Compilation of Changes to the CPC Scheme Between 2019.05 and 2019.08

Presentation Details

Entries for new symbols and headings:	*Black text in italics*
Entries for existing symbols and headings	
—text insertions:	*Green text in italics with yellow background*
—text deletions:	~~Red strikethrough text with grey background~~
Entries for deleted symbols and headings:	~~Black strikethrough text~~

• In cases when the originating project cannot be found, "N/A" is given for the Project information (e.g. the change could be due to an Editorial Correction).
• Projects ending in "-F" indicate finalisation after reclassification was completed.

Project: RP0414-F (A01K)

M **A01K 61/00** **Culture of aquatic animals (receptacles for live fish, e.g. aquaria, A01K 63/00)**

~~WARNING~~
~~Group A01K 61/00 is impacted by reclassification into groups A01K 61/00, A01K 61/10, A01K 61/13, A01K 61/20, A01K 61/30, A01K 61/40, A01K 61/50, A01K 61/51, A01K 61/53, A01K 61/60, A01K 61/65, A01K 61/80, A01K 61/85, A01K 61/90, and A01K 61/95.~~
~~All groups listed in this Warning should be considered in order to perform a complete search.~~

M A01K 61/10 · of fish

~~WARNING~~
~~Groups A01K 61/10 – A01K 61/13 are incomplete pending reclassification of documents from group A01K 61/00.~~
~~Groups A01K 61/00 and A01K 61/10 – A01K 61/13 should be considered in order to perform a complete search.~~

M A01K 61/20 · of zooplankton, e.g. water fleas or Rotatoria

~~WARNING~~
~~Group A01K 61/20 is incomplete pending reclassification of documents from group A01K 61/00.~~
~~Groups A01K 61/00 and A01K 61/20 should be considered in order to perform a complete search.~~

M A01K 61/30 · of sponges, sea urchins or sea cucumbers

~~WARNING~~
~~Group A01K 61/30 is incomplete pending reclassification of documents from group A01K 61/00.~~
~~Groups A01K 61/00 and A01K 61/30 should be considered in order to perform a complete search.~~

M A01K 61/40 · of annelids, e.g. lugworms or Eunice

~~WARNING~~
~~Group A01K 61/40 is incomplete pending reclassification of documents from group A01K 61/00.~~
~~Groups A01K 61/00 and A01K 61/40 should be considered in order to perform a complete search.~~

M   A01K 61/50   · of shellfish ([A01K 61/30](), [A01K 61/40]() take precedence)

> WARNING
> Groups A01K 61/50 – A01K 61/53 are incomplete pending reclassification of documents from group A01K 61/00.
> Groups A01K 61/00 and A01K 61/50 – A01K 61/53 should be considered in order to perform a complete search.

M   A01K 61/54   · · of bivalves, e.g. oysters or mussels

> WARNING
> Group A01K 61/54 is impacted by reclassification of documents into groups A01K 61/55 – A01K 61/57.
> Groups A01K 61/54 and A01K 61/55 – A01K 61/57 should be considered in order to perform a complete search.

M   A01K 61/55   · · · Baskets therefor

> WARNING
> Group A01K 61/55 is incomplete pending reclassification of documents from group A01K 61/54.
> Groups A01K 61/54 and A01K 61/55 should be considered in order to perform a complete search.

M   A01K 61/56   · · · for pearl production

> WARNING
> Group A01K 61/56 is incomplete pending reclassification of documents from group A01K 61/54.
> Groups A01K 61/54 and A01K 61/56 should be considered in order to perform a complete search.

M   A01K 61/57   · · · · Pearl seeds

> WARNING
> Group A01K 61/57 is incomplete pending reclassification of documents from group A01K 61/54.
> Groups A01K 61/54 and A01K 61/57 should be considered in order to perform a complete search.

M   A01K 61/60   · Floating cultivation devices, e.g. rafts or floating fish-farms

> WARNING
> Group A01K 61/60 is incomplete pending reclassification of documents from group A01K 61/00. Group A01K 61/60 is also impacted by reclassification into groups A01K 61/65.
> Groups A01K 61/60, A01K 61/00 and A01K 61/65 should be considered in order to perform a complete search.

M   A01K 61/65   · · Connecting or mooring devices therefor

> WARNING
> Group A01K 61/65 is incomplete pending reclassification of documents from groups A01K 61/00 and A01K 61/60.
> Groups A01K 61/65, A01K 61/00, and A01K 61/60 should be considered in order to perform a complete search.

M   A01K 61/70   · Artificial fishing banks or reefs

> WARNING
> Group A01K 61/70 is impacted by reclassification into groups A01K 61/72, A01K 61/73, A01K 61/75, A01K 61/77, and A01K 61/78.

All groups listed in this Warning should be considered in order to perform a complete search.

M   A01K 61/72   · · made of tyres

WARNING

Group A01K 61/72 is incomplete pending reclassification of documents from group A01K 61/70.
Groups A01K 61/70 and A01K 61/72 should be considered in order to perform a complete search.

M   A01K 61/73   · · assembled of components (A01K 61/72 takes precedence)

WARNING

Group A01K 61/73 is incomplete pending reclassification of documents from group A01K 61/70.
Groups A01K 61/70 and A01K 61/73 should be considered in order to perform a complete search.

M   A01K 61/75   · · floating (A01K 61/72 takes precedence)

WARNING

Group A01K 61/75 is incomplete pending reclassification of documents from group A01K 61/70.
Groups A01K 61/70 and A01K 61/75 should be considered in order to perform a complete search.

M   A01K 61/77   · · of monolithic form, e.g. blocks

WARNING

Group A01K 61/77 is incomplete pending reclassification of documents from group A01K 61/70.
Groups A01K 61/70 and A01K 61/77 should be considered in order to perform a complete search.

M   A01K 61/78   · · Arrangements for sinking or mooring thereof

WARNING

Group A01K 61/78 is incomplete pending reclassification of documents from group A01K 61/70.
Groups A01K 61/70 and A01K 61/78 should be considered in order to perform a complete search.

M   A01K 61/80   · Feeding devices

WARNING

Group A01K 61/80 is incomplete pending reclassification of documents from group A01K 61/00.
Groups A01K 61/00 and A01K 61/80 should be considered in order to perform a complete search.

M   A01K 61/85   · · for use with aquaria

WARNING

Group A01K 61/85 is incomplete pending reclassification of documents from group A01K 61/00.
Groups A01K 61/00 and A01K 61/85 should be considered in order to perform a complete search.

M	A01K 61/90	· Sorting, grading, counting or marking live aquatic animals, e.g. sex determination

WARNING

Group A01K 61/90 is impacted by reclassification of documents into group A01K 61/95.
Groups A01K 61/90 and A01K 61/95 should be considered in order to perform a complete search.

M	A01K 61/95	· · specially adapted for fish

WARNING

Group A01K 61/95 is incomplete pending reclassification of documents from group A01K 61/90.
Groups A01K 61/90 and A01K 61/95 should be considered in order to perform a complete search.

M	**A01K 63/00**	**Receptacles for live fish, e.g. aquaria (keepnets or other containers for keeping captured fish A01K 97/20); Terraria**

WARNING

Group A01K 63/00 is impacted by reclassification into group A01K 63/10.
Groups A01K 63/00 and A01K 63/10 should be considered in order to perform a complete search.

M	A01K 63/10	· Cleaning bottoms or walls of ponds or receptacles

WARNING

Group A01K 63/10 is incomplete pending reclassification of documents from group A01K 63/00.
Groups A01K 63/00 and A01K 63/10 should be considered in order to perform a complete search.

Project: MP0441 (A01K)

M	**A01K 2227/00**	**Animals characterised by species (Not used)**
M	**A01K 2267/00**	**Animals characterised by purpose (Not used)**

Project: MP0441 (A23C)

M	**A23C 2210/00**	**Physical treatment of dairy products (not used, see subgroups)**
M	A23C 2210/20	· Treatment using membranes, including sterile filtration (not used, see subgroups)
M	A23C 2210/25	· Separating and blending (not used, see subgroups)
M	**A23C 2220/00**	**Biochemical treatment (not used, see subgroups below)**
M	A23C 2220/10	· Enzymatic treatment (not used, see subgroups below)
M	A23C 2220/20	· Treatment with microorganisms (not used, see subgroups below)
M	**A23C 2230/00**	**Aspects relating to animal feed or genotype (not used, see subgroups below)**
M	**A23C 2240/00**	**Use or particular additives or ingredients (not used, see subgroups below)**
M	**A23C 2250/00**	**Particular aspects related to cheese (not used, see subgroups below)**
M	A23C 2250/05	· Emulsifying cheese (not used, see subgroups below)
M	**A23C 2260/00**	**Particular aspects or types of dairy products (not used, see subgroups below)**

M	A23C 2260/10	· Spreadable dairy products ~~(not used, see subgroups below)~~
M	A23C 2260/15	· Frozen dairy products ~~(not used, see subgroups below)~~
M	**A23C 2270/00**	**Aspects relating to packaging ~~(not used, see subgroups below)~~**

Project: MP0441 (A23G)

U	**A23G 1/00**	**Cocoa; Cocoa products, e.g. chocolate; Substitutes therefor (kitchen equipment for cocoa preparation A47J, e.g. apparatus for making beverages A47J 31/00)**
		NOTE
		Attention is drawn to the internal note after the subclass title
U	A23G 1/0003	· {Processes of manufacture not relating to composition or compounding ingredients}
U	A23G 1/005	· · {Moulding, shaping, cutting, or dispensing chocolate (A23G 1/0076 - A23G 1/0096 take precedence)}
M	A23G 1/0053	· · · {Processes of shaping not covered elsewhere ~~(Not used)~~}
U	A23G 1/0079	· · {Chocolate moulds processing (A23G 1/0076 takes precedence)}
M	A23G 1/0083	· · · {characterised by the material of the moulds ~~(Not used)~~}
U	A23G 1/04	· Apparatus specially adapted for manufacture or treatment of cocoa or cocoa products (machines for roasting cocoa A23N 12/00; crushing or grinding apparatus in general B02C)
U	A23G 1/20	· · Apparatus for moulding, cutting, or dispensing chocolate
U	A23G 1/22	· · · Chocolate moulds (A23G 1/21 takes precedence)
M	A23G 1/223	· · · · {Mould materials ~~(not used)~~}
U	**A23G 7/00**	**Other apparatus {or process} specially adapted for the chocolate or confectionery industry**
U	A23G 7/0043	· {Other processes specially adapted for the chocolate or confectionery industry (A23G 7/0006 - A23G 7/02)}
M	A23G 7/005	· · {General processes ~~(Not used)~~}

Project: MP0441 (A23V)

M	**A23V 2200/00**	**Function of food ingredients ~~(not used; see subgroups)~~**
		NOTE
		The indexing codes under this group are used in combination with the codes for ingredients compositions
M	**A23V 2250/00**	**Food ingredients ~~(not used; see subgroups)~~**
U	A23V 2250/18	· Lipids
M	A23V 2250/184	· · Emulsifier (emulsifier as function A23V 2200/222~~, not used, see subgroups~~)
M	**A23V 2300/00**	**Processes ~~(not used; see subgroups)~~**

Project: RP0364 (A47G)

U	**A47G 1/00**	**Mirrors (as optical elements G02B 5/08); Picture frames or the like, {e.g. provided with heating, lighting or ventilating means}**
U	A47G 1/06	· Picture frames (making from paper B31D)
M	A47G 1/0616	· · {Ornamental frames, e.g. with illumination, speakers *or decorative features*}

| C | A47G 1/10 | · · Corner clips or corner-connecting appliances for frames |

WARNING
Group A47G 1/10 is impacted by reclassification into groups A47G 1/101 and A47G 1/102.
Groups A47G 1/10, A47G 1/101, and A47G 1/102 should be considered in order to perform a complete search.

| N | A47G 1/101 | · · · {for insertion within frame members} |

WARNING
Group A47G 1/101 is incomplete pending reclassification of documents from group A47G 1/10.
Groups A47G 1/10 and A47G 1/101 should be considered in order to perform a complete search.

| N | A47G 1/102 | · · · · {having an aperture to receive a fastener to connect to a frame member} |

WARNING
Group A47G 1/102 is incomplete pending reclassification of documents from group A47G 1/10.
Groups A47G 1/10 and A47G 1/102 should be considered in order to perform a complete search.

Project: MP0381 (A61B)

| M | 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.

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:

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 2017/90
A61B 17/94	covered by	A61B 17/29

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0441 (A61B)

| U | A61B 17/00 | **Surgical instruments, devices or methods, e.g. tourniquets (A61B 18/00 takes precedence; contraceptive devices, pessaries, or applicators therefor A61F 6/00; eye surgery A61F 9/007; ear surgery A61F 11/00)** |

M	A61B 2017/00681	· {Aspects not otherwise provided for ~~(not used)~~}
U	A61B 17/16	· {Bone cutting, breaking or removal means other than saws, e.g.} Osteoclasts; Drills or chisels for bones; Trepans {(arthroscopic bone cutters A61B 17/320016; dental implant drills potentially for other surgical use A61C 8/0089; bone grinders A61F 2/4644, A22C 17/06; A61B 17/1662 takes precedence over all other subgroups except A61B 17/17)}
M	A61B 17/1613	· · {Component parts ~~(not used, see subgroups)~~}
U	A61B 17/42	· Gynaecological or obstetrical instruments or methods ({ligaturing clamps or clips for the umbilical cord A61B 17/122; curettage A61B 17/3207} ; dilators A61M 29/00)
M	A61B 17/425	· · for reproduction or fertilisation (specially adapted for use with animals A61D 19/00) ~~{(not used, see subgroups)}~~
U	A61B 17/56	· Surgical instruments or methods for treatment of bones or joints; Devices specially adapted therefor {(orthopaedic methods or devices for non-surgical treatment of bones or joints A61F 5/00)}

NOTES

1. Documents concerning exclusively surgical methods are classified only in this group.

2. Surgical instruments or devices are classified only in the relevant subgroups

U	A61B 17/58	· · for osteosynthesis, e.g. bone plates, screws, {setting implements} or the like (A61B 17/14, A61B 17/16 take precedence; {splints A61B 5/01; traction bandages A61F 13/10})
U	A61B 17/60	· · · for external osteosynthesis, e.g. distractors, contractors
M	A61B 17/64	· · · · Devices extending alongside the bones to be positioned ~~{(not used, see subgroups and A61B 17/60)}~~

Project: MP0441 (A61C)

U	**A61C 13/00**	**Dental prostheses; Making same (tooth crowns for capping teeth A61C 5/70; dental implants A61C 8/00)**
U	A61C 13/225	· Fastening prostheses in the mouth (securing tooth crowns in capping teeth A61C 5/30)

WARNING

Group A61C 13/225 is impacted by reclassification into group A61C 5/30. Groups A61C 13/225 and A61C 5/30 should be considered in order to perform a complete search.

M	A61C 13/265	· · Sliding or snap attachments ~~{not used, see subgroups}~~
U	**A61C 15/00**	**Devices for cleaning between the teeth**
M	A61C 15/04	· Dental floss; Floss holders ~~{not used, see subgroups}~~

Project: MP0381 (A61F)

M	**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)**

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:

A61F 2/48   covered by   A61F 2/02*, A61F 2002/48*

A61F 2/56	covered by	A61F 2/54
A61F 2/62	covered by	A61F 2/60
A61F 2/74	covered by	A61F 2/68, *A61F 2002/74*
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 13/2045*
A61F 13/30	covered by	A61F 13/26
A61F 13/32	covered by	A61F 13/26
A61F 13/40	covered by	A61M 35/006

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: RP0016-F (A61F)

U	**A61F 2/00**	**Filters implantable into blood vessels; Prostheses, i.e. artificial substitutes or replacements for parts of the body; Appliances for connecting them with the body; Devices providing patency to, or preventing collapsing of, tubular structures of the body, e.g. stents (as cosmetic articles, <u>see</u> the relevant subclasses, e.g. wigs, hair pieces, A41G 3/00, A41G 5/00, artificial nails A45D 31/00; dental prostheses A61C 13/00; materials for prostheses A61L 27/00; artificial hearts A61M 1/10; artificial kidneys A61M 1/14)**
U	A61F 2/0077	· {Special surfaces of prostheses, e.g. for improving ingrowth (A61F 2/30767 takes precedence)}
U	A61F 2002/009	· · {for hindering or preventing attachment of biological tissue (of bone tissue onto implantable joints A61F 2002/30932)}
M	A61F 2002/0091	· · · {Having cellular growth inhibitors}

> ~~WARNING~~
>
> ~~Group A61F 2002/0091 is incomplete pending reclassification of documents from groups A61F 2002/009.~~
> ~~Groups A61F 2002/009 and A61F 2002/0091 should be considered in order to perform a complete search.~~

U	A61F 2/02	· Prostheses implantable into the body {(closure means for urethra or rectum or for artificial body openings therefor A61F 2/0004)}
U	A61F 2/14	· · Eye parts, e.g. lenses, corneal implants; {Implanting instruments specially adapted therefor}; Artificial eyes
M	A61F 2/145	· · · {Corneal inlays, onlays, or lenses for refractive correction}

> ~~WARNING~~
>
> ~~Group A61F 2/145 is impacted by reclassification into groups A61F 2/1451 and A61F 2/1453.~~
> ~~Groups A61F 2/145, A61F 2/1451, and A61F 2/1453 should be considered in order to perform a complete search.~~

M	A61F 2/15	· · · {Implant having one or more holes, e.g. for nutrient transport, for facilitating handling}

> WARNING
>
> ~~Group A61F 2/15 is incomplete pending reclassification of documents from group A61F 2/14.~~
> ~~Groups A61F 2/14 and A61F 2/15 should be considered in order to perform a complete search.~~

M	A61F 2/16	· · · Intraocular lenses

> WARNING
>
> ~~Group A61F 2/16 is impacted by reclassification into groups A61F 2/1601, A61F 2/16015, A61F 2002/1696, and A61F 2002/16965.~~
> ~~All groups listed should be considered in order to perform a complete search.~~

M	A61F 2002/1681	· · · · {having supporting structure for lens, e.g. haptics}

> WARNING
>
> ~~Group A61F 2002/1681 is impacted by reclassification into groups A61F 2002/1682, A61F 2002/169, A61F 2002/16901, A61F 2002/16902, A61F 2002/16903, A61F 2002/16905, A61F 2002/169051, A61F 2002/169052, and A61F 2002/169053.~~
> ~~All groups listed should be considered in order to perform a complete search.~~

Project: MP0441 (A61F)

U	A61F 2/30	· · Joints
M	A61F 2/3094	· · · {Designing or manufacturing processes ~~(not used, see subgroups)~~}
U	A61F 2/50	· Prostheses not implantable in the body {(closure means for urethra or rectum or for artificial body openings therefor A61F 2/0004)}
M	A61F 2/5044	· · {Designing or manufacturing processes ~~(not used, see subgroup)~~}

Project: MP0441 (A61H)

U	**A61H 33/00**	**Bathing devices for special therapeutic or hygienic purposes (A61H 35/00 takes precedence; {sprays acting on a body or body part not immersed in water A61H 9/00; means for washing bed-ridden persons A61G 7/0005;} for sub aquatic intestinal cleaning A61M 9/00; {isolation chambers A61M 21/0094; } electric or magnetic baths, applying ionised fluids A61N 1/44 {; heater for bath tubs F24H 1/0081})**
M	A61H 2033/0008	· {Arrangement for cleaning the installation before or after use ~~(not used)~~}

Project: MP0381 (A61K)

M	**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; soap compositions C11D)**

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 promotors, 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 <u>in vivo</u> test, e.g. X-ray contrast or skin patch test compositions (measuring or testing processes involving enzymes or microorganisms C12Q; <u>in vitro</u> 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.

<u>WARNINGS</u>

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 39/0258, A61K 39/0266*
A61K 39/112	covered by	*A61K 39/0275, A61K 39/0283*
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 103/00	*covered by*	*A61K 51/00 - A61K 51/1296*
A61K 125/00 - A61K 135/00	*covered by*	*A61K 36/00 - A61K 36/9068*
~~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

3. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (A61L)

M   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	*A61L 2300/00 - A61L 2300/802*

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

3. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: RP0004-F (A61M)

M   A61M 11/00   **Sprayers or atomisers specially adapted for therapeutic purposes (in general B05B; {aerosol containers B65D 83/14})**

~~WARNING~~
~~Groups A61M 11/001 - A61M 11/008, A61M 11/042 - A61M 11/048, A61M 11/065 are incomplete pending reclassification of documents from group A61M 11/00 or respective subgroup.~~

~~Until reclassification is complete, groups A61M 11/00 or respective subgroup and A61M 11/001 - A61M 11/008, A61M 11/042 - A61M 11/048, A61M 11/065 should be considered in order to perform a complete search.~~

U	A61M 13/00	**Insufflators for therapeutic or disinfectant purposes {, i.e. devices for blowing a gas, powder or vapour into the body (hand-held units in which gas flow is produced by muscular energy at the moment of use B05B 11/062)}**
M	A61M 13/003	▪ {Blowing gases other than for carrying powders, e.g. for inflating, dilating or rinsing}

> WARNING
>
> Group A61M 13/006 is incomplete pending reclassification of documents from group A61M 13/003.
>
> Until reclassification is complete, groups A61M 13/003 and A61M 13/006 should be considered in order to perform a complete search.

M	A61M 15/00	**Inhalators {(drug delivery in endotracheal tubes A61M 16/04)}**

> WARNING
>
> Groups A61M 15/0001 - A61M 15/0026, A61M 15/003 - A61M 15/0043, A61M 15/0046 - A61M 15/0063, A61M 15/0066 - A61M 15/0083, A61M 15/0088, A61M 15/0093 - A61M 15/0098, A61M 15/025, A61M 15/085 are incomplete pending reclassification of documents from group A61M 15/00 or respective subgroup.
>
> Until reclassification is complete, groups A61M 15/00 or respective subgroup and A61M 15/0001 - A61M 15/0026, A61M 15/003 - A61M 15/0043, A61M 15/0046 - A61M 15/0063, A61M 15/0066 - A61M 15/0083, A61M 15/0088, A61M 15/0093 - A61M 15/0098, A61M 15/025, A61M 15/085 should be considered in order to perform a complete search.

Project: RP0003-F (A61M)

M	A61M 16/00	**Devices for influencing the respiratory system of patients by gas treatment, e.g. mouth-to-mouth respiration; Tracheal tubes (stimulating the respiratory movement by mechanical, pneumatic or electrical means, iron lungs combined with gas breathing means A61H 31/00)**

> WARNINGS
>
> 1. Groups A61M 16/0003 - A61M 16/0012, A61M 16/006 - A61M 16/0063, A61M 16/0069, A61M 16/0081 - A61M 16/0084, A61M 16/0093, A61M 16/0402 - A61M 16/0431, A61M 16/0436 - A61M 16/0438, A61M 16/0443 - A61M 16/0459, A61M 16/0475 - A61M 16/0486, A61M 16/049 - A61M 16/0495, A61M 16/0605 - A61M 16/0655, A61M 16/0672 - A61M 16/0677, A61M 16/0688 - A61M 16/0694, A61M 16/0825 - A61M 16/0866, A61M 16/0883 - A61M 16/0891, A61M 16/1005 - A61M 16/1015, A61M 16/106 - A61M 16/107, A61M 16/108 - A61M 16/1095, A61M 16/122 - A61M 16/127, A61M 16/142 - A61M 16/147, A61M 16/161, A61M 16/164 - A61M 16/168, A61M 16/201 - A61M 16/207, A61M 16/209 are incomplete pending reclassification of documents from group A61M 16/00 or respective subgroup.
>
> Until reclassification is complete, groups A61M 16/00 or respective subgroup and A61M 16/0003 - A61M 16/0012, A61M 16/006 - A61M 16/0063, A61M 16/0069, A61M 16/0081 - A61M 16/0084, A61M 16/0093, A61M 16/0402 - A61M 16/0431, A61M 16/0436 - A61M 16/0438, A61M 16/0443 - A61M 16/0459, A61M 16/0475 - A61M 16/0486, A61M 16/049 - A61M 16/0495, A61M 16/0605 - A61M 16/0655, A61M 16/0672 - A61M 16/0677, A61M 16/0688 - A61M 16/0694, A61M 16/0825 - A61M 16/0866, A61M 16/0883 - A61M 16/0891, A61M 16/1005 - A61M 16/1015, A61M 16/106 - A61M 16/107, A61M 16/108 - A61M 16/1095, A61M 16/122 - A61M 16/127, A61M 16/142 - A61M 16/147, A61M 16/161, A61M 16/164 -

A61M 16/168, A61M 16/201 - A61M 16/207, A61M 16/209 should be considered in order to perform a complete search.

2. Group A61M 16/00 is impacted by reclassification into groups A61M 16/021, A61M 16/022, A61M 16/024 and A61M 16/026.
All groups listed in this Warning should be considered in order to perform a complete search.

M	A61M 16/0051	· {with alarm devices}

WARNING
Group A61M 16/0051 is impacted by reclassification into groups A61M 16/021, A61M 16/022, A61M 16/024 and A61M 16/026.
All groups listed in this Warning should be considered in order to perform a complete search.

M	A61M 16/021	· {operated by electrical means (A61M 16/202 – A61M 16/205 take precedence)}

WARNING
Group A61M 16/021 is incomplete pending reclassification of documents from groups A61M 16/00 and A61M 16/0051.
Groups A61M 16/00, A61M 16/0051 and A61M 16/021 should be considered in order to perform a complete search.

M	A61M 16/022	· · {Control means therefor}

WARNING
Group A61M 16/022 is incomplete pending reclassification of documents from groups A61M 16/00 and A61M 16/0051.
Groups A61M 16/00, A61M 16/0051 and A61M 16/022 should be considered in order to perform a complete search.

M	A61M 16/024	· · · {including calculation means, e.g. using a processor}

WARNING
Group A61M 16/024 is incomplete pending reclassification of documents from groups A61M 16/00 and A61M 16/0051.
Groups A61M 16/00, A61M 16/0051 and A61M 16/024 should be considered in order to perform a complete search.

M	A61M 16/026	· · · · {specially adapted for predicting, e.g. for determining an information representative of a flow limitation during a ventilation cycle by using a root square technique or a regression analysis}

WARNING
Group A61M 16/026 is incomplete pending reclassification of documents from groups A61M 16/00 and A61M 16/0051.
Groups A61M 16/00, A61M 16/0051 and A61M 16/026 should be considered in order to perform a complete search.

Project: MP0441 (A61M)

U	**A61M 25/00**	**Catheters; Hollow probes (dilators A61M 29/00; {peritoneal catheters A61M 1/285; tracheal tubes A61M 16/04; for drainage A61M 27/00; for uterus, vagina or rectum A61M 31/00} ; for measuring or testing A61B; {materials for catheters A61L 29/00})**
M	A61M 2025/0001	· {for pressure measurement (not used)}
U	A61M 25/01	· Introducing, guiding, advancing, emplacing or holding catheters (A61M 25/10 takes precedence)
U	A61M 25/09	· · Guide wires
M	A61M 2025/09058	· · · {Basic structures of guide wires (not used)}

| U | A61M 25/10 | · Balloon catheters ({A61M 25/0125 takes precedence; embolectomy A61B 17/22032; retractors A61B 17/02;} inflatable balloons for placing stents or stent-grafts A61F 2/958 {; stomach balloons for treatment of obesity A61F 5/0003; oesophagal tubes A61J 15/00}) |
| M | A61M 2025/1043 | · · {with special features or adapted for special applications ~~(not used)~~} |

Project: MP0381 (A61N)

| M | 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.

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:

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~~ *A61N 2/08*	covered by	~~A61N 5/06~~ *A61N 2/06*
~~A61N 2/08~~ *A61N 2/10*	covered by	A61N 2/06
~~A61N 2/10~~ *A61N 5/067*	covered by	~~A61N 2/06~~ *A61N 5/06, A61N 2005/067*
A61N 5/073	covered by	A61N 5/06, A61N 2005/073
A61N 5/08	*covered by*	*A61N 5/06*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (A63B)

| M | A63B | **APPARATUS FOR PHYSICAL TRAINING, GYMNASTICS, SWIMMING, CLIMBING, OR FENCING; BALL GAMES; TRAINING EQUIPMENT (apparatus for passive exercising, massage A61H)** |

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:

A63B 7/06	covered by	A63G 1/00
~~A63B 21/075~~ *A63B 22/08*	covered by	~~A63B 21/072~~ *A63B 22/0605*
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

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0441 (A63B)

U	**A63B 69/00**	**Training appliances or apparatus for special sports (training of parachutists B64D 23/00)**
M	A63B 69/0073	· {Means for releasably holding a ball in position; Balls constrained to move around a fixed point, e.g. by tethering ~~(not used, see subgroups and A63B 69/00)~~}
U	A63B 69/36	· for golf
M	A63B 2069/3602	· · {Player's game information devices ~~(not used)~~}
U	A63B 69/3623	· · {for driving (A63B 69/3608, A63B 69/3658, A63B 69/3661, A63B 69/3667 and A63B 69/3691 take precedence)}
M	A63B 2069/3626	· · · {Details ~~(not used)~~}
U	A63B 69/3676	· · {for putting (A63B 69/3608, A63B 69/3661, A63B 69/3667 and A63B 69/3697 take precedence)}
M	A63B 2069/3679	· · · {Details ~~(not used)~~}
M	**A63B 2208/00**	**Characteristics or parameters related to the user or player ~~(not used)~~ (measuring physical characteristics of the user A63B 2230/00)**
M	A63B 2208/05	· the user being at least partly surrounded by a pressure different from the atmospheric pressure ~~(not used)~~
M	**A63B 2244/00**	**Sports without balls ~~(not used)~~**

Project: MP0441 (A63C)

U	**A63C 7/00**	**Devices preventing skis from slipping back; Ski-stoppers or ski-brakes**
M	A63C 7/10	· Hinged stoppage blades attachable to the skis in such manner that these blades can be moved out of the operative position ~~{(not used, see subgroups)}~~
M	A63C 7/1006	· · {Ski-stoppers ~~(not used, see subgroups)~~}
M	A63C 7/1013	· · · {actuated by the boot (A63C 7/106 takes precedence~~; not used, see subgroups~~)}
M	A63C 7/1073	· · {Ski-brakes ~~(not used, see subgroups)~~}

Project: MP0441 (A63F)

U	**A63F 7/00**	**Indoor games using small moving playing bodies, e.g. balls, discs or blocks (board games, raffle games A63F 3/00; roulette games A63F 5/00; miniature bowling games A63D 3/00; bagatelle or similar games A63D 13/00; billiards, pocket billiards A63D 15/00)**
U	A63F 7/06	· Games simulating outdoor ball games, e.g. hockey {or football (if physically beneficial for the human body A63B 67/00)}
M	A63F 7/07	· · in which the playing bodies contact, or are supported by, the playing surface continuously, e.g. using air-cushion support {(~~not used, see subgroups of A63F 7/06~~ *A63F 7/0604 - A63F 7/0696 take precedence*)}

M	A63F 7/20	· · in which the playing bodies are projected through the air {(~~not used, see subgroups of A63F 7/06~~*A63F 7/0604 - A63F 7/0696 take precedence*)}

Project: MP0441 (A63J)

U	**A63J 5/00**	**Auxiliaries for producing special effects on stages, or in circuses or arenas**
U	A63J 2005/001	· {enhancing the performance by involving senses complementary to sight or hearing}
M	A63J 2005/005	· · {Climate ~~(not used)~~}

Project: RP0144 (B01L)

C	**B01L 1/00**	**Enclosures; Chambers (fume cupboards B08B; provided with manipulation devices, glove boxes B25J*; {industrial clean rooms F24F 3/161;}* cooling chambers F25D)**

> *WARNING*
>
> *Group B01L 1/00 is impacted by reclassification into group B01L 1/52.*
> *Groups B01L 1/00 and B01L 1/52 should be considered in order to perform a complete search.*

U	B01L 1/02	· Air-pressure chambers; Air-locks therefor
M	B01L 1/025	· · {Environmental chambers (incubators for culturing cells C12M 41/14~~, Test chambers to test weather resistance G01N 17/002~~*; test chambers to test weather resistance G01N 17/002*)}
M	B01L 1/50	· {for storing hazardous materials in the laboratory, e.g. cupboards, waste containers *(sample containers B01L 3/50)*}
N	*B01L 1/52*	· *{Transportable laboratories; Field kits}*

> *WARNING*
>
> *Group B01L 1/52 is incomplete pending reclassification of documents from groups B01L 1/00 and B01L 99/00.*
> *Groups B01L 1/00, B01L 99/00, and B01L 1/52 should be considered in order to perform a complete search.*

C	**B01L 9/00**	**Supporting devices; Holding devices (tweezers, tongs B25B)**

> *WARNING*
>
> *Group B01L 9/00 is impacted by reclassification into group B01L 9/56.*
> *Groups B01L 9/00 and B01L 9/56 should be considered in order to perform a complete search.*

M	B01L 9/52	· {Supports *specially adapted* for flat sample ~~carrier~~*carriers*, e.g. ~~used~~ for plates, slides, chips}
M	B01L 9/54	· {Supports ~~related to~~*specially adapted for* pipettes and burettes *(automated pipetting stations G01N 35/10)*}
U	B01L 9/547	· · {for dispensing pins}
N	*B01L 9/56*	· *{Means for indicating position of a recipient or sample in an array}*

> *WARNING*
>
> *Group B01L 9/56 is incomplete pending reclassification of documents from groups B01L 9/00 and B01L 99/00.*
> *Groups B01L 9/00, B01L 99/00, and B01L 9/56 should be considered in order to perform a complete search.*

N	***B01L 13/00***	***{Cleaning or rinsing apparatus}***

WARNING

Group B01L 13/00 is incomplete pending reclassification of documents from group B01L 99/00.
Groups B01L 99/00 and B01L 13/00 should be considered in order to perform a complete search.

N	*B01L 13/02*	• *{for receptacle or instruments}*

WARNING

Group B01L 13/02 is incomplete pending reclassification of documents from group B01L 99/00.
Groups B01L 99/00 and B01L 13/02 should be considered in order to perform a complete search.

C	**B01L 99/00**	**Subject matter not provided for in other groups of this subclass** ~~{(chemical indicators in general G01N)}~~

WARNING
Group B01L 99/00 is impacted by reclassification into groups B01L 1/52, B01L 9/56, B01L 13/00, and B01L 13/02.
All groups listed in this Warning should be considered in order to perform a complete search.

Project: MP0381 (B03D)

M	**B03D**	**FLOTATION; DIFFERENTIAL SEDIMENTATION (sedimentation in general B01D 21/00; in combination with other separation of solids B03B; sink-float separation B03B 5/28; detergents, soaps C11D)**

WARNINGS

1. The following groups are not complete:
B03D 1/023, see also B03D 1/02
B03D 1/025, see also B03D 1/02
B03D 1/026, see also B03D 1/02
B03D 1/028, see also B03D 1/02
B03D 1/082, see also B03D 1/08
B03D 1/085, see also B03D 1/08
B03D 1/087, see also B03D 1/08
B03D 1/1406, see also B03D 1/14
B03D 1/1443, see also B03D 1/14
B03D 1/145, see also B03D 1/14
B03D 1/1456, see also B03D 1/14
B03D 1/1462, see also B03D 1/14
B03D 1/1468, see also B03D 1/14
B03D 1/1475, see also B03D 1/14
B03D 1/1487, see also B03D 1/14
B03D 1/1493, see also B03D 1/14
B03D 1/242, see also B03D 1/24
B03D 1/247, see also B03D 1/24

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

B03D 101/00-B03D 103/10	covered by	*B03D 2201/00 - B03D 2203/10*

3. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (B07B)

M   B07B   **SEPERATING SOLIDS FROM SOLIDS BY SIEVING, SCREENING, OR SIFTING OR BY USING GAS CURRENTS; OTHER SEPARATING BY DRY METHODS APPLICABLE TO BULK MATERIAL, e.g. LOOSE ARTICLES FIT TO BE HANDLED LIKE BULK MATERIAL (combinations of dry separating apparatus with wet separating apparatus B03B; hand sorting, postal sorting, sorting by switching or other devices actuated in response to detection or measurement of some feature of articles or samples of material B07C)**

NOTE

In this subclass any sorting or grading of bulk material or loose articles fit to be handled like bulk material results automatically from the construction of the apparatus and properties of the material, e.g. by a trap opening under an object of a certain minimum weight, by an aperture of graduated size. Sorting of articles is included in so far as the same conditions apply, e.g. sorting of timber by passing it over successively longer openings; the articles may or may not be orientated for the purpose of sorting.

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:

B07B 1/32	covered by	*B07B 1/30*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (B25D)

M   B25D   **PERCUSSIVE TOOLS {(percussive machines for forging B21J; hand-held drilling machines, in general B23B 45/00, for wood B27C 3/08; drilling machines, used for mining or quarrying, with reciprocating tool which is turned intermittently when out of contact with the working face E21B 1/00)}**

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:

B25D 13/00	covered by	B25D 11/064
B25D 15/00	covered by	B25D 11/066
B25D 15/02	covered by	B25D 11/068
B25D 17/10	covered by	B25D 17/00, F16P
B25D 17/14	covered by	B23Q 11/0042
B25D 17/16	covered by	B23Q 11/0042
B25D 17/18	covered by	B23Q 11/0042

Project: MP0381 (B27B)

M   B27B   **SAWS FOR WOOD OR SIMILAR MATERIAL; COMPONENTS OR ACCESSORIES THEREFOR (saws specially adapted for pruning or debranching A01G 3/08; sawing apparatus specially adapted for felling trees A01G 23/091; features not restricted to a particular type of wood saw B23D, e.g. attaching saw blades B23D 51/00; machine tool frames, beds, pillars or like members, in general B23Q 1/01)**

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:

B27B 33/18	covered by	*B27B 5/12*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: RP0172-F (B29C)

U	**B29C 44/00**	**Shaping by internal pressure generated in the material, e.g. swelling or foaming {; Producing porous or cellular expanded plastics articles}**
U	B29C 44/20	· for articles of indefinite length
M	B29C 44/32	· · Incorporating or moulding on preformed parts, e.g. linings, inserts or reinforcements

> WARNING
> Group B29C 44/32 is impacted by reclassification into groups B29C 44/32, B29C 44/321, B29C 44/3215, B29C 44/329, B29C 44/332, and B29C 44/334.
> All groups listed in this Warning should be considered in order to perform a complete search.

