

Compilation of Changes to the CPC Scheme Between 2018.01 and 2018.02

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: RP0485 (A01B)

- U A01B 45/00** **Machines for treating meadows or lawns {, e.g. for sports grounds}**
- U A01B 45/02 • for aerating
- D A01B 45/04 • for cutting sods or turves ~~{{(machines for lifting and treating soil A01B 77/00)}~~
<administratively transferred to [A01G 20/12](#)>
- D A01B 45/045 • ~~{the machine being adapted for stacking sods or sod rolls}~~
<administratively transferred to [A01G 20/15](#)>

Project: RP0485 (A01C)

- U A01C 7/00** **Sowing ({{with centrifugal wheels [A01C 17/00](#)} arrangements for driving working parts [A01C 19/00](#))**
- A01C 7/02 • Hand sowing implements ~~{{(fertiliser distributors for hand use [A01C 15/02](#); tools for cultivation ~~A01G 1/12~~[A01G 20/30](#), [A01G 20/40](#))}}~~

Project: RP0485 (A01D)

- U A01D 42/00** **Mowers convertible to apparatus for purposes other than mowing; Mowers capable of performing operations other than mowing (mowers combined with apparatus performing additional operations while mowing [A01D 43/00](#))**
- A01D 42/06 • Sweeping or cleaning lawns or other surfaces ~~{{(sweeping apparatus for lawns per se ~~A01G 1/125~~[A01G 20/43](#))}}~~
- M A01D 45/00** **Harvesting of standing crops ([A01D 44/00](#) takes precedence; threshing machines adapted for special crops, threshing devices for combines adapted for special crops [A01F 11/00](#); *harvesting of mushrooms [A01G 18/70](#)*)**
- D A01D 45/005 • ~~{of mushrooms}~~
<administratively transferred to [A01G 18/70](#)>

Project: RP0485 (A01G)

- D A01G 1/00** **~~Horticulture; Cultivation of vegetables (labels or name-plates G09F 3/00; G09F 7/00)~~**
<administratively transferred to [A01G 2/00](#)>
- D A01G 1/001 • ~~{Horticultural methods}~~
<administratively transferred to [A01G 22/00](#)>
- D A01G 1/002 • ~~{Growing turf}~~
<administratively transferred to [A01G 20/00](#)>
- D A01G 1/004 • ~~{Pre-cultivated sod; Machines for laying it down}~~
<administratively transferred to [A01G 20/10](#)>
- D A01G 1/005 • ~~{Planted mats, e.g. for covering roofs}~~
<administratively transferred to [A01G 20/20](#)>

- D A01G 1/007
 - {Flat containers, e.g. for covering roofs}
 - <administratively transferred to [A01G 9/033](#)>
- D A01G 2001/008
 - {Growing plants or turf in soil-like layered substrates using a foil}
 - <administratively transferred to [A01G 24/00](#)>
- D A01G 1/02
 - Cultivation of asparagus
 - <administratively transferred to [A01G 22/10](#)>
- D A01G 1/04
 - Cultivation of mushrooms (composts or fertilisers for cultivating mushrooms C05)
 - <administratively transferred to [A01G 18/00](#)>
- D A01G 1/042
 - {Growing rooms with treatment apparatus; Cultivation racks or trays}
 - <administratively transferred to [A01G 18/60](#)>
- D A01G 1/044
 - {Apparatus for treating mushroom compost}
 - <administratively transferred to [A01G 18/20](#)>
- D A01G 1/046
 - {Cultivation bags or bottles}
 - <administratively transferred to [A01G 18/64](#)>
- D A01G 1/048
 - {Mycorrhiza}
 - <administratively transferred to [A01G 18/10](#)>
- D A01G 1/06
 - Grafting (grafting wax A01N 3/04)
 - <administratively transferred to [A01G 2/30](#)>
- D A01G 2001/065
 - {Removing buds}
 - <administratively transferred to [A01G 2003/005](#)>
- D A01G 1/08
 - Edging for beds, lawns, or the like, e.g. using tiles
 - <administratively transferred to [A01G 9/28](#)>
- D A01G 1/12
 - Tools for cultivating turf; Sweeping apparatus for lawns; Garden rollers (machines for treating meadows or lawns A01B 45/00; lawn-mowers A01D 34/00)
 - <administratively transferred to [A01G 20/30](#)>
- D A01G 1/125
 - {Machines for sweeping lawns and for collecting or disintegrating lawn debris}
 - <administratively transferred to [A01G 20/43](#)>

