS

NOTES

1. This subclass covers therapeutic activity of chemical compounds or medicinal preparations already classified as such in subclasses [A61K](#) or [C12N](#), or in classes [C01](#), [C07](#) or [C08](#).
2. In this subclass, the term "drugs" includes chemical compounds or compositions with therapeutic activity.
3. In this subclass, therapeutic activity is classified in all appropriate places {to the extent of all the different therapeutic activities stated in the claims and also significantly disclosed as examples in the disclosure}.
4. Attention is drawn to cases where the subject of the invention concerns only specific therapeutic activity of chemical compounds or medical preparations, and the chemical structure, compound, mixture or composition of this subject of the invention is known. In such cases, classification is made in both subclass [A61K](#) and subclass [A61P](#) as invention information. In addition, if the chemical structure, compound, mixture or composition or any individual ingredient of a mixture or composition is considered to represent information of interest for search, it may also be classified as additional information. {There is no classification in [C01](#), [C07](#), [C08](#), [C12N](#) as additional information in CPC if the chemical structure, compound, mixture or composition or any individual ingredient of a mixture or composition is known and classification is made in both subclass [A61K](#) and subclass [A61P](#) as invention information.}
5. The classification symbols of this subclass are not listed first when assigned to patent documents.

A61Q SPECIFIC USE OF COSMETICS OR SIMILAR TOILET PREPARATIONS

NOTES

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](#).
2. When classifying this subclass, subclass [A61P](#) {is for secondary classification and} covers therapeutic activity of chemical compounds or medicinal preparations.

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 in the CPC scheme. The subject matter for these IPC 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
(continued) [A62D 1/08](#) covered by [A62D 1/0007-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

The following IPC groups are not in the CPC scheme. The subject matter for these IPC 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 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 22/08	covered by	
A63B 29/04	covered by	A63B 29/00
A63B 31/16	covered by	A63B 31/14 - A63B 31/18
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 71/14 - A63B 71/148

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 in the CPC scheme. The subject matter for these IPC 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 in the CPC scheme. The subject matter for these IPC 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
(continued)

[A63H 27/01](#)
[A63H 27/127](#)
[A63H 27/133](#)
[A63H 27/16](#)
[A63H 27/18](#)
[A63H 27/20](#)
[A63H 27/22](#)
[A63H 27/24](#)
[A63H 27/26](#)
[A63H 27/28](#)
[A63H 27/30](#)
[A63H 27/32](#)

covered by
 covered by
 covered by
 covered by
 covered by
 covered by
 covered by
 covered by
 covered by
 covered by
 covered by
 covered by

[A63H 27/007](#)
[A63H 27/12](#)
[A63H 27/12](#)
[A63H 27/001](#), [A63H 33/16](#)
[A63H 27/00](#), [A63H 27/02](#)
[A63H 27/00](#)
[A63H 27/00](#), [A63H 29/18](#)
[A63H 27/02](#), [A63H 29/00](#), [A63H 29/22](#)
[A63H 27/06](#)
[A63H 27/008](#)
[A63H 27/02](#)
[A63H 27/00](#)

A63J DEVICES FOR THEATRES, CIRCUSES, OR THE LIKE; CONJURING APPLIANCES OR THE LIKE

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](#))