M	B29C 44/321	· · · {the preformed part being a lining, e.g. a film or a support lining}

> WARNING
> Group B29C 44/321 is incomplete pending reclassification of documents from group B29C 44/32.
> Groups B29C 44/32 and B29C 44/321 should be considered in order to perform a complete search.

M	B29C 44/329	· · · {the preformed parts being partially embedded}

> WARNING
> Group B29C 44/329 is incomplete pending reclassification of documents from group B29C 44/32.
> Groups B29C 44/32 and B29C 44/321 should be considered in order to perform a complete search.

M	B29C 44/332	· · · {the preformed parts being three-dimensional structures}

> WARNING
> Group B29C 44/332 is incomplete pending reclassification of documents from group B29C 44/32.
> Groups B29C 44/32 and B29C 44/332 should be considered in order to perform a complete search.

M	B29C 44/334	· · · {Filling the preformed spaces or cavities}

> WARNING
> Group B29C 44/334 is incomplete pending reclassification of documents from group B29C 44/32.
> Groups B29C 44/32 and B29C 44/334 should be considered in order to perform a complete search.

M	B29C 44/34	· Auxiliary operations

> WARNING
> Group B29C 44/34 is impacted by reclassification into groups B29C 44/34 and B29C 44/3402.
> Groups B29C 44/34 and B29C 44/3402 should be considered in order to perform a complete search.

M   B29C 44/3402   · · {Details of processes or apparatus for reducing environmental damage or for working-up compositions comprising inert blowing agents or biodegradable components}

> WARNING
> Group B29C 44/3402 is incomplete pending reclassification of documents from group B29C 44/34.
> Group B29C 44/32 and B29C 44/3402 should be considered in order to perform a complete search.

U   B29C 44/36   · · Feeding the material to be shaped {(B29C 44/0492 takes precedence)}

U   B29C 44/46   · · · into an open space or onto moving surfaces, i.e. to make articles of indefinite length {(B29C 44/365, B29C 44/367 take precedence)}

M   B29C 44/50   · · · · using pressure difference, e.g. by extrusion or by spraying {(B29C 44/468 takes precedence)}

> WARNING
> Group B29C 44/50 is impacted by reclassification into groups B29C 44/50, B29C 44/505, and B29C 44/507.
> Groups B29C 44/50, B29C 44/505, and B29C 44/507 should be considered in order to perform a complete search.

M   B29C 44/505   · · · · · {extruding the compound through a flat die (in general B29C 48/03)}

> WARNING
> Group B29C 44/505 is incomplete pending reclassification of documents from group B29C 44/50.
> Groups B29C 44/505 and B29C 44/50 should be considered in order to perform a complete search.

M   B29C 44/507   · · · · · {extruding the compound through an annular die (in general B29C 48/03)}

> WARNING
> Group B29C 44/507 is incomplete pending reclassification of documents from group B29C 44/50.
> Groups B29C 44/507 and B29C 44/50 should be considered in order to perform a complete search.

Project: MP0381 (B32B)

M   **B32B**   **LAYERED PRODUCTS, i.e. PRODUCTS BUILT-UP OF STRATA OF FLAT OR NON-FLAT, e.g. CELLULAR OR HONEYCOMB, FORM**

NOTES

1. This subclass covers:
   - layered products comprising different kinds of material or layered products not characterised by the particular kind of material used;
   - a product similar to a layered product but comprising only material in the form of a sheet or network embedded in a mass of plastics or of physically-similar substances which mass penetrates the said sheet or network and lies on both sides of the latter (e.g. so that the sheet or network reinforces the plastics substance) PROVIDED THAT the embedded sheet or network extends coherently or connectedly over substantially the whole area of the product; thus the embedded sheet or network may be a fabric or a series of rods connected by cross wires. The manner of making such a product is, however, classified in this subclass only if it is essentially a process of building-up an assembly of layers of which at least one outer

layer is preformed. If the embedded material comprises only a series of unconnected rods, the product is not classified in this subclass.

2. This subclass <u>does not cover</u>:
    *   processes or apparatus used in, or in connection with, the production or treatment of any product, if the process or apparatus is fully classifiable in a single other class or subclass for processes or apparatus, e.g. B05, B29, B44D, C08J, C09J, C23;
    *   compositions or preparation or treatment thereof, unless they are essentially restricted to layered products and cannot be fully classified in another class without ignoring this restriction;
    *   etched metallic pattern on the surface of a printed circuit board.

3. In this subclass:
    *   a film formed on a layer by spreading a substance thereon is not considered to constitute a layer itself if it serves only as an adhesive or its purpose is merely to finish a surface of a product;
    *   groups designating products cover also methods or apparatus specially adapted for producing such products.

4. In this subclass, the following terms or expressions are used with the meanings indicated:
    *   "layer" is a sheet or strip or anything else having a small thickness relatively to its other dimensions which, together with at least one other layer, exists in a product, whether it pre-existed, e.g. as a separate sheet or strip, or was formed during the production of the layered product. It may or may not be homogeneous or cohesive; it may be an assembly of fibres or pieces of material. It may be discontinuous, e.g. in the form of a grating, honeycomb, or frame. It may may or may not be in complete contact with the next layer, e.g. a corrugated layer against a flat layer;
    *   "layered product" comprises at least two layers secured together. The term "secured" includes any method of uniting layers, e.g. needling, stitching, gluing, nailing, dovetailing or the interposition of an adhesive or adhesive impregnated support. It may also be an intermediate stage in the production of an article which is not layered in its final form, e.g. a panel with a protective layer which is stripped off when the panel is placed in its position of use. The layers are preformed layers or layers formed IN SITU on a preformed layer and may consist of coherent solid materials, including honeycombs and other cellular materials or of non-coherent solid materials composed of assemblies of strands, strips, fibres, tiles or the like;
    *   "filamentary layer" means a layer of threads or filaments of any substance (e.g. wires) of more or less unlimited length placed in an orderly arrangement and secured together; it may be woven, knitted, braided, or netted, or formed of threads crossed or laid side by side and bonded together;
    *   "fibrous layer" means a random assembly of fibres of limited length, e.g. felt, fleece; the fibres {being} interengaged or connected, e.g. by adhesive.

5. In this subclass,
    *   "First place rule" is used in the following groups B32B 9/04, B32B 11/04, B32B 13/04, B32B 15/04, B32B 19/04, B32B 21/04, B32B 23/046 - B32B 23/12, B32B 25/04, B32B 27/06, B32B 29/002.

However, when these groups are not characterised by the specific material adjacency to be classified, then, multiple classification is given, e.g. a layered product having a stone layer next to a bituminous layer would be classified in B32B 9/04 and in B32B 11/04. For a cellulosic plastic layer next to a metal layer or to a wood layer B32B 23/042 or B32B 23/044, respectively, take precedence (i.e. first rule does not apply). For layered products comprising at least two ceramic layers , products comprising only ceramic layers are classified in group

B32B 18/00 and products comprising two ceramics layers and at least one layer of another material are classified in B32B 18/00 and B32B 9/04.

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:

B32B 1/04	covered by	B32B 3/02 - B32B 3/08
B32B 1/06	covered by	B32B 13/02
B32B 3/08 - B32B 3/22	covered by	B32B 3/08 - B32B 3/22
B32B 3/24	covered by	B32B 3/266
B32B 5/28	covered by	B32B 2260/021 - B32B 2260/023
B32B 17/02	covered by	B32B 2262/101
B32B 17/04	covered by	B32B 2262/101 and B32B 2260/04
B32B 17/12	covered by	B32B 17/067
B32B 23/02	covered by	B32B 2262/04 and B32B 5/02 - B32B 5/12
B32B 27/02	covered by	B32B 2262/02 - B32B 2262/0292 and B32B 5/02 - B32B 5/12
B32B 27/04	covered by	B32B 2260/048

Project: MP0381 (B62B)

M   B62B   **HAND-PROPELLED VEHICLES, e.g. HAND CARTS, PERAMBULATORS; SLEDGES**

NOTES

1. In this subclass, the term "hand carts" also embraces hand-propelled wheeled devices in so far as the features thereof are generic to hand carts. This term also embraces pedestrian-controlled power-driven vehicles in so far as the features thereof are generic to hand carts

2. Rollers are taken as being equivalent to wheels

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:

B62B 3/065	covered by	*B62B 3/0618*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (B62D)

M B62D   **MOTOR VEHICLES; TRAILERS (steering, or guiding on a desired track, of agricultural machines or implements A01B 69/00; wheels, castors, axles, increasing wheel adhesion B60B; vehicle tyres, tyre inflation or tyre changing B60C; connections between vehicles of a train or the like B60D; vehicles for use on rail and road, amphibious or convertible vehicles B60F; suspension arrangements B60G; heating, cooling, ventilating or other air treating devices B60H; windows, windscreens, non-fixed roofs, doors or similar devices, protective coverings for vehicles not in use B60J; propulsion plant arrangements, auxiliary drives, transmissions, controls, instrumentation or dashboards B60K; electric equipment or propulsion of electrically-propelled vehicles B60L; power supply for electrically-propelled vehicles B60M; passenger accommodation not otherwise provided for B60N; adaptations for load transportation or to carry special loads or objects B60P; arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general B60Q; vehicles, vehicle fittings or vehicle parts not otherwise provided for B60R; servicing, cleaning, repairing, supporting, lifting, or manoeuvring, not otherwise provided for, B60S; brake arrangements, brake control systems or parts thereof B60T; air-cushion vehicles B60V; motor-cycles, accessories therefor B62J, B62K; testing of vehicles G01M)**

NOTE

In this subclass, the following terms are used with the meanings indicated:
- "vehicles" include motor vehicles and trailers;
- "trailers" include forecars or sidecars.

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:

B62D 25/13	covered by	B60J 1/20, B60R 13/07
B62D 25/22	covered by	B60R 3/00
B62D 65/08	covered by	B60J 10/45
B62D 101/00-B62D 137/00	covered by	*B62D 6/00 - B62D 6/008*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: RP0238 (B64D)

U B64D 45/00   **Aircraft indicators or protectors not otherwise provided for (camouflage F41H 3/00)**

C B64D 45/0015   · {Devices specially adapted for the protection against criminal attack, e.g. anti-hijacking systems}

> *WARNING*
> *Group B64D 45/0015 is impacted by reclassification into groups B64D 45/0018, B64D 45/0021, B64D 45/0026, B64D 45/0028 and B64D 45/0029.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N B64D 45/0018   · · {means on aircraft for restricting unauthorized access to the aircraft}

> *WARNING*
> *Group B64D 45/0018 is incomplete pending reclassification of documents from group B64D 45/0015.*
> *Groups B64D 45/0015 and B64D 45/0018 should be considered in order to perform a complete search.*

D	B64D 2045/002	· · ~~{by disabling or restraining attackers}~~

<administratively transferred to B64D 45/0036 INV>

N	B64D 45/0021	· · *{means for restricting access to flight deck}*

WARNING

Group B64D 45/0021 is incomplete pending reclassification of documents from group B64D 45/0015.
Groups B64D 45/0015 and B64D 45/0021 should be considered in order to perform a complete search.

D	B64D 2045/0025	· · · ~~{by spraying gases in cabins, or by shooting darts with anesthetic effects}~~

<administratively transferred to B64D 45/0042 INV>

N	B64D 45/0026	· · · *{by creating a secure space between the flight deck and cabin}*

WARNING

Group B64D 45/0026 is incomplete pending reclassification of documents from group B64D 45/0015.
Groups B64D 45/0015 and B64D 45/0026 should be considered in order to perform a complete search.

N	B64D 45/0028	· · · *{doors or door arrangements specially adapted to restrict unauthorized access}*

WARNING

Group B64D 45/0028 is incomplete pending reclassification of documents from group B64D 45/0015.
Groups B64D 45/0015 and B64D 45/0028 should be considered in order to perform a complete search.

N	B64D 45/0029	· · · · *{electrically actuated}*

WARNING

Group B64D 45/0029 is incomplete pending reclassification of documents from group B64D 45/0015.
Groups B64D 45/0015 and B64D 45/0029 should be considered in order to perform a complete search.

D	B64D 2045/003	· · ~~{by monitoring cabins}~~

<administratively transferred to B64D 45/0051 INV>

Q	B64D 45/0031	· · *{means for overriding or restricting access to flight controls}*

WARNING

Group B64D 45/0031 is impacted by reclassification into group B64D 45/0034.
Groups B64D 45/0031 and B64D 45/0034 should be considered in order to perform a complete search.

N	B64D 45/0034	· · · *{by ground-control override}*

WARNING

Group B64D 45/0034 is incomplete pending reclassification of documents from group B64D 45/0031.
Groups B64D 45/0031 and B64D 45/0034 should be considered in order to perform a complete search.

D	B64D 2045/0035	· · · ~~{using cameras}~~

<administratively transferred to B64D 45/0053 INV>

Q   *B64D 45/0036*   · · {by disabling or restraining attackers}

> WARNING
>
> Group B64D 45/0036 is impacted by reclassification into groups
> B64D 45/0039, B64D 45/0044, and B64D 45/0048.
> All groups listed in this Warning should be considered in order to perform a
> complete search.

N   *B64D 45/0039*   · · · {by electrical shock}

> WARNING
>
> Group B64D 45/0039 is incomplete pending reclassification of documents
> from group B64D 45/0036.
> Groups B64D 45/0036 and B64D 45/0039 should be considered in order to
> perform a complete search.

D   B64D 2045/004   · · · {detecting passenger or pilot behaviors by sensors, e.g. biometrics}

> <administratively transferred to B64D 45/0056 INV>

N   *B64D 45/0042*   · · · {by spraying or injecting chemicals}

N   *B64D 45/0044*   · · · {by restraining within seats}

> WARNING
>
> Group B64D 45/0044 is incomplete pending reclassification of documents
> from group B64D 45/0036.
> Groups B64D 45/0036 and B64D 45/0044 should be considered in order to
> perform a complete search.

D   B64D 2045/0045   · · {by communicating emergency situations to ground control, or between crew members}

> <administratively transferred to B64D 45/0059 INV>

N   *B64D 45/0048*   · · · {by harnesses, nets, ropes, or the like (B64D 45/0044 takes precedence)}

> WARNING
>
> Group B64D 45/0048 is incomplete pending reclassification of documents
> from group B64D 45/0036.
> Groups B64D 45/0036 and B64D 45/0048 should be considered in order to
> perform a complete search.

D   B64D 2045/005   · · {by protecting cabin or luggage from bombs}

> <administratively transferred to B64D 45/0061 INV>

N   *B64D 45/0051*   · · {by monitoring passengers or crew on aircraft}

N   *B64D 45/0053*   · · · {using visual equipment, e.g. cameras}

D   B64D 2045/0055   · · {by overriding pilot's controls, or by directing aircraft from ground control to avoid certain paths or zones}

> <administratively transferred to B64D 45/0031 INV>

N   *B64D 45/0056*   · · · {detecting passenger or crew behavior by sensors, e.g. biometrics}

N   *B64D 45/0059*   · · {by communicating emergency situations to ground control or between crew members}

D   B64D 2045/006   · · {by avoiding the use of electronic equipment during flight, e.g. of mobile phones or laptops}

> <administratively transferred to B64D 45/0063 INV>

N   *B64D 45/0061*   · · {by protecting cabin or cargo hold from bombs}

N   *B64D 45/0063*   · · {by avoiding the use of electronic equipment during flight, e.g. of mobile phones or laptops}

Project: MP0381 (B65D)

M B65D   **CONTAINERS FOR STORAGE OR TRANSPORT OF ARTICLES OR MATERIALS, e.g. BAGS, BARRELS, BOTTLES, BOXES, CANS, CARTONS, CRATES, DRUMS, JARS, TANKS, HOPPERS, FORWARDING CONTAINERS; ACCESSORIES, CLOSURES, OR FITTINGS THEREFOR; PACKAGING ELEMENTS; PACKAGES**

NOTES

1. In this subclass, the indexing codes of B65D 2519/00004 - B65D 2519/00995 should be added, if applicable

2. This subclass covers:
  • containers, packaging elements or packages with auxilliary means or provisions for displaying articles or materials;
  • methods of packaging which are wholly characterised by the form of the package produced or the form of the container or packaging element used, as distinct from the operations performed or the apparatus employed, which are covered by subclass B65B

3. This subclass, which is intended to be as comprehensive as possible, only excludes containers or packages of a nature clearly confined to a single other subclass, which are classified in that subclass

4. In this subclass, groups B65D 5/00, B65D 27/00, B65D 29/00, B65D 31/00 or B65D 65/00 include constructional features of foldable or erectable container or wrapper blanks as well as the containers or wrappers formed by folding or erecting such blanks

5. Containers, packaging elements or packages classified in group B65D 85/00, are also classified according to the constructional or functional features, if such features are of interest

6. In this subclass, the following terms or expressions are used with the meanings indicated:
  • "rigid or semi-rigid containers" includes:
      a. containers not deformed by, or not taking-up the shape of, their contents;
      b. containers adapted to be temporarily deformed to expel their contents;
      c. pallets;
      d. trays;
  • "flexible containers" includes:
      a. containers deformed by, or taking-up the shape of, their contents:
      b. containers adapted to be permanently deformed to expel their contents;
  • "packaging elements" includes:
      a. elements, other than containers, for covering, protecting,stiffening, or holding together articles or materials tobe stored or transported;
      b. packaging materials of special type or form not provided for in other subclasses;
  • "packages" includes:
      a. combination of containers or packaging elements with articles or materials to be stored or transported:
      b. articles joined together for convenience of storage or transport;
  • "paper" includes materials, e.g. cardboard, plastic sheet materials, laminated materials, or metal foils, worked in a manner analogous to paper;
  • "large containers", in groups B65D 88/00 or B65D 90/00, means containers having about the size of containers used in container traffic, sometimes

referred to as freight, forwarding or "ISO" (International Standardization) containers, or larger containers

7. Tamper-indicating means for containers or closures are classified in the group appropriate to the type of container of closure, e.g. B65D 5/54, B65D 17/00, B65D 27/30, B65D 27/30, B65D 27/34, B65D 33/34, B65D 41/32, B65D 47/36, B65D 49/12, B65D 51/20, B65D 55/06

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:

B65D 5/34	covered by	B65D 5/325
B65D 5/35	covered by	~~B65D 5/32~~ *B65D 5/325*
B65D 5/355	covered by	B65D 5/0005
B65D 5/43	covered by	B65D 5/42
B65D 5/462	covered by	B65D 5/46008 - B65D 5/46032
B65D 5/465	covered by	B65D 5/46008 - B65D 5/46032
B65D 5/468	covered by	B65D 5/4608
B65D 5/472	covered by	B65D 5/46048
B65D 5/475	covered by	B65D 5/46008
B65D 5/478	covered by	B65D 5/46056
B65D 5/4805 - B65D 5/489	covered by	B65D 5/48002
B65D 5/49 - B65D 5/499	covered by	B65D 5/48024
B65D 5/63	covered by	B65D 5/72
B65D 6/00 - B65D 6/40	covered by	B65D 7/00, B65D 9/00, B65D 11/00, B65D 15/00
B65D 8/00 - B65D 8/22	covered by	B65D 7/00, B65D 9/00, B65D 11/00, B65D 15/00
B65D 19/22	covered by	B65D 19/0004
B65D 19/24	covered by	B65D 19/0004
B65D 19/26	covered by	B65D 19/0004
B65D 19/28	covered by	B65D 19/0004
B65D 19/30	covered by	B65D 19/0004
B65D 19/31	covered by	B65D 19/0004
~~B65D 19/34~~ *B65D 19/32*	covered by	*B65D 19/0002* , B65D 19/0004
~~B65D 19/32~~ *B65D 19/34*	covered by	~~B65D 19/0002~~, B65D 19/0004
B65D 21/024	covered by	B65D 21/0201
B65D 21/028	covered by	B65D 21/0204
B65D 21/032	covered by	~~B65D 21/0211~~ *B65D 21/0209*
B65D 21/036	covered by	B65D 21/0217
B65D 25/26	covered by	B65D 81/02
B65D 30/00 - B65D 30/28	covered by	B65D 29/00, B65D 31/00
B65D 33/17	covered by	B65D 33/1633
B65D 33/36	covered by	B65D 75/58
B65D 33/38	covered by	B65D 75/5861
B65D 35/48 - B65D 35/54	covered by	B65D 47/2018
B65D 39/18	covered by	B65D 39/00
B65D 41/01	covered by	B65D 41/00
B65D 43/03	covered by	B65D 43/00 + B65D 2543/00027

B65D 43/04	*covered by*	*B65D 43/0214*
B65D 43/10	*covered by*	*B65D 43/0204*
B65D 47/22	covered by	B65D 47/20
B65D 47/34	covered by	B05B 11/00
~~B65D 50/06~~	~~covered by~~	~~B65D 55/02~~
B65D 50/08	covered by	B65D 55/02
B65D 50/10	covered by	B65D 55/02
B65D 50/12	covered by	B65D 55/02
B65D 50/14	covered by	B65D 55/02
B65D 65/26 - B65D 65/32	covered by	B65D 75/58
B65D 65/34	covered by	B65D 75/66
B65D 65/36	covered by	B65D 75/58
B65D 71/52 - B65D 71/68	covered by	B65D 71/0003 - B65D 71/0077
B65D 75/60 - B65D 75/64	covered by	B65D 75/58
B65D 81/15	covered by	B65D 81/05
B65D 81/17	covered by	B65D 81/02
B65D 83/18 ~~- B65D 83/74~~	covered by	~~B65D 83/14~~*B65D 83/201*, ~~B65D 83/16~~*B65D 83/206*
~~B65D 83/18~~	~~covered by~~	~~B65D 83/201~~
B65D 83/58	covered by	B65D 83/44
B65D 83/76	covered by	B65D 83/0005
B65D 85/57	covered by	G11B 23/00
B65D 85/575	covered by	G11B 23/00
B65D 85/86 - B65D 85/90	covered by	H01L 21/00, H05K 13/00

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (B65G)

M B65G   **TRANSPORT OR STORAGE DEVICES, e.g. CONVEYORS FOR LOADING OR TIPPING, SHOP CONVEYOR SYSTEMS OR PNEUMATIC TUBE CONVEYORS (packaging B65B; handling thin or filamentary materials, e.g. paper sheets or thread, B65H; cranes B66C; portable mobile or lifting or hauling appliances, e.g. hoists, B66D; devices for lifting or lowering goods for loading or unloading purposes, e.g. fork-lift trucks, B66F 9/00; emptying bottles, jars, casks, barrels or similar containers, not otherwise provided for, B67C 9/00; delivering or transferring liquids B67D; filling or discharging vessels for liquefied, solidified or compressed gases F17C; pipe-line systems for fluids F17D)**

NOTE

This subclass does not cover road or railway vehicles, waterborne vessels or aircraft per se, or their adaptation for transport purposes. This subject matter is covered by classes B60 - B64, for example in the following places:
- vehicles adapted for load transportation B60P;
- railway wagons adapted for load transportation B61D;
- hand carts B62B;
- superstructures for load-carrying vehicles B62D 33/00;
- loading or load-accommodating arrangements on ships or vessels B63B 25/00, B63B 27/00;

- equipment for handling freight in aircraft B64D 9/00

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:

~~B65G33/28~~	~~covered by~~	~~B65G 33/265~~
B65G 47/10	covered by	B65G 1/1373
B65G 47/86	covered by	B65G 47/842, B65G 47/847
~~B65G 49/07~~	~~covered by~~	~~H01L 21/677~~
B65G 69/32	covered by	B65G 69/28
B65G 69/34	covered by	B65G 69/28

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (B65H)

M	B65H	**HANDLING THIN OR FILAMENTARY MATERIAL, e.g. SHEETS, WEBS, CABLES**

NOTES

1. This subclass does not cover methods or devices intimately associated with other operations on thin or filamentary material, e.g. sheets, webs, cables or means for performing such operations, which are classified in the relevant subclasses for these operations, e.g.:

B07C	Postal sorting, similar sorting of documents, e.g. cheques
B08B 1/02	Cleaning travelling work, e.g. webs, by methods involving the use of tools, brushes or like members
B21B 41/00	Metal rolling involving guiding, conveying or accumulating easily-flexible work, e.g. wire, sheet metal bands, in loops or curves
B21C 47/00	, Winding-up,coiling, winding-off or temporarily
B21C 49/00	accumulating metal wire, metal band or other flexible metal material, characterised by features relevant to metal processing only, other than by rolling
B21D 43/00	Feeding, positioning or storing devices, combined with, or arranged in, or specially adapted for use in connection with, apparatus for working or processing sheet metal without essentially removing material
B23K 9/12	Means for automatic feeding of electrodes for spot or seam welding or cutting
B29C 31/00	Handling for shaping or joining of plastics, for shaping of substances in a plastic state in general or for after-treatment of shaped products, e.g. feeding the material to be shaped
B41B 15/32	, Film-handling mechanisms in photographic
B41B 21/32	composing machines
B41F 13/02	Conveying or guiding webs through rotary printing presses or machines
B41J 11/00	to Handling of copy- or impression-transfer material
B41J 17/00	in typewriters or selective printing mechanisms
B41K 3/44	Means for handling copy matter in stamping or numbering apparatus or devices
B41L	Handling sheets or webs in apparatus or devices for manifolding, duplicating or printing for office or other commercial purposes, or on addressing machines or like series-printing machines

B42B	Handling relating to permanently attaching together sheets, quires, or signatures
B42C	Handling sheets in book-binding
B65B	Handling of sheets or webs in apparatus for, or methods of, packaging articles, not of interest apart from their application in packaging machines
B65C	Handling of labels in labelling or tagging apparatus
C14B 1/62	Winding or stacking hides or leather in machines or devices for manufacturing leather
D01- D07	Spinning, weaving, braiding, lace-making, knitting, sewing, making ropes or cables
D21F 2/00	Transferring webs from wet ends to press sections in paper-making
F26B 13/00	Handling fabrics, fibres, yarns or other material in long lengths in drying apparatus
G03B	Film-strip handling or handling of pictures in apparatus for taking photographs or for projecting or viewing them
G06K 13/00	Conveying record carriers from one station to another
G06M 7/00	Counting of flat articles, e.g. sheets, carried by a conveyor
G11B 15/00	to Information storage based on relative movement
G11B 19/00	, between record carrier and transducer,
G11B 23/00	, involving handling record carriers for
G11B 25/00	recording or reproducing
H01F 41/06	Manufacturing coils for magnets, inductances, transformers, by winding
H01G 13/02	Machines for winding capacitors
H04N 1/00	Sheet handling not of interest apart from its use in systems for transmission or reproduction of pictures or patterns not varying in time, e.g. facsimile transmission

2. In this subclass:
    - the groups relating to thin material, as defined under (i) of Note (3) below, are primarily intended to cover the handling of articles made of paper or cardboard,but also include the handling of articles made of other materials which have similar characteristics or present similar handling problems, e.g. articles made of sheet- plastics or leather;
    - the groups relating to filamentary material (groups B65H 49/00 onwards,) as defined in Note (3) below, cover only methods or devices of general application or interest.

3. In this subclass, the following terms or expressions are used with the meanings indicated:
    - "handling" includes feeding, folding (other than in the manufacture of products), guiding, orientating, storing, unwinding, and winding;
    - "thin material" includes:
        - i. sheets, signatures, envelopes, blanks, and thin and thin piles thereof (hereinafter referred to as "articles"), and
        - ii. webs, tapes, and films, e.g. of paper, fabric, metal foil, or plastics;
    - "filamentary material" includes thread, wires, ropes, cables, and hoses;
    - "package" means a mass of filamentary material, formedby coiling, depositing, or winding, with or without a supporting core or former or an enclosing container or receptacle.
    - {"yarn" also covers similar filamentary materials.}

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:

B65H 19/16   covered by   *B65H 19/1889*

B65H 35/07	covered by	B65H 35/0006
B65H 77/00	covered by	B65H 23/00, B65H 59/00
~~B65H 83/00, B65H 83/02~~	~~covered by~~	~~B07C 1/025, G07D 11/00 and s.gr~~
~~B65H 85/00~~	~~covered by~~	~~G03B 27/62, G03B 27/6264, G03B 27/6257~~

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (C01B)

M   C01B   **NON-METALLIC ELEMENTS; COMPOUNDS THEREOF; {METALLOIDS OR COMPOUNDS THEREOF NOT COVERED BY SUBCLASS C01C}**

NOTES

1. In this subclass, tradenames that are often found in scientific and patent literature have been used in order to define precisely the scope of the groups.

2. Attention is drawn to the definitions of groups of chemical elements following the title of section C.

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:

~~**C01B31/16**~~	~~covered by~~	~~B01J 39/24, B01J 41/18~~
C01B 35/16, C01B 35/18	covered by	~~C01B 35/00~~ *C01B 35/02* ~~+ s.gr~~ *- C01B 35/146*~~.~~

2. General concordance IPC4 or IPC5 to IPC6 groups is as follows:

C01B 25/37	(partly) :	C01B 37/002
C01B 25/453	:	C01B 37/00,
C01B 39/54		
C01B 33/185	:	C01B 37/02
C01B 33/28	and subgroups :	C01B 37/00,
C01B 39/00		
C01B 35/1009	:	C01B 37/06,
C01B 39/12,	C01B 39/54	

3. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (C03C)

M   C03C   **CHEMICAL COMPOSITION OF GLASSES, GLAZES, OR VITREOUS ENAMELS; SURFACE TREATMENT OF GLASS; SURFACE TREATMENT OF FIBRES OR FILAMENTS MADE FROM GLASS, MINERALS OR SLAGS; JOINING GLASS TO GLASS OR OTHER MATERIALS**

NOTES

1. This subclass covers compositions of polycristalline fibres

2. This subclass does not cover the preparation of single-cristal fibres, which is covered by subclass C30B

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:

C03C 6/00 *- C03C 6/10*	covered by	C03C 1/00 *- C03C 1/105*
~~C03C 6/02-C03C 6/10~~	~~covered by~~	
C03C 10/02 - C03C 10/14	covered by	C03C 10/00
C03C 13/02	covered by	C03C 13/00

C03C 27/12	covered by	B32B 17/00

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (C04B)

M	C04B	**LIME, MAGNESIA; SLAG; CEMENTS; COMPOSITIONS THEREOF, e.g. MORTARS, CONCRETE OR LIKE BUILDING MATERIALS; ARTIFICIAL STONE {(roofing granules E04D 7/005)}; CERAMICS (devitrified glass-ceramics C03C 10/00); REFRACTORIES; TREATMENT OF NATURAL STONE**

NOTES

1. In this subclass, the following terms or expressions are used with the meanings indicated:
   - "fillers" includes pigments, aggregates and fibrous reinforcing materials;
   - "active ingredients" includes processing aids or property improvers, e.g. grinding aids used after the burning process or used in the absence of a burning process;
   - "mortars", "concrete" and "artificial stone" are to be considered as a single group of materials, and therefore, in the absence of an indication to the contrary, they include mortar, concrete and other cementitious compositions.

2. In groups C04B 7/00 - C04B 32/00, in the absence of an indication to the contrary, classification is made in the last appropriate place.

3. A composition classified in groups C04B 26/00 or C04B 28/00 is also classified in groups C04B 14/00 - C04B 24/00 if a filler or active ingredient is of interest.

4. In groups C04B 2/00 - C04B 32/00 and C04B 38/00 - C04B 41/00 it is desirable to classify the individual constituents of the mixtures, or other aspects relating to the mixtures or constituents, using Combination Sets with symbols chosen from groups C04B 2/00 - C04B 41/00.

5. In groups C04B 2/00 - C04B 32/00 and C04B 38/00 - C04B 41/00 it is desirable to classify the function of the individual constituents of the mixtures, or other aspects relating to the properties or uses of the mixtures or products obtained, using Combination Sets with symbols chosen from groups C04B 2103/00 - C04B 2111/00.

6. Groups C04B 20/123 and C04B 20/126 are used for indexing purposes only of documents classified in C04B 20/12

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:

C04B 5/02	covered by	B01J 2/00, C21B 3/06
C04B 28/20, C04B 28/22	covered by	C04B 28/18, C04B 28/182, C04B 28/184, C04B 28/186, C04B 28/188
C04B 35/035	covered by	C04B 35/26, C04B 35/2608, C04B 35/2616, C04B 35/2625, C04B 35/2633, C04B 35/2641, C04B 35/265, C04B 35/2658, C04B 35/2666, C04B 35/2675, C04B 35/2683, C04B 35/2691

C04B 35/28-C04B 35/40	covered by	*C04B 35/26*
C04B 35/30	*covered by*	*C04B 35/26*
C04B 35/32	*covered by*	*C04B 35/26*
C04B 35/34	*covered by*	*C04B 35/26*
C04B 35/36	*covered by*	*C04B 35/26*
C04B 35/38	*covered by*	*C04B 35/26*
C04B 35/40	*covered by*	*C04B 35/2608, C04B 35/2641, C04B 35/2675*
C04B 35/567, C04B 35/569, C04B 35/576, C04B 35/577	covered by	C04B 35/565, C04B 35/571, C04B 35/573, C04B 35/575, C04B 35/5755, C04B 35/806
C04B 35/582	covered by	C04B 35/581, C04B 35/806
C04B 35/5833, C04B 35/5835	covered by	C04B 35/583, C04B 35/806
C04B 35/586, C04B 35/587, C04B 35/594, C04B 35/596	covered by	C04B 35/584, C04B 35/589, C04B 35/591, C04B 35/593, C04B 35/5935, C04B 35/806
C04B 35/599	covered by	C04B 35/597
C04B 35/81	covered by	C04B 35/78
C04B 35/84	covered by	C04B 35/628, C04B 35/78

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (C05G)

M C05G	**MIXTURES OF FERTILISERS COVERED INDIVIDUALLY BY DIFFERENT SUBCLASSES OF CLASS C05; MIXTURES OF ONE OR MORE FERTILISERS WITH MATERIALS NOT HAVING A SPECIFIC FERTILISING ACTIVITY, e.g. PESTICIDES, SOIL-CONDITIONERS, WETTING AGENTS (organic fertilisers containing added bacterial cultures, mycelia, or the like C05F 11/08; organic fertilisers containing plant vitamins or hormones C05F 11/10); FERTILISERS CHARACTERISED BY THEIR FORM**

NOTES

1. This subclass covers mixtures of fertilisers with soil-conditioning or soil-stabilising materials characterised by their fertilising activity.

2. This subclass does not cover mixtures of fertilisers with soil-conditioning or soil-stabilising materials characterised by their soil-conditioning or soil-stabilising activity, which are covered by group C09K 17/00.

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:

C05G 1/02 - C05G 1/10	covered by	C05 *C05G 1/00 - C05B 19/02 , C05C 1/00 - C05C 11/00, C05D 1/00 - C05D 9/02 , C05F 1/00 - C05F 17/0294*
C05G 3/10	covered by	C05G 3/0088
C05G 5/00	covered by	C05G 3/0005
(see internal note after the title of class C05)		

Project: MP0381 (C07B)

M	**C07B**	**GENERAL METHODS OF ORGANIC CHEMISTRY; APPARATUS THEREFOR (preparation of carboxylic acid esters by telomerisation C07C 67/47; telomerisation C08F)**

NOTES

1. In this subclass, the functional group which is present already in some residue being introduced and is not substantially involved in a chemical reaction, is not considered as the functional group which is formed or introduced as a result of the chemical reaction.

2. In this subclass, the following term is used with the meaning indicated:
   - "separation" means separation only for the purposes of recovering organic compounds.

3. When classifying in this subclass, classification is also made in group B01D 15/08 insofar as subject matter of general interest relating to chromatography is concerned

4. In this subclass, 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 according to the type of reaction employed, noting the bond or the functional group which is formed or introduced as a result of the chemical reaction.

5. {C07B 59/00 and subgroups thereof are used for the classification of individual labelled compounds as well as for general methods.}

6. {C07B 61/02 is used for the classification of individual free radicals as well as for general methods.}

WARNING

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

C07B 60/00	covered by	*C07B 61/02*

Project: MP0381 (C08B)

M	**C08B**	**POLYSACCHARIDES; DERIVATIVES THEREOF (polysaccharides containing less than six saccharide radicals attached to each other by glycosidic linkages C07H; fermentation or enzyme-using processes C12P 19/00; sugar industry C13; production of cellulose D21)**

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:

C08B 37/02	covered by	*C08B 37/0021*
C08B 37/04	covered by	*C08B 37/0084*
C08B 37/06	covered by	C08B 37/0045
C08B 37/08	covered by	*C08B 37/003 (chitin), C08B 37/0072 (hyaluronic acid) and C08B 37/0069 (chondroitin sulfate)*
C08B 37/10	covered by	C08B 37/0075
~~C08B 37/12~~*C08B 37/16*	covered by	~~C08B 37/0039~~*C08B 37/0012*
~~C08B 37/16~~	~~covered by~~	

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (C08H)

M C08H   **DERIVATIVES OF NATURAL MACROMOLECULAR COMPOUNDS (polysaccharides C08B; natural rubber C08C; natural resins or their derivatives C09F; bituminous materials C10)**

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:

C08H 7/00   covered by   *C08H 6/00*

Project: MP0381 (C08J)

M C08J   **WORKING-UP; GENERAL PROCESSES OF COMPOUNDING; AFTER-TREATMENT NOT COVERED BY SUBCLASSES C08B, C08C, C08F, C08G (mechanical aspects B29; layered products, manufacture thereof B32B; treatment of macromolecular material specially adapted to enhance its filling properties in mortars, concrete or artificial stone C04B 16/04, C04B 18/20, C04B 20/00; treatment of textiles D06)**

NOTES

1. This subclass covers processes, not covered by subclasses C08B - C08H, for treating polymers.
In this subclass, in the absence of an indication to the contrary, classification is made in the last appropriate place

2. When classifying in subclass C08J, the treatment of specific polymers is indicated using indexing codes chosen from C08J 2300/00 or subgroups thereof.
Example:
  * Preparation of particles of polystyrene by impregnation of the particles with the blowing agent: C08J 9/18 and C08J 2325/06.

The use of a polymeric component in minority, e.g. masterbatch, coating, impregnating agent or thin binder is indicated using indexing codes chosen from C08J 2400/00 or subgroups thereof. Examples:
  * Use of PMMA as masterbatch in a polystyrene composition: C08J 3/226 and C08J 2325/06 and C08J 2433/10
  * Bonding of polystyrene by heating: C08J 5/121 and C08J 2325/06
  * Coating of a polyethylene substrate with a polyurethane coating: C08J 7/047 and C08J 2323/06 and C08J 2475/04
  * Use of ABS as an additive for foamed polyacrylamide : C08J 9/0061 and C08J 2333/26 and C08J 2455/02

In the following subgroups, the codes of C08J 2300/00 - C08J 2399/00 are used to specify:
  * C08J 3/226 : the polymeric material to which the masterbatch carrier is added.
  * C08J 7/047 : the polymeric substrate to be coated.
  * C08J 9/0061 : the polymeric component in majority in a multicomponents foamable blend.

3. Group C08J 2400/00 was introduced on January 1st, 2012. Patent documents are continuously being reclassified. As a consequence, documents published before 01/01/2012, and to which C08J 2400/00 indexing codes were allocated, are indexed in the corresponding head group. Example:
  * Use of PMMA as masterbatch in a polystyrene composition: C08J 3/226 and C08J 2325/06 and C08J 2433/00, instead of C08J 2433/10.

In the following subgroups, the codes of C08J 2400/00 - C08J 2499/00 are used to specify:
  * C08J 3/226 : the polymeric carrier in a masterbatch.
  * C08J 5/12 : the chemical nature of the adhesive

- C08J 7/047 : the chemical nature of the coating(s).
- C08J 9/0061 : the polymeric component in minority in a multicomponents foamable blend.
- C08J 9/224, C08J 9/236, C08J 9/36, C08J 9/40 and C08J 9/42 : the polymer used for coating, binding, or impregnating the foam. C08J 9/26 : the polymer to be leached out.
- C08J 9/33 and C08J 9/35 : the foam fragments included in the (foamable) polymer matrix.
- in all other subgroups, when the presence of a polymeric component in minority is of relevance.

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:

C08J 5/14	covered by	~~B24D 3/20~~ *B24D 3/22*, *B24D 3/28* ~~,~~ F16D 69/02
C08J 5/16	covered by	~~C10M~~ *C10N 2250/18*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0373 (C08K)

M	**C08K**	~~USE OF INORGANIC OR NON-MACROMOLECULAR ORGANIC SUBSTANCES AS COMPOUNDING INGREDIENTS~~ *Use of inorganic or non-macromolecular organic substances as compounding ingredients* **(**~~pesticides, herbicides A01N; pharmaceuticals, cosmetics A61K; explosives C06B;~~ **paints, inks, varnishes, dyes, polishes, adhesives C09;** ~~lubricants C10M; detergents C11D; artificial filaments or fibres D01F; textile treating compositions D06~~**)**

NOTES

~~1. The use of an ingredient for a specific polymer is classified by adding, in a C-set, to the group symbol of C08K, the subdivision of C08L 1/00 - C08L 99/00. Example: Polystyrene containing a carboxylic amide is classified in (C08K 5/20, C08L 25/06).~~

~~2. From April 2012, the use of an ingredient for a specific polymer is classified by adding, in a C-set, to the group symbol of C08K, the subdivision of C08L 1/00 - C08L 99/00. Example: Polystyrene containing a carboxylic amide is classified in (C08K 5/20, C08L 25/06).~~

~~3.~~ *1.* In this subclass, in the absence of an indication to the contrary, an ingredient is classified in the last appropriate place.

~~4.~~ *2.* In this subclass:
- a mixture of ingredients is classified in the most indented group covering all the essential ingredients of the mixture, e.g.:

  ~~a mixture of a monohydric and a polyhydric alcohol C08K 5/05~~
  ~~a mixture of two polyhydric alcohols C08K 5/053~~
  ~~a mixture of an alcohol and an ether C08K 5/04~~
  ~~a mixture of an ether and an amine C08K 5/00~~
  ~~a mixture of an amine and a metal C08K 13/02~~

  a mixture of a monohydric and a polyhydric alcohol C08K 5/05
  a mixture of two polyhydric alcohols C08K 5/053
  a mixture of an alcohol and an ether C08K 5/04
  a mixture of an ether and an amine C08K 5/00
  a mixture of an amine and a metal C08K 13/02
  {This note is applied only for mixtures with more than three essential ingredients. Mixtures with two or three ingredients are classified in the

> *appropriate groups of C08K, e.g. a mixture of Al2O3, an ether and an*
> *amine is classified in C08K 3/22, C08K 5/06 and C08K 5/17}*
>
> ~~{ This note is applied only for mixtures with more than three essential~~
> ~~ingredients. Mixtures with two or three ingredients are classified in the~~
> ~~appropriate groups of C08K, e.g. a mixture of Al2O3, an ether and an~~
> ~~amine is classified in C08K 3/22, C08K 5/06 and C08K 5/17}~~

- ammonium salts are classified in the same way as metal salts

~~5. In this subclass, organic acid salts, alcoholates, phenolates or mercaptides~~
~~are classified in the groups or subgroups of the parent compounds~~

3. In this subclass, any ingredient of a mixture which is not identified by the
classification according to Note (2) above, and the use of which is determined
to be novel and non-obvious, must also be classified in this subclass according
to Note (1). The ingredient can be either a single compound or a composition in
itself. ".{This IPC Note does not apply in CPC}

~~6. The use of an ingredient for a specific polymer is classified by adding to the~~
~~group symbol of C08K and separated therefrom by a "+" sign, the subdivision of~~
~~C08L 1/00 - C08L 99/00.~~
~~Example: Polystyrene containing a carboxylic amide is classified in C08K 5/20 +~~
~~C08L 25/06~~

4. Any ingredient of a mixture which is not identified by the classification
according to Notes (2) or (3) above, and which is considered to represent
information of interest for search, may also be classified in this subclass
according to Note (1). This can, for example, be the case when it is considered
of interest to enable searching of mixtures using a combination of classification
symbols. Such non-obligatory classification should be given as "additional
information".{This IPC Note does not apply in CPC}

~~7. In this subclass are considered as compounding ingredients:~~
- ~~inert additives~~
- ~~radical crosslinking agents, e.g. peroxides, S-containing vulcanisation~~
  ~~agents~~
- ~~coupling agents, i.e. compounds able to improve the adhesion between~~
  ~~filler and macromolecule~~

~~Are not considered as compounding ingredients:~~
- ~~chemical modifying or crosslinking agents which react via a condensation~~
  ~~or addition mechanism (for C08B polymers C08B, for diene rubbers~~
  ~~C08C 19/30, for other vinyl polymers C08F 8/00, for polysiloxanes~~
  ~~C08L 83/00, for other C08G polymers C08G)~~
- ~~solvents or dispersion agents for making polymer solutions, emulsions or~~
  ~~dispersions (C08J 3/02)~~
- ~~blowing agents (C08J 9/04)~~

5. {In this subclass, combination sets [C-Sets] are used. The detailed
information about the C-Sets construction and the associated syntax rules is
present in the definitions of C08K}

6. {In this subclass, organic acid salts, alcoholates, phenolates or mercaptides
are classified in the groups or subgroups of the parent compounds}

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:

C08K 5/5445	covered by	C08K 5/544

M   C08K 3/00   **Use of inorganic substances as compounding ingredients**

NOTE

In this group, C-Sets are used. The detailed information about the C-Sets
construction and the associated syntax rules is present in the Definitions of C08K.

M   C08K 5/00   **Use of organic ingredients**

NOTE
In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K.

M   C08K 7/00   **Use of ingredients characterised by shape**

NOTE
In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K.

M   C08K 9/00   **Use of pretreated ingredients**

NOTE
In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K.

M   C08K 11/00   **Use of ingredients of unknown constitution, e.g. undefined reaction products**

NOTE
In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K.

M   C08K 13/00   **Use of mixtures of ingredients not covered by one single of the preceding main groups, each of these compounds being essential**

NOTE
In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08K.

Project: MP0374, MP0381 (C08L)

M   C08L   **COMPOSITIONS OF MACROMOLECULAR COMPOUNDS (~~pesticides, herbicides A01N; pharmaceuticals, cosmetics A61K; explosives C06B;~~ compositions based on polymerisable monomers C08F, C08G~~; paints, inks, varnishes, dyes, polishes, adhesives C09; lubricants C10M; detergents C11D~~; artificial filaments or fibres D01F; textile treating compositions D06)**

NOTES

1. In this subclass, the following term is used with the meaning indicated:
 • *Rubber includes:*
  a. *natural or conjugated diene rubbers;*
  b. *rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, see the group provided for compositions of such macromolecular compounds).*

2. In this subclass:
 a. *compositions are classified according to the mutual proportions by weight of only the macromolecular constituents;*
 b. *compositions are classified according to the macromolecular constituent or constituents present in the highest proportion: if all these constituents are present in equal proportions the composition is classified according to each of these constituents.*

3. Any macromolecular constituent of a composition which is not identified by the classification according to Note (2) above, and the use of which is determined to be novel and non-obvious, must also be classified in this subclass. For example, a composition containing 80 parts polyethene and 20 parts polyvinyl chloride

is classified in both groups C08L 23/06 and C08L 27/06, if the use of polyvinyl chloride is determined to be novel and non-obvious. {This IPC Note does not apply in CPC}

4. Any macromolecular constituent of a composition which is not identified by the classification according to Notes (2) or (3) above, and which is considered to represent information of interest for search, may also be classified in this subclass. This can, for example, be the case when it is considered of interest to enable searching of compositions using a combination of classification symbols. Such non-obligatory classification should be given as "additional information". {This IPC Note does not apply in CPC}

1. *5.* {Compositions classified in C08K according to note 3 of C08K, are not classified in C08L.}

2. Documents classified before 09.2003: Classification is given in the form of C-Sets. The polymer in majority is given a C08L symbol, and the minor components are characterised by Indexing Codes taken from the list below. The Indexing Codes are linked. The polymer in majority is always first in the C-set. List of C08L codes: C08L 23/00, C08L 23/26, C08L 25/00, C08L 27/00, C08L 27/04, C08L 27/12, C08L 29/00, C08L 31/00, C08L 33/00, C08L 35/00, C08L 37/00, C08L 51/00, C08L 53/00, C08L 55/02, C08L 61/04, C08L 61/20, C08L 63/00, C08L 67/00, C08L 67/02, C08L 67/025, C08L 67/03, C08L 67/04, C08L 67/06, C08L 67/07, C08L 69/00, C08L 69/005, C08L 71/00, C08L 75/04, C08L 77/00, C08L 77/08, C08L 77/12, C08L 79/08, C08L 79/085, C08L 81/00, C08L 83/00, C08L 85/00, C08L 91/06, C08L 95/00 or C08L 2666/00 - C08L 2666/86. Documents from group C08L 23/00 - C08L 23/36, C08L 45/00 - C08L 45/02 and C08L 49/00 have all been reclassified following Note 3 below. An additive is classified in the last appropriate place in the list as selected for each C08L group. Examples:
   a. A composition based on a polyamide and a graft polymer is classified in (C08L 77/00, C08L 2666/24).
   b. A composition based on polyvinylchloride and containing CaCO3 is classified according to note 4 of C08K, i.e. in (C08K 3/26, C08L 27/06). If this composition contains also a polyamide, then the classification will be (C08L 27/06, C08L 77/00, C08K 3/26).
   c. A composition based on a polysiloxane (C08L 83/04) and containing a second polysiloxane, a phenol and silica is classified in (C08L 83/04, C08L 83/04, C08L 2666/34, C08L 2666/58).

6. {In this subclass, combination sets [C-Sets] are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the definitions of C08L}

7. {C08L 2666/00 indexing codes were used for C-Sets classification of documents before April 2012. In addition to note (6), for searching documents classified before April 2012, see also C08L 2666/00 in the definitions of C08L.}

3. *8.* From 01.09.2003 until April 2012: Classification is given in the form of C-Sets. The polymer in majority is given a C08L class, and the minor components are characterised by Indexing Codes taken from C08L or C08K and they are linked or unlinked. The polymer in majority is always first in the C-Set. List of C08L codes in the C-Set: C08L 1/00, C08L 81/00, C08L 83/00, C08L 91/06, C08L 95/00 or C08L 2666/02 - C08L 2666/08, C08L 2666/14 - C08L 2666/26. Examples:
   a. A blend of 60 parts polyvinylchloride (C08L 27/06) and 40 parts polyamide is classified in (C08L 27/06, C08L 2666/20) and C08L 77/00.
   b. A blend of 50 parts polyvinylchloride (C08L 27/06) and 50 parts polyamide (C08L 77/00) is classified in (C08L 27/06, C08L 2666/20) and C08L 77/00, as well as in (C08L 77/00, C08L 2666/04) and C08L 27/06.
   c. A composition based on polyvinylchloride and containing CaCO3 is classified according to [N: Note 4 of C08K, i.e. in (C08K 3/26, C08L 27/06). If this composition contains also a polyamide, then the classification will be (C08L 27/06, C08L 2666/20) and C08K 3/26.

d. A composition based on a first polysiloxane (C08L 83/04) and containing a second polysiloxane, a phenol and silica is classified in (C08L 83/04, C08L 83/04, C08K 5/13, C08K 3/36) and C08L 2205/02.

~~4.~~ *9.* From April 2012 onwards, after the notation C08L, notations concerning the other constituents of the composition may be added, in the form of C-Sets. The further constituent is added with an indexing code. The indexing codes are chosen from C08L 1/00 -C08L 2555/86 or C08K and they may be linked or unlinked: - C08L 1/00 - C08L 101/10 are linked. - C08L 2201/00 - C08L 2555/86 are unlinked. The polymer in majority is always first in the C-Set. Examples:

a. A blend of 60 parts polyvinylchloride (C08L 27/06) and 40 parts polyamide (C08L 77/00) is classified in (C08L 27/06, C08L 77/00).
b. A blend of 50 parts polyvinylchloride (C08L 27/06) and 50 parts polyamide (C08L 77/00) is classified in (C08L 27/06, C08L 77/00) and (C08L 77/00, C08L 27/06).
c. A composition based on polyvinylchloride and containing CaCO3 is classified according to [N: Note 4 of C08K, i.e. in (C08K 3/26, C08L 27/06). If this composition contains also a polyamide, then the classification will be (C08L 27/06, C08L 77/00, C08K 3/26).
d. A composition based on a first polysiloxane (C08L 83/04) and containing a second polysiloxane, a phenol and silica is classified in (C08L 83/04, C08L 83/00, C08K 5/13, C08K 3/36) and C08L 2205/02.
e. A composition containing a polyamide in majority, a polyester and a polyethylene is classified in (C08L 77/00, C08L 67/00, C08L 23/06) and C08L 2205/03.

~~5.~~ *10.* "Rubber" includes:
• natural or conjugated diene rubbers;
• rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, see the group provided for compositions of such macromolecular compounds).

~~6.~~ *11.* In this subclass:
a. compositions are classified according to the mutual proportions by weight of only the macromolecular constituents;
b. compositions are classified according to the macromolecular constituent or constituents present in the highest proportion: if all these constituents are present in equal proportions the composition is classified according to each of these constituents.

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:

C08L 61/08-C08L 61/10	covered by	*C08L 61/06*
C08L 63/02	covered by	*C08L 63/00*
C08L 83/05	covered by	*C08L 83/04*
C08L 83/07	covered by	*C08L 83/04*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0374 (C08L)

M   C08L 1/00   Compositions of cellulose, modified cellulose or cellulose derivatives

NOTE
In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.

M   C08L 3/00   **Compositions of starch, amylose or amylopectin or of their derivatives or degradation products**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 5/00   **Compositions of polysaccharides or of their derivatives not provided for in groups C08L 1/00 or C08L 3/00**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 7/00   **Compositions of natural rubber**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 9/00   **Compositions of homopolymers or copolymers of conjugated diene hydrocarbons**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 11/00   **Compositions of homopolymers or copolymers of chloroprene**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 13/00   **Compositions of rubbers containing carboxyl groups**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 15/00   **Compositions of rubber derivatives (C08L 11/00, C08L 13/00 take precedence)**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 17/00   **Compositions of reclaimed rubber**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M **C08L 19/00** **Compositions of rubbers not provided for in groups [C08L 7/00](#) - [C08L 17/00](#)**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of [C08L](#).*

M **C08L 21/00** **Compositions of unspecified rubbers**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of [C08L](#).*

M **C08L 23/00** **Compositions of homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond; Compositions of derivatives of such polymers**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of [C08L](#).*

M **C08L 25/00** **Compositions of, homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an aromatic carbocyclic ring; Compositions of derivatives of such polymers**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of [C08L](#).*

M **C08L 27/00** **Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a halogen; Compositions of derivatives of such polymers**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of [C08L](#).*

M **C08L 29/00** **Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo, ketonic, acetal or ketal radical; Compositions of hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic acids; Compositions of derivatives of such polymers**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of [C08L](#).*

M   C08L 31/00   **Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid or of a haloformic acid (of hydrolysed polymers C08L 29/00); Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 33/00   **Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and only one being terminated by only one carboxyl radical, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 35/00   **Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical, and containing at least one other carboxyl radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 37/00   **Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen (of cyclic esters of polyfunctional acids C08L 31/00; of cyclic anhydrides of unsaturated acids C08L 35/00); Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 39/00   **Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a single or double bond to nitrogen or by a heterocyclic ring containing nitrogen; Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 41/00   **Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a bond to sulfur or by a heterocyclic ring containing sulfur; Compositions of derivatives of such polymers**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 43/00   **Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing boron, silicon, phosphorus, selenium, tellurium or a metal; Compositions of derivatives of such polymers (of metal salts, e.g. phenolates, alcoholates, see the parent compounds)**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 45/00   **Compositions of homopolymers or copolymers of compounds having no unsaturated aliphatic radicals in side chain, and having one or more carbon-to-carbon double bonds in a carbocyclic or in a heterocyclic ring system; Compositions of derivatives of such polymers (of cyclic anhydrides or imides C08L 35/00; of cyclic esters of polyfunctional acids C08L 31/00)**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 47/00   **Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having two or more carbon-to-carbon double bonds; Compositions of derivatives of such polymers (C08L 45/00 takes precedence; of conjugated diene rubbers C08L 9/00 - C08L 21/00)**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M   C08L 49/00   **Compositions of homopolymers or copolymers of compounds having one or more carbon-to-carbon triple bonds; Compositions of derivatives of such polymers**

> *NOTE*
>
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M C08L 51/00 **Compositions of graft polymers in which the grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds (for ABS polymers C08L 55/02); Compositions of derivatives of such polymers**

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.

M C08L 53/00 **Compositions of block copolymers containing at least one sequence of a polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds; Compositions of derivatives of such polymers**

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.

M C08L 55/00 **Compositions of homopolymers or copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in groups C08L 23/00 - C08L 53/00**

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.

M C08L 57/00 **Compositions of unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds**

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.

M C08L 59/00 **Compositions of polyacetals; Compositions of derivatives of polyacetals (of polyvinyl acetals C08L 29/14)**

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.

M C08L 61/00 **Compositions of condensation polymers of aldehydes or ketones (with polyalcohols C08L 59/00; with polynitriles C08L 77/00); Compositions of derivatives of such polymers**

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.

M C08L 63/00 **Compositions of epoxy resins; Compositions of derivatives of epoxy resins**

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.

M	C08L 65/00	**Compositions of macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain (C08L 7/00 - C08L 57/00, C08L 61/00 take precedence); Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M	C08L 67/00	**Compositions of polyesters obtained by reactions forming a carboxylic ester link in the main chain (of polyester-amides C08L 77/12; of polyester-imides C08L 79/08); Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M	C08L 69/00	**Compositions of polycarbonates; Compositions of derivatives of polycarbonates**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M	C08L 71/00	**Compositions of polyethers obtained by reactions forming an ether link in the main chain (of polyacetals C08L 59/00; of epoxy resins C08L 63/00; of polythioether-ethers C08L 81/02; of polyether-sulfones C08L 81/06); Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M	C08L 73/00	**Compositions of macromolecular compounds obtained by reactions forming a linkage containing oxygen or oxygen and carbon in the main chain, not provided for in groups C08L 59/00 - C08L 71/00; Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M	C08L 75/00	**Compositions of polyureas or polyurethanes; Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M	**C08L 77/00**	**Compositions of polyamides obtained by reactions forming a carboxylic amide link in the main chain (of polyhydrazides C08L 79/06; of polyamideimides or polyamide acids C08L 79/08); Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M	**C08L 79/00**	**Compositions of macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing nitrogen with or without oxygen or carbon only, not provided for in groups C08L 61/00 - C08L 77/00**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M	**C08L 81/00**	**Compositions of macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing sulfur with or without nitrogen, oxygen or carbon only; Compositions of polysulfones; Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

M	**C08L 83/00**	**Compositions of macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing silicon with or without sulfur, nitrogen, oxygen or carbon only; Compositions of derivatives of such polymers**

> NOTE
> ~~In this main group, from 01.09.2010 onwards, new documents are classified according to the following system.The composition is identified with the C-Set, e.g. (**C0L83/04**, C08L 83/04) (for a composition containing two or more siloxanes), while the info~~

> *In this group, C-Sets are used.*
> *The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.*

U	C08L 83/04	· Polysiloxanes
M	C08L 83/06	· · containing silicon bound to oxygen-containing groups (C08L 83/12 takes precedence)

> *NOTE*
> *This group does not comprise Si-OH and Si-OR groups that are classified in C08L 83/04.*

M	**C08L 85/00**	**Compositions of macromolecular compounds obtained by reactions forming a linkage in the main chain of the macromolecule containing atoms other than silicon, sulfur, nitrogen, oxygen and carbon; Compositions of derivatives of such polymers**

> *NOTE*
> *In this group, C-Sets are used.*

The detailed information about the C-Sets construction and the associated syntax
rules is present in the Definitions of C08L.

M **C08L 87/00** **Compositions of unspecified macromolecular compounds, obtained otherwise than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds**

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax
rules is present in the Definitions of C08L.

M **C08L 89/00** **Compositions of proteins; Compositions of derivatives thereof (foodstuff preparations A23J 3/00)**

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax
rules is present in the Definitions of C08L.

M **C08L 91/00** **Compositions of oils, fats or waxes; Compositions of derivatives thereof** ~~(polishing compositions, ski waxes C09G; soaps, detergent compositions C11D)~~

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax
rules is present in the Definitions of C08L.

M **C08L 93/00** **Compositions of natural resins; Compositions of derivatives thereof (**~~polishing compositions C09G~~*of polysaccharides C08L 1/00 - C08L 5/00; of natural rubber C08L 7/00*)

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax
rules is present in the Definitions of C08L.

M **C08L 95/00** **Compositions of bituminous materials, e.g. asphalt, tar, pitch**

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax
rules is present in the Definitions of C08L.

M **C08L 97/00** **Compositions of lignin-containing materials** *(of polysaccharides C08L 1/00 - C08L 5/00)*

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax
rules is present in the Definitions of C08L.

M **C08L 99/00** **Compositions of natural macromolecular compounds or of derivatives thereof not provided for in groups C08L 89/00 - C08L 97/00**

NOTE

In this group, C-Sets are used.

The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.

M   C08L 101/00   **Compositions of unspecified macromolecular compounds**

NOTE

In this group, C-Sets are used.
The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of C08L.

M   C08L 2666/00   **Composition of polymers characterized by a further compound in the blend, being organic macromolecular compounds, natural resins, waxes or and bituminous materials, non-macromolecular organic substances, inorganic substances or characterized by their function in the composition (not used)**

NOTE

These *Indexing* codes are*of C08L 2666/00 have* not *been* used for the classification of new documents *since April 2012*. They*However, they* are a replacement*used in C-Sets searches for documents prior to April 2012. The detailed information about how to search using C08L 2666/00 C-Sets is presented in the Definitions* of C08L*, C09D* the combination *and C09J* classes.

Project: MP0448, MP0381, MP0369 (C09D)

M   C09D   **COATING COMPOSITIONS, e.g. PAINTS, VARNISHES OR LACQUERS; FILLING PASTES; CHEMICAL PAINT OR INK REMOVERS; INKS; CORRECTING FLUIDS; WOODSTAINS; PASTES OR SOLIDS FOR COLOURING OR PRINTING; USE OF MATERIALS THEREFOR (cosmetics A61K; processes for applying liquids or other fluent materials to surfaces, in general, B05D; staining wood B27K 5/02; glazes or vitreous enamels C03C; organic macromolecular compounds C08; organic dyes or closely-related compounds for producing dyes, mordants or lakes, per se , C09B; treatment of inorganic materials other than fibrous fillers used as pigments or fillers C09C; natural resins, French polish, drying-oils, driers, turpentine, per se , C09F; polishing compositions other than French polish, ski waxes C09G; preparation of glue or gelatine C09H, {C08H 1/06} ; adhesives or use of materials as adhesives C09J; materials for sealing or packing joints or covers C09K 3/10; materials for stopping leaks C09K 3/12; processes for the electrolytic or electrophoretic production of coatings C25D; textile-treating compositions D06; paper-making D21; conductors, insulators H01B)**

NOTES

1. In this subclass, the following terms or expressions are used with the meanings indicated:
    a. "use of materials for coating compositions" means the use of known or new polymers or products;
    b. "rubber" includes:
        a. natural or conjugated diene rubbers;
        b. rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, see the group provided for coating compositions based on such macromolecular compounds);
    c. *based on" is defined by means of Note 3, below;*
    d. *filling pastes" means materials used to fill up the holes or cavities of a substrate in order to smooth its surface prior to coating.*
    c. "based on" is defined by means of Note 3, below;

d. ~~"filling pastes" means materials used to fill up the holes or cavities of a substrate in order to smooth its surface prior to coating.~~

2. In this subclass, coating compositions containing specific macromolecular substances are classified only according to the macromolecular substance, non-macromolecular substances not being taken into account.

- Example: a coating composition containing polyethene and amino-propyltrimethoxysilane is classified in group C09D 123/06.
- However, coating compositions containing combinations of organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond with prepolymers or polymers other than unsaturated polymers of groups C09D 159/00 - C09D 187/00 are classified according to the unsaturated non-macromolecular component in group C09D 4/00.
- Example: a coating composition containing polyethene and styrene monomer is classified in group C09D 4/06.
- Aspects relating to the physical nature of the coating compositions or to the effects produced, as defined in group C09D 5/00, if clearly and explicitly stated, are also classified in this subclass.
- Coating compositions characterised by other features, e.g. additives, are classified in group C09D 7/00, unless the macromolecular constituent is specified.

3. In this subclass, coating compositions comprising two or more macromolecular constituents are classified according to the macromolecular constituent or constituents present in the highest proportion, i.e. the constituent on which the composition is based. If the composition is based on two or more constituents, present in equal proportions, the composition is classified according to each of these constituents.
Examples:

- A coating composition containing 80 parts of polyethene and 20 parts of polyvinylchloride is classified in group C09D 123/06;
- A coating composition containing 40 parts of polyethene and 40 parts of polyvinylchloride is classified in groups C09D 123/06 and C09D 127/06.

~~4. Documents classified up until 04.2012: after the notation of group C09D 4/06, and separated therefrom by a + sign, notations concerning the macromolecular compound may be added. The notations are selected from the main groups C08F 251/00 - C08F 291/00 and from the subgroups of C08F 290/00 - C08F 290/048 and C08F 290/08 - C08F 290/128. Example: a paint based on a mixture of methylmethacrylate monomer and a polymer of vinylchloride is classified in C09D 4/06 + C08F 259/04.~~

4. {In this subclass, combination sets [C-Sets] are used. Detailed information about the C-Sets construction and the associated syntax rules is found in the definitions for C09D.}

~~5. From April 2012 onwards, after the notation C09D 4/00, classification concerning the monomer may be added, in the form of C-sets. The notation is selected from C08F 210/00 - C08F 246/00, C08G 77/00 - C08G 77/04 or C08G 77/20 - C08G 77/30. Ex.: A paint based on a mixture of methylmethacrylate monomer and a polymer of vinylchloride is classified (C09D 4/06, C08F 259/04).~~

5. {In addition to Note (4) above C08L 2666/00 indexing codes were used for C-Sets classification of documents before April 2012. See C-Sets Search Rules in C08L, in C09D, or in C09J Definitions.}

~~6. Documents classified up until 09-2003: Classification is given in the form of C-Sets. The polymer in majority is given a C09D 101/00 - C09D 201/10 symbol, and the minor components are characterised by Indexing Codes taken from the list below. The Indexing Codes are linked. The polymer in majority is always first in the C-set. List of C08L codes: C08L 23/00, C08L 23/26, C08L 25/00, C08L 27/00, C08L 27/04, C08L 27/12, C08L 29/00, C08L 31/00,~~

C08L 33/00, C08L 35/00, C08L 37/00, C08L 51/00, C08L 53/00, C08L 55/02, C08L 61/04, C08L 61/20, C08L 63/00, C08L 67/00, C08L 67/02, C08L 67/025, C08L 67/03, C08L 67/04, C08L 67/06, C08L 67/07, C08L 69/00, C08L 69/005, C08L 71/00, C08L 75/04, C08L 77/00, C08L 77/08, C08L 77/12, C08L 79/08, C08L 79/085, C08L 81/00, C08L 83/00, C08L 85/00, C08L 91/06, C08L 95/00 or C08L 2666/00 - C08L 2666/86. Documents from group C09D 123/00 - C09D 123/36, C09D 145/00 - C09D 145/02 and C09D 149/00 have all been reclassified following Note 3 below. An additive is classified in the last appropriate place in the list as selected for each C09D group.
Examples:
   a. A coating composition based on a polyamide and a graft polymer is classified in (C09D 177/00, C08L 2666/24).
   b. A coating composition based on polyvinylchloride and containing CaCO3 is classified according to note 4 of C08K, i.e. in C08K 3/26 and C09D 127/06. If this coating composition contains also a polyamide, then the classification will be (C09D 127/06, C08L 77/00, C08K 3/26).
   c. A coating composition based on a polysiloxane (C09D 183/04) and containing a second polysiloxane, a phenol and silica is classified in (C09D 183/04, C08L 83/04, C08L 2666/34, C08L 2666/54).

7. From 01.09.2003 until April 2012: Classification is given in the form of C-Sets. The polymer in majority is given a C09D symbol, and the minor components are characterised by Indexing Codes taken from C08L or C08K and they are linked or unlinked. The polymer in majority is always first in the C-set. List of indexing codes in the C-Sets: C08L 1/00, C08L 81/00, C08L 83/00, C08L 91/06, C08L 95/00 or C08L 2666/02 - C08L 2666/08, C08L 2666/14 - C08L 2666/26.
Examples:
   a. A coating of 60 parts polyvinylchloride (C09D 127/06) and 40 parts polyamide is classified in (C09D 127/06, C08L 2666/20), C08L 77/00.
   b. A coating of 50 parts polyvinylchloride (C09D 127/06) and 50 parts polyamide (C09D 177/00) is classified in (C09D 127/06, C08L 2666/20), and C08L 77/00, as well as (C09D 177/00, C08L 2666/04) and C08L 27/06
   c. A coating composition based on polyvinylchloride and containing CaCO3 is classified according to [N: Note 4 of C08K, i.e. in C08K 3/26, C09D 127/06. If this composition contains also a polyamide, then the classification will be (C09D 127/06, C08L 2666/20) and C08K 3/26.
   d. A composition based on a first polysiloxane (C09D 183/04) and containing a second polysiloxane, a phenol and silica is classified in (C09D 183/04, C08L 83/00, C08K 5/13, C08K 3/36) and C08L 2205/02.

8. From April 2012 onwards, after the notation of groups C09D 101/00 - C09D 201/00, notations concerning the other constituents of the coating composition may be added, in the form of C-Sets. The further constituent is added with an indexing code. The indexing codes are chosen from C08L 1/00 - C08L 2555/86 or C08K and they may be linked or unlinked: - C08L 1/00 - C08L 101/10 are linked. - C08L 2201/00 - C08L 2555/86 are unlinked. The polymer in majority is always first in the C-set. Examples:
   a. A coating composition containing polyethylene and amino-propyltrimethoxysilane is classified in groups C09D 123/06 and C08K 5/544 (unlinked).
   b. A coating composition containing 80 parts of polyethene and 20 parts of polyvinylchloride is classified in (C09D 123/06, C08L 27/06).
   c. A coating composition containing 40 parts of polyethene and 40 parts of polyvinylchloride is classified in (C09D 123/06, C08L 27/06) and (C09D 127/06, C08L 23/06).

d. A coating composition containing 90% of polysiloxane (C09D 183/04) further containing 10% of polyester (C08L 67/00) and an alcohol is classified in (C09D 183/04, C08L 67/00, C08K 5/05).

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:

C09D 4/02	covered by	C09D 4/00, C08F 220/00
C09D 4/04	covered by	C09D 4/00, C08F 222/00
C09D 5/23	covered by	H01F 41/16
C09D 5/25	covered by	H01B 3/308 *H01B 3/30*
C09D 5/33	covered by	C09D 5/004
C09D 5/46	covered by	C09D 5/03
C09D 161/08, C09D 161/10	covered by	C09D 161/06
C09D 163/02	covered by	C09D 163/00
C09D 171/08	covered by	C09D 171/02
C09D 171/10	covered by	C09D 171/12
C09D 183/05	covered by	C09D 183/04
C09D 183/07	covered by	C09D 183/04, C09D 183/06

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0448 (C09D)

M   C09D 4/00   **Coating compositions, e.g. paints, varnishes or lacquers, based on organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond {; Coating compositions, based on monomers of macromolecular compounds of groups C09D 183/00 - C09D 183/16}**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

Project: MP0369 (C09D)

M   C09D 5/00   **Coating compositions, e.g. paints, varnishes or lacquers, characterised by their physical nature or the effects produced *{(electrically insulating plastics, resins or waxes H01B 3/30)}*; Filling pastes {(magnetisable or magnetic paints H01F 1/00; electrically insulating paints H01B 3/00; paints for electrophoretic applications C25D 13/00)}**

Project: MP0448 (C09D)

M   C09D 101/00   **Coating compositions based on cellulose, modified cellulose, or cellulose derivatives**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 103/00   **Coating compositions based on starch, amylose or amylopectin or on their derivatives or degradation products**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 105/00   **Coating compositions based on polysaccharides or on their derivatives, not provided for in groups C09D 101/00 or C09D 103/00**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 107/00   **Coating compositions based on natural rubber**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 109/00   **Coating compositions based on homopolymers or copolymers of conjugated diene hydrocarbons**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 111/00   **Coating compositions based on homopolymers or copolymers of chloroprene**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 113/00   **Coating compositions based on rubbers containing carboxyl groups**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 115/00   **Coating compositions based on rubber derivatives (C09D 111/00, C09D 113/00 take precedence)**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   **C09D 117/00**   **Coating compositions based on reclaimed rubber**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 119/00**   **Coating compositions based on rubbers, not provided for in groups C09D 107/00 - C09D 117/00**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 121/00**   **Coating compositions based on unspecified rubbers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 123/00**   **Coating compositions based on homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond; Coating compositions based on derivatives of such polymers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 125/00**   **Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an aromatic carbocyclic ring; Coating compositions based on derivatives of such polymers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 127/00**   **Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a halogen; Coating compositions based on derivatives of such polymers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 129/00**   **Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo, ketonic, acetal, or ketal radical; Coating compositions based on hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic acids; Coating compositions based on derivatives of such polymers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 131/00**   **Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid, or of a haloformic acid (based on hydrolysed polymers C09D 129/00); Coating compositions based on derivatives of such polymers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 133/00**   **Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by only one carboxyl radical, or of salts, anhydrides, esters, amides, imides, or nitriles thereof; Coating compositions based on derivatives of such polymers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 135/00**   **Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical, and containing at least another carboxyl radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Coating compositions based on derivatives of such polymers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 137/00**   **Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen (based on polymers of cyclic esters of polyfunctional acids C09D 131/00; based on polymers of cyclic anhydrides of unsaturated acids C09D 135/00); Coating compositions based on derivatives of such polymers**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 139/00**   **Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a single or double bond to nitrogen or by a heterocyclic ring containing nitrogen; Coating compositions based on derivatives of such polymers**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 141/00**   **Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a bond to sulfur or by a heterocyclic ring containing sulfur; Coating compositions based on derivatives of such polymers**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 143/00**   **Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing boron, silicon, phosphorus, selenium, tellurium, or a metal; Coating compositions based on derivatives of such polymers**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   **C09D 145/00**   **Coating compositions based on homopolymers or copolymers of compounds having no unsaturated aliphatic radicals in a side chain, and having one or more carbon-to-carbon double bonds in a carbocyclic or in a heterocyclic system; Coating compositions based on derivatives of such polymers (based on polymers of cyclic esters of polyfunctional acids C09D 131/00; based on polymers of cyclic anhydrides or imides C09D 135/00)**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M C09D 147/00   **Coating compositions based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having two or more carbon-to-carbon double bonds; Coating compositions based on derivatives of such polymers (C09D 145/00 takes precedence; based on conjugated diene rubbers C09D 109/00 - C09D 121/00)**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M C09D 149/00   **Coating compositions based on homopolymers or copolymers of compounds having one or more carbon-to-carbon triple bonds; Coating compositions based on derivatives of such polymers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M C09D 151/00   **Coating compositions based on graft polymers in which the grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds (based on ABS polymers C09D 155/02); Coating compositions based on derivatives of such polymers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M C09D 153/00   **Coating compositions based on block copolymers containing at least one sequence of a polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds; Coating compositions based on derivatives of such polymers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M C09D 155/00   **Coating compositions based on homopolymers or copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in groups C09D 123/00 - C09D 153/00**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M C09D 157/00   **Coating compositions based on unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   C09D 159/00   Coating compositions based on polyacetals; Coating compositions based on derivatives of polyacetals

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   C09D 161/00   Coating compositions based on condensation polymers of aldehydes or ketones (with polyalcohols C09D 159/00; with polynitriles C09D 177/00); Coating compositions based on derivatives of such polymers

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   C09D 163/00   Coating compositions based on epoxy resins; Coating compositions based on derivatives of epoxy resins

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   C09D 165/00   Coating compositions based on macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain (C09D 107/00 - C09D 157/00, C09D 161/00 take precedence); Coating compositions based on derivatives of such polymers

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   C09D 167/00   Coating compositions based on polyesters obtained by reactions forming a carboxylic ester link in the main chain (based on polyester-amides C09D 177/12; based on polyester-imides C09D 179/08); Coating compositions based on derivatives of such polymers

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   C09D 169/00   Coating compositions based on polycarbonates; Coating compositions based on derivatives of polycarbonates

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}*

M   C09D 171/00   **Coating compositions based on polyethers obtained by reactions forming an ether link in the main chain (based on polyacetals C09D 159/00; based on epoxy resins C09D 163/00; based on polythioether-ethers C09D 181/02; based on polyethersulfones C09D 181/06); Coating compositions based on derivatives of such polymers**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 173/00   **Coating compositions based on macromolecular compounds obtained by reactions forming a linkage containing oxygen or oxygen and carbon in the main chain, not provided for in groups C09D 159/00 - C09D 171/00; Coating compositions based on derivatives of such polymers**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 175/00   **Coating compositions based on polyureas or polyurethanes; Coating compositions based on derivatives of such polymers**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 177/00   **Coating compositions based on polyamides obtained by reactions forming a carboxylic amide link in the main chain (based on polyhydrazides C09D 179/06; based on polyamide-imides C09D 179/08); Coating compositions based on derivatives of such polymers**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 179/00   **Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing nitrogen, with or without oxygen, or carbon only, not provided for in groups C09D 161/00 - C09D 177/00**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 181/00   **Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing sulfur, with or without nitrogen, oxygen, or carbon only; Coating compositions based on polysulfones; Coating compositions based on derivatives of such polymers**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 183/00   **Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing silicon, with or without sulfur, nitrogen, oxygen, or carbon only; Coating compositions based on derivatives of such polymers**

NOTE

~~In this main group and its subgroups, from 01.09.2010 onwards, new documents are classified according to the following system. The coating composition is identified with the C-Set, e.g. (C09D 183/04, C08L 83/04) (for a coating composition containing two or more siloxanes), while the information as to which different polymers are present in the coating composition is identified with additional indexing codes, e.g. C08G 77/12 and C08G 77/20.~~

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 185/00   **Coating compositions based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing atoms other than silicon, sulfur, nitrogen, oxygen, and carbon; Coating compositions based on derivatives of such polymers**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 187/00   **Coating compositions based on unspecified macromolecular compounds, obtained otherwise than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 189/00   **Coating compositions based on proteins; Coating compositions based on derivatives thereof (foodstuff preparations A23J 3/00)**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 191/00   **Coating compositions based on oils, fats or waxes; Coating compositions based on derivatives thereof (polishing compositions, ski waxes C09G~~; soaps, detergent compositions C11D~~)**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 193/00   **Coating compositions based on natural resins; Coating compositions based on derivatives thereof (***based on polysaccharides C09D 101/00 - C09D 105/00; based on natural rubber C09D 107/00;* **polishing compositions C09G)**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 195/00   **Coating compositions based on bituminous materials, e.g. asphalt, tar, pitch**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 197/00   **Coating compositions based on lignin-containing materials** *(based on polysaccharides C09D 101/00 - C09D 105/00)*

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 199/00   **Coating compositions based on natural macromolecular compounds or on derivatives thereof, not provided for in groups** *C09D 101/00 - C09D 107/00* **or C09D 189/00 - C09D 197/00**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

M   C09D 201/00   **Coating compositions based on unspecified macromolecular compounds**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09D}

Project: MP0449, MP0381 (C09J)

M	C09J	~~ADHESIVES~~*Adhesives*; ~~NON-MECHANICAL ASPECTS OF ADHESIVE PROCESSES IN GENERAL~~*non-mechanical aspects of adhesive processes in general*; ~~ADHESIVE PROCESSES NOT PROVIDED FOR ELSEWHERE~~*adhesive processes not provided for elsewhere*; ~~USE OF MATERIALS AS ADHESIVES~~ *use of material as adhesives* (surgical adhesives A61L 24/00~~; processes for applying liquids or other fluent materials to surfaces in general B05D~~; adhesives on the basis of non-specified organic macromolecular compounds used as bonding agents in layered products B32B; organic labelling fabrics or comparable materials or articles with deformable surface using adhesives and thermo-activatable adhesives respectively B65C 5/02, B65C 5/04~~; organic macromolecular compounds C08; production of multi-layer textile fabrics D06M 17/00~~; preparation of glue or gelatine C09H; adhesive labels, tag tickets or similar identification of indication means G09F 3/10)

NOTES

~~1. In this subclass, the following terms or expressions are used with the meanings indicated:~~
  - ~~"use of materials as adhesives" means the use of known or new polymers or products;~~
  - ~~"rubber" includes:~~
    - ~~a. natural or conjugated diene rubbers;~~
    - ~~b. rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, see the group provided for adhesives based on such macromolecular compounds);~~
  - ~~"based on" is defined by means of Note 3, below.~~

1. In this subclass, the following terms or expressions are used with the meanings indicated:

2. "use of materials as adhesives" means the use of known or new polymers or products;
  - *"rubber" includes:*
    - *a. natural or conjugated diene rubbers;*
    - *b. rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, see the group provided for adhesives based on such macromolecular compounds);*
  - *"based on" is defined by means of Note 3, below.*

~~2.~~ *3.* In this subclass, adhesives containing specific macromolecular substances are classified only according to the macromolecular substance, non-macromolecular substances not being taken into account.
  - Example: an adhesive containing polyethene and amino-propyltrimethoxysilane is classified in group C09J 123/06.
  - However, adhesives containing combinations of organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond with prepolymers or polymers other than unsaturated polymers of groups C09J 159/00 - C09J 187/00 are classified according to the unsaturated non-macromolecular component in group C09J 4/00.
  - Example: an adhesive containing polyethene and styrene monomer is classified in group C09J 4/06.
  - Aspects relating to the physical nature of the adhesives or to the effects produced, as defined in group C09J 9/00, if clearly and explicitly stated, are also classified in this subclass. ~~Adhesives characterised by other features, e.g. additives, are classified in group C09J 11/00, unless the macromolecular constituent is specified.~~

- *Adhesives characterised by other features, e.g. additives, are classified in group C09J 11/00, unless the macromolecular constituent is specified.*

~~3.~~ *4.* In this subclass, adhesives comprising two or more macromolecular constituents are classified according to the macromolecular constituent or constituents present in the highest proportion, i.e. the constituent on which the adhesive is based. If the adhesive is based on two or more constituents, present in equal proportions, the adhesive is classified according to each of these constituents.

- Examples: An adhesive containing 80 parts of polyethene and 20 parts of polyvinylchloride is classified in group C09J 123/06; ~~An~~*an* adhesive containing 40 parts of polyethene and 40 parts of polyvinylchloride is classified in groups C09J 123/06 and C09J 127/06.

~~4.~~ *5.* {An adhesive composition containing polyethylene and amino-propyltrimethoxysilane is classified in groups C09J 123/06 and C08K 5/544}

~~5. Documents classified up until 09-2003: Classification is given in the form of C-Sets. The polymer in majority is given a C09J 101/00 - C09J 201/10 symbol, and the minor components are characterised by Indexing Codes taken from the list below. The Indexing Codes are linked. The polymer in majority is always first in the C-set.~~
~~List of C08L codes: C08L 23/00, C08L 23/26, C08L 25/00, C08L 27/00, C08L 27/04, C08L 27/12, C08L 29/00, C08L 31/00, C08L 33/00, C08L 35/00, C08L 37/00, C08L 51/00, C08L 53/00, C08L 55/02, C08L 61/04, C08L 61/20, C08L 63/00, C08L 67/00, C08L 67/02, C08L 67/025, C08L 67/03, C08L 67/04, C08L 67/06, C08L 67/07, C08L 69/00, C08L 69/005, C08L 71/00, C08L 75/04, C08L 77/00, C08L 77/08, C08L 77/12, C08L 79/08, C08L 79/085, C08L 81/00, C08L 83/00, C08L 85/00, C08L 91/06, C08L 95/00 or C08L 2666/00 - C08L 2666/86. An additive is classified in the last appropriate place in the list as selected for each C09J group. Examples:~~
  - ~~a. An adhesive composition based on a polyamide and a graft polymer is classified in (C09J 177/00, C08L 2666/24).~~
  - ~~b. An adhesive composition based on polyvinylchloride and containing CaCO3 is classified according to note 4 of C08K, i.e. in C08K 3/26 and C09J 127/06. If this adhesive composition contains also a polyamide, then the classification will be (C09J 127/06, C08L 77/00, C08K 3/26).~~
  - ~~c. An adhesive composition based on a polysiloxane (C09J 183/04) and containing a second polysiloxane, a phenol and silica is classified in (C09J 183/04, C08L 83/04, C08L 2666/34, C08L 2666/54~~

6. {In this subclass, combination sets [C-Sets] are used. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J }

~~6. From April 2012, after the notation C09J 4/00, classification concerning the monomer may be added, in the form of C-sets. The notation is selected from C08F 210/00 - C08F 246/00, C08G 77/00 - C08G 77/04 or C08G 77/20 - C08G 77/30.~~
~~Ex. 1: An adhesive based on methylmethacrylate monomer is classified in (C09J 4/00, C08F 220/00).~~
~~Ex. 2: An adhesive based on a dialkoxysilane monomer compound is classified in (C09J 4/00, C08G 77/04).~~

7. {In addition to note (5), C08L 2666/00 indexing codes were used for C-Sets classification of documents before April 2012 (see also C-Sets search rules in C08L, C09D, in C09J definition) }

~~7. From 01.09.2003 until April 2012: Classification is given in the form of C-Sets. The polymer in majority is given a C08L class, and the minor components are characterised by Indexing Codes taken from C08L or C08K and they are linked or unlinked. The polymer in majority is always first in the C-set. List of indexing codes in the C-Sets: C08L 1/00, C08L 81/00, C08L 83/00, C08L 91/06,~~

~~C08L 95/00 or C08L 2666/02 - C08L 2666/08, C08L 2666/14 - C08L 2666/26.~~
~~Examples:~~
  ~~a. An adhesive blend of 60 parts polyvinylchloride (C09J 127/06) and 40 parts polyamide is classified in (C09J 127/06, C08L 2666/20), C08L 77/00.~~
  ~~b. An adhesive blend of 50 parts polyvinylchloride (C09J 127/06) and 50 parts polyamide (C09J 177/00) is classified in (C09J 127/06, C08L 2666/20), (C09J 177/00, C08L 2666/04), C08L 77/00 and C08L 27/06.~~
  ~~c. An adhesive composition based on polyvinylchloride and containing CaCO3 is classified according to [N: Note 4 of C08K, i.e. in C08K 3/26, C09J 127/06. If this composition contains also a polyamide, then the classification will be (C09J 127/06, C08L 2666/20) and C08K 3/26.~~
  ~~d. A composition based on a first polysiloxane (C09J 183/04) and containing a second polysiloxane, a phenol and silica is classified in (C09J 183/04, C08L 83/00, C08K 5/13, C08K 3/36) and C08L 2205/02.~~

~~8. From April 2012 onwards, after the notation of groups C09J 101/00 - C09J 201/00, notations concerning the other constituents of the adhesive composition may be added, in the form of C-sets. The further constituent is added with an indexing code. The indexing codes are chosen from C08L 1/00 -C08L 2555/86 or C08K and they may be linked or unlinked: - C08L 1/00 - C08L 101/16 are linked. - C08L 2201/00 - C08L 2555/86 are unlinked. The polymer in majority is always first in the C-set.~~
~~Examples:~~
  ~~a. An adhesive composition containing polyethylene and amino-propyltrimethoxysilane is classified in groups C09J 123/06 and C08K 5/544 (unlinked).~~
  ~~b. An adhesive containing 80 parts of polyethene and 20 parts of polyvinylchloride is classified in group (C09J 123/06, C08L 27/06).~~
  ~~c. An adhesive containing 40 parts of polyethene and 40 parts of polyvinylchloride is classified in groups (C09J 123/06, C08L 27/06) and (C09J 127/06, C08L 23/06).~~
  ~~d. An adhesive containing 90% of polysiloxane (C09J 183/04) further containing of polyester (C08L 67/00) and an alcohol is classified in (C09J 183/04, C08L 67/00, C08K 5/05).~~

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:

C09J 4/02	covered by	*C09J 4/00*
C09J 4/04	covered by	*C09J 4/00*
C09J 161/08 - *C09J 161/10*	covered by	*C09J 161/06*
C09J 163/02	covered by	C09J 163/00
C09J 183/05	covered by	*C09J 183/04*
C09J 183/07	covered by	*C09J 183/04*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0449 (C09J)

M C09J 4/00   **Adhesives based on organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond {; adhesives, based on monomers of macromolecular compounds of groups C09J 183/00 - C09J 183/16}**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J }

| M | C09J 4/06 | · {Organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond} in combination with a macromolecular compound other than an unsaturated polymer of groups C09J 159/00 - C09J 187/00 |

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

| M | C09J 5/00 | **Adhesive processes in general; Adhesive processes not provided for elsewhere, e.g. relating to primers ~~(devices for applying glue to surfaces to be joined B05, B27G 11/00)~~** |

| M | C09J 101/00 | **Adhesives based on cellulose, modified cellulose, or cellulose derivatives** |

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

| M | C09J 103/00 | **Adhesives based on starch, amylose or amylopectin or on their derivatives or degradation products** |

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J }*

| M | C09J 105/00 | **Adhesives based on polysaccharides or on their derivatives, not provided for in groups C09J 101/00 or C09J 103/00** |

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

| M | C09J 107/00 | **Adhesives based on natural rubber** |

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

| M | C09J 109/00 | **Adhesives based on homopolymers or copolymers of conjugated diene hydrocarbons** |

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

| M | C09J 111/00 | **Adhesives based on homopolymers or copolymers of chloroprene** |

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J }*

M   C09J 113/00   **Adhesives based on rubbers containing carboxyl groups**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 115/00   **Adhesives based on rubber derivatives (C09J 111/00, C09J 113/00 take precedence)**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 117/00   **Adhesives based on reclaimed rubber**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 119/00   **Adhesives based on rubbers, not provided for in groups C09J 107/00 - C09J 117/00**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 121/00   **Adhesives based on unspecified rubbers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 123/00   **Adhesives based on homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond; Adhesives based on derivatives of such polymers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 125/00   **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an aromatic carbocyclic ring; Adhesives based on derivatives of such polymers**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M C09J 127/00   **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a halogen; Adhesives based on derivatives of such polymers**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M C09J 129/00   **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo, ketonic, acetal, or ketal radical; Adhesives based on hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic acids; Adhesives based on derivatives of such polymers**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M C09J 131/00   **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid, or of a haloformic acid (based on hydrolysed polymers C09J 129/00); Adhesives based on derivatives of such polymers**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M C09J 133/00   **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by only one carboxyl radical, or of salts, anhydrides, esters, amides, imides, or nitriles thereof; Adhesives based on derivatives of such polymers**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M C09J 135/00   **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical, and containing at least another carboxyl radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Adhesives based on derivatives of such polymers**

NOTE
{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M   C09J 137/00   **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen (based on polymers of cyclic esters of polyfunctional acids C09J 131/00; based on polymers of cyclic anhydrides of unsaturated acids C09J 135/00); Adhesives based on derivatives of such polymers**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 139/00   **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a single or double bond to nitrogen or by a heterocyclic ring containing nitrogen; Adhesives based on derivatives of such polymers**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 141/00   **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a bond to sulfur or by a heterocyclic ring containing sulfur; Adhesives based on derivatives of such polymers**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 143/00   **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing boron, silicon, phosphorus, selenium, tellurium, or a metal; Adhesives based on derivatives of such polymers**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 145/00   **Adhesives based on homopolymers or copolymers of compounds having no unsaturated aliphatic radicals in a side chain, and having one or more carbon-to-carbon double bonds in a carbocyclic or in a heterocyclic system; Adhesives based on derivatives of such polymers (based on polymers of cyclic esters of polyfunctional acids C09J 131/00; based on polymers of cyclic anhydrides or imides C09J 135/00)**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M C09J 147/00   **Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having two or more carbon-to-carbon double bonds; Adhesives based on derivatives of such polymers (C09J 145/00 takes precedence; based on conjugated diene rubbers C09J 109/00 - C09J 121/00)**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M C09J 149/00   **Adhesives based on homopolymers or copolymers of compounds having one or more carbon-to-carbon triple bonds; Adhesives based on derivatives of such polymers**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M C09J 151/00   **Adhesives based on graft polymers in which the grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds (based on ABS polymers C09J 155/02); Adhesives based on derivatives of such polymers**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M C09J 153/00   **Adhesives based on block copolymers containing at least one sequence of a polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds; Adhesives based on derivatives of such polymers**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M C09J 155/00   **Adhesives based on homopolymers or copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in groups C09J 123/00 - C09J 153/00**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M C09J 157/00   **Adhesives based on unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M   C09J 159/00   **Adhesives based on polyacetals; Adhesives based on derivatives of polyacetals**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 161/00   **Adhesives based on condensation polymers of aldehydes or ketones (with polyalcohols C09J 159/00; with polynitriles C09J 177/00); Adhesives based on derivatives of such polymers**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 163/00   **Adhesives based on epoxy resins; Adhesives based on derivatives of epoxy resins**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 165/00   **Adhesives based on macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain (C09J 107/00 - C09J 157/00, C09J 161/00 take precedence); Adhesives based on derivatives of such polymers**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 167/00   **Adhesives based on polyesters obtained by reactions forming a carboxylic ester link in the main chain (based on polyester-amides C09J 177/12; based on polyester-imides C09J 179/08); Adhesives based on derivatives of such polymers**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M   C09J 169/00   **Adhesives based on polycarbonates; Adhesives based on derivatives of polycarbonates**

> *NOTE*
>
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M	**C09J 171/00**	**Adhesives based on polyethers obtained by reactions forming an ether link in the main chain (based on polyacetals C09J 159/00; based on epoxy resins C09J 163/00; based on polythioether-ethers C09J 181/02; based on polyethersulfones C09J 181/06); Adhesives based on derivatives of such polymers**

M	**C09J 173/00**	**Adhesives based on macromolecular compounds obtained by reactions forming a linkage containing oxygen or oxygen and carbon in the main chain, not provided for in groups C09J 159/00 - C09J 171/00; Adhesives based on derivatives of such polymers**

M	**C09J 175/00**	**Adhesives based on polyureas or polyurethanes; Adhesives based on derivatives of such polymers**

M	**C09J 177/00**	**Adhesives based on polyamides obtained by reactions forming a carboxylic amide link in the main chain (based on polyhydrazides C09J 179/06; based on polyamide-imides C09J 179/08); Adhesives based on derivatives of such polymers**

M	**C09J 179/00**	**Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing nitrogen, with or without oxygen, or carbon only, not provided for in groups C09J 161/00 - C09J 177/00**

M	**C09J 181/00**	**Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing sulfur, with or without nitrogen, oxygen, or carbon only; Adhesives based on polysulfones; Adhesives based on derivatives of such polymers**

M   C09J 183/00   **Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing silicon, with or without sulfur, nitrogen, oxygen, or carbon only; Adhesives based on derivatives of such polymers**

NOTE

~~In this main group, from 01.09.2010 onwards, new documents are classified according to the following system. The adhesive is identified with the previous existing ECLA(+B) notation, e.g. C09J 183/04 +B4S (for an adhesive containing two or more siloxanes), while the information as to which different polymers are present in the adhesive is identified with additional indexing codes, e.g. C08G 77/12 and C08G 77/20~~

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M   C09J 185/00   **Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing atoms other than silicon, sulfur, nitrogen, oxygen, and carbon; Adhesives based on derivatives of such polymers**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M   C09J 187/00   **Adhesives based on unspecified macromolecular compounds, obtained otherwise than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M   C09J 189/00   **Adhesives based on proteins; Adhesives based on derivatives thereof ~~(foodstuff preparations A23J 3/00)~~**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M   C09J 191/00   **Adhesives based on oils, fats or waxes; Adhesives based on derivatives thereof ~~(polishing compositions, ski waxes C09G; soaps, detergent compositions C11D)~~**

NOTE

{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}

M	C09J 193/00	**Adhesives based on natural resins; Adhesives based on derivatives thereof** ~~(polishing compositions C09G)~~

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M	C09J 195/00	**Adhesives based on bituminous materials, e.g. asphalt, tar, pitch**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M	C09J 197/00	**Adhesives based on lignin-containing materials** *(based on polysaccharides C09J 101/00 - C09J 105/00)*

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M	C09J 199/00	**Adhesives based on natural macromolecular compounds or on derivatives thereof, not provided for in groups** *C09J 101/00 -C09J 107/00 or* C09J 189/00 - C09J 197/00

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J}*

M	C09J 201/00	**Adhesives based on unspecified macromolecular compounds**

> *NOTE*
> *{In this group, C-Sets are used for classification. The detailed information about the C-Sets construction and the associated syntax rules are found in the Definitions of C09J }*

Project: MP0381 (C09K)

M	C09K	**MATERIALS FOR MISCELLANEOUS APPLICATIONS, NOT PROVIDED FOR ELSEWHERE**

NOTES

1. This subclass <u>covers</u> also the use of specified materials in general or their use for the applications not specially provided for elsewhere.

2. In this subclass, the following term is used with the meaning indicated:
   • "materials" includes compositions.

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:

C09K 11/78-C09K 11/86	covered by	*C09K 11/77 - C09K 11/7798, C09K 11/87, C09K 11/88, C09K 11/89*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (C11D)

M C11D **DETERGENT COMPOSITIONS (preparations specially adapted for washing the hair A61Q 5/02, A61K 8/00; methods or apparatus for disinfection or sterilisation A61L; special washing compositions for cleaning semi-permeable membranes B01D 65/06); USE OF SINGLE SUBSTANCES AS DETERGENTS; SOAP OR SOAP-MAKING; RESIN SOAPS; RECOVERY OF GLYCEROL**

NOTE

Documents classified in groups C11D 1/37, C11D 1/645 - C11D 1/655, C11D 1/825 - C11D 1/86, C11D 1/94 - C11D 1/945 and C11D 10/00 - C11D 10/047, are indexed using codes chosen from C11D 1/00 - C11D 1/92 to provide information on the individual ingredients on the compositions

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:

C11D 1/68	covered by	C11D 3/2003
C11D 1/70	covered by	C11D 3/2003
C11D 3/44	covered by	C11D 3/43
C11D 3/46	covered by	C11D 3/2079, C11D 9/48
C11D 3/60	covered by	C11D 3/00
C11D 7/18	covered by	C11D 3/39
C11D 7/38	covered by	C11D 3/39
C11D 7/42	covered by	C11D 3/386
C11D 7/52	covered by	C11D 7/50
C11D 7/54	covered by	C11D 3/395
C11D 7/56	covered by	C11D 3/395
C11D 7/60	covered by	C11D 7/00
~~C11D 9/20~~	~~covered by partly covered by~~	~~C11D 9/444~~
C11D 9/50	covered by	C11D 3/48
C11D 9/60	covered by	C11D 9/00
C11D 10/02	covered by	C11D 3/00
C11D 10/06	covered by	C11D 9/00

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: RP0144 (C12M)

U C12M 23/00 **{Constructional details, e.g. recesses, hinges (flow directing inserts in C12M 27/18-C12M 27/24; apparatus for chemical or physical processes in general B01J, chemical or physical laboratory apparatus in general B01L)}**

C12M 23/52 · {Mobile; Means for transporting the apparatus (transportable laboratories ~~B01L 99/00~~ *B01L 1/52*)}

C12M 39/00 **{Means for cleaning the apparatus or avoiding unwanted deposits of microorganisms (apparatus for cleaning laboratory receptacles or instruments ~~B01L 99/00~~ *B01L 13/02*; cleaning in general B08B)}**

Project: MP0381 (C12N)

M   **C12N**   **MICROORGANISMS OR ENZYMES; COMPOSITIONS THEREOF (biocides, pest repellants or attractants, or plant growth regulators, containing microorganisms, viruses, microbial fungi, enzymes, fermentates or substances produced by or extracted from microorganisms or animal material A01N 63/00; food compositions A21, A23; medicinal preparations A61K; chemical aspects of, or use of materials for, bandages, dressings, absorbent pads or surgical articles A61L; fertilisers C05); PROPAGATING, PRESERVING OR MAINTAINING MICROORGANISMS (preservation of living parts of humans or animals A01N 1/02); MUTATION OR GENETIC ENGINEERING; CULTURE MEDIA (microbiological testing media C12Q)**

NOTES

1. Documents relating to the use of vectors or hosts for the preparation of specific peptides, e.g. enzymes, are classified in subclass C07K or in group C12N 9/00 according to the peptides, with the appropriate indexing codes.

2. Attention is drawn to Notes (1) to (3) following the title of Class C12.

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.

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:

C12N 1/11	covered by	C12N 15/79
C12N 1/13	covered by	C12N 15/79
C12N 1/15	covered by	C12N 15/80
C12N 1/19	covered by	C12N 15/81
C12N 1/21	covered by	C12N 15/74
C12N 5/02	covered by	~~C12N 5/00~~ *C12N 5/0006*, C12N 5/04 - C12N 5/166
C12N 5/07 - C12N 5/095	covered by	C12N 5/06 ~~and subgroups~~
C12N 5/18 ~~- C12N 5/28~~	covered by	C12N 5/16 ~~and subgroups~~
~~C12N 5/18~~	~~covered by~~	~~C12N 5/16~~
C12N 5/20	covered by	C12N 5/163
C12N 5/22	covered by	C12N 5/16
C12N 5/24	covered by	C12N 5/163
C12N 5/26	covered by	C12N 5/166
C12N 5/28	covered by	C12N 5/166
C12N 15/53	*covered by*	*C12N 9/0004*
C12N 7/01	covered by	C12N 7/00
C12N 9/02-C12N 9/08	covered by	*C12N 9/0004*
C12N 9/26	covered by	C12N 9/2408
C12N 9/28-C12N 9/30	covered by	*C12N 9/2414 - C12N 9/242*
C12N 9/32	covered by	*C12N 9/2422*
C12N 9/34	covered by	*C12N 9/2428*
C12N 9/36	covered by	*C12N 9/2462*
C12N 9/38	covered by	C12N 9/2468
C12N 9/40	covered by	*C12N 9/2465*
C12N 9/42	covered by	C12N 9/2434
C12N 9/44	covered by	C12N 9/2451
C12N 9/46	covered by	*C12N 9/2454*
C12N 9/56	covered by	*C12N 9/54*
C12N 9/66	covered by	*C12N 9/6448*

C12N 9/68	covered by	*C12N 9/6435*	
C12N 9/70	covered by	C07K 14/3153	
C12N 9/72	covered by	*C12N 9/6462*	
C12N 9/74	covered by	*C12N 9/6429*	
C12N 9/76	covered by	*C12N 9/6427*	
C12N 15/05	covered by	C12N 5/14	
C12N 15/06	covered by	C12N 5/16	
C12N 15/07	covered by	C12N 5/16	
C12N 15/08	covered by	C12N 5/166	
C12N 15/12	covered by	C07K 14/435	
C12N 15/13	covered by	C07K 16/00	
C12N 15/14	covered by	C07K 14/765	
C12N 15/15	covered by	C07K 14/81	
C12N 15/16	covered by	C07K 14/575	
C12N 15/17	covered by	C07K 14/62	
C12N 15/18	covered by	C07K 14/61	
C12N 15/19	covered by	C07K 14/52	
C12N 15/20	covered by	C07K 14/555	
C12N 15/21	covered by	C07K 14/56	
C12N 15/22	covered by	C07K 14/565	
C12N 15/23	covered by	C07K 14/57	
C12N 15/24	covered by	C07K 14/54	
C12N 15/25	covered by	C07K 14/545	
C12N 15/26	covered by	C07K 14/55	
C12N 15/27	covered by	C07K 14/53	
C12N 15/28	covered by	C07K 14/525	
C12N 15/29	covered by	C07K 14/415	
C12N 15/30	covered by	C07K 14/44	
C12N 15/31	covered by	C07K 14/195, C07K 14/005	
C12N 15/32	covered by	C07K 14/325	
C12N 15/33	covered by	C07K 14/005	
C12N 15/34	covered by	C07K 14/01	
C12N 15/35	covered by	C07K 14/015	
C12N 15/36	covered by	C07K 14/02	
C12N 15/37	covered by	C07K 14/025	
C12N 15/38	covered by	C07K 14/03	
C12N 15/39	covered by	C07K 14/065	
C12N 15/40	covered by	C07K 14/08	
C12N 15/41	covered by	C07K 14/085	
C12N 15/42	covered by	C07K 14/09	
C12N 15/43	covered by	C07K 14/105	
C12N 15/44	covered by	C07K 14/11	
C12N 15/45	covered by	C07K 14/115	
C12N 15/46	covered by	C07K 14/14	
C12N 15/47	covered by	C07K 14/145	
C12N 15/48	covered by	C07K 14/15	
C12N 15/49	covered by	C07K 14/155	
C12N 15/50	covered by	C07K 14/165	
C12N 15/51	covered by	C07K 14/02, C07K 14/10, C07K 14/18	
C12N 15/53	covered by	~~C12N9/02~~*C12N 9/0004*	

C12N 15/54	covered by	C12N 9/10
C12N 15/55	covered by	C12N 9/14
C12N 15/56	covered by	C12N 9/24
C12N 15/57	covered by	C12N 9/48
C12N 15/58	covered by	C12N 9/6456
C12N 15/59	covered by	C12N 9/6483
C12N 15/60	covered by	C12N 9/88
C12N 15/61	covered by	C12N 9/90
C12N 15/83	covered by	C12N 15/82
C12N 15/84	covered by	C12N 15/82

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: RP0345 (C12Q)

M C12Q 2500/00   **Analytical methods involving nucleic acids (not used)**

M C12Q 2520/00   **Reactions involving nucleic acids (not used)**

M C12Q 2521/00   **Reaction characterised by the enzymatic activity (not used)**

M C12Q 2521/10   · Nucleotidyl transfering (not used)

M C12Q 2521/30   · Phosphoric diester hydrolysing, i.e. nuclease (Not used)

M C12Q 2521/50   · Other enzymatic activities (Not used)

M C12Q 2521/525   · · Phosphatase (Not used with code C12Q 2565/301)

M C12Q 2522/00   **Reaction characterised by the use of non-enzymatic proteins (not used)**

M C12Q 2522/10   · Nucleic acid binding proteins (not used)

M C12Q 2523/00   **Reactions characterised by treatment of reaction samples (not used)**

M C12Q 2523/10   · Characterised by chemical treatment (Not used)

M C12Q 2523/30   · Characterised by physical treatment (Not used)

U C12Q 2525/00   **Reactions involving modified oligonucleotides, nucleic acids, or nucleotides**

U C12Q 2525/10   · Modifications characterised by

M C12Q 2525/143   · · incorporating a promoter sequence (Not used with code C12Q 2531/143)

M C12Q 2525/185   · · incorporating base(s)*bases* where the precise position of the base(s)*bases* in the nucleic acid string is important (Not to be used for 3'-end base)

M C12Q 2525/186   · · incorporating a non-extendable or blocking moiety (not used with C12Q 2535/101)

T C12Q 2527/00   **Reactions demanding special reaction conditions (not used)**

D C12Q 2527/10   · Reaction conditions characterised by (metal/ion C12Q 2563/137)(not used)

   <administratively transferred to C12Q 2527/00 ADD>

M C12Q 2527/101   · · Temperature

M C12Q 2527/107   · · Temperature of melting, i.e. Tm

M C12Q 2527/109   · · Pressure

M C12Q 2527/113   · · Time

M C12Q 2527/119   · · pH

M C12Q 2527/125   · · Specific component of sample, medium or buffer (for metal/ion use C12Q 2563/137)

M	C12Q 2527/127	· · the enzyme inhibitor or activator used
M	C12Q 2527/137	· · Concentration of a component of medium
M	C12Q 2527/143	· · Concentration of primer/ *or* probe
M	C12Q 2527/146	· · Concentration of target/ *or* template
M	C12Q 2527/149	· · Concentration of an enzyme
M	C12Q 2527/15	· · Gradients
M	C12Q 2527/153	· · Viscosity
M	C12Q 2527/156	· · Permeability
U	**C12Q 2531/00**	**Reactions of nucleic acids characterised by**
M	C12Q 2531/10	· the purpose being amplify/increase the copy number of target nucleic acid ~~(Not used)~~

Project: N/A (C12Q)

	C12Q 2531/107	· · ~~Asymmetric PCR~~ *Probe or oligonucleotide ligation*

Project: RP0345 (C12Q)

U	**C12Q 2533/00**	**Reactions characterised by the enzymatic reaction principle used**
M	C12Q 2533/10	· the purpose being to increase the length of an oligonucleotide strand ~~(ligase detection reaction, LDR C12Q 2561/125)~~
M	C12Q 2533/101	· · Primer extension ~~(see also codes C12Q 2535/125, C12Q 2565/537)~~
M	C12Q 2533/107	· · Probe/ *or* oligonucleotide ligation ~~(Not used with code C12Q 2531/137, C12Q 2561/125)~~
T	**C12Q 2535/00**	**Reactions characterised by the assay type for determining the identity of a nucleotide base** *or a sequence of oligonucleotides*
D	C12Q 2535/10	· ~~the purpose being to determine the identity or sequence oligonucleotides characterised by (Not used)~~
		<administratively transferred to C12Q 2535/00 ADD>
M	C12Q 2535/101	· · Sanger sequencing method, i.e. oligonucleotide sequencing using primer elongation and dideoxynucleotides as chain terminators
M	C12Q 2535/107	· · Maxam and Gilbert method, i.e. sequential release and detection of nucleotides
M	C12Q 2535/113	· · Cycle sequencing
M	C12Q 2535/119	· · Double strand sequencing
M	C12Q 2535/122	· · Massive parallel sequencing
M	C12Q 2535/125	· · Allele specific primer extension
M	C12Q 2535/131	· · Allele specific probes
M	C12Q 2535/137	· · Amplification Refractory Mutation System [ARMS]
M	C12Q 2535/138	· · Amplified fragment length polymorphism [AFLP]
M	C12Q 2535/139	· · Random amplification polymorphism detection [RAPD] ~~(not to be used with C12Q 2525/179)~~
U	**C12Q 2537/00**	**Reactions characterised by the reaction format or use of a specific feature**
U	C12Q 2537/10	· the purpose or use of
M	C12Q 2537/137	· · a displacement step ~~(Not used with code C12Q 2531/119)~~
M	C12Q 2537/149	· · Sequential reactions ~~(Not used with reactions implicitly known to be sequential, e.g. amplification reactions)~~
M	C12Q 2537/155	· · Cyclic reactions ~~(Not used with codes C12Q 2531/101 - C12Q 2531/149)~~

M	C12Q 2537/161	· · A competitive reaction step ~~(Not used with code C12Q 2545/107)~~
M	C12Q 2537/163	· · blocking probe ~~(not used in combination with C12Q 2527/127 or C12Q 2525/186)~~
U	**C12Q 2541/00**	**Reactions characterised by directed evolution**
M	C12Q 2541/10	· the purpose being the selection*/ or* design of target specific nucleic acid binding sequences ~~(not used)~~
U	**C12Q 2545/00**	**Reactions characterised by their quantitative nature**
M	C12Q 2545/10	· the purpose being quantitative analysis ~~(Not used)~~
M	C12Q 2545/114	· · involving a quantitation step ~~(not to be used with C12Q 2545/101, C12Q 2545/107, C12Q 2545/113)~~
U	**C12Q 2547/00**	**Reactions characterised by the features used to prevent contamination**
M	C12Q 2547/10	· the purpose being preventing contamination ~~(Not used)~~
U	**C12Q 2549/00**	**Reactions characterised by the features used to influence the efficiency or specificity**
M	C12Q 2549/10	· the purpose being that of reducing false positive*/ or false* negative signals ~~(Not used)~~
M	C12Q 2549/126	· · using oligonucleotides as clamps ~~(not to be used with C12Q 2525/107)~~
M	**C12Q 2560/00**	**Nucleic acid detection ~~(not used)~~**
T	**C12Q 2561/00**	**Nucleic acid detection characterised by assay method ~~(not used)~~**
D	C12Q 2561/10	· ~~Characterised by assay method (Not used)~~ <administratively transferred to C12Q 2561/00 ADD>
M	C12Q 2561/101	· · Taqman
M	C12Q 2561/107	· · Enzyme complementation
M	C12Q 2561/108	· · Hybridisation protection assay [HPA]
M	C12Q 2561/109	· · Invader technology
M	C12Q 2561/113	· · Real time assay
M	C12Q 2561/119	· · Fluorescence polarisation
M	C12Q 2561/12	· · Fluorescence lifetime measurement
M	C12Q 2561/125	· · Ligase Detection Reaction [LDR]
M	C12Q 2561/127	· · Protein truncation assay
M	**C12Q 2563/00**	**Nucleic acid detection ~~characterised~~ _characterized_ by the use of _physical, structural and functional properties_~~(not used)~~**
M	C12Q 2563/116	· electrical properties of nucleic acids, e.g. impedance, conductivity or resistance ~~NOTE~~ ~~Not to be used with C12Q 2563/113~~
M	C12Q 2563/119	· the label being proteinic ~~NOTE~~ ~~Not to be used with code C12Q 2565/531~~
M	C12Q 2563/125	· the label being enzymatic, i.e. proteins, and non proteins, such as nucleic acid with enzymatic activity ~~NOTE~~ ~~This code is restricted in use to ENZYMES as a LABEL~~

U	C12Q 2565/00	**Nucleic acid analysis characterised by mode or means of detection**
M	C12Q 2565/10	· Detection mode being characterised by *the assay principle* (Not used)
M	C12Q 2565/20	· Detection means characterised by being a gene reporter based analysis (Not used)
M	C12Q 2565/30	· Detection characterised by liberation / or release of label (Not used)
M	C12Q 2565/40	· Detection characterised by signal amplification of label (not used)
U	C12Q 2565/50	· Detection characterised by immobilisation to a surface
M	C12Q 2565/501	· · being on/an array of oligonucleotides
M	C12Q 2565/543	· · characterised by the use of two or more capture oligonucleotide primers in concert, e.g. bridge amplification (Not used with code C12Q 2537/149)
M	C12Q 2565/60	· Detection means characterised by use of a special device (Not used)
M	C12Q 2565/627	· · being a mass spectrometer (not to be used with C12Q 2563/167)
M	**C12Q 2600/00**	**Oligonucleotides characterized by their use (not used, see subgroups)**

Project: MP0381 (C12R)

M	C12R	**PROCESSES USING MICROORGANISMS**

NOTE

The basis for the bacteria terminology is "Bergey's Manual of Determinative Bacteriology", Eighth Edition, 19/75.

WARNINGS

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

C12R 1/92-C12R 1/94	covered by	*C12R 1/91, C12N 2710/00 - C12N 2795/00*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (C22B)

M	C22B	**PRODUCTION AND REFINING OF METALS (electrolytic C25); PRETREATMENT OF RAW MATERIALS**

NOTE

In this subclass, groups for obtaining metals include obtaining the metals by non-metallurgical processes, and obtaining metal compounds by metallurgical processes, {as far as specifically indicated in the relevant groups} . Thus, for example, group C22B 11/00 covers the production of silver by reduction of ammoniacal silver oxide in solution, and group C22B 17/00 includes the production of cadmium oxide by a metallurgical process. Furthermore, although compounds of arsenic and antimony are classified in C01G, production of the elements themselves is included in C22B, as well as the production of their compounds by metallurgical processes.

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:

C22B 3/26 - C22B 3/40	covered by	C22B 3/0005
C22B 9/187	covered by	
C22B 9/187 - C22B 9/193	covered by	*C22B 9/18*
C22B 9/21	covered by	*C22B 9/20*
C22B 15/02 - C22B 15/14	covered by	*C22B 15/0032*
C22B 15/04	*covered by*	*C22B 15/0036*

C22B 15/06	*covered by*	*C22B 15/0041, C22B 15/0043*
C22B 15/14	*covered by*	*C22B 15/006*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (C22C)

M   C22C   **ALLOYS (flints C06C 15/00; treatment of alloys C21D, C22F)**

NOTES

1. In this subclass, the following terms or expressions are used with the meanings indicated:
- "alloys" includes also:
  - a. metallic composite materials containing a substantial proportion of fibres or other somewhat larger particles;
  - b. ceramic compositions containing free metal bonded to carbides, diamond, oxides, borides, nitrides or silicides, e.g. cermets, or other metal compounds, e.g. oxynitrides or sulfides, other than as macroscopic reinforcing agents;
- "based on" requires at least 50% by weight of the specified constituent or of the specified group of constituents.

2. In the absence of an indication to the contrary, in groups C22C 5/00 - C22C 32/00 an alloy is classified in the last appropriate place.

3. In this subclass it is desirable to classify the individual aspects of combinations of processes or materials for powder metallurgy using Combination Sets with symbols chosen from groups C22C 1/00 - C22C 43/00 or from groups B22F 1/00 - B22F 9/00.

4. In this subclass the special database "ALLOYS" is used. This system includes patent documents classified in groups C22C 1/04 and C22C 5/00 - C22C 49/14 and provides information on the composition of the alloys, their uses and characteristics.

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:

C22C 101/00-, C22C 101/22 C22C 101/20	covered by	*C04B 35/62227*
C22C 101/02	*covered by*	*C04B 35/62231*
C22C 101/04	*covered by*	*C04B 35/62236*
C22C 101/06	*covered by*	*C04B 35/62245*
C22C 101/08	*covered by*	*C04B 35/62272*
C22C 101/10	*covered by*	*D01F 9/12*
C22C 101/12	*covered by*	*C04B 35/62277*
C22C 101/14	*covered by*	*C04B 35/62281*
C22C 101/16	*covered by*	*C04B 35/62286*
C22C 101/18	*covered by*	*C04B 35/62295*
C22C 101/22	*covered by*	*C04B 35/6229*
C22C 111/00-C22C 111/02	covered by	*C22C 47/00, C22C 49/00*
C22C 121/00-C22C 121/02	covered by	*C22C 47/02 - C22C 47/068, C22C 49/00*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (C23C)

M C23C   **COATING METALLIC MATERIAL; COATING MATERIAL WITH METALLIC MATERIAL; SURFACE TREATMENT OF METALLIC MATERIAL BY DIFFUSION INTO THE SURFACE, BY CHEMICAL CONVERSION OR SUBSTITUTION; COATING BY VACUUM EVAPORATION, BY SPUTTERING, BY ION IMPLANTATION OR BY CHEMICAL VAPOUR DEPOSITION, IN GENERAL (making metal-coated products by extrusion B21C 23/22; covering with metal by connecting pre-existing layers to articles, <u>see</u> the relevant places, e.g. B21D 39/00, B23K; metallising of glass C03C; metallising mortars, concrete, artificial stone, ceramics or natural stone C04B 41/00; enamelling of, or applying a vitreous layer to, metals C23D; treating metal surfaces or coating of metals by electrolysis or electrophoresis C25D; single-crystal film growth C30B; by metallising textiles D06M 11/83; decorating textiles by locally metallising D06Q 1/04)**

NOTE

In this subclass, an operation is considered as pre-treatment or after-treatment when it is specially adapted for, but quite distinct from, the coating process concerned and constitutes an independent operation. If an operation results in the formation of a permanent sub- or upper layer, it is not considered as pre-treatment or after-treatment and is classified as a multi-coating process.

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:

C23C 14/36 - C23C 14/44	covered by	C23C 14/34 ~~and subgroups.~~ - *C23C 14/358*
~~C23C 18/28~~	~~covered by~~	~~C23C 18/2006 - C23C 18/2093~~

Project: MP0381 (C23F)

M C23F   **NON-MECHANICAL REMOVAL OF METALLIC MATERIAL FROM SURFACE (working metal by laser beams B23K 26/00; desurfacing by applying flames B23K 7/00; working of metal by electro-erosion B23H; producing decorative effects by removing surface material, e.g. by engraving, by etching, B44C 1/22; electrolytic etching or polishing C25F); INHIBITING CORROSION OF METALLIC MATERIAL OR INCRUSTATION IN GENERAL; MULTI-STEP PROCESSES FOR SURFACE TREATMENT OF METALLIC MATERIAL INVOLVING AT LEAST ONE PROCESS PROVIDED FOR IN CLASS C23 AND AT LEAST ONE PROCESS COVERED BY SUBCLASS C21D OR C22F OR CLASS C25**

NOTES

1. protective layers or coating compositions or methods of applying them; these are classified in the appropriate places, e.g. B05, B44, C09D, C23C.

2. mechanical devices or constructional features of particular articles for inhibiting incrustation; these are classified in the appropriate places, e.g. in pipes or pipe fittings F16L 58/00.

3. articles characterised by being made of materials selected for their properties of resistance to corrosion or incrustation; these are classified in the appropriate places, e.g. turbine blades F01D 5/28.

WARNINGS

1. The following IPC ~~groups are~~*group is* not in the CPC scheme. The subject matter for ~~these~~*this* IPC ~~groups~~*group* is classified in the following CPC groups:

| C23F 1/24 | covered by | *C09K 13/00*, *H01L 21/00* |

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (C25B)

M   C25B   **ELECTROLYTIC OR ELECTROPHORETIC PROCESSES FOR THE PRODUCTION OF COMPOUNDS OR NON-METALS; APPARATUS THEREFOR (anodic or cathodic protection C23F 13/00; single-crystal growth C30B)**

NOTES

1. In this subclass, in the absence of an indication to the contrary, classification is made in the last appropriate place.

2. Compounds of particular interest are also classified in the relevant classes, e.g. C01, C07.

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:

C25B 11/06	covered by	~~B01J,~~ C25B 11/0442
C25B 11/08	covered by	~~B01J~~*C25B 11/0473*~~, C25B 11/0442~~
C25B 11/10	covered by	C25B 11/0442

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (C25D)

M   C25D   **PROCESSES FOR THE ELECTROLYTIC OR ELECTROPHORETIC PRODUCTION OF COATINGS; ELECTROFORMING (decorating textiles by metallising D06Q 1/04; manufacturing printed circuits by metal deposition H05K 3/18); APPARATUS THEREFOR**

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:

C25D 2/00	covered by	*B23K 28/006*
C25D 5/24	covered by	C25D 5/34
C25D 5/26	covered by	C25D 5/36
C25D 5/28	covered by	C25D 5/38
C25D 5/30	covered by	C25D 5/42, C25D 5/44
C25D 5/32	covered by	C25D 5/46
~~C25D 13/06~~	~~covered by~~	~~C09D 5/44~~
~~C25D 13/08~~	~~covered by~~	~~C09D 5/4476~~
~~C25D 13/10~~	~~covered by~~	~~C09D 5/448~~
C25D 19/00	covered by	C25D 17/00

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (C30B)

M C30B **SINGLE-CRYSTAL-GROWTH (by using ultra-high pressure, e.g. for the formation of diamonds B01J 3/06); UNIDIRECTIONAL SOLIDIFICATION OF EUTECTIC MATERIAL OR UNIDIRECTIONAL DEMIXING OF EUTECTOID MATERIAL; REFINING BY ZONE-MELTING OF MATERIAL (zone-refining of metals or alloys C22B); PRODUCTION OF A HOMOGENEOUS POLYCRYSTALLINE MATERIAL WITH DEFINED STRUCTURE (casting of metals, casting of other substances by the same processes or devices B22D; working of plastics B29; modifying the physical structure of metals or alloys C21D, C22F); SINGLE CRYSTALS OR HOMOGENEOUS POLYCRYSTALLINE MATERIAL WITH DEFINED STRUCTURE; AFTER-TREATMENT OF SINGLE CRYSTALS OR A HOMOGENEOUS POLYCRYSTALLINE MATERIAL WITH DEFINED STRUCTURE (for producing semiconductor devices or parts thereof H01L); APPARATUS THEREFOR**

NOTES

1. In this subclass, the following expressions are used with the meaning indicated:
- "single-crystal" includes also twin crystals and a predominantly single crystal product;
- "homogeneous polycrystalline material" means a material with crystal particles, all of which have the same chemical composition;
- "defined structure" means the structure of a material with grains which are oriented in a preferential way or have larger dimensions than normally obtained.

2. In this subclass:
- the preparation of single crystals or a homogeneous polycrystalline material with defined structure of particular materials or shapes is classified in the group for the process as well as in group C30B 29/00;
- an apparatus specially adapted for a specific process is classified in the appropriate group for the process. Apparatus to be used in more than one kind of process is classified in group C30B 35/00.

3. After the notation of C30B and separated therefrom by a + sign, notations concerning the particular composition or shape of the material may be added. These notations are selected from C30B 29/00.
Example: A crystal-growth process by zone-melting directly related to Al_2O_3 crystal material is classified in C30B 13/00 + C30B 29/20

WARNING

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:
C30B 29/64, C30B 29/66   covered by   C30B 29/60

2. 1. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (D01D)

M   D01D   **MECHANICAL METHODS OR APPARATUS IN THE MANUFACTURE OF ARTIFICIAL FILAMENTS, THREADS, FIBRES, BRISTLES OR RIBBONS**

NOTES

1. Attention is drawn to the note following the title of Class D01.

2. Apparatus specially adapted for the manufacture of carbon filaments are classified in group D01F 9/12

WARNING

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:

D01D 5/10   covered by   D01D 5/08 and subgroups

2. *1.* In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (D06N)

M   D06N   **WALL, FLOOR OR LIKE COVERING MATERIALS, e.g. LINOLEUM, OILCLOTH, ARTIFICIAL LEATHER, ROOFING FELT, CONSISTING OF A FIBROUS WEB COATED WITH A LAYER OF MACROMOLECULAR MATERIAL; FLEXIBLE SHEET MATERIAL NOT OTHERWISE PROVIDED FOR (laminates in general B32B; coated webs which retain the character of paper or cardboard D21)**

NOTE

Layered products classified in this subclass are also classified in subclass B32B.

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:

D06N 7/02	covered by	~~D06M~~ *D06N 7/0002*~~, – D06N D06N 7/0097~~
D06N 7/04	covered by	~~D06M~~ *D06N 7/0002*~~, – D06N D06N 7/0097~~
D06N 7/06	covered by	~~D06M~~ *D06N 7/0002*~~, – D06N D06N 7/0097~~

Project: MP0381 (D21H)

M   D21H   **PULP COMPOSITIONS; PREPARATION THEREOF NOT COVERED BY SUBCLASSES D21C OR D21D; IMPREGNATING OR COATING OF PAPER; TREATMENT OF FINISHED PAPER NOT COVERED BY CLASS B31 OR SUBCLASS D21G; PAPER NOT OTHERWISE PROVIDED FOR**

NOTES

1. This subclass <u>covers</u> also pulp compositions for the preparation of fibreboard or other fibrous articles by wet processes.

2. In this subclass, the following terms are used with the meaning indicated:
   - "pulp" means a dispersion, { e.g. an aqueous suspension,} comprising paper-making fibres and optional additives, which is to be processed, and covers the term "stock"; it also means dry paper-making fibres which are to be made into paper by either wet or dry processes;

- "paper" means paper, cardboard or wet-laid non-woven fabrics.

3. In groups D21H 11/00 - D21H 15/00, in the absence of an indication to the contrary, classification is made in the last appropriate place.

WARNINGS

1. The following IPC ~~groups are~~*group is* not in the CPC scheme. The subject matter for ~~these~~*this* IPC ~~groups~~*group* is classified in the following CPC ~~groups~~*group*:

D21H 27/12	covered by	*D21H 27/00, H01B 3/52*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (E01D)

M E01D   **CONSTRUCTION OF BRIDGES, {ELEVATED ROADWAYS} OR VIADUCTS; ASSEMBLY OF BRIDGES (bridges extending between terminal buildings and aircraft for embarking or disembarking passengers B64F 1/305; {tracks for special kinds of railways E01B 25/00; culverts E01F 5/005})**

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:

E01D 24/00	covered by	*E01D 22/00*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0445 (E02D)

U E02D 29/00   **{Independent} underground or underwater structures (underground tanks B65D 88/76; hydraulic engineering, e.g. sealings or joints, E02B; underground garages E04H 6/00; underground air-raid shelters E04H 9/12; burial vaults E04H 13/00); Retaining walls**

U   E02D 29/02   · Retaining or protecting walls (piers or quay walls E02B 3/06)

M   E02D 29/0258   · · ~~{not used, see subgroups~~ *{characterised by constructional features}* ~~(E02D 29/0208 - E02D 29/025 take precedence)}~~

Project: MP0445 (E02F)

U E02F 3/00   **Dredgers; Soil-shifting machines (for special purposes E02F 5/00; other machines or apparatus for mining E21C; tunnelling E21D)**

U   E02F 3/04   · mechanically-driven

U   E02F 3/08   · · with digging elements on an endless chain (conveyors B65G)

U   E02F 3/12   · · · Component parts {, e.g. bucket troughs}

M   E02F 3/14   · · · · Buckets; Chains; Guides for buckets or chains; Drives for chains ~~{not used, see subgroups}~~

U E02F 9/00   **Component parts of dredgers or soil-shifting machines, not restricted to one of the kinds covered by groups E02F 3/00 - E02F 7/00 (laying-out or take-up devices for trailing electric cables B66C)**

U   E02F 9/20   · Drives; Control devices (gearings in general F16H; controlling in general G05; electric multi-motor drives H02K, H02P)

U   E02F 9/22   · · Hydraulic or pneumatic drives {(for dipper or bucket arm position control E02F 3/43, for blade position control for graders E02F 3/844; for turntables E02F 9/121; for fork-lift trucks B66F 9/22)}

M   E02F 9/2278   · · · {Hydraulic circuits ~~(not used)~~}

Project: RP0255 (E04D)

C	**E04D 1/00**	**Roof covering by making use of tiles, slates, shingles, or other small roofing elements (roofing supports {~~and~~*or* underlayers} E04D 12/00)**

C	E04D 2001/005	· {the roofing elements having a granulated surface}
C	E04D 1/02	· Grooved or vaulted roofing elements (E04D 1/28, E04D 1/30 take precedence)
C	E04D 1/025	· · {Diamond shaped and installed in diagonal lines}
C	E04D 1/04	· · of ceramics, glass or concrete, with or without reinforcement
C	E04D 1/045	· · · {Vaulted roofing elements laid alternately side-up and side-down, e.g. monks and nuns tiles}
C	E04D 1/06	· · of metal
C	E04D 1/08	· · of plastics; {of asphalt;} of fibrous materials
C	E04D 1/085	· · · {of wood}
C	E04D 1/10	· · of specified materials {not covered by any one of groups E04D 1/04 - E04D 1/085}, or of combinations of materials, {where at least one is} not covered by any one of groups E04D 1/04 - E04D 1/085
C	E04D 1/12	· Roofing elements shaped as plain tiles or shingles, i.e. with flat outer surface (E04D 1/28, E04D 1/30 take precedence)
C	E04D 1/125	· · {Diamond shaped ~~and~~*elements specially adapted for being* installed in diagonal lines}
C	E04D 1/14	· · of slate material, with or without fastening means
C	E04D 1/16	· · of ceramics, glass or concrete, with or without reinforcement
C	E04D 1/18	· · of metal
C	E04D 1/20	· · of plastics; {of asphalt;} of fibrous materials
C	E04D 1/205	· · · {of wood}
C	E04D 1/22	· · of specified materials {not covered by any one of groups E04D 1/14 - E04D 1/205}, or of combinations of materials, {where at least one is} not covered by any one of groups E04D 1/14 - E04D 1/205
N	*E04D 1/23*	· · {with tapered thickness}
C	E04D 1/24	· Roofing elements with cavities, e.g. hollow tiles (E04D 1/28 takes precedence)
C	E04D 1/26	· Strip-shaped roofing elements {simulating a repetitive pattern, e.g.} appearing as a row of shingles
C	E04D 1/265	· · {the roofing elements being rigid, e.g. made of metal, wood or concrete}
C	E04D 1/28	· Roofing elements comprising two or more layers, e.g. for insulation
N	*E04D 1/29*	· {Means for connecting or fastening adjacent roofing elements}

N	*E04D 1/2907*	· · {by interfitted sections}

N	E04D 1/2914	· · · {having fastening means or anchors at juncture of adjacent roofing elements}
N	E04D 1/2916	· · · · {the fastening means taking hold directly on adjacent elements of the same row}
N	E04D 1/2918	· · · · {the fastening means taking hold directly on adjacent elements of succeeding rows}
N	E04D 1/2921	· · · {having resilient detents adapted to be biased to a position to resist separation}
N	E04D 1/2928	· · · {having slits receiving marginal edge of adjacent section}
N	E04D 1/2935	· · · {folded, rolled, or indented _in situ_}
N	E04D 1/2942	· · · {having folded sections receiving interfitted part of adjacent section}
N	E04D 1/2949	· · · {having joints with fluid-handling feature, e.g. a fluid channel for draining}
N	E04D 1/2956	· · · {having tongues and grooves}
N	E04D 1/2963	· · · {having laminated layers overlapping adjacent sections}
N	E04D 1/2984	· · {with spacing or space-forming features, e.g. braces, fillers or drains}
C	E04D 1/30	· Special roof-covering elements, e.g. ridge tiles, gutter tiles, gable tiles, ventilation tiles (E04D 3/40 {E04D 13/03, E04D 13/14} take *takes* precedence)
C	E04D 2001/301	· · {at roof edges, e.g. intersections with walls}
C	E04D 2001/302	· · · {Gable tiles}
C	E04D 2001/303	· · · {Eave tiles}
C	E04D 2001/304	· · {at roof intersections, e.g. valley tiles, ridge tiles}
C	E04D 2001/305	· · · {Ridge or hip tiles}
C	E04D 2001/306	· · · · {Under-ridge tiles}
C	E04D 2001/307	· · {for passages in the roof surface}
C	E04D 2001/308	· · {for special purposes not otherwise provided for, e.g. turfing tiles, step tiles}
C	E04D 2001/309	· · {Ventilation tiles}
C	E04D 1/34	· Fastenings for attaching roof-covering elements to the supporting elements
C	E04D 1/3402	· · {for ridge or roofhip tiles}
C	E04D 1/3405	· · {for eaves, valley, or verge tiles}
C	E04D 2001/3408	· · {characterised by the fastener type or material}
C	E04D 2001/3411	· · · {Metal wires or rods}
C	E04D 2001/3414	· · · {Metal strips or sheet metal}
C	E04D 2001/3417	· · · {Synthetic, composite or molded material}
C	E04D 2001/342	· · · {Flexible filamentous ties, e.g. to be twisted or forming nets}
C	E04D 2001/3423	· · · {Nails, rivets, staples or straps piercing or perforating the roof covering material}
C	E04D 2001/3426	· · · {Threaded elements, e.g. screws or bolts}
C	E04D 2001/3429	· · · {Press-studs elements or hook and loop elements, e.g. Velcro elements}
C	E04D 2001/3432	· · · {Strips covering the gap between the roof covering elements}
C	E04D 2001/3435	· · · {Adhesive, hardenable or heat-sensitive material}
C	E04D 2001/3438	· · · {Fasteners comprising several coacting elements}
C	E04D 2001/3441	· · · {Series of easily separable fasteners}
C	E04D 2001/3444	· · {characterised by the roof covering or structure with integral or premounted fastening means}
C	E04D 2001/3447	· · · {the fastening means being integral or premounted to the roof covering}
C	E04D 2001/345	· · · {the fastening means being integral or premounted to the roof structure}

C	E04D 2001/3452	· · {characterised by the location of the fastening means}
C	E04D 2001/3455	· · · {on the internal surface of the roof covering elements}
C	E04D 2001/3458	· · · {on the upper or lower transverse edges of the roof covering elements}
C	E04D 2001/3461	· · · {on the lateral edges of the roof covering elements}
C	E04D 2001/3464	· · · {on the lateral corners of the roof covering elements for diagonally tiled roofs}
C	E04D 2001/3467	· · · {through apertures, holes or slots}
C	E04D 2001/347	· · {characterised by the fastening pattern}
C	E04D 2001/3473	· · · {fastening single roof elements to the roof structure with or without indirect clamping of neighbouring roof covering elements}
C	E04D 2001/3476	· · · {the fastening means taking hold directly on adjacent elements of the same row and fastening them simultaneously to the roof structure}
D	E04D 2001/3479	· · · {the fastening means taking hold directly on adjacent elements of the same row and fastening them only to each other}
		<administratively transferred to E04D 1/2916 INV>
D	E04D 2001/3485	· · · {the fastening means taking hold directly on elements of succeeding rows and fastening them only to each other}
		<administratively transferred to E04D 1/2918 INV>
C	E04D 2001/3488	· · {characterised by the type of roof covering elements being fastened}
C	E04D 2001/3491	· · · {made of flexible material, e.g. shingles}
C	E04D 2001/3494	· · · {made of rigid material having a flat external surface}
C	E04D 2001/3497	· · · {Spanish type tiles}

Project: MP0381 (E04F)

M	E04F	**FINISHING WORK ON BUILDINGS, e.g. STAIRS, FLOORS (windows, doors E06B)**

WARNING

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:

E04F 11/09	covered by	E04F 11/02
E04F 11/17	covered by	E04F 11/16

2. 1. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0445 (E04F)

U	E04F 13/00	**Coverings or linings, e.g. for walls or ceilings (flooring E04F 15/00; decoration of surfaces, mosaic work B44, e.g. paper-hanging B44C 7/00; made of webs, e.g. of fabrics or wallpaper {, as such, or their manufacturing} D03D, D04G, D04H, D06N, D21H; construction of {false} ceilings E04B 9/00; roofings or similar water-tight coverings against precipitation E04D)**
U	E04F 13/07	· composed of covering or lining elements; Sub-structures therefor; Fastening means therefor
U	E04F 13/08	· · composed of a plurality of similar covering or lining elements, (E04F 13/072 takes precedence; borders, skirtings E04F 19/02; {of webs or fabrics E04F 13/002; fixing strips E04F 19/06; separate provisional spacers between adjacent tiles E04F 21/0092; implements or means for setting tiles E04F 21/18})

U	E04F 13/0801	· · · {Separate fastening elements ([E04F 13/088](#), [E04F 13/0885](#) take precedence)}
U	E04F 13/0832	· · · · {without load-supporting elongated furring elements between wall and covering elements}
M	E04F 13/0833	· · · · · {not adjustable ([E04F 13/0857](#) takes precedence; ~~not used, see subgroups~~)}
U	**E04F 19/00**	**Other details of constructional parts for finishing work on buildings (ladders, e.g. climbing irons, [E06C 9/04](#))**
U	E04F 19/02	· Borders; Finishing strips, e.g. beadings; Light coves (for protecting edges of plaster [E04F 13/06](#))
U	E04F 19/04	· · for use between floor or ceiling and wall, e.g. skirtings
M	E04F 19/0459	· · · {characterised by the fixing method ~~(not used, see subgroups)~~}

Project: MP0381 (E04G)

M	E04G	**SCAFFOLDING; FORMS; SHUTTERING; BUILDING IMPLEMENTS OR OTHER BUILDING AIDS, OR THEIR USE; HANDLING BUILDING MATERIALS ON THE SITE; REPAIRING, BREAKING-UP OR OTHER WORK ON EXISTING BUILDINGS**

NOTE

In this subclass the word "scaffolding" includes other supports for like purposes

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:

E04G 23/03	covered by	*E04G 23/0266*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (E05B)

M	E05B	**LOCKS; ACCESSORIES THEREFOR; HANDCUFFS**

NOTES

1. Operating or controlling of locks for vehicle wings are classified in groups [E05B 77/00](#)-[E05B 81/00](#).

2. Knobs, handles or press buttons for locks of vehicle wings are classified in [E05B 79/00](#)-[E05B 85/00](#).

3. {In this subclass, it is desirable to add the indexing code(s) of [E05Y](#).}

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:

E05B 1/02	*covered by*	*E05B 1/00*
E05B 5/02	*covered by*	*E05B 5/003*
E05B 5/04	*covered by*	*E05B 5/003*
~~E05B 1/02~~-E05B 9/06	covered by	*E05B 9/00 - E05B 9/048*
E05B 13/02-~~E05B 13/08~~	covered by	*E05B 11/00, E05B 15/08 and E05B 17/14*
E05B 13/06	*covered by*	*E05B 11/00, E05B 15/08 and E05B 17/14*
E05B 13/08	*covered by*	*E05B 13/00*
E05B 15/12	covered by	*E05B 17/2007*
E05B 17/02	covered by	*E05C 7/02*

E05B 19/02	covered by	*E05B 19/00*
E05B 19/06 ~~E05B 19/08~~	covered by	*E05B 19/00*
E05B 19/08	*covered by*	*E05B 19/0017, E05B 19/14, E05B 35/003 and E05B 35/14*
E05B 19/10 ~~E05B 19/12~~	covered by	*E05B 19/04*
E05B 19/12	*covered by*	*E05B 35/003*
E05B 19/16	covered by	*E05B 35/007, E05B 27/0028 and E05B 29/0006*
E05B 21/02 ~~E05B 21/04~~	covered by	*E05B 21/00*
E05B 21/04	*covered by*	*E05B 21/00*
E05B 25/00-E05B 25/10	covered by	*E05B 21/00 and E05B 23/00*
E05B 27/04-E05B 27/06	covered by	*E05B 27/0003 - E05B 27/0096*
E05B 29/02-E05B 29/14	covered by	*E05B 29/0006 - E05B 29/0093*
E05B 35/04	covered by	*E05B 35/00*
E05B 37/06	covered by	*E05B 37/04 and E05B 67/00*
E05B 37/18	covered by	*E05B 37/16 and E05B 67/00*
E05B 37/22	covered by	*E05B 37/20 and E05B 67/00*
E05B 45/14	covered by	*E05B 45/06*
E05B 47/04	covered by	*E05B 47/02*
E05B 47/08	covered by	*E05B 47/06 and E05B 15/101*
E05B 49/02-E05B 49/04	covered by	*G07C 9/00*
E05B 55/02	covered by	*E05B 55/00*
E05B 55/04	covered by	*E05B 55/00 and E05B 13/00*
E05B 55/08	covered by	*E05B 55/06*
E05B 55/10	covered by	*E05B 55/06*
E05B 55/14-E05B 55/16	covered by	*E05B 55/00*
E05B 59/02 ~~E05B 59/06~~ *E05B 59/04*	covered by	*E05B 59/00*
E05B 59/06	*covered by*	*E05B 15/102*
E05B 65/04	covered by	*E05C 7/02*
E05B 67/12	covered by	*E05B 67/10*
E05B 67/16	covered by	*E05B 67/14*
E05B 67/20	covered by	*E05B 67/18*
E05B 67/30	covered by	*E05B 67/28*
E05B 67/34	covered by	*E05B 67/32*
E05B 71/02	covered by	*E05B 71/00 and E05B 37/00*

Project: MP0381 (E05C)

M	**E05C**	**BOLTS OR FASTENING DEVICES FOR WINGS, SPECIALLY FOR DOORS OR WINDOWS (latching means for sideboard or tailgate structures for vehicles B62D, {B62D 33/02}; fastening devices for constructional or engineering elements E04, F16B; locks, fastening devices structurally or operatively combined or having significant cooperation with locks E05B; means for operating or controlling wing fasteners in conjunction with mechanisms for moving the wing E05F)**

NOTES

1. In this subclass only the movement essential for securing the wing is considered, e.g. a sliding bolt which is rotated on its axis to prevent its withdrawal is classified as having only a sliding movement

2. Attention is drawn to the definition following the title of class E05

3. {In this subclass, it is desirable to add the indexing code(s) of E05Y.}

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:

E05C 3/32	covered by	*E05C 3/30*
E05C 17/06	covered by	*E05C 17/04*
E05C 17/10	covered by	*E05C 17/04*
E05C 21/02	covered by	*E05C 21/00*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (E05D)

M	**E05D**	**HINGES OR OTHER SUSPENSION DEVICES FOR DOORS, WINDOWS OR WINGS ({foldable tables A47B 3/00; hinged panels A47B 5/00; foldable chairs A47C 4/00; making hinges B21D 53/40, B21K 13/02; making holes for taking-up fittings B27F 5/12; for vehicle tailboards B60P 1/26; for refuse receptacles B65F 1/1646} ; pivotal connections in general F16C 11/00 {; mounting of stove or range doors F24C 15/023; for folding flat displays of portable computers G06F 1/1616})**

WARNING

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:

E05D 5/16	covered by	E05D 5/14
E05D 7/081	covered by	E05D 7/08
E05D 7/083	covered by	E05D 7/082
E05D 15/04	covered by	E05D 15/02, E05D 15/28, E05D 15/403
E05D 15/522	covered by	E05D 15/52
E05D 15/523	covered by	E05D 15/52
E05D 15/524	covered by	E05D 15/52

2. *1.* In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (E21B)

M	**E21B**	**EARTH DRILLING, e.g. DEEP DRILLING (mining, quarrying E21C; making shafts, driving galleries or tunnels E21D); OBTAINING OIL, GAS, WATER, SOLUBLE OR MELTABLE MATERIALS OR A SLURRY OF MINERALS FROM WELLS**

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:

E21B 1/12 - E21B 1/38	covered by	E21B 1/00
E21B 7/08	covered by	E21B 7/06
E21B 11/04	covered by	E21B 27/00
E21B 23/12	covered by	E21B 23/002
E21B 31/08	covered by	E21B 27/00
E21B 43/22	covered by	C09K 8/58
E21B 43/27	covered by	*E21B 43/26*
E21B 47/001-E21B 47/009 *E21B 47/005*	covered by	*E21B 47/0001 - E21B 47/0005*
E21B 47/007 - E21B 47/009	*covered by*	*E21B 47/0006 - E21B 47/0008*
E21B 47/013-E21B 47/017	covered by	*E21B 47/01*
E21B 47/017	*covered by*	*E21B 47/011*
E21B 47/0224-E21B 47/0236	covered by	*E21B 47/02208 - E21B 47/02232*
E21B 47/047-E21B 47/053	covered by	*E21B 47/042 - E21B 47/044*
E21B 47/07	covered by	*E21B 47/065*
E21B 47/085	covered by	*E21B 47/082*
E21B 47/092-E21B 47/098	covered by	*E21B 47/0905 - E21B 47/0915*
E21B 47/103-E21B 47/117	covered by	*E21B 47/1005 - E21B 47/1025*
E21B 47/125-E21B 47/135	covered by	*E21B 47/121 - E21B 47/123*
E21B 47/20-E21B 47/24	covered by	*E21B 47/182 - E21B 47/187*
E21B 47/26	covered by	*E21B 47/124*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (E21C)

M	**E21C**	**MINING OR QUARRYING**

NOTES

1. This subclass covers methods or apparatus specific to mining or quarrying

2. This subclass does not cover, even though they may be disclosed only for mining or quarrying, drill bits, bore reamers, core taking devices, drilling pipes or rods, handling, racking or connecting arrangements for drilling pipes or rods, counterboring or enlarging drilled holes, flame drilling, or other drilling apparatus, which are covered by subclass E21B

WARNING

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:

E21B 3/02	covered by	E21B 3/02
E21B 3/035	covered by	E21B 3/035
E21B 3/025	covered by	E21B 3/025

E21B 3/03	covered by	E21B 3/03
E21B 6/00	covered by	E21B 6/00
E21C3/08	covered by	B25D 9/06, **B25D15/00**
E21C3/10	covered by	**B25D15/02**
E21C3/12	covered by	B25D 11/00
E21C3/14	covered by	B25D 11/00
E21C3/20	covered by	B25D 9/12
E21C3/22	covered by	B25D 9/125
B25D11/005	covered by	B25D 9/265
E21C3/34	covered by	B25D 17/08
E21B 19/081	covered by	E21B 19/081
E21B 19/083	covered by	E21B 19/083
E21B 19/084	covered by	E21B 19/084
E21B 19/089	covered by	E21B 19/089
E21B 44/08	covered by	E21B 44/08
E21B 44/00	covered by	E21B 44/00
E21B 21/14	covered by	E21B 21/14
E21B 7/02	covered by	E21B 7/02
E21C 37/24	covered by	B25D
E21C 37/26	covered by	B25D
E21C 41/18	covered by	E21C 41/16
E21C 41/20	covered by	E21C 41/16
E21C 41/22	covered by	E21C 41/16
E21C 41/24	covered by	E21C 41/16
E21C 41/28	covered by	E21C 41/26
E21C 41/30	covered by	E21C 41/26
E21C 45/02	covered by	E21C 25/60, E21C 45/00
E21C 45/04	covered by	E21C 25/60, E21C 45/00
E21C 45/06	covered by	E21C 25/60, E21C 45/00
E21C 45/08	covered by	E21C 25/60, E21C 45/00
E21C 50/00	covered by	E02F 3/88
E21C 50/02	covered by	E02F 3/88

2. *1.* In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0445 (E21C)

U	E21C 3/00	**{Drilling machines with reciprocating tool that is intermittently turned when out of contact with the working face (portable percussion tools in general B25D)}**
M	E21C 3/06	· {Means for driving the impulse member (not used, see subgroups and B25D)}

Project: MP0381 (F01L)

M	**F01L**	**CYCLICALLY OPERATING VALVES FOR MACHINES OR ENGINES (valves in general F16K)**

NOTES

1. Groups F01L 1/00 - F01L 13/00 cover only valve-gear or valve arrangements without provision for variable fluid distribution.

2. Valve gear or valve arrangements specially adapted for steam engines are covered by groups F01L 15/00 - F01L 35/00.

3. Valve-gear arrangements specially adapted for machines or engines with variable working-fluid distribution are covered by groups F01L 15/00 - F01L 35/00.

4. Attention is drawn to the notes preceding class F01, especially Note (3).

5. As regards the above-mentioned Note (3), attention is drawn to F01B 3/10, F01B 15/06, F01C 21/18, F02B 53/06, F03C 1/08, F04B 1/18, F04B 7/00, F04B 39/08, F04B 39/10, and F04C 15/06, F04C 29/12.

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:

F01L 31/20	covered by	*F01L 31/08 - F01L 31/18*
F01L 31/22	covered by	*F01L 31/08 - F01L 31/18*
F01L 31/24	covered by	*F01L 31/08 - F01L 31/18*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (F03C)

M	**F03C**	**POSITIVE-DISPLACEMENT ENGINES DRIVEN BY LIQUIDS (positive-displacement engines for liquids and elastic fluids F01; positive-displacement machines for liquids F04; fluid-pressure actuators F15B; fluid gearing F16H)**

NOTE

Attention is drawn to the notes preceding class F01, especially as regards the meanings of "positive displacement", "rotary-piston machines", "oscillating-piston machines", "rotary-piston", "co-operating members", "movement of co-operating members", "teeth or tooth-equivalents", and "internal axis".

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:

F03C 1/253	covered by	~~F03C~~ *F03C 1/06*
F03C 1/28	covered by	F03C 1/0406, F03C 1/0605
F03C 1/30	covered by	F03C 1/0409, F03C 1/0631, F03C 1/0668
F03C 1/32	covered by	F03C 1/0415, F03C 1/0626, F03C 1/0652
F03C 1/34	covered by	F03C 1/0435, F03C 1/0615, F03C 1/0655
F03C 1/36	covered by	F03C 1/0435, F03C 1/0615, F03C 1/0655
F03C 1/38	covered by	F03C 1/0435, F03C 1/0615, F03C 1/0655

F03C 1/40		covered by	F03C 1/0447, F03C 1/0678

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0446 (F05C)

U	F05C 2203/00	**Non-metallic inorganic materials**
U	F05C 2203/08	· Ceramics; Oxides
M	F05C 2203/0865	· · ~~not used, see subgroups~~ *Oxide ceramics*

Project: MP0381 (F16B)

M	F16B	**DEVICES FOR FASTENING OR SECURING CONSTRUCTIONAL ELEMENTS OR MACHINE PARTS TOGETHER, e.g. NAILS, BOLTS, CIRCLIPS, CLAMPS, CLIPS, WEDGES, JOINTS OR JOINTING (couplings for transmitting rotation F16D)**

NOTES

1. Attention is drawn to:
    a. the Note following group E04B 1/38;
    b. the following places:

A44B	Buckles, slide fasteners
A47G 3/00	Ornamental heads for nails, screws, or the like
B42F 3/00	Means, not using staples, for attaching sheets temporarily together
{C14B 17/08}	{Fastening devices, e.g. clips for leather-stretching used in apparatus or machines for manufacturing or treating skins, hides, leathers or furs}
E01B 9/10	Screws or bolts for railway sleepers
E01B 11/00	Rail joints
E04	Connections for building
E04D 13/08	Clamping means for down pipes for roof drainage
E04G 5/04	Fastening scaffolds against buildings
E04G 7/00	Scaffolding couplings
E05C	Bolts for fasteners for wings, specially for doors or windows
F16C 29/10	Locking bearings for parts moving only linearly
F16G 17/00	Hooks as integral parts of chains
F16L	Pipe joints
F16L 3/00	Supports for pipes, cables or protective tubing, e.g. hangers, holders, clamps, cleats, clips, brackets
F16L 33/02	Clips for connecting hoses to rigid members
H01F 7/00	Magnetic holding devices
H02N 13/00	Electrostatic holding devices.

2. Groups F16B 2/00 - F16B 47/00 take precedence over group F16B 1/00.

3. {In this main group, it is desirable to add the indexing codes of F16B 2200/00}

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:

F16B 7/08		covered by	F16B 5/12, F16B 7/04, F16L 3/00
F16B 7/12		covered by	F16B 7/105
F16B 7/16		covered by	F16B 7/14*, F16B 2007/16*

F16B 13/10	covered by	F16B 13/08, *F16B 2013/10*
F16B 13/13	covered by	F16B 13/002, F16B 13/12
F16B 21/14	covered by	F16B 21/12, ~~F16B 21/125~~ *F16B 2021/14*
F16B 25/02	covered by	~~F16B 25/00~~*F16B 25/103*
F16B 25/04	covered by	F16B 25/00, *F16B 25/106*
F16B 25/06	covered by	F16B 25/00, *F16B 25/106*
F16B 25/08	covered by	F16B 25/00, *F16B 25/106*
F16B 33/04	covered by	F16B 33/02, *F16B 2033/04*
F16B 37/10	covered by	F16B 37/0842, F16B 37/0871

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0446 (F16B)

U F16B 5/00   **Joining sheets or plates {, e.g. panels,} to one another or to strips or bars parallel to them ({F16B 17/00 takes precedence;} by sticking together F16B 11/00; dowel connections F16B 13/00; pins, including deformable elements F16B 19/00; covering of walls E04F 13/00; fastening signs, plates, panels or boards to a supporting structure, fastening readily-detachable elements, e.g. letters to signs, plates, panels, or boards, G09F 7/00)**

U   F16B 5/0004   · {Joining sheets, plates or panels in abutting relationship (F16B 5/01 takes precedence)}

M   F16B 5/0084   · · {characterised by particular locking means ~~(not used, see subgroups)~~}

U F16B 37/00   **Nuts or like thread-engaging members {(specially shaped for rotations by a tool F16B 23/00)}**

M   F16B 37/08   · Quickly-detachable {or mountable} nuts, e.g. consisting of two or more parts; Nuts movable along the bolt after tilting the nut ~~{not used, see subgroups}~~

Project: MP0381 (F16K)

M F16K   **VALVES; TAPS; COCKS; ACTUATING-FLOATS; DEVICES FOR VENTING OR AERATING {(devices for emptying and evacuating the excess liquid in valves or conduits F16L 55/07)}**

NOTE

Attention is drawn to the following places:

A47J 27/09	Safety devices for pressure cookers
A47J 31/46	Dispensing spouts, drain valves or like beverage-making apparatus
A61B 5/0235	Valves specially adapted for measuring pressure in heart or blood vessels
A61F 2/24	Heart valves
A61M 16/20	Valves specially adapted for medical respiratory devices
A61M 39/00	Tube connectors, tube couplings, valves or branch units specially adapted for medical use in general
A62B 9/02	Valves for respiratory apparatus
A62B 18/10	Valves for breathing masks or helmets
A62C	Fire extinguishers
{B01D 35/04}	{Plug, tap, or cock filters}
B05B	Nozzles, spray heads or other discharge apparatus for spraying or atomising

B60C 29/00	Arrangements of tyre-inflating valves relative to tyres or wheel rims; Connection of valves to wheel rims, tyres or other inflatable elastic bodies
B60G 17/048	Valves specially adapted for adjusting vehicle fluid-spring characteristics
B60T	Valves specially adapted for vehicle brake control systems
B62D 5/08	Vehicle power-assisted steering characterised by the type of valve used
B63B 7/00, B63C 9/00	Arrangement of inflating valves for floatable life-saving equipment
B65D 47/04	Container closures with discharging valves
B65D 90/32	Safety valves for large containers
B65D 90/54	Gates or closures on large containers
B67C 3/28	Flow control devices for bottling liquids
B67D	Dispensing, delivering or transferring liquids
{C21B 9/12}	{Hot-blast valves for blast furnaces}
E02B 8/00	Details, e.g. valves, of barrages or weirs
E02B 13/02	Closures for irrigation conduits
{E03C 1/04}	{Water-basin installations specially adapted for wash-basins or baths}
{E03C 1/05}	{Arrangements on wash-basins for the remote control of taps}
E03D	Flushing valves for water-closets or urinals
{E03F 7/04}	{Valves for preventing return flow in sewer systems}
E05F 3/12	Valve arrangements in door closers
E21B 21/10	Valve arrangements in drilling-fluid circulation systems
E21B 34/00	Valve arrangements for boreholes or wells
{E21D 15/51}	{Arrangement of relief valves in hydraulic mine props}
F01B 25/10	Working-fluid valves for controlling machines or engines in general or of positive-displacement type
F01D 17/10	Final actuators for controlling non-positive displacement machines or engines
F01L	Cyclically operated valves for machines or engines
F02D 9/08	Throttle valves for controlling combustion engines
F02K 9/58	Propellant feed valves for rocket-engines
F02M	Carburettors, fuel injection
F02M 59/46	Valves for fuel injection pumps
F04	Pumps
F16F 9/34	Valves for shock absorbers
F16L 29/00, F16L 37/28	Pipe joints or quick-acting couplings with fluid cut-off means
F16L 55/00	Arrangement of valves in pipes
F16L 55/055	Valves specially adapted to prevent or minimise the effect of water hammer
F16L 55/46	Launching devices for pigs or moles
F16N 23/00	Check valves for lubrication systems
{F16T}	{Draining-off liquids from steam traps}
F17C 13/04	Arrangement of valves in pressure vessels
F22B 37/44	Arrangement of safety valves on steam boilers
F22D 5/34	Application of valves to automatic water-feed in boiler
F23L 13/00	Valves for air supply control to burners
{F23Q 2/16}	{Valves for lighters with gaseous fuel and adjustable flame}

F24C 3/12, F24C 5/16	Arrangement of valves on stoves or ranges	
F24F	Air conditioning; Ventilation	
F25B 41/04	Disposition of fluid circulation valves in refrigeration machines	
G05D	Controlling non-electric variables	
G10B 3/06	Valves for organs	
G10D 9/04	Valves for other wind-actuated musical instruments	
{G21C 9/06}	{Safety valves structurally associated with nuclear reactors}	
{H01M 2/12}	{Vent plugs in batteries or cells}	

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:

F16K 31/11	covered by	F16K 31/06, F16K 31/08, F16K 31/10
F16K 31/64	covered by	G05D *F16K 31/002, G05D 23/00*
F16K 31/66	covered by	F16K 31/06, , H01F *G05D 23/00*
F16K 31/68	covered by	G05D *F16K 31/001, G05D 23/00*
F16K 31/70	covered by	F16K 31/002*, G05D 23/08*
F16K 31/72	covered by	F16K 31/00

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (F16L)

M F16L	**PIPES; JOINTS OR FITTINGS FOR PIPES; SUPPORTS FOR PIPES, CABLES OR PROTECTIVE TUBING; MEANS FOR THERMAL INSULATION IN GENERAL**

NOTES

1. In this subclass, the following terms are used with the meanings indicated:
   - "pipe" means a conduit of closed cross-section, which is specially adapted to convey fluids, materials or objects;
   - "hose" means a pipe, as defined above, which has flexibility as an essential characteristic.

2. Attention is drawn to the following places:

A61M 39/00	Tube connectors, tube couplings or branch units, specially adapted for medical use
B05B 1/20	Perforated pipes
{B60T 17/04}	{Arrangement of piping or air hoses in brake systems}
B63B 35/03	Pipe-laying vessels
B64D 39/04	Adaptation of hose constructions for refuelling aircraft during flight
{B65G 51/00}	{Conveying articles through pipes or tubes by fluid flow or pressure}
{B65G 53/00}	{Conveying materials in bulk through pipes or tubes}
B67D 7/38	Arrangements of hoses in apparatus for transferring liquids, e.g. fuel, from bulk to vehicles or portable containers
E01D 19/10	Fastening of pipes or cables to bridges
E03B	Water supply installations

E03D 11/17	Means for connecting water-closet bowls to the flushing pipe
E03D 11/18	Siphons for water-closets
E03F 3/04	Pipes or fittings specially adapted to sewers
E04D 13/08	Down pipes for roof drainage; Clamping means therefor
E04F 17/00	Vertical ducts, channels in buildings, e.g. chimneys
E21F 1/04	Air ducts for ventilation of mines or tunnels; Connections therefor
E21F 17/02	Suspension devices for tubes or the like in mines or tunnels
F01N	Gas flow silencers or exhaust apparatus for machines or engines
{F16B 7/00}	{Connections of rods or tubes}
F16N 21/00	Conduits, junctions for lubrication systems
F17C 3/02	Thermal insulation of vessels not under pressure for storing liquefied or solidified gases, e.g. Dewar flask
{F17D}	{Pipe-line systems, pipe-lines}
F22B 37/10	Water tubes of steam boilers
F23J 13/04	Joints, connections for chimneys or flues
F24H 9/12	Connecting circulation pipes to heaters
F28F 9/04	Arrangements for sealing elements into header boxes or end plates of heat-exchangers
G21C 15/22	Structural association of coolant tubes with headers or other pipes in nuclear reactors
H02G 3/04	Protective tubing or conduits for electric cables
H02G 3/26	Installations of electric cables or lines, or protective tubing on or in walls,ceilings or floors.

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:

~~F16L 3/21~~	~~covered by~~	~~F16L 3/2053, F16L 3/2056;~~
~~F16L 13/013~~	~~covered by~~	~~F16L 13/007;~~
F16L 19/03	covered by	F16L 19/0212;
F16L 59/05	covered by	F16L 59/021.
F16L 101/14	covered by	*F16L 2101/10*

2. {In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.}

Project: RP0479 (F16L)

U	F16L 3/00	**Supports for pipes, cables or protective tubing, e.g. hangers, holders, clamps, cleats, clips, brackets (anchors for holding pipes on or under the ground F16L 1/06; {sound-damping supports F16L 55/035; supports for insulated pipes F16L 59/135})**
C	F16L 3/24	ᐧ with a special member for attachment to profiled girders

> *WARNING*
> *Group F16L 3/24 is impacted by reclassification into groups F16L 3/243, F16L 3/2431, and F16L 3/245.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N	*F16L 3/243*	· · {*the special member being inserted in the profiled girder*}

> *WARNING*
> *Groups F16L 3/243 and F16L 3/2431 are incomplete pending reclassification of documents from group F16L 3/24.*
> *All groups listed in this warning should be considered in order to perform a complete search.*

N	*F16L 3/2431*	· · · {*the special member being inserted and subsequently rotated to a limited extent*}
N	*F16L 3/245*	· · {*the special member embracing the entire profiled girder*}

> *WARNING*
> *Group F16L 3/245 is incomplete pending reclassification of documents from group F16L 3/24.*
> *Groups F16L 3/245 and F16L 3/24 should be considered in order to perform a complete search.*

U	**F16L 27/00**	**Adjustable joints, Joints allowing movement (of the quick-acting type F16L 37/50; for double-walled or multi-channel pipe assemblies F16L 39/04; {connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics F16L 47/00; connecting arrangements specially adapted for pipes of brittle material F16L 49/00})**
C	F16L 27/12	· allowing substantial longitudinal adjustment or movement (by use of screw-thread F16L 15/02)

> *WARNING*
> *Group F16L 27/12 is impacted by reclassification into groups F16L 27/127, F16L 27/1273, F16L 27/1274, F16L 27/1275, and F16L 27/12751.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

C	F16L 27/125	· · {having ~~axial~~*longitudinal* and rotary movement}

> *WARNING*
> *Group F16L 27/125 is impacted by reclassification into groups F16L 27/127, F16L 27/1273, F16L 27/1274, F16L 27/1275, and F16L 27/12751.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N	*F16L 27/127*	· · {*with means for locking the longitudinal adjustment or movement in the final mounted position*}

> *WARNING*
> *Groups F16L 27/127, F16L 27/1273, F16L 27/1274, F16L 27/1275, and F16L 27/12751 are incomplete pending reclassification of documents from groups F16L 27/12 and F16L 27/125.*
> *All groups listed in this warning should be considered in order to perform a complete search.*

N	*F16L 27/1273*	· · · {*by quick-acting means*}
N	*F16L 27/1274*	· · · {*by means of a swivel nut*}
N	*F16L 27/1275*	· · · {*by means of at least an external threaded bolt*}
N	*F16L 27/12751*	· · · · {*the threaded bolt extending longitudinally*}
U	**F16L 37/00**	**Couplings of the quick-acting type (radially binding sleeves F16L 17/04, F16L 21/06; connecting hoses to rigid members F16L 33/00; connections made automatically when vehicles are brought together B60D, B61G; specially adapted for lubricating devices F16N 21/00)**

U	F16L 37/08	· in which the connection between abutting or axially overlapping ends is maintained by locking members (F16L 37/22 - F16L 37/26 take precedence)
U	F16L 37/084	· · combined with automatic locking
C	F16L 37/088	· · · by means of a split elastic ring

> *WARNING*
> *Group F16L 37/088 is impacted by reclassification into groups F16L 37/0885 and F16L 37/0887.*
> *Groups F16L 37/088, F16L 37/0885, and F16L 37/0887 should be considered in order to perform a complete search.*

N	*F16L 37/0885*	· · · · *{with access to the split elastic ring from a radial or tangential opening in the coupling}*

> *WARNING*
> *Group F16L 37/0885 is incomplete pending reclassification of documents from group F16L 37/088.*
> *Groups F16L 37/0885 and F16L 37/088 should be considered in order to perform a complete search.*

N	*F16L 37/0887*	· · · · *{with an axially movable separate member for releasing the coupling}*

> *WARNING*
> *Group F16L 37/0887 is incomplete pending reclassification of documents from group F16L 37/088.*
> *Groups F16L 37/0887 and F16L 37/088 should be considered in order to perform a complete search.*

C	F16L 37/092	· · · by means of elements wedged between the pipe and the frusto-conical surface of the body of the connector

> *WARNING*
> *Group F16L 37/092 is impacted by reclassification into groups F16L 37/0926 and F16L 37/0927.*
> *Groups F16L 37/092, F16L 37/0926, and F16L 37/0927 should be considered in order to perform a complete search.*

C	F16L 37/0925	· · · · {with rings which bite into the wall of the pipe}

> *WARNING*
> *Group F16L 37/0925 is impacted by reclassification into groups F16L 37/0926 and F16L 37/0927.*
> *Groups F16L 37/0925, F16L 37/0926, and F16L 37/0927 should be considered in order to perform a complete search.*

N	*F16L 37/0926*	· · · · *{with an inner support sleeve arranged within the pipe}*

> *WARNING*
> *Group F16L 37/0926 is incomplete pending reclassification of documents from groups F16L 37/092 and F16L 37/0925.*
> *Groups F16L 37/0926, F16L 37/092, and F16L 37/0925 should be considered in order to perform a complete search.*

N	*F16L 37/0927*	· · · · *{the wedge element being axially displaceable for releasing the coupling}*

> *WARNING*
> *Group F16L 37/0927 is incomplete pending reclassification of documents from groups F16L 37/092 and F16L 37/0925.*
> *Groups F16L 37/0927, F16L 37/092, and F16L 37/0925 should be considered in order to perform a complete search.*

U	**F16L 47/00**	**Connecting arrangements or other fittings specially adapted to be made of plastics or to be used with pipes made of plastics {(connections for hoses of plastics F16L 33/006)}**
C	F16L 47/04	· with a swivel nut or collar engaging the pipe

> *WARNING*
> *Group F16L 47/04 is impacted by reclassification into group F16L 47/041. Groups F16L 47/04 and F16L 47/041 should be considered in order to perform a complete search.*

N	*F16L 47/041*	· · *{the plastic pipe end being flared either before or during the making of the connection}*

> *WARNING*
> *Group F16L 47/041 is incomplete pending reclassification of documents from group F16L 47/04.*
> *Groups F16L 47/041 and F16L 47/04 should be considered in order to perform a complete search.*

Project: MP0381 (F23C)

M	**F23C**	**METHODS OR APPARATUS FOR COMBUSTION USING FLUID FUEL OR SOLID FUEL SUSPENDED IN {A CARRIER GAS OR} AIR (burners F23D)**

NOTE

In this subclass, methods are classified in the groups that cover the apparatus used.

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:

F23C 101/00   covered by   *F23C 2206/101*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0446 (F25J)

M	**F25J 1/00**	**Processes or apparatus for liquefying or solidifying gases or gaseous mixtures {(~~for ammonia in general C01C 1/00; solidification of carbonic acid C01B 32/55;~~ recovering volatile solvents by condensation B01D 5/00; vapor recovery systems combined with filling nozzles B67D 7/54*; solidification of carbonic acid C01B 32/55 ; for ammonia in general C01C 1/00*)~~(not used)~~}**
M	F25J 1/0002	· {characterised by the fluid to be liquefied ~~(not used)~~}
M	F25J 1/003	· {characterised by the kind of cold generation within the liquefaction unit for compensating heat leaks and liquid production ~~(not used)~~}
M	F25J 1/0032	· · {using the feed stream itself or separated fractions from it, i.e. "internal refrigeration" ~~(not used)~~}
M	F25J 1/0047	· · {using an "external" refrigerant stream in a closed vapor compression cycle (F25J 1/0221, F25J 1/0225 take precedence)~~(not used)~~}
M	F25J 1/006	· {characterised by the refrigerant fluid used (refrigerants in vapor compression cycles F25B 9/002, refrigerant materials per se C09K 5/00)~~(not used)~~}
M	F25J 1/008	· · {Hydrocarbons ~~(not used)~~}
M	F25J 1/02	· requiring the use of refrigeration, e.g. of helium or hydrogen {Details and kind of the refrigeration system used; Integration with other units or processes; Controlling aspects of the process ~~(not used)~~}

M	F25J 1/0203	· · {using a single-component refrigerant [SCR]– fluid in a closed vapor compression cycle (F25J 1/0211 takes precedence) (not used)}
M	F25J 1/0211	· · {using a multi-component refrigerant [MCR] fluid in a closed vapor compression cycle (not used)}
M	F25J 1/0243	· · {Start-up or control of the process; Details of the apparatus used; Details of the refrigerant compression system used (not used)}
M	**F25J 3/00**	**Processes or apparatus for separating the constituents of gaseous {or liquefied gaseous} mixtures involving the use of liquefaction or solidification {(not used)}**
M	F25J 3/02	· by rectification, i.e. by continuous interchange of heat and material between a vapour stream and a liquid stream (F25J 3/08 takes precedence {; purification of hydrocarbons in general C07C 7/00}; not used})
M	F25J 3/0204	· · {characterised by the feed stream (for air F25J 3/04)(not used)}
M	F25J 3/0228	· · {characterised by the separated product stream (not used)}
M	F25J 3/04	· · for air {(not used)}
M	F25J 3/04006	· · · {Providing pressurised feed air or process streams within or from the air fractionation unit (not used)}
M	F25J 3/04151	· · · {Purification and (pre-)cooling of the feed air; recuperative heat-exchange with product streams (not used)}
M	F25J 3/04406	· · · {using a dual pressure main column system (F25J 3/0446, F25J 3/04624, F25J 3/04636 and F25J 3/04715 take precedence)(not used)}
M	F25J 3/04436	· · · {using at least a triple pressure main column system (F25J 3/0446, F25J 3/04624, F25J 3/04636 and F25J 3/04715 take precedence)(not used)}
M	F25J 3/04472	· · · {using the cold from cryogenic liquids produced within the air fractionation unit and stored in internal or intermediate storages (not used)}
M	F25J 3/04521	· · · {Coupling of the air fractionation unit to an air gas-consuming unit, so-called integrated processes (combined plants, e.g. engine plant combined with an industrial process F01K 23/064; gas-turbine plants supplying working fluid to a chemical process F02C 6/10)(not used)}
U	F25J 3/04642	· · · {Recovering noble gases from air (from gas mixtures other than air F25J 3/028 or F25J 3/0685)}
M	F25J 3/04648	· · · · {argon (not used)}
M	F25J 3/04763	· · · {Start-up or control of the process; Details of the apparatus used (not used)}
M	F25J 3/06	· by partial condensation (F25J 3/08 takes precedence; by rectification F25J 3/02 – {; purification of hydrocarbons in general C07C 7/00}; not used})
M	F25J 3/0605	· · {characterised by the feed stream (for air F25J 3/04)(not used)}
M	F25J 3/063	· · {characterised by the separated product stream (not used)}
M	**F25J 2200/00**	**Processes or apparatus using separation by rectification (not used)**
M	**F25J 2205/00**	**Processes or apparatus using other separation and/or other processing means (not used)**
M	**F25J 2210/00**	**Processes characterised by the type or other details of the feed stream (not used)**
M	**F25J 2215/00**	**Processes characterised by the type or other details of the product stream (not used)**
M	**F25J 2220/00**	**Processes or apparatus involving steps for the removal of impurities (not used)**

M	F25J 2230/00	**Processes or apparatus involving steps for increasing the pressure of gaseous process streams** ~~(not used)~~
M	F25J 2235/00	**Processes or apparatus involving steps for increasing the pressure or for conveying of liquid process streams** ~~(not used)~~
M	F25J 2240/00	**Processes or apparatus involving steps for expanding of process streams** ~~(not used)~~
M	F25J 2245/00	**Processes or apparatus involving steps for recycling of process streams** ~~(not used)~~
M	F25J 2250/00	**Details related to the use of reboiler-condensers** ~~(not used)~~
M	F25J 2260/00	**Coupling of processes or apparatus to other units; Integrated schemes** ~~(not used)~~
M	F25J 2270/00	**Refrigeration techniques used** ~~(not used)~~
M	F25J 2280/00	**Control of the process or apparatus** ~~(not used)~~
M	F25J 2290/00	**Other details not covered by groups F25J 2200/00 - F25J 2280/00** ~~(not used)~~

Project: MP0381 (F27B)

M	F27B	**FURNACES, KILNS, OVENS, OR RETORTS IN GENERAL; OPEN SINTERING OR LIKE APPARATUS**

NOTE

Attention is drawn to the references and notes following the title of class F27 and the note (par. III) following the Contents of Section H.

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:

F27B 1/09	covered by	F27B 1/08
F27B 5/05	covered by	F27B 5/04
F27B 14/16, F27B 14/18	covered by	F27B 14/0806
F27B 21/08 - F27B 21/14	covered by	~~F27D~~ *F27D 3/00*, *F27D 21/00*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0446 (F28D)

U	F28D 9/00	**Heat-exchange apparatus having stationary plate-like or laminated conduit assemblies for both heat-exchange media, the media being in contact with different sides of a conduit wall {(F28F 3/083, F28F 3/086 take precedence)}**
M	F28D 9/02	· the heat-exchange media travelling at an angle to one another (F28D 9/04 takes precedence ~~(not used, see F28D 9/00 and other subgroups)~~)

Project: MP0447 (G01C)

M	G01C	**MEASURING DISTANCES, LEVELS OR BEARINGS; SURVEYING; NAVIGATION; GYROSCOPIC INSTRUMENTS; PHOTOGRAMMETRY OR VIDEOGRAMMETRY (~~measuring dimensions or angles of objects G01B;~~ measuring liquid level G01F~~; measuring intensity or direction of magnetic fields, other than the earth's field, in general G01R~~; radio navigation, determining distance or velocity by use of propagation effects, e.g. Doppler effects, propagation time, of radio waves, analogous arrangements using other waves G01S~~; optical systems therefor G02B; maps, globes G09B~~)**

NOTES

1. In this subclass, the following term is used with the meaning indicated:
    "navigation" means determining the position and course of land vehicles, ships, aircraft, and space vehicles.

2. Attention is drawn to the Notes following the title of class G01.

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:

G01C 11/36	covered by	G01C 11/00-G01C 11/34

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

M	**G01C 1/00**	**Measuring angles ~~(in compasses G01C 17/00)~~**
U	G01C 1/02	· Theodolites
M	G01C 1/06	· · Arrangements for reading scales ~~(in general G01D)~~
U	G01C 1/08	· Sextants
M	G01C 1/10	· · including an artificial horizon (G01C 1/14 takes precedence~~; artificial horizons per se G01C 15/14~~)
M	G01C 1/12	· · · with a stabilised mirror ~~(tilt compensation in general G12B)~~
M	G01C 1/14	· · Periscopic sextants ~~(periscopes in general G02B 23/08)~~
M	**G01C 3/00**	**Measuring distances in line of sight; Optical rangefinders (tapes, chains or wheels for measuring length ~~G01B~~G01B 3/00~~; coupling rangefinders with operating parts of photographic apparatus G03B~~; *active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves, G01S 17/48*)**
U	G01C 3/02	· Details
M	G01C 3/04	· · Adaptation of rangefinders for combination with telescopes or binoculars ~~(rangefinders coupled with focussing arrangements of cameras G03B 13/20)~~
M	G01C 3/10	· using a parallactic triangle with variable angles and a base of fixed length in the observation station, e.g. in the instrument ~~(active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves, G01S 17/48)~~
M	G01C 3/22	· using a parallactic triangle with variable angles and a base of fixed length at, near, or formed by the object ~~(active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves, G01S 17/48)~~

Project: N/A (G01C)

	G01C 3/24	· using a parallactic triangle with fixed angles and a base of variable length in the observation station, e.g. in the instrument ~~(active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves, G01S 17/48)~~
	G01C 3/26	· using a parallactic triangle with fixed angles and a base of variable length, at, near, or formed by the object ~~(active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves, G01S 17/48)~~
	G01C 5/00	**Measuring height; Measuring distances transverse to line of sight; Levelling between separated points; Surveyors' levels (G01C 3/20, G01C 3/30 take precedence~~; tracing profiles G01C 7/00; levels indicating inclination at a single point G01C 9/00~~)**
	G01C 5/02	· involving automatic stabilisation of the line of sight~~; (tilt compensation in general G12B; regulation of direction in general G05D 3/00)~~
	G01C 5/06	· by using barometric means ~~(barometers per se G01L)~~
	G01C 7/00	**Tracing profiles (~~by photogrammetry G01C 11/00~~*by photogrammetry or videogrammetry G01C 11/00*)**
	G01C 7/06	· of cavities, e.g. tunnels ~~(survey of wells E21B 47/00)~~
	G01C 9/00	**Measuring inclination, e.g. by clinometers, by levels ~~((switches operated by inclination or orientation H01H 35/02))~~**
	G01C 9/10	· by using rolling bodies {, e.g. spheres, cylinders, mercury droplets ~~(tilting mercury container switches H01H 29/20)~~}
	G01C 9/12	· by using a single pendulum *{plumb lines G01C 15/10}*~~(plumb lines G01C 15/10)~~
	G01C 11/00	**Photogrammetry or videogrammetry, e.g. stereogrammetry; Photographic surveying ~~(cameras combined with surveying instruments, e.g. with theodolites, G01C 1/00, G01C 3/00, G01C 5/00, G01C 9/00; surveying cameras G03B 37/00)~~**
U	G01C 11/04	· Interpretation of pictures
U	G01C 11/06	· · by comparison of two or more pictures of the same area
U	G01C 11/08	· · · the pictures not being supported in the same relative position as when they were taken
	G01C 11/10	· · · · using computers to control the position of the pictures ~~(computers per se G06)~~
U	G01C 11/12	· · · the pictures being supported in the same relative position as when they were taken
	G01C 11/26	· · · · using computers to control the position of the pictures ~~(computers per se G06)~~
	G01C 13/00	**Surveying specially adapted to open water, e.g. sea, lake, river~~,~~ *or* canal (liquid level metering G01F~~; measuring liquid velocity G01P; determining existence of flow of underground water G01V~~)**
U	**G01C 15/00**	**Surveying instruments or accessories not provided for in groups G01C 1/00 - G01C 13/00**
	G01C 15/14	· Artificial horizons ~~(tilt compensation in general G02B)~~
	G01C 17/00	**Compasses; Devices for ascertaining true or magnetic north for navigation or surveying purposes (using gyroscopic effect G01C 19/00~~; for geophysical or prospecting purposes G01V 3/00~~)**
	G01C 17/34	· Sun- ~~and~~*or* astro-compasses

U	**G01C 19/00**	**Gyroscopes; Turn-sensitive devices using vibrating masses; Turn-sensitive devices without moving masses; Measuring angular rate using gyroscopic effects**
U	G01C 19/02	· Rotary gyroscopes
U	G01C 19/04	· · Details
U	G01C 19/06	· · · Rotors
	G01C 19/065	· · · · {Measurement or control of angular velocity, specifically adapted to gyrorotors ~~(measuring angular speed in general G01P; controlling angular speed G05D 13/00; controlling electrical motors H02P)~~}
	G01C 19/08	· · · · electrically driven (G01C 19/14 takes precedence~~; dynamoelectric machines H02K~~)
	G01C 19/16	· · · Suspensions; Bearings ~~(bearings in general F16C; balancing rotors G01M)~~
	G01C 19/18	· · · · providing movement of rotor with respect to its rotational axes (G01C 19/20, G01C 19/24 ~~takes~~*take* precedence)
	G01C 19/26	· · · Caging, i.e. immobilising moving parts, e.g. for transport ~~(applicable to instruments in general G01D 11/20)~~
	G01C 19/32	· · · Indicating or recording means specially adapted for rotary gyroscopes ~~(in general G01D)~~

Project: MP0447 (G01C)

M	G01C 19/56	· Turn-sensitive devices using vibrating masses, e.g. vibratory angular rate sensors based on Coriolis forces

> ~~NOTE~~
> ~~Attention is drawn to the Notes following the titles of class B81 and subclass B81B relating to "microstructural devices" and "microstructural systems"~~

Project: N/A (G01C)

U	G01C 19/58	· Turn-sensitive devices without moving masses
	G01C 19/60	· · Electronic or nuclear magnetic resonance gyrometers ~~(magnetic resonance arrangements in general G01R 33/20)~~
U	G01C 19/64	· · Gyrometers using the Sagnac effect, i.e. rotation-induced shifts between counter-rotating electromagnetic beams
	G01C 19/66	· · · Ring laser gyrometers ~~(ring lasers in general H01S 3/083)~~
U	G01C 19/661	· · · · {details}
	G01C 19/665	· · · · · {control of the cavity ~~(of lasers in general H01S 3/10)~~}
	G01C 21/00	**Navigation; Navigational instruments not provided for in preceding groups *G01C 1/00*-*G01C 19/00* (measuring distance traversed on the ground by a vehicle G01C 22/00~~; measuring linear or angular speed or acceleration G01P~~; control of position, course, altitude or attitude of vehicles G05D 1/00; traffic control systems ~~G08G~~*for road vehicles involving transmission of navigation instructions to the vehicle G08G 1/0968*)**
	G01C 21/02	· by astronomical means (G01C 21/24, G01C 21/26 take precedence~~; measuring time by using position of the sun, moon, or stars G04B 49/00~~)
	G01C 21/04	· by terrestrial means (G01C 21/24, G01C 21/26 take precedence~~; marking of navigation route for ships B63B 51/00~~)

Project: RP0349 (G01C)

U	G01C 21/10	· by using measurements of speed or acceleration (G01C 21/24, G01C 21/26 take precedence)

U	G01C 21/12	· · executed aboard the object being navigated; Dead reckoning
U	G01C 21/16	· · · by integrating acceleration or speed, i.e. inertial navigation
M	G01C 21/165	· · · · {combined with non-inertial navigation instruments}

> *NOTE*
> *This group does not adequately cover all aspects of this subject; see also G01S 19/49; G01S 19/47.*

Project: N/A (G01C)

U	G01C 21/20	· Instruments for performing navigational calculations (G01C 21/24, G01C 21/26 take precedence)
	G01C 21/22	· · Plotting boards ~~(in general B43L)~~
U	G01C 21/26	· specially adapted for navigation in a road network
U	G01C 21/34	· · Route searching; Route guidance
	G01C 21/36	· · · Input/output arrangements ~~of navigation systems~~*for on-board computers*~~; {(input arrangements for transferring data to be processed into a form capable of being handled by the computer, and output arrangements for transferring data from processing unit to output unit, e.g. interface arrangements G06F 3/00; pointing devices displaced or positioned by the user, e.g. mice, trackballs, pens or joysticks, and accessories therefor G06F 3/033; interaction techniques for graphical user interfaces, e.g. interaction with windows, icons or menus G06F 3/048; manipulating 3D models or images for computer graphics G06T 19/00)}~~
	G01C 21/3602	· · · · {Input other than that of destination using image analysis, e.g. detection of road signs, lanes, buildings, real preceding vehicles using a camera ~~(image data processing per se G06T)~~}
U	G01C 21/3605	· · · · {Destination input or retrieval}
	G01C 21/3608	· · · · · {using speech input, e.g. using speech recognition ~~(speech recognition per se G10L 15/00)~~}
	G01C 22/00	**Measuring distance traversed on the ground by vehicles, persons, animals~~,~~ or other moving solid bodies, e.g. using odometers, using pedometers ~~(counting mechanisms per se G06M)~~**
	G01C 22/004	· {for golf carts ~~(wheeled carriers for golf bags A63B 55/60)~~}
U	**G01C 23/00**	**Combined instruments indicating more than one navigational value, e.g. for aircraft; Combined measuring devices for measuring two or more variables of movement, e.g. distance, speed, acceleration**
	G01C 23/005	· {Flight directors (indicating arrangements specially adapted for rotary gyroscopes G01C 19/32~~; indicating or recording in connection with measuring, in general G01D; control of course of land or air vehicles by controlling or regulating non-electric variables G05D 1/00; arrangements or adaptations of instruments for aircraft B64D 43/00)~~}
	G01C 25/00	**Manufacturing, calibrating, cleaning, or repairing instruments ~~and~~*or* devices referred to in the ~~preceding~~*other* groups ~~~~ *of this subclass* (testing, calibrating ~~and~~*or* compensating compasses G01C 17/38)**

Project: RP0349 (G01S)

M	G01S	**RADIO DIRECTION-FINDING; RADIO NAVIGATION; DETERMINING DISTANCE OR VELOCITY BY USE OF RADIO WAVES; LOCATING OR PRESENCE-DETECTING BY USE OF THE REFLECTION OR RERADIATION OF RADIO WAVES; ANALOGOUS ARRANGEMENTS USING OTHER WAVES ~~({for special applications, see the relevant subclasses, e.g. A61B, G01F, G01N, G02B; measuring dimensions or angles of objects G01B; navigation in general G01C; measuring infrasonic, sonic or ultrasonic vibrations in general G01H; measuring infra-red, visible, or ultra-violet radiation in general G01J; transducers per se, see the relevant subclasses, e.g. G01L, H01L, H04R; measuring direction or velocity of flowing fluids by reception or emission of radiowaves or other waves and based on propagation effects caused in the fluid itself G01P; measuring electric or magnetic variables in general G01R}; detecting masses or objects by methods not involving reflection or radiation of radio, acoustic or other waves G01V; {time-interval measuring G04F}; aerials H01Q)~~**

NOTES

1. In this subclass, the following term is used with the meaning indicated:
   - "transponder" means an arrangement which reacts to an incoming interrogating or detecting wave by emitting a specific answering or identifying wave.

2. Attention is drawn to the Notes following the title of class G01 and to Note (1) following the title of subclass G09B.

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:

G01S 7/26	covered by	G01S 7/06

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

U	G01S 1/00	**Beacons or beacon systems transmitting signals having a characteristic or characteristics capable of being detected by non-directional receivers and defining directions, positions, or position lines fixed relatively to the beacon transmitters; Receivers co-operating therewith (position fixing by co-ordinating a plurality of determinations of direction or position lines G01S 5/00)**
U	G01S 1/02	· using radio waves (G01S 19/00 takes precedence)
U	G01S 1/04	· · Details
C	G01S 1/042	· · · {Transmitters}

> *WARNING*
>
> *Group G01S 1/042 is impacted by reclassification into groups G01S 1/0423, G01S 1/0426, G01S 1/0428, G01S 2201/00, G01S 2201/01, G01S 2201/02, G01S 2201/025, G01S 2201/03, G01S 2201/04, G01S 2201/05, G01S 2201/06, G01S 2201/07, and G01S 2201/08.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N	G01S 1/0423	· · · · {Mounting or deployment thereof}

> *WARNING*
>
> *Group G01S 1/0423 is incomplete pending reclassification of documents from group G01S 1/042.*
> *Groups G01S 1/042 and G01S 1/0423 should be considered in order to perform a complete search.*

N   G01S 1/0426   · · · · · {Collocated with electrical equipment other than beacons }

> *WARNING*
>
> *Group G01S 1/0426 is incomplete pending reclassification of documents from group G01S 1/042.*
> *Groups G01S 1/042 and G01S 1/0426 should be considered in order to perform a complete search.*

N   G01S 1/0428   · · · · {Signal details}

> *WARNING*
>
> *Group G01S 1/0428 is incomplete pending reclassification of documents from group G01S 1/042.*
> *Groups G01S 1/042 and G01S 1/0428 should be considered in order to perform a complete search.*

U   G01S 1/045   · · · {Receivers}

U   G01S 1/047   · · · {Displays or indicators (G01S 1/06 takes precedence)}

M   G01S 1/08   · · Systems for determining direction or position line ~~{(aerial arrangements for changing or varying the orientation or the shape of the directional pattern H01Q 3/00; combinations of different interacting units for giving a desired directional characteristic H01Q 21/29; aerials or aerial systems providing at least two radiation patterns H01Q 25/00)}~~

C   G01S 1/70   · using electromagnetic waves other than radio waves

> *WARNING*
> *Group G01S 1/70 is impacted by reclassification into groups G01S 1/703, G01S 1/7032, G01S 1/7034, G01S 1/7036, G01S 1/7038, G01S 2201/00, G01S 2201/01, G01S 2201/02, G01S 2201/025, G01S 2201/03, G01S 2201/04, G01S 2201/05, G01S 2201/06, G01S 2201/07, and G01S 2201/08.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G01S 1/703   · · {Details}

> *WARNING*
>
> *Group G01S 1/703 is incomplete pending reclassification of documents from group G01S 1/70.*
> *Groups G01S 1/70 and G01S 1/703 should be considered in order to perform a complete search.*

N   G01S 1/7032   · · · {Transmitters}

> *WARNING*
>
> *Group G01S 1/7032 is incomplete pending reclassification of documents from group G01S 1/70.*
> *Groups G01S 1/70 and G01S 1/7032 should be considered in order to perform a complete search.*

N   G01S 1/7034   · · · · {Mounting or deployment thereof}

> *WARNING*
>
> *Group G01S 1/7034 is incomplete pending reclassification of documents from group G01S 1/70.*
> *Groups G01S 1/70 and G01S 1/7034 should be considered in order to perform a complete search.*

N   G01S 1/7036   · · · · · {Collocated with electrical equipment other than beacons}

> *WARNING*
>
> *Group G01S 1/7036 is incomplete pending reclassification of documents from group G01S 1/70.*
> *Groups G01S 1/70 and G01S 1/7036 should be considered in order to perform a complete search.*

N   G01S 1/7038   · · · · {Signal details}

> *WARNING*
>
> *Group G01S 1/7038 is incomplete pending reclassification of documents from group G01S 1/70.*
> *Groups G01S 1/70 and G01S 1/7038 should be considered in order to perform a complete search.*

U   G01S 1/705   · · {using gamma or X-rays}

M   G01S 1/72   · using ultrasonic, sonic or infrasonic waves ~~(signalling devices G08B)~~

C   G01S 1/74   · · Details

> *WARNING*
>
> *Group G01S 1/74 is impacted by reclassification into groups G01S 1/75, G01S 1/751, G01S 1/752, G01S 1/753, G01S 2201/00, G01S 2201/01, G01S 2201/02, G01S 2201/025, G01S 2201/03, G01S 2201/04, G01S 2201/05, G01S 2201/06, G01S 2201/07, and G01S 2201/08.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G01S 1/75   · · · {Transmitters}

> *WARNING*
>
> *Group G01S 1/75 is incomplete pending reclassification of documents from group G01S 1/74.*
> *Groups G01S 1/74 and G01S 1/75 should be considered in order to perform a complete search.*

N   G01S 1/751   · · · · {Mounting or deployment thereof}

> *WARNING*
>
> *Group G01S 1/751 is incomplete pending reclassification of documents from group G01S 1/74.*
> *Groups G01S 1/74 and G01S 1/751 should be considered in order to perform a complete search.*

N   G01S 1/752   · · · · · {Collocated with electrical equipment other than beacons }

> *WARNING*
>
> *Group G01S 1/752 is incomplete pending reclassification of documents from group G01S 1/74.*
> *Groups G01S 1/74 and G01S 1/752 should be considered in order to perform a complete search.*

N   G01S 1/753   · · · · {Signal details}

> *WARNING*
>
> *Group G01S 1/753 is incomplete pending reclassification of documents from group G01S 1/74.*
> *Groups G01S 1/74 and G01S 1/753 should be considered in order to perform a complete search.*

M	G01S 1/76	· · Systems for determining direction or position line ~~(sound focusing or directing using electrical steering of transducer arrays, e.g. beam steering, in general G10K 11/34)~~

M   G01S 19/00   Satellite radio beacon positioning systems; Determining position, velocity or attitude using signals transmitted by such systems

NOTE

In this group, or in the patent documents classified in this group, the following abbreviations are often used:
- ~~PDOP = Position Dilution of Precision~~
- *DGPS = Differential GPS*
- *Pseudolite = Pseudolite is a contraction of the term "pseudo-satellite," used to refer to the mimicing of GPS satellites (or of other navigation satellites) by other transceivers.*
- ~~RAIM = Receiver Autonomous Integrity Monitoring~~
- *WAAS = Wide Area Augmentation System*

U	G01S 19/01	· Satellite radio beacon positioning systems transmitting time-stamped messages, e.g. GPS [Global Positioning System], GLONASS [Global Orbiting Navigation Satellite System] or GALILEO
U	G01S 19/03	· · Cooperating elements; Interaction or communication between different cooperating elements or between cooperating elements and receivers

NOTE

The term "cooperating elements" designates additional elements or subsystems, including receivers of other users, which interact or communicate with the receiver or the satellite positioning system.

C	G01S 19/07	· · · providing data for correcting measured positioning data, ~~e.g. DGPS [differential GPS] or ionosphere corrections~~

> *WARNING*
> *Group G01S 19/07 is impacted by reclassification into groups G01S 19/071, G01S 19/072, G01S 19/073, and G01S 19/074.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N	G01S 19/071	· · · · {DGPS corrections}

> *WARNING*
> *Group G01S 19/071 is incomplete pending reclassification of documents from group G01S 19/07.*
> *Groups G01S 19/07 and G01S 19/071 should be considered in order to perform a complete search.*

N	G01S 19/072	· · · · {Ionosphere corrections}

> *WARNING*
> *Group G01S 19/072 is incomplete pending reclassification of documents from group G01S 19/07.*
> *Groups G01S 19/07 and G01S 19/072 should be considered in order to perform a complete search.*

N	G01S 19/073	· · · · {involving a network of fixed stations}

> *WARNING*
> *Group G01S 19/073 is incomplete pending reclassification of documents from group G01S 19/07.*
> *Groups G01S 19/07 and G01S 19/073 should be considered in order to perform a complete search.*

N *G01S 19/074* · · · · · *{providing integrity data, e.g. WAAS}*

        WARNING

        Group G01S 19/074 is incomplete pending reclassification of documents from group G01S 19/07.
        Groups G01S 19/07 and G01S 19/074 should be considered in order to perform a complete search.

U G01S 19/10 · · · providing dedicated supplementary positioning signals

C G01S 19/11 · · · · wherein the cooperating elements are pseudolites or satellite radio beacon positioning system signal repeaters

        WARNING
        Group G01S 19/11 is impacted by reclassification into group G01S 19/115.
        Groups G01S 19/11 and G01S 19/115 should be considered in order to perform a complete search.

N *G01S 19/115* · · · · · *{Airborne or satellite based pseudolites or repeaters}*

        WARNING

        Group G01S 19/115 is incomplete pending reclassification of documents from group G01S 19/11.
        Groups G01S 19/11 and G01S 19/115 should be considered in order to perform a complete search.

U G01S 19/38 · Determining a navigation solution using signals transmitted by a satellite radio beacon positioning system

C G01S 19/39 · · the satellite radio beacon positioning system transmitting time-stamped messages, e.g. GPS [Global Positioning System], GLONASS [Global Orbiting Navigation Satellite System] or GALILEO

        WARNING
        Group G01S 19/39 is impacted by reclassification into groups G01S 19/393 and G01S 19/396.
        Groups G01S 19/39, G01S 19/393, and G01S 19/396 should be considered in order to perform a complete search.

N *G01S 19/393* · · · *{Trajectory determination or predictive tracking, e.g. Kalman filtering}*

        WARNING

        Group G01S 19/393 is incomplete pending reclassification of documents from group G01S 19/39.
        Groups G01S 19/39 and G01S 19/393 should be considered in order to perform a complete search.

N *G01S 19/396* · · · *{Determining accuracy or reliability of position or pseudorange measurements}*

        WARNING

        Group G01S 19/396 is incomplete pending reclassification of documents from group G01S 19/39.
        Groups G01S 19/39 and G01S 19/396 should be considered in order to perform a complete search.

U G01S 19/42 · · · Determining position

U G01S 19/45 · · · · by combining measurements of signals from the satellite radio beacon positioning system with a supplementary measurement

M	G01S 19/47	· · · · the supplementary measurement being an inertial measurement, e.g. tightly coupled inertial

NOTE

This group does not adequately cover combining inertial navigation measurements with a non-inertial navigation instrument; also see G01C 21/165.

U	G01S 19/48	· · · by combining or switching between position solutions derived from the satellite radio beacon positioning system and position solutions derived from a further system
M	G01S 19/49	· · · · whereby the further system is an inertial position system, e.g. loosely-coupled

NOTE

This group does not adequately cover combining inertial navigation measurements with a non-inertial navigation instrument; also see G01C 21/165.

M	G01S 19/50	· · · whereby the position solution is constrained to lie upon a particular curve or surface, e.g. for locomotives on railway tracks

NOTE

This group does not adequately cover regarding map or contour matching also; see G01C 21/005 and G01C 21/30.

U	G01S 19/53	· · · Determining attitude
U	G01S 19/54	· · · · using carrier phase measurements; using long or short baseline interferometry
U	G01S 19/55	· · · · · Carrier phase ambiguity resolution; Floating ambiguity; LAMBDA [Least-squares AMBiguity Decorrelation Adjustment] method
N	*G01S 2201/00*	***Indexing scheme relating to beacons or beacon systems transmitting signals capable of being detected by non-directional receivers and defining directions, positions, or position lines fixed relatively to the beacon transmitters***

WARNING

Group G01S 2201/00 is incomplete pending reclassification of documents from groups G01S 1/042, G01S 1/70, and G01S 1/74.
All groups listed in this Warning should be considered in order to perform a complete search.

N	*G01S 2201/01*	· *adapted for specific applications or environments*

WARNING

Group G01S 2201/01 is incomplete pending reclassification of documents from groups G01S 1/042, G01S 1/70, and G01S 1/74.
All groups listed in this Warning should be considered in order to perform a complete search.

N	*G01S 2201/02*	· · *Indoor positioning, e.g. in covered car-parks, mining facilities, warehouses*

WARNING

Group G01S 2201/02 is incomplete pending reclassification of documents from groups G01S 1/042, G01S 1/70, and G01S 1/74.
All groups listed in this Warning should be considered in order to perform a complete search.

N   *G01S 2201/025*   · · · *Indoor pedestrian positioning*

> *WARNING*
>
> *Group G01S 2201/025 is incomplete pending reclassification of documents from groups G01S 1/042, G01S 1/70, and G01S 1/74.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   *G01S 2201/03*   · · *Construction sites*

> *WARNING*
>
> *Group G01S 2201/03 is incomplete pending reclassification of documents from groups G01S 1/042, G01S 1/70, and G01S 1/74.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   *G01S 2201/04*   · · *Emergencies*

> *WARNING*
>
> *Group G01S 2201/04 is incomplete pending reclassification of documents from groups G01S 1/042, G01S 1/70, and G01S 1/74.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   *G01S 2201/05*   · · *Sport*

> *WARNING*
>
> *Group G01S 2201/05 is incomplete pending reclassification of documents from groups G01S 1/042, G01S 1/70, and G01S 1/74.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   *G01S 2201/06*   · · *Aircraft navigation*

> *WARNING*
>
> *Group G01S 2201/06 is incomplete pending reclassification of documents from groups G01S 1/042, G01S 1/70, and G01S 1/74.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   *G01S 2201/07*   · · *Under water*

> *WARNING*
>
> *Group G01S 2201/07 is incomplete pending reclassification of documents from groups G01S 1/042, G01S 1/70, and G01S 1/74.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   *G01S 2201/08*   · · *Marine or water borne applications*

> *WARNING*
>
> *Group G01S 2201/08 is incomplete pending reclassification of documents from groups G01S 1/042, G01S 1/70, and G01S 1/74.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

Project: RP0211 (G02B)

U   **G02B 15/00**   **Optical objectives with means for varying the magnification (anamorphotic objectives G02B 13/08)**

C   G02B 15/14   · by axial movement of one or more lenses or groups of lenses relative to the image plane for continuously varying the equivalent focal length of the objective

> *WARNING*
>
> *Group G02B 15/14 is impacted by reclassification into groups G02B 15/142, G02B 15/1421, G02B 15/1425, G02B 15/143, G02B 15/1431, G02B 15/143101, G02B 15/143103, G02B 15/143105, G02B 15/143107, G02B 15/1435, G02B 15/143501, G02B 15/143503, G02B 15/143505, G02B 15/143507, G02B 15/144, G02B 15/1441, G02B 15/144101, G02B 15/144103, G02B 15/144105, G02B 15/144107, G02B 15/144109, G02B 15/144111, G02B 15/144113, G02B 15/144115, G02B 15/1445, G02B 15/144501, G02B 15/144503, G02B 15/144505, G02B 15/144507, G02B 15/144509, G02B 15/144511, G02B 15/144513, G02B 15/144515, G02B 15/145, G02B 15/1451, G02B 15/145101, G02B 15/145103, G02B 15/145105, G02B 15/145107, G02B 15/145109, G02B 15/145111, G02B 15/145113, G02B 15/145115, G02B 15/145117, G02B 15/145119, G02B 15/145121, G02B 15/145123, G02B 15/145125, G02B 15/145127, G02B 15/145129, G02B 15/145131, G02B 15/1455, G02B 15/145501, G02B 15/145503, G02B 15/145505, G02B 15/145507, G02B 15/145509, G02B 15/145511, G02B 15/145513, G02B 15/145515, G02B 15/145517, G02B 15/145519, G02B 15/145521, G02B 15/145523, G02B 15/145525, G02B 15/145527, G02B 15/145529, G02B 15/145531, G02B 15/146, G02B 15/1461, and G02B 15/1465.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

Q   G02B 15/142   · · {having two groups only}

> *WARNING*
>
> *Group G02B 15/142 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, and G02B 15/16.*
> *Group G02B 15/142 is also impacted by reclassification into groups G02B 15/1421 and G02B 15/1425.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/1421   · · · {the first group being positive}

> *WARNING*
>
> *Group G02B 15/1421 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/142, G02B 15/15, G02B 15/155, and G02B 15/16.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/1425   · · · {the first group being negative}

> *WARNING*
>
> *Group G02B 15/1425 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/142, G02B 15/15, G02B 15/155, and G02B 15/16.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/143   · · {having three groups only}

> *WARNING*
>
> *Group G02B 15/143 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.*

All groups listed in this Warning should be considered in order to perform a complete search.

N G02B 15/1431 · · · {the first group being positive}

WARNING

Groups G02B 15/1431, G02B 15/143101, G02B 15/143103, G02B 15/143105, and G02B 15/143107 are incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N G02B 15/143101 · · · · {arranged +--}

N G02B 15/143103 · · · · {arranged ++-}

N G02B 15/143105 · · · · {arranged +-+}

N G02B 15/143107 · · · · {arranged +++}

N G02B 15/1435 · · · {the first group being negative}

WARNING

Groups G02B 15/1435, G02B 15/143501, G02B 15/143503, G02B 15/143505, and G02B 15/143507 are incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N G02B 15/143501 · · · · {arranged ---}

N G02B 15/143503 · · · · {arranged -+-}

N G02B 15/143505 · · · · {arranged --+}

N G02B 15/143507 · · · · {arranged -++}

N G02B 15/144 · · {having four groups only}

WARNING

Groups G02B 15/144 and G02B 15/1441 are incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, G02B 15/173, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N G02B 15/1441 · · · {the first group being positive}

N G02B 15/144101 · · · · {arranged +---}

WARNING

Group G02B 15/144101 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N G02B 15/144103 · · · · {arranged ++--}

WARNING

Group G02B 15/144103 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155,

G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/144105   · · · · {arranged +-+-}

WARNING

Group G02B 15/144105 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/144107   · · · · {arranged +++-}

WARNING

Group G02B 15/144107 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/144109   · · · · {arranged +--+}

WARNING

Group G02B 15/144109 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/144111   · · · · {arranged ++-+}

WARNING

Group G02B 15/144111 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/144113   · · · · {arranged +-++}

WARNING

Group G02B 15/144113 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/144115   · · · · {arranged ++++}

WARNING

Group G02B 15/144115 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, and G02B 15/20.

All groups listed in this Warning should be considered in order to perform a complete search.

N G02B 15/1445 · · · {the first group being negative}

> *WARNING*
>
> *Group G02B 15/1445 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N G02B 15/144501 · · · · {arranged ----}

> *WARNING*
>
> *Group G02B 15/144501 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N G02B 15/144503 · · · · {arranged -+--}

> *WARNING*
>
> *Group G02B 15/144503 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N G02B 15/144505 · · · · {arranged --+-}

> *WARNING*
>
> *Group G02B 15/144505 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N G02B 15/144507 · · · · {arranged -++-}

> *WARNING*
>
> *Group G02B 15/144507 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N G02B 15/144509 · · · · {arranged ---+}

> *WARNING*
>
> *Group G02B 15/144509 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.*

All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/144511   · · · · *{arranged -+-+}*

> *WARNING*
>
> *Group G02B 15/144511 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/144513   · · · · *{arranged --++}*

> *WARNING*
>
> *Group G02B 15/144513 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/144515   · · · · *{arranged -+++}*

> *WARNING*
>
> *Group G02B 15/144515 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/145   · · *{having five groups only}*

> *WARNING*
>
> *Group G02B 15/145 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, G02B 15/173, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/1451   · · · *{the first group being positive}*

> *WARNING*
>
> *Group G02B 15/1451 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, G02B 15/173, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/145101   · · · · *{arranged +----}*

> *WARNING*
>
> *Group G02B 15/145101 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, and G02B 15/20.*

All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145103   · · · · *{arranged ++---}*

WARNING

Group G02B 15/145103 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145105   · · · · *{arranged +-+--}*

WARNING

Group G02B 15/145105 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, G02B 15/173, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145107   · · · · *{arranged +++--}*

WARNING

Group G02B 15/145107 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145109   · · · · *{arranged +--+-}*

WARNING

Group G02B 15/145109 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145111   · · · · *{arranged ++-+-}*

WARNING

Group G02B 15/145111 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145113   · · · · *{arranged +-++-}*

WARNING

Group G02B 15/145113 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, and G02B 15/20.

All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145115   · · · · *{arranged ++++-}*

WARNING

Group G02B 15/145115 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145117   · · · · *{arranged +---+}*

WARNING

Group G02B 15/145117 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145119   · · · · *{arranged ++--+}*

WARNING

Group G02B 15/145119 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145121   · · · · *{arranged +-+-+}*

WARNING

Group G02B 15/145121 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145123   · · · · *{arranged +++-+}*

WARNING

Group G02B 15/145123 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145125   · · · · *{arranged +--++}*

WARNING

Group G02B 15/145125 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, and G02B 15/20.
All groups listed in this Warning should be considered in order to perform a complete search.

N   G02B 15/145127   · · · · *{arranged ++-++}*

> <u>*WARNING*</u>
>
> *Group G02B 15/145127 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/145129   · · · · *{arranged +-+++}*

> <u>*WARNING*</u>
>
> *Group G02B 15/145129 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/145131   · · · · *{arranged +++++}*

> <u>*WARNING*</u>
>
> *Group G02B 15/145131 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/1455   · · · *{the first group being negative}*

> <u>*WARNING*</u>
>
> *Group G02B 15/1455 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, G02B 15/173, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/145501   · · · · *{arranged -----}*

> <u>*WARNING*</u>
>
> *Group G02B 15/145501 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/145503   · · · · *{arranged -+---}*

> <u>*WARNING*</u>
>
> *Group G02B 15/145503 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N G02B 15/145505   · · · · {arranged --+--}

> WARNING
>
> Group G02B 15/145505 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, and G02B 15/20.
> All groups listed in this Warning should be considered in order to perform a complete search.

N G02B 15/145507   · · · · {arranged -++--}

> WARNING
>
> Group G02B 15/145507 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, G02B 15/177, and G02B 15/20.
> All groups listed in this Warning should be considered in order to perform a complete search.

N G02B 15/145509   · · · · {arranged ---+-}

> WARNING
>
> Group G02B 15/145509 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.
> All groups listed in this Warning should be considered in order to perform a complete search.

N G02B 15/145511   · · · · {arranged -+-+-}

> WARNING
>
> Group G02B 15/145511 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, G02B 15/177, and G02B 15/20.
> All groups listed in this Warning should be considered in order to perform a complete search.

N G02B 15/145513   · · · · {arranged --++-}

> WARNING
>
> Group G02B 15/145513 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.
> All groups listed in this Warning should be considered in order to perform a complete search.

N G02B 15/145515   · · · · {arranged -+++-}

> WARNING
>
> Group G02B 15/145515 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.
> All groups listed in this Warning should be considered in order to perform a complete search.

N   *G02B 15/145517*   · · · · *{arranged ----+}*

> WARNING
>
> *Group G02B 15/145517 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   *G02B 15/145519*   · · · · *{arranged -+--+}*

> WARNING
>
> *Group G02B 15/145519 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   *G02B 15/145521*   · · · · *{arranged --+-+}*

> WARNING
>
> *Group G02B 15/145521 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   *G02B 15/145523*   · · · · *{arranged -++-+}*

> WARNING
>
> *Group G02B 15/145523 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   *G02B 15/145525*   · · · · *{arranged ---++}*

> WARNING
>
> *Group G02B 15/145525 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   *G02B 15/145527*   · · · · *{arranged -+-++}*

> WARNING
>
> *Group G02B 15/145527 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/173, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/145529   · · · · *{arranged --+++}*

> *WARNING*
>
> *Group G02B 15/145529 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/145531   · · · · *{arranged -++++}*

> *WARNING*
>
> *Group G02B 15/145531 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/146   · · *{having more than five groups}*

> *WARNING*
>
> *Groups G02B 15/146 and G02B 15/1465 are incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, G02B 15/173, G02B 15/177, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/1461   · · · *{the first group being positive}*

> *WARNING*
>
> *Group G02B 15/1461 is incomplete pending reclassification of documents from groups G02B 15/14, G02B 15/15, G02B 15/155, G02B 15/16, G02B 15/163, G02B 15/167, G02B 15/17, G02B 15/173, and G02B 15/20.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N   G02B 15/1465   · · · *{the first group being negative}*

C   G02B 15/15   · · compensation by means of only one movement or by means of only linearly related movements, e.g. optical compensation

> *WARNING*
>
> *Group G02B 15/15 is impacted by reclassification into groups G02B 15/142, G02B 15/1421, G02B 15/1425, G02B 15/143, G02B 15/1431, G02B 15/143101, G02B 15/143103, G02B 15/143105, G02B 15/143107, G02B 15/1435, G02B 15/143501, G02B 15/143503, G02B 15/143505, G02B 15/143507, G02B 15/144, G02B 15/1441, G02B 15/144101, G02B 15/144103, G02B 15/144105, G02B 15/144107, G02B 15/144109, G02B 15/144111, G02B 15/144113, G02B 15/144115, G02B 15/1445, G02B 15/144501, G02B 15/144503, G02B 15/144505, G02B 15/144507, G02B 15/144509, G02B 15/144511, G02B 15/144513, G02B 15/144515, G02B 15/145, G02B 15/1451, G02B 15/145101, G02B 15/145103, G02B 15/145105, G02B 15/145107, G02B 15/145109, G02B 15/145111, G02B 15/145113, G02B 15/145115, G02B 15/145117, G02B 15/145119, G02B 15/145121, G02B 15/145123, G02B 15/145125, G02B 15/145127, G02B 15/145129, G02B 15/145131, G02B 15/1455, G02B 15/145501, G02B 15/145503, G02B 15/145505, G02B 15/145507, G02B 15/145509, G02B 15/145511, G02B 15/145513, G02B 15/145515, G02B 15/145517,*

G02B 15/145519, G02B 15/145521, G02B 15/145523, G02B 15/145525, G02B 15/145527, G02B 15/145529, G02B 15/145531, G02B 15/146, G02B 15/1461, and G02B 15/1465.
All groups listed in this Warning should be considered in order to perform a complete search.

F   G02B 15/155   · · · {Zoom lenses arranged symmetrically around a central plane, e.g. a
(Frozen)   diaphragm-containing plane}

> *WARNING*
>
> *Group G02B 15/155 is no longer used for the classification of documents as of August 1, 2019.*
> *The content of this group is being reclassified into groups G02B 15/142, G02B 15/1421, G02B 15/1425, G02B 15/143, G02B 15/1431, G02B 15/143101, G02B 15/143103, G02B 15/143105, G02B 15/143107, G02B 15/1435, G02B 15/143501, G02B 15/143503, G02B 15/143505, G02B 15/143507, G02B 15/144, G02B 15/1441, G02B 15/144101, G02B 15/144103, G02B 15/144105, G02B 15/144107, G02B 15/144109, G02B 15/144111, G02B 15/144113, G02B 15/144115, G02B 15/1445, G02B 15/144501, G02B 15/144503, G02B 15/144505, G02B 15/144507, G02B 15/144509, G02B 15/144511, G02B 15/144513, G02B 15/144515, G02B 15/145, G02B 15/1451, G02B 15/145101, G02B 15/145103, G02B 15/145105, G02B 15/145107, G02B 15/145109, G02B 15/145111, G02B 15/145113, G02B 15/145115, G02B 15/145117, G02B 15/145119, G02B 15/145121, G02B 15/145123, G02B 15/145125, G02B 15/145127, G02B 15/145129, G02B 15/145131, G02B 15/1455, G02B 15/145501, G02B 15/145503, G02B 15/145505, G02B 15/145507, G02B 15/145509, G02B 15/145511, G02B 15/145513, G02B 15/145515, G02B 15/145517, G02B 15/145519, G02B 15/145521, G02B 15/145523, G02B 15/145525, G02B 15/145527, G02B 15/145529, G02B 15/145531, G02B 15/146, G02B 15/1461, and G02B 15/1465.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

C   G02B 15/16   · · with interdependent non-linearly related movements between one lens or lens group, and another lens or lens group (G02B 15/22 takes precedence)

> *WARNING*
>
> *Group G02B 15/16 is impacted by reclassification into groups G02B 15/142, G02B 15/1421, G02B 15/1425, G02B 15/143, G02B 15/1431, G02B 15/143101, G02B 15/143103, G02B 15/143105, G02B 15/143107, G02B 15/1435, G02B 15/143501, G02B 15/143503, G02B 15/143505, G02B 15/143507, G02B 15/144, G02B 15/1441, G02B 15/144101, G02B 15/144103, G02B 15/144105, G02B 15/144107, G02B 15/144109, G02B 15/144111, G02B 15/144113, G02B 15/144115, G02B 15/1445, G02B 15/144501, G02B 15/144503, G02B 15/144505, G02B 15/144507, G02B 15/144509, G02B 15/144511, G02B 15/144513, G02B 15/144515, G02B 15/145, G02B 15/1451, G02B 15/145101, G02B 15/145103, G02B 15/145105, G02B 15/145107, G02B 15/145109, G02B 15/145111, G02B 15/145113, G02B 15/145115, G02B 15/145117, G02B 15/145119, G02B 15/145121, G02B 15/145123, G02B 15/145125, G02B 15/145127, G02B 15/145129, G02B 15/145131, G02B 15/1455, G02B 15/145501, G02B 15/145503, G02B 15/145505, G02B 15/145507, G02B 15/145509, G02B 15/145511, G02B 15/145513, G02B 15/145515, G02B 15/145517, G02B 15/145519, G02B 15/145521, G02B 15/145523, G02B 15/145525, G02B 15/145527, G02B 15/145529, G02B 15/145531, G02B 15/146, G02B 15/1461, and G02B 15/1465.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

D	G02B 15/161	· · · ~~{Zoom lenses having only two lenses or lens groups}~~

<administratively transferred to G02B 15/142>

C	G02B 15/163	· · · having a first movable lens or lens group and a second movable lens or lens group, both in front of a fixed lens or lens group (G02B 15/177 takes precedence)

WARNING

Group G02B 15/163 is impacted by reclassification into groups G02B 15/143, G02B 15/1431, G02B 15/143101, G02B 15/143103, G02B 15/143105, G02B 15/143107, G02B 15/1435, G02B 15/143501, G02B 15/143503, G02B 15/143505, G02B 15/143507, G02B 15/144, G02B 15/1441, G02B 15/144101, G02B 15/144103, G02B 15/144105, G02B 15/144107, G02B 15/144109, G02B 15/144111, G02B 15/144113, G02B 15/144115, G02B 15/1445, G02B 15/144501, G02B 15/144503, G02B 15/144505, G02B 15/144507, G02B 15/144509, G02B 15/144511, G02B 15/144513, G02B 15/144515, G02B 15/145, G02B 15/1451, G02B 15/145101, G02B 15/145103, G02B 15/145105, G02B 15/145107, G02B 15/145109, G02B 15/145111, G02B 15/145113, G02B 15/145115, G02B 15/145117, G02B 15/145119, G02B 15/145121, G02B 15/145123, G02B 15/145125, G02B 15/145127, G02B 15/145129, G02B 15/145131, G02B 15/1455, G02B 15/145501, G02B 15/145503, G02B 15/145505, G02B 15/145507, G02B 15/145509, G02B 15/145511, G02B 15/145513, G02B 15/145515, G02B 15/145517, G02B 15/145519, G02B 15/145521, G02B 15/145523, G02B 15/145525, G02B 15/145527, G02B 15/145529, G02B 15/145531, G02B 15/146, G02B 15/1461, and G02B 15/1465. All groups listed in this Warning should be considered in order to perform a complete search.

C	G02B 15/167	· · · · having an additional fixed front lens or group of lenses

WARNING

Group G02B 15/167 is impacted by reclassification into groups G02B 15/143, G02B 15/1431, G02B 15/143101, G02B 15/143103, G02B 15/143105, G02B 15/143107, G02B 15/1435, G02B 15/143501, G02B 15/143503, G02B 15/143505, G02B 15/143507, G02B 15/144, G02B 15/1441, G02B 15/144101, G02B 15/144103, G02B 15/144105, G02B 15/144107, G02B 15/144109, G02B 15/144111, G02B 15/144113, G02B 15/144115, G02B 15/1445, G02B 15/144501, G02B 15/144503, G02B 15/144505, G02B 15/144507, G02B 15/144509, G02B 15/144511, G02B 15/144513, G02B 15/144515, G02B 15/145, G02B 15/1451, G02B 15/145101, G02B 15/145103, G02B 15/145105, G02B 15/145107, G02B 15/145109, G02B 15/145111, G02B 15/145113, G02B 15/145115, G02B 15/145117, G02B 15/145119, G02B 15/145121, G02B 15/145123, G02B 15/145125, G02B 15/145127, G02B 15/145129, G02B 15/145131, G02B 15/1455, G02B 15/145501, G02B 15/145503, G02B 15/145505, G02B 15/145507, G02B 15/145509, G02B 15/145511, G02B 15/145513, G02B 15/145515, G02B 15/145517, G02B 15/145519, G02B 15/145521, G02B 15/145523, G02B 15/145525, G02B 15/145527, G02B 15/145529, G02B 15/145531, G02B 15/146, G02B 15/1461, and G02B 15/1465. All groups listed in this Warning should be considered in order to perform a complete search.

C	G02B 15/17	· · · · · arranged +--

WARNING

Group G02B 15/17 is impacted by reclassification into groups G02B 15/144, G02B 15/1441, G02B 15/144101, G02B 15/144103, G02B 15/144109, G02B 15/144503, G02B 15/145, G02B 15/1451, G02B 15/145101, G02B 15/145103, G02B 15/145105, G02B 15/145107, G02B 15/145109, G02B 15/145117,

G02B 15/145119, G02B 15/145125, G02B 15/1455, G02B 15/145503,
G02B 15/145505, G02B 15/145507, G02B 15/145519, G02B 15/146,
G02B 15/1461, and G02B 15/1465.
All groups listed in this Warning should be considered in order to
perform a complete search.

C   G02B 15/173   · · · · · arranged +-+

WARNING

Group G02B 15/173 is impacted by reclassification into groups
G02B 15/144, G02B 15/1441, G02B 15/144105, G02B 15/144111,
G02B 15/144113, G02B 15/1445, G02B 15/144511, G02B 15/145,
G02B 15/1451, G02B 15/145105, G02B 15/145111, G02B 15/145113,
G02B 15/145121, G02B 15/145123, G02B 15/145127,
G02B 15/145129, G02B 15/1455, G02B 15/145511, G02B 15/145521,
G02B 15/145523, G02B 15/145527, G02B 15/146, G02B 15/1461, and
G02B 15/1465.
All groups listed in this Warning should be considered in order to
perform a complete search.

C   G02B 15/177   · · · having a negative front lens or group of lenses

WARNING

Group G02B 15/177 is impacted by reclassification into groups
G02B 15/143, G02B 15/1435, G02B 15/143501, G02B 15/143503,
G02B 15/143505, G02B 15/143507, G02B 15/1445, G02B 15/144501,
G02B 15/144503, G02B 15/144505, G02B 15/144507, G02B 15/144509,
G02B 15/144511, G02B 15/144513, G02B 15/144515, G02B 15/145,
G02B 15/1455, G02B 15/145501, G02B 15/145503, G02B 15/145507,
G02B 15/145509, G02B 15/145511, G02B 15/145513, G02B 15/145515,
G02B 15/145517, G02B 15/145519, G02B 15/145521, G02B 15/145523,
G02B 15/145525, G02B 15/145527, G02B 15/145529, G02B 15/145531,
G02B 15/146, and G02B 15/1465.
All groups listed in this Warning should be considered in order to perform a
complete search.

C   G02B 15/20   · · · having an additional movable lens or lens group for varying the objective
focal length

WARNING

Group G02B 15/20 is impacted by reclassification into groups G02B 15/143,
G02B 15/1431, G02B 15/143101, G02B 15/143103, G02B 15/143105,
G02B 15/143107, G02B 15/1435, G02B 15/143501, G02B 15/143503,
G02B 15/143505, G02B 15/143507, G02B 15/144, G02B 15/1441,
G02B 15/144101, G02B 15/144103, G02B 15/144105, G02B 15/144107,
G02B 15/144109, G02B 15/144111, G02B 15/144113, G02B 15/144115,
G02B 15/1445, G02B 15/144501, G02B 15/144503, G02B 15/144505,
G02B 15/144507, G02B 15/144509, G02B 15/144511, G02B 15/144513,
G02B 15/144515, G02B 15/145, G02B 15/1451, G02B 15/145101,
G02B 15/145103, G02B 15/145105, G02B 15/145107, G02B 15/145109,
G02B 15/145111, G02B 15/145113, G02B 15/145115, G02B 15/145117,
G02B 15/145119, G02B 15/145121, G02B 15/145123, G02B 15/145125,
G02B 15/145127, G02B 15/145129, G02B 15/145131, G02B 15/1455,
G02B 15/145501, G02B 15/145503, G02B 15/145505, G02B 15/145507,
G02B 15/145509, G02B 15/145511, G02B 15/145513, G02B 15/145515,
G02B 15/145517, G02B 15/145519, G02B 15/145521, G02B 15/145523,
G02B 15/145525, G02B 15/145527, G02B 15/145529, G02B 15/145531,
G02B 15/146, G02B 15/1461, and G02B 15/1465.
All groups listed in this Warning should be considered in order to perform a
complete search.

Project: MP0381 (G03C)

M G03C   **PHOTOSENSITIVE MATERIALS FOR PHOTOGRAPHIC PURPOSES (for photomechanical purposes G03F); PHOTOGRAPHIC PROCESSES, e.g. CINE, X-RAY, COLOUR, STEREO-PHOTOGRAPHIC PROCESSES; AUXILIARY PROCESSES IN PHOTOGRAPHY (photographic processes characterised by the use or manipulation of apparatus classifiable per se in subclass G03B, see G03B; photomechanical production of textured or patterned surfaces G03F; electrophotography, magnetography G03G)**

NOTE

In this subclass, the following expressions are used with the meanings indicated :
- "photosensitive compositions" covers photosensitive substances, e.g. silverhalides, and, if applicable, binders or additives;
- "photosensitive materials" covers the photosensitive compositions, e.g. emulsions, the bases carrying them, and, if applicable, auxiliary layers.

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:
Subject matter covered by this group is classified in the following CPC group:

G03C 9/08	covered by	~~G03F 7/0037~~ *G03C 9/00, G03C 2009/08*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0403 (G03G)

U G03G   **ELECTROGRAPHY; ELECTROPHOTOGRAPHY; MAGNETOGRAPHY (information storage based on relative movement between record carrier and transducer G11B; static stores with means for writing-in or reading-out information G11C; recording of television signals H04N 5/76)**

NOTES

1. This subclass covers:
- the production of permanent directly-visible pictures in conformity with an original picture or document, using an intermediate imagewise distribution of an electric or magnetic quantity, such as a charge pattern, an electric conductivity pattern, or a magnetic pattern;
- the production of permanent directly-visible pictures using an intermediate imagewise distribution of an electric or magnetic quantity, when the origin and the way of generating said intermediate distribution are not relevant.

2. This subclass does not cover:
- use of electric signals for the transmission of the picture information from the original to the reproduction, i.e. pictorial communication, which is covered by subclass H04N;
- production of pictures by heat patterns exclusively, not using an electrostatic or magnetic pattern, which is covered by group B41M 5/00;
- production of prints by transferring ink from a printing form to a printing surface, without physical contact and using the force of an electrostatic field, which is covered by subclass B41M;
- selective printing mechanisms characterised by the selective supply of electric current, or the selective application of magnetism or radiation, to

a printing material or impression-transfer material, which are covered by groups B41J 2/385, B41J 2/435.

<u>WARNING</u>

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

U	**G03G 2215/00**	**Apparatus for electrophotographic processes**
U	G03G 2215/06	· Developing structures, details
M	G03G 2215/0602	· · Developer

<u>NOTE</u>

~~Indexing codes of group G03G 2215/0602 and subgroups can be followed by additional symbols preceded by a "," sign and relating to additional characteristics.~~

M	G03G 2215/0634	· · Developing device

<u>NOTE</u>

~~Indexing codes of group G03G 2215/0634 and subgroups can be followed by additional symbols preceded by a "," sign and relating to additional characteristics.~~

M	G03G 2215/20	· Details of the fixing device or porcess

<u>NOTE</u>

~~Indexing codes of group G03G 2215/20 can be followed by additional symbols preceded by a "+" sign and relating to additional characteristics. The indexing codes have the meaning as indicated below.~~

~~+**H** Using heat to fix~~
~~+**P** Using pressure to fix~~
~~+**P1** where the pressure is changed~~
~~+**P1A** being adapted to the current toner-carrying~~
~~medium treated (e.g. duplex copy, colour copy,~~
~~OHP sheet, envelope)~~
~~+**P1B** compensating for temperature or other technical~~
~~condition variations (e.g. sheet skewing) occurring~~
~~+**P1C** when being in a non-fixing or waiting mode~~
~~+**P1M** for maintenance purpose or abnormal situations~~
~~(e.g. power cut-off)~~

Project: MP0200 (G04B)

U	**G04B 19/00**	**Indicating the time by visual means ({indicating the time optically by electric means G04C 17/00, e.g.} by electric lamps G04C 17/02; display arrangements in general G09F)**
M	G04B 19/24	· Clocks or watches with date {or week-day} indicators {, i.e. calendar clocks or watches}; Clockwork calendars ~~{(combination of the clockwork with an independently settable calendar G04B 47/00)}~~

Project: MP0303 (G06F)

U	**G06F 9/00**	**Arrangements for program control, e.g. control units (program control for peripheral devices G06F 13/10)**
U	G06F 9/06	· using stored programs, i.e. using an internal store of processing equipment to receive or retain programs
U	G06F 9/44	· · Arrangements for executing specific programs
U	G06F 9/445	· · · Program loading or initiating (bootstrapping G06F 9/4401; security arrangements for program loading or initiating G06F 21/57)

> WARNING
>
> Group G06F 9/445 is impacted by reclassification into groups G06F 21/57 - G06F 21/577.
> All groups listed in this Warning should be considered in order to perform a complete search.

U	G06F 9/44505	· · · · {Configuring for program initiating, e.g. using registry, configuration files}
M	G06F 9/4451	· · · · · {User profiles~~, roaming (user profiles for network-specific applications H04L 67/306)~~*; Roaming*}
U	G06F 9/455	· · · Emulation; Interpretation; Software simulation, e.g. virtualisation or emulation of application or operating system execution engines
U	G06F 9/45533	· · · · {Hypervisors; Virtual machine monitors}
U	G06F 9/45558	· · · · · {Hypervisor-specific management and integration aspects}
M	G06F 2009/4557	· · · · · · {Distribution of virtual machine instances; Migration and load balancing ~~aspects (load distribution or balancing G06F 9/505, G06F 9/5083; task migration G06F 9/4856)~~}
M	G06F 2009/45575	· · · · · · {Starting, stopping, suspending~~,~~ *or* resuming virtual machine instances ~~(program initiating G06F 9/445; task life-cycle in general G06F 9/485)~~}
M	G06F 2009/45579	· · · · · · {I/O management ~~(~~*, e.g. providing access to* device drivers~~,~~ *or* storage ~~access) (internal functioning of device drivers G06F 13/102, loading of device drivers G06F 9/4411)~~}
M	G06F 2009/45583	· · · · · · {Memory management, e.g. access~~,~~ *or* allocation ~~(memory management in general G06F 12/00; allocation of memory to service a request G06F 9/5016)~~}
M	G06F 2009/45587	· · · · · · {Isolation or security of virtual machine instances ~~(security arrangements G06F 21/00)~~}
M	G06F 2009/45591	· · · · · · {Monitoring or debugging support ~~(monitoring and debugging in general in G06F 11/30, G06F 11/36)~~}
M	G06F 2009/45595	· · · · · · {Network integration; ~~enabling~~*Enabling* network access in virtual machine instances ~~(network-specific arrangements for supporting networked applications H04L 67/00)~~}

Project: MP0381 (G06M)

M	**G06M**	**COUNTING MECHANISMS; COUNTING OF OBJECTS NOT OTHERWISE PROVIDED FOR (counting by measuring volume or weight of articles to be counted G01F, G01G; computers G06C - G06J; counting electric pulses H03K; counting characters, words or messages in switching networks for transmission of digital information H04L 12/08)**

> NOTE
>
> This subclass covers:
> - stepping or continuously-moving mechanical counters operated through one or more inputs applied to the lowest order mechanically or electrically;

- counting systems involving applications of either mechanical, electrical, or electronic counters.

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:

G06M 15/00	covered by	*G06M 1/00 - G06M 11/00*

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (G09G)

M   G09G   **ARRANGEMENTS OR CIRCUITS FOR CONTROL OF INDICATING DEVICES USING STATIC MEANS TO PRESENT VARIABLE INFORMATION (lighting in general F21; arrangements for displaying electric variables or waveforms G01R 3/00; devices or arrangements for the control of light beams G02F 1/00; indicating of time by visual means G04B 19/00, G04C 17/00, G04G 9/00; arrangements for transferring data between computers and peripheral equipment G06F 3/00; visible signalling arrangements or devices G08B 5/00; traffic control systems G08G; display, advertising, signs G09F, e.g. static indicating arrangements comprising an association of a number of separate sources or light control cells G09F 9/00; static indicating arrangements comprising integral associations of a number of light sources H01J, H01K, H01L, H05B 33/12; circuits in pulse counters for indicating the result H03K 21/18; coding, decoding or code conversion, in general H03M; reproducing a picture or pattern using electric signals representing parts thereof and produced by scanning an original H04N)**

NOTES

1. This subclass covers indicator consoles, i.e. arrangements or circuits for processing control signals to achieve the display, e.g. for the calling up, reception, storage, regeneration, coding, decoding, addressing of control signals.

2. This subclass does not cover the structural details of the indicating devices, such as panels or tubes per se, or assemblies of individual light sources, which are covered by the relevant subclasses, e.g. H01J, H01K, H01L, G02F, G09F, H05B.

3. Contrary to subclass H04N, in which are classified display devices capable of representing continuous brightness value scales, this subclass is limited to devices using only a discrete number of brightness values, e.g. visible/non-visible.

4. The visual effect may be produced by a luminescent screen scanned by an electron beam, directly by controlled light sources, by projection of light, from controlled light sources onto characters, symbols, or elements thereof drawn on a support, or by electric, magnetic, or acoustic control of the parameters of light rays from an independent source.

WARNING

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:

G09G 5/32	covered by	G09G 5/42
G09G 5/37	covered by	G09G 5/39
G09G 5/373	covered by	G09G 5/39
G09G 5/377	covered by	G09G 5/39
G09G 5/38	covered by	G09G 5/42

~~G09G 5/397~~	~~covered by~~	~~G09G 5/395, G09G 5/399~~

~~2.~~ *1.* In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (H01H)

M H01H   **ELECTRIC SWITCHES; RELAYS; SELECTORS; EMERGENCY PROTECTIVE DEVICES (contact cables H01B 7/10; overvoltage protection resistors, resistive arresters H01C 7/12, H01C 8/04; electrolytic self-interrupters H01G 9/18; switching devices of the waveguide type H01P; devices for interrupted current collection H01R 39/00; overvoltage arresters using spark gaps H01T 4/00; emergency protective circuit arrangements H02H; switching by electronic means without contact-making H03K 17/00)**

NOTES

1.
Attention is drawn to the Notes following the titles of class B81 an subclass B81B relating to "microstructural devices" and microstructural systems"

2. This subclass covers (in groups H01H 69/00 - H01H 87/00) devices for the protection of electric lines or electric machines or apparatus in the event of undesired change from normal electric working conditions, the electrical condition serving directly as the input to the device.

3. This subclass does not cover bases, casings, or covers accommodating two or more switching devices or for accommodating a switching device as well as another electric component, e.g. bus-bar, line connector. Those bases, casings or covers are covered by group H02B 1/26.

4. In this subclass, the following terms or expressions are used with the meanings indicated :
   * "relay" means a switching device having contacts which are operated from electric inputs which supply, directly or indirectly, all the mechanical energy necessary to cause both the closure and the opening of the contacts;
   * "driving mechanism" refers to the means by which an operating force applied to the switch is transmitted to the moving contact or contacts;
   * "operating" is used in a broader sense than "actuating" which is reserved for those parts not touched by hand to effect switching;
   * "acting" or "action" means a self-induced movement of parts at one stage of the switching.
These connotations apply to all parts of the verbs "to operate", "to actuate" and "to act" and to words derived therefrom, e.g. to "actuation".

5. In this subclass, details are classified as follows :
   * details of an unspecified type of switching device, or disclosed as applicable to two or more kinds of switching devices designated by the terms or expressions "switches", "relays", "selector switches", and "emergency protective devices", are classified in groups H01H 1/00 - H01H 9/00;
   * details of an unspecified type of switch, or disclosed as applicable to two or more types of switches as defined by groups H01H 13/00 - H01H 43/00 and sub-groups H01H 35/02, H01H 35/06, H01H 35/14, H01H 35/18, H01H 35/24 and H01H 35/42, all hereinafter called basic types, are classified in groups H01H 1/00 - H01H 9/00;
   * details of an unspecified type of relay, or disclosed as applicable to two or more types of relays as defined by groups H01H 51/00 - H01H 61/00, hereinafter called basic types are classified in H01H 45/00;
   * details of an unspecified protective device, or applicable to two or more types of protective devices as defined by groups H01H 73/00 - H01H 83/00, hereinafter called basic types, are classified in H01H 71/00.
   * However, details only described with reference to, or clearly only applicable to, switching devices of a single basic type, are classified in the group

appropriate to switching devices of that basic type, e.g. H01H 19/02, H01H 75/04;

- mechanical structural details of control members of switches or of keyboards such as keys, push-buttons, levers or other mechanisms for transferring the force to the activated elements are classified in this subclass, even when they are used for controlling electronic switches.

However, mechanical details directly producing electronic effects are classified in group H03K 17/94.

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:

H01H 13/708-H01H 13/718	covered by	*H01H 13/702*
H01H 33/575	covered by	H01H 33/56
H01H 33/65	covered by	*H01H 33/64*
H01H 33/825	covered by	H01H 33/82
H01H 33/835	covered by	H01H 33/83
H01H 33/867	covered by	H01H 33/86
H01H 33/873	covered by	H01H 33/86
H01H 33/915	covered by	H01H 33/91
H01H 33/985	covered by	H01H 33/98
H01H 33/99	covered by	H01H 33/98

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (H01L)

M   H01L   **SEMICONDUCTOR DEVICES; ELECTRIC SOLID STATE DEVICES NOT OTHERWISE PROVIDED FOR (use of semiconductor devices for measuring G01; resistors in general H01C; magnets, inductors, transformers H01F; capacitors in general H01G; electrolytic devices H01G 9/00; batteries, accumulators H01M; waveguides, resonators, or lines of the waveguide type H01P; line connectors, current collectors H01R; stimulated-emission devices H01S; electromechanical resonators H03H; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R; electric light sources in general H05B; printed circuits, hybrid circuits, casings or constructional details of electrical apparatus, manufacture of assemblages of electrical components H05K; use of semiconductor devices in circuits having a particular application, see the subclass for the application)**

NOTES

1. This subclass covers:
   - electric solid state devices which are not covered by any other subclass and details thereof, and includes: semiconductor devices adapted for rectifying, amplifying, oscillating or switching; semiconductor devices sensitive to radiation; electric solid state devices using thermoelectric, superconductive, piezo-electric, electrostrictive, magnetostrictive, galvano-magnetic or bulk negative resistance effects and integrated circuit devices;
   - photoresistors, magnetic field dependent resistors, field effect resistors, capacitors with potential-jump barrier, resistors with potential-jump barrier or surface barrier, incoherent light emitting diodes and thin-film or thick-film circuits;

- processes and apparatus adapted for the manufacture or treatment of such devices, except where such processes relate to single-step processes for which provision exists elsewhere.

2. In this subclass, the following terms or expressions are used with the meaning indicated:
- "wafer" means a slice of semiconductor or crystalline substrate material, which can be modified by impurity diffusion (doping), ion implantation or epitaxy, and whose active surface can be processed into arrays of discrete components or integrated circuits;
- "solid state body" means the body of material within which, or at the surface of which, the physical effects characteristic of the device occur. In thermoelectric devices, it includes all materials in the current path. Regions in or on the body of the device (other than the solid state body itself), which exert an influence on the solid state body electrically, are considered to be "electrodes" whether or not an external electrical connection is made thereto. An electrode may include several portions and the term includes metallic regions which exert influence on the solid state body through an insulating region (e.g. capacitive coupling) and inductive coupling arrangements to the body. The dielectric region in a capacitive arrangement is regarded as part of the electrode. In arrangements including several portions, only those portions which exert an influence on the solid state body by virtue of their shape, size, or disposition or the material of which they are formed are considered to be part of the electrode. The other portions are considered to be "arrangements for conducting electric current to or from the solid state body" or "interconnections between solid state components formed in or on a common substrate", i .e. leads;
- "device" means an electric circuit element; where an electric circuit element is one of a plurality of elements formed in or on a common substrate it is referred to as a "component";
- "complete device" is a device in its fully assembled state which may or may not require further treatment, e.g. electroforming, before it is ready for use but which does not require the addition of further structural units;
- "parts" includes all structural units which are included in a complete device;
- "container" is an enclosure forming part of the complete device and is essentially a solid construction in which the body of the device is placed, or which is formed around the body without forming an intimate layer thereon. An enclosure which consists of one or more layers formed on the body and in intimate contact therewith is referred to as an "encapsulation";
- "integrated circuit" is a device where all components, e.g. diodes, resistors, are built up on a common substrate and form the device including interconnections between the components;
- "assembly" of a device is the building up of the device from its component constructional units and includes the provision of fillings in containers.

3. In this subclass, both the process or apparatus for the manufacture or treatment of a device and the device itself are classified, whenever both of these are described sufficiently to be of interest.

4. Attention is drawn to Note (3) after the title of section C, which Note indicates to which version of the periodic table of chemical elements the IPC refers. In this subclass, the Periodic System used is the 8 group system indicated by Roman numerals in the Periodic Table thereunder.

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:

H01L 21/301	covered by	H01L 21/30
H01L 21/328	covered by	H01L 29/66075
H01L 21/329	covered by	H01L 29/66083

H01L 21/33	covered by	H01L 29/66227
H01L 21/331	covered by	H01L 29/66234
H01L 21/332	covered by	H01L 29/66363
H01L 21/334	covered by	H01L 29/66075
H01L 21/335	covered by	H01L 29/66409
H01L 21/336	covered by	H01L 29/66477
H01L 21/337	covered by	H01L 29/66893
H01L 21/338	covered by	H01L 29/66848
H01L 21/339	covered by	H01L 29/66946
H01L 21/36-H01L 21/368	covered by	*H01L 21/02107*
H01L 21/58	covered by	H01L 24/80
H01L 21/60	covered by	~~H01L 24/80~~ *H01L 21/50, H01L 2021/60*
H01L 21/66	covered by	H01L 22/00
H01L 21/603	covered by	~~H01L 24/80~~ *H01L 21/50, H01L 2021/603*
H01L 21/607	covered by	~~H01L 24/80~~ *H01L 21/50, H01L 2021/607*
H01L 21/8242	covered by	~~H01L 27/10844~~ *H01L 27/108*
H01L 21/8244	covered by	H01L 27/11
H01L 21/8246	covered by	H01L 27/112
H01L 21/98	covered by	H01L 25/50
H01L 29/38	covered by	H01L 29/04-H01L 29/365
H01L 29/96	covered by	H01L 29/68-H01L 29/945
H01L 51/30	covered by	H01L 51/0032
H01L 51/40	covered by	H01L 51/0001
H01L 51/46	covered by	H01L 51/0032
H01L 51/48	covered by	H01L 51/0001
H01L 51/54	covered by	H01L 51/0032

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: RP0151 (H01L)

U H01L 21/00   **Processes or apparatus adapted for the manufacture or treatment of semiconductor or solid state devices or of parts thereof ({testing or measuring during manufacture or treatment, or reliability measurements H01L 22/00; multistep manufacturing processes for passive two-terminal components without a potential-jump or surface barrier for integrated circuits H01L 28/00; } processes or apparatus peculiar to the manufacture or treatment of devices provided for in groups H01L 31/00 - H01L 51/00 or of parts thereof, <u>see</u> these groups; single-step processes covered by other subclasses, <u>see</u> the relevant subclasses, e.g. C23C, C30B; photomechanical production of textured or patterned surfaces, materials or originals therefor, apparatus specially adapted therefor, in general G03F)**

U   H01L 21/02   · Manufacture or treatment of semiconductor devices or of parts thereof

M	H01L 21/04	· · the devices having at least one potential-jump barrier or surface barrier, e.g. PN junction, depletion layer~~, or~~ carrier concentration layer {(~~multistep processes specially adapted for the manufacture of said devices H01L 29/66007, H01L 29/401; details of semiconductor bodies H01L 29/02~~*multistep manufacturing processes for semiconductor bodies of said devices H01L 29/02; multistep manufacturing processes for electrodes of said devices H01L 29/401; multistep manufacturing processes for said devices H01L 29/66007*)}
U	H01L 21/18	· · · the devices having semiconductor bodies comprising elements of Group IV of the Periodic System or $A_{III}B_V$ compounds with or without impurities, e.g. doping materials {(H01L 21/041 - H01L 21/0425, H01L 21/045 - H01L 21/048 take precedence)}
		NOTE
		This group covers also processes and apparatus which, by using the appropriate technology, are clearly suitable for manufacture or treatment of devices whose bodies comprise elements of Group IV of the Periodic System or $A_{III}B_V$ compounds, even if the material used is not explicitly specified.
M	H01L 21/28	· · · · Manufacture of electrodes on semiconductor bodies using processes or apparatus not provided for in *groups* H01L 21/20 - H01L 21/268 *{(etching for patterning the electrodes H01L 21/311, H01L 21/3213; multistep manufacturing processes for data storage electrodes H01L 29/4011)}*; ~~{(etching for patterning the electrodes H01L 21/311 and H01L 21/3213)}~~
D	H01L 21/28273	· · · · · ~~{Making conductor-insulator-conductor-insulator-semiconductor electrodes (H01L 21/28291 takes precedence)}~~
		<administratively transferred to H01L 29/40114>
D	H01L 21/28282	· · · · · ~~{comprising a charge trapping insulator}~~
		<administratively transferred to H01L 29/40117>
D	H01L 21/28291	· · · · · ~~{comprising a layer which is used for its ferroelectric properties}~~
		<administratively transferred to H01L 29/40111>
U	**H01L 29/00**	**Semiconductor devices adapted for rectifying, amplifying, oscillating or switching, or capacitors or resistors with at least one potential-jump barrier or surface barrier, e.g. PN junction depletion layer or carrier concentration layer; Details of semiconductor bodies or of electrodes thereof; {Multistep manufacturing processes therefor}(H01L 31/00 - H01L 47/00, H01L 51/05 take precedence; processes or apparatus adapted for the manufacture or treatment thereof or of parts thereof H01L 21/00; details other than of semiconductor bodies or of electrodes thereof H01L 23/00; devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00; {passive two-terminal components without a potential-jump or surface barrier for integrated circuits, details thereof and multistep manufacturing processes therefor H01L 28/00; } resistors in general H01C; capacitors in general H01G, {e.g. ceramic barrier-layer capacitors H01G 4/1272})**
		NOTE
		In this main group, classification is made both in groups H01L 29/02 - H01L 29/51 and in groups H01L 29/66 - H01L 29/94 if both of these sets of groups are relevant.
U	H01L 29/40	· Electrodes {; Multistep manufacturing processes therefor}

C   H01L 29/401   · · {Multistep manufacturing processes}

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WARNING

Group H01L 29/401 is impacted by reclassification into groups H01L 29/4011, H01L 29/40111, H01L 29/40114 and H01L 29/40117.
Groups H01L 29/401, H01L 29/4011, H01L 29/40111, H01L 29/40114 and H01L 29/40117 should be considered in order to perform a complete search.

</div>

N   H01L 29/4011   · · · {for data storage electrodes}

WARNING

Group H01L 29/4011 is incomplete pending reclassification of documents from group H01L 29/401.
Group H01L 29/401 and H01L 29/4011 should be considered in order to perform a complete search.

N   H01L 29/40111   · · · · {the electrodes comprising a layer which is used for its ferroelectric properties}

WARNING

Group H01L 29/40111 is incomplete pending reclassification of documents from group H01L 29/401.
Group H01L 29/401 and H01L 29/40111 should be considered in order to perform a complete search.

N   H01L 29/40114   · · · · {the electrodes comprising a conductor-insulator-conductor-insulator-semiconductor structure}

WARNING

Group H01L 29/40114 is incomplete pending reclassification of documents from group H01L 29/401.
Group H01L 29/401 and H01L 29/40114 should be considered in order to perform a complete search.

N   H01L 29/40117   · · · · {the electrodes comprising a charge-trapping insulator}

WARNING

Group H01L 29/40117 is incomplete pending reclassification of documents from group H01L 29/401.
Group H01L 29/401 and H01L 29/40117 should be considered in order to perform a complete search.

Project: RP0474 (H01S)

U   **H01S 3/00**   **Lasers, i.e. devices using stimulated emission of electromagnetic radiation in the infrared, visible or ultraviolet wave range (semiconductors lasers H01S 5/00)**

U   H01S 3/09   · Processes or apparatus for excitation, e.g. pumping

U   H01S 3/097   · · by gas discharge of a gas laser

U   H01S 3/0979   · · · Gas dynamic lasers, i.e. with expansion of the laser gas medium to supersonic flow speeds

U   H01S 3/10   · Controlling the intensity, frequency, phase, polarisation or direction of the emitted radiation, e.g. switching, gating, modulating or demodulating

NOTE

Group H01S 3/10007 takes precedence over groups H01S 3/102 - H01S 3/104

C	H01S 3/10007	· · {in optical amplifiers}

> *WARNING*
> *Group H01S 3/10007 is impacted by reclassification into groups H01S 3/1001 and H01S 3/10013.*
> *Groups H01S 3/10007, H01S 3/1001, and H01S 3/10013 should be considered in order to perform a complete search.*

N	H01S 3/1001	· · · {by controlling the optical pumping}

> *WARNING*
> *Group H01S 3/1001 is incomplete pending reclassification of documents from group H01S 3/10007.*
> *Groups H01S 3/10007 and H01S 3/1001 should be considered in order to perform a complete search.*

N	H01S 3/10013	· · · {by controlling the temperature of the active medium}

> *WARNING*
> *Group H01S 3/10013 is incomplete pending reclassification of documents from group H01S 3/10007.*
> *Groups H01S 3/10007 and H01S 3/10013 should be considered in order to perform a complete search.*

U	H01S 3/10023	· · · {by functional association of additional optical elements, e.g. filters, gratings, reflectors}
M	H01S 3/1003	· · · · {~~turnable~~*tunable* optical elements, e.g. acousto-optic filters, tunable gratings}
U	H01S 3/13	· · Stabilisation of laser output parameters, e.g. frequency, amplitude

> NOTE
> Group H01S 3/1301 takes precedence over groups H01S 3/131 - H01S 3/134

C	H01S 3/1301	· · · {in optical amplifiers}

> *WARNING*
> *Group H01S 3/1301 is impacted by reclassification into groups H01S 3/13013 and H01S 3/13017.*
> *Groups H01S 3/1301, H01S 3/13013, and H01S 3/13017 should be considered in order to perform a complete search.*

N	H01S 3/13013	· · · · {by controlling the optical pumping}

> *WARNING*
> *Group H01S 3/13013 is incomplete pending reclassification of documents from group H01S 3/1301.*
> *Groups H01S 3/1301 and H01S 3/13013 should be considered in order to perform a complete search.*

N	H01S 3/13017	· · · · {by controlling the temperature of the active medium}

> *WARNING*
> *Group H01S 3/13017 is incomplete pending reclassification of documents from group H01S 3/1301.*
> *Groups H01S 3/1301 and H01S 3/13017 should be considered in order to perform a complete search.*

U	**H01S 5/00**	**Semiconductor lasers (superluminescent diodes {H01L 33/0045})**

NOTE
Attention is drawn to Special Rules of classification at C07F, which Special Rules indicate to which version of the periodic table of chemical elements CPC

refers. In this group, the Periodic System used is the 8 group system indicated by Roman numerals in the Periodic Table thereunder.

U	H01S 5/04	· Processes or apparatus for excitation, e.g. pumping, {e.g. by electron beams} (H01S 5/06 takes precedence)
U	H01S 5/042	· · Electrical excitation {; Circuits therefor (discrete or monolithically integrated laser drive components on mountings H01S 5/0261)}
U	H01S 5/0421	· · · {characterised by the semiconducting contacting layers (electrodes H01S 5/0425)}
U	H01S 5/0422	· · · · {with n- and p-contacts on the same side of the active layer}
U	H01S 5/0424	· · · · · {lateral current injection}
C	H01S 5/0425	· · · {Electrodes, e.g. ~~materials, shape, configuration,~~ *characterised by the* structure}

> *WARNING*
>
> *Group H01S 5/0425 is impacted by reclassification into groups H01S 5/04252, H01S 5/04253, H01S 5/04254, H01S 5/04256, and H01S 5/04257.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N	H01S 5/04252	· · · · {characterised by the material}

> *WARNING*
>
> *Group H01S 5/04252 is incomplete pending reclassification of documents from group H01S 5/0425.*
> *Groups H01S 5/0425 and H01S 5/04252 should be considered in order to perform a complete search.*

N	H01S 5/04253	· · · · · {having specific optical properties, e.g. transparent electrodes}

> *WARNING*
>
> *Group H01S 5/04253 is incomplete pending reclassification of documents from group H01S 5/0425.*
> *Groups H01S 5/0425 and H01S 5/04253 should be considered in order to perform a complete search.*

N	H01S 5/04254	· · · · {characterised by the shape}

> *WARNING*
>
> *Group H01S 5/04254 is incomplete pending reclassification of documents from group H01S 5/0425.*
> *Groups H01S 5/0425 and H01S 5/04254 should be considered in order to perform a complete search.*

N	H01S 5/04256	· · · · {characterised by the configuration}

> *WARNING*
>
> *Group H01S 5/04256 is incomplete pending reclassification of documents from group H01S 5/0425.*
> *Groups H01S 5/0425 and H01S 5/04256 should be considered in order to perform a complete search.*

N	H01S 5/04257	· · · · · {having positive and negative electrodes on the same side of the substrate}

> *WARNING*
>
> *Group H01S 5/04257 is incomplete pending reclassification of documents from group H01S 5/0425.*

Groups H01S 5/0425 and H01S 5/04257 should be considered in order to perform a complete search.

U	H01S 5/10	· Construction or shape of the optical resonator {, e.g. extended or external cavity, coupled cavities, bent-guide, varying width, thickness or composition of the active region (H01S 5/20 takes precedence)}
U	H01S 5/18	· · Surface-emitting [SE] lasers
U	H01S 5/187	· · · using a distributed Bragg reflector [SE-DBR-lasers] (H01S 5/183 takes precedence)
M	H01S 5/20	· Structure or shape of the semiconductor body to guide the optical wave {; {Confining structures perpendicular to the optical axis, e.g. index- or gain- guiding, stripe geometry, broad area lasers, gain tailoring, transverse or lateral reflectors, special cladding structures, MQW barrier reflection layers}
U	H01S 5/2004	· · {Confining in the direction perpendicular to the layer structure}
M	H01S 5/2009	· · · {*by using* electron barrier layers}
U	H01S 5/2018	· · · {Optical confinement, e.g. absorbing-, reflecting- or waveguide-layers}
U	H01S 5/2031	· · · · {characterized by special waveguide layers, e.g. asymmetric waveguide layers or defined bandgap discontinuities}
M	H01S 5/2036	· · {Broad area ~~laserse~~*lasers*}
U	H01S 5/30	· Structure or shape of the active region; Materials used for the active region
U	H01S 5/32	· · comprising PN junctions, e.g. hetero- or double- heterostructures (H01S 5/34, H01S 5/36 take precedence)
U	H01S 5/3201	· · · {incorporating bulkstrain effects, e.g. strain compensation, strain related to polarisation}
C	H01S 5/3202	· · · {grown on specifically orientated substrates, or using orientation dependent growth}

> *WARNING*
>
> *Group H01S 5/3202 is impacted by reclassification into groups H01S 5/320225, H01S 5/32025 and H01S 5/320275.*
> *All groups listed in this Warning should be considered in order to perform a complete search.*

N	*H01S 5/320225*	· · · · {polar orientation}

> *WARNING*
>
> *Group H01S 5/320225 is incomplete pending reclassification of documents from group H01S 5/3202.*
> *Groups H01S 5/3202 and H01S 5/320225 should be considered in order to perform a complete search.*

N	*H01S 5/32025*	· · · · {non-polar orientation}

> *WARNING*
>
> *Group H01S 5/32025 is incomplete pending reclassification of documents from group H01S 5/3202.*
> *Groups H01S 5/3202 and H01S 5/32025 should be considered in order to perform a complete search.*

N	*H01S 5/320275*	· · · · {semi-polar orientation}

> *WARNING*
>
> *Group H01S 5/320275 is incomplete pending reclassification of documents from group H01S 5/3202.*
> *Groups H01S 5/3202 and H01S 5/320275 should be considered in order to perform a complete search.*

Project: MP0381 (H02J)

M	H02J	**CIRCUIT ARRANGEMENTS OR SYSTEMS FOR SUPPLYING OR DISTRIBUTING ELECTRIC POWER; SYSTEMS FOR STORING ELECTRIC ENERGY**

NOTES

1. This subclass covers:
   - ac or dc mains or distribution networks;
   - circuit arrangements for battery supplies, including charging or control thereof, or coordinated supply from two or more sources of any kind;
   - circuit arrangements or systems for wireless supply or distribution of electric power.

2. This subclass does not cover:
   - control of a single motor, generator or dynamo-electric converter, of the types covered by subclass H01F or H02K, which is covered by subclass H02P;
   - control of a single motor or generator, of the types covered by subclass H02N, which is covered by that subclass.

WARNING

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:

H02J 7/10	covered by	H02J 7/0072

2. 1. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0381 (H04L)

M	H04L	**TRANSMISSION OF DIGITAL INFORMATION, e.g. TELEGRAPHIC COMMUNICATION (typewriters B41J; order telegraphs, fire or police telegraphs G08B; visual telegraphy G08B, G08C; teleautographic systems G08C; ciphering or deciphering apparatus per se G09C; coding, decoding or code conversion, in general H03M; arrangements common to telegraphic and telephonic communication H04M; selecting H04Q)**

NOTE

This subclass covers transmission of signals having been supplied in digital form and includes data transmission, telegraphic communication and methods or arrangements for monitoring.

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:

H04L 9/18	covered by	H04L 9/065
H04L 9/20	covered by	H04L 9/0656
H04L 9/22	covered by	H04L 9/0662
H04L 9/24	covered by	H04L 9/0662
H04L 9/26	covered by	H04L 9/0668
H04L 9/28	covered by	H04L 9/002, H04L 9/008, H04L 9/06, H04L 9/08, H04L 9/30, H04L 9/32
H04L 12/20	covered by	H04L 29/00
H04L 12/24	covered by	H04L 41/00
H04L 12/26	covered by	H04L 43/00
H04L 12/58	covered by	H04L 51/00
H04L 12/60-H04L 12/62	covered by	H04L 12/54
H04L 12/70	covered by	H04L 47/00

H04L 12/701	covered by	H04L 45/00
H04L 12/703	covered by	H04L 45/28
H04L 12/705	covered by	H04L 45/18
H04L 12/707	covered by	H04L 45/22, H04L 45/24
H04L 12/709	covered by	*H04L 45/245*
H04L 12/711	covered by	*H04L 45/22, H04L 45/24*
H04L 12/713	covered by	H04L 45/586
H04L 12/715	covered by	H04L 45/04, H04L 45/46, H04L 45/64
H04L 12/717	covered by	H04L 45/42
H04L 12/721	covered by	H04L 45/06, H04L 45/12, H04L 45/123, H04L 45/124, H04L 45/127, H04L 45/14, H04L 45/26, H04L 45/32, H04L 45/34, H04L 45/36, H04L 45/38, H04L 45/40, H04L 45/44, H04L 45/566, H04L 45/62, H04L 45/66, H04L 45/68, H04L 45/70, H04L 45/72
H04L 12/723	covered by	H04L 45/50-H04L 45/507
H04L 12/725	covered by	H04L 45/30-H04L 45/308
H04L 12/727	covered by	*H04L 45/121*
H04L 12/729	covered by	H04L 45/125
H04L 12/733	covered by	H04L 45/122, H04L 45/126, H04L 45/20
H04L 12/735	covered by	H04L 45/128-H04L 45/1287
H04L 12/741	covered by	*H04L 45/54, H04L 45/74, H04L 45/745*
H04L 12/743	covered by	H04L 45/7453, H04L 45/7457
H04L 12/745	covered by	H04L 45/748
H04L 12/747	covered by	H04L 45/742
H04L 12/749	covered by	H04L 45/741
H04L 12/751	covered by	*H04L 45/02, H04L 45/025, H04L 45/026, H04L 45/08, H04L 45/10*
H04L 12/753	covered by	H04L 45/48
H04L 12/755	covered by	H04L 45/021
H04L 12/757	covered by	H04L 45/023
H04L 12/759	covered by	H04L 45/023
H04L 12/761	covered by	H04L 45/16
H04L 12/763	covered by	*H04L 45/00*
H04L 12/771	covered by	H04L 45/56, H04L 45/563
H04L 12/773	covered by	H04L 45/60
H04L 12/775	covered by	H04L 45/58, H04L 45/583
H04L 12/781	covered by	H04L 45/52
H04L 12/801	covered by	H04L 47/10, H04L 47/11, H04L 47/115, H04L 47/12, H04L 47/127, H04L 47/13-H04L 47/196, H04L 47/29, H04L 47/33, H04L 47/34, H04L 47/35, H04L 47/37, H04L 47/39

H04L 12/803	covered by	H04L 47/122, H04L 47/125
H04L 12/805	covered by	H04L 47/36, H04L 47/365
H04L 12/807	covered by	H04L 47/27
H04L 12/811	covered by	H04L 47/38
H04L 12/813	covered by	H04L 47/20
H04L 12/815	covered by	H04L 47/22, H04L 47/225, H04L 47/23
H04L 12/819	covered by	H04L 47/21, H04L 47/215
H04L 12/823	covered by	H04L 47/32-H04L 47/326
H04L 12/825	covered by	H04L 47/25-H04L 47/266
H04L 12/827	covered by	*H04L 47/25 - H04L 47/266*
H04L 12/829	covered by	*H04L 47/25 - H04L 47/266*
H04L 12/833	covered by	H04L 47/2458, H04L 47/31
H04L 12/835	covered by	H04L 47/30
H04L 12/841	covered by	H04L 47/28-H04L 47/286
H04L 12/851	covered by	H04L 47/24, H04L 47/2408, H04L 47/2425, H04L 47/2433, H04L 47/245, H04L 47/2483
H04L 12/853	covered by	H04L 47/2416
H04L 12/855	covered by	H04L 47/2466
H04L 12/857	covered by	H04L 47/2491
H04L 12/859	covered by	H04L 47/2475
H04L 12/861	covered by	*H04L 49/90, H04L 49/9005, H04L 49/9031 - H04L 49/9094*
H04L 12/863	covered by	H04L 47/50, H04L 47/54, H04L 47/62-H04L 47/627, H04L 47/628, H04L 47/6285, H04L 47/6295
H04L 12/865	covered by	H04L 47/6275
H04L 12/867	covered by	H04L 47/629
H04L 12/869	covered by	H04L 47/58, H04L 47/60
H04L 12/873	covered by	H04L 47/52, H04L 47/521, H04L 47/522, H04L 47/524, H04L 47/527, H04L 47/528
H04L 12/875	covered by	H04L 47/56-H04L 47/568
H04L 12/877	covered by	H04L 47/525
H04L 12/879	covered by	H04L 49/901, H04L 49/9026
H04L 12/883	covered by	*H04L 49/9015, H04L 49/9021*
H04L 12/885	covered by	*H04L 49/90, H04L 49/9005, H04L 49/9031 - H04L 49/9094*
H04L 12/891	covered by	H04L 47/41
H04L 12/893	covered by	*H04L 47/40*
H04L 12/901	covered by	*H04L 2012/5603 - H04L 2012/5687*
H04L 12/903	covered by	*H04L 2012/5603 - H04L 2012/5687*
H04L 12/905	covered by	*H04L 2012/5603 - H04L 2012/5687*

H04L 12/911	covered by	H04L 47/70-H04L 47/748, H04L 47/78, H04L 47/781, H04L 47/782, H04L 47/783, H04L 47/788, H04L 47/82-H04L 47/829
H04L 12/913	covered by	H04L 47/724
H04L 12/915	covered by	H04L 47/785, H04L 47/787, H04L 47/787
H04L 12/917	covered by	H04L 47/76
H04L 12/919	covered by	H04L 47/765, H04L 47/767
H04L 12/923	covered by	H04L 47/762
H04L 12/925	covered by	H04L 47/722
H04L 12/927	covered by	H04L 47/80-H04L 47/808
H04L 12/931	covered by	*H04L 49/00, H04L 49/20 - H04L 49/208, H04L 49/35 - H04L 49/508, H04L 49/60 - H04L 49/70*
H04L 12/933	covered by	H04L 49/10-H04L 49/1592
H04L 12/935	covered by	H04L 49/30-H04L 49/3009
H04L 12/937	covered by	H04L 49/253-H04L 49/255
H04L 12/939	covered by	H04L 49/55-H04L 49/557
H04L 12/943	covered by	*H04L 49/55 - H04L 49/557*
H04L 12/945	covered by	*H04L 49/55 - H04L 49/557*
H04L 12/947	covered by	H04L 49/25, H04L 49/251, H04L 49/252, H04L 49/256, H04L 49/257, H04L 49/258
H04L 12/951	covered by	*H04L 2012/5603 - H04L 2012/5687*
H04L 12/953	covered by	*H04L 2012/5603 - H04L 2012/5687*
H04L 12/955	*covered by*	*H04L 2012/5603 - H04L 2012/5687*
H04L 25/04	covered by	H04L 25/03
H04L 25/17	covered by	~~H03H~~*H04L 25/02 - H04L 25/0298*
H04L 25/18	covered by	H04L 25/027
H04L 25/28	covered by	H04L 25/0268
H04L 25/30	covered by	H04L 25/061
H04L 25/32	covered by	H04L 25/49
H04L 25/34	covered by	H04L 25/4917
H04L 25/48	covered by	H04L 25/49
H04L 25/52	covered by	H04L 25/20
H04L 25/54	covered by	H04L 25/20
H04L 25/56	covered by	H04L 25/202
H04L 25/58	covered by	H04L 25/20
H04L 25/60	covered by	H04L 25/207
H04L 25/62	covered by	H04L 25/205
H04L 25/64	covered by	H04L 25/245
H04L 25/66	covered by	H04L 25/247

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Project: MP0446 (Y02C)

M **Y02C 10/00** **CO_2 capture or storage** ~~(not used, see subgroups)~~

M **Y02C 20/00** **Capture or disposal of greenhouse gases [GHG] other than CO_2** ~~(not used, see subgroups)~~