Q A01G 2/00***Vegetative propagation (plant reproduction by tissue culture techniques A01H 4/00)*****WARNING**

Group [A01G 2/00](#) is impacted by reclassification into groups [A01G 2/10](#), [A01G 2/20](#), [A01G 20/00](#), [A01G 22/00](#), [A01G 22/05](#), [A01G 22/10](#), [A01G 22/15](#), [A01G 22/20](#), [A01G 22/22](#), [A01G 22/25](#), [A01G 22/30](#), [A01G 22/35](#), [A01G 22/40](#), [A01G 22/45](#), [A01G 22/50](#), [A01G 22/55](#), [A01G 22/60](#), [A01G 22/63](#), and [A01G 22/67](#).

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

N A01G 2/10

- by means of cuttings

WARNING

Group [A01G 2/10](#) is incomplete pending reclassification of documents from group [A01G 2/00](#).

Groups [A01G 2/00](#) and [A01G 2/10](#) should be considered in order to perform a complete search.

N A01G 2/20

- Layering

WARNING

Group [A01G 2/20](#) is incomplete pending reclassification of documents from group [A01G 2/00](#).

Groups [A01G 2/00](#) and [A01G 2/20](#) should be considered in order to perform a complete search.

Q A01G 2/30

- Grafting (grafting-wax [A01N 3/04](#))

WARNING

Group [A01G 2/30](#) is impacted by reclassification into groups [A01G 2/32](#), [A01G 2/35](#), and [A01G 2/38](#).

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

N A01G 2/32

- • Automatic apparatus therefor

WARNING

Group [A01G 2/32](#) is incomplete pending reclassification of documents from group [A01G 2/30](#).

Groups [A01G 2/30](#) and [A01G 2/32](#) should be considered in order to perform a complete search.

N A01G 2/35

- • Cutting; Inserting

WARNING

Group [A01G 2/35](#) is incomplete pending reclassification of documents from group [A01G 2/30](#).

Groups [A01G 2/30](#) and [A01G 2/35](#) should be considered in order to perform a complete search.

N A01G 2/38

- • Holding; Ligating

WARNING

Group [A01G 2/38](#) is incomplete pending reclassification of documents from group [A01G 2/30](#).

Groups [A01G 2/30](#) and [A01G 2/38](#) should be considered in order to perform a complete search.

M A01G 7/00

Botany in general (~~cultivation without soil A01G 31/00~~ **soilless cultivation A01G 31/00**)

C A01G 9/00

Cultivation of plants in receptacles **Receptacles**, forcing-frames; or greenhouses **for horticulture** (~~cultivation without soil A01G 31/00~~ {; **turfing of roofs E04D 11/002**} **for mushrooms A01G 18/60**; **soilless cultivation A01G 31/00**); **Edging for beds, lawn or the like**

WARNING

Group [A01G 9/00](#) is impacted by reclassification into groups [A01G 18/60](#) and [A01G 9/28](#).

Groups [A01G 9/00](#), [A01G 18/60](#), and [A01G 9/28](#) should be considered in order to perform a complete search.

U A01G 9/02

- Receptacles, e.g. flower-pots or boxes (hanging flower baskets, holders or containers for flower-pots [A47G 7/00](#)); Glasses for cultivating flowers

U A01G 9/022

- • {Pots for vertical horticulture}

A01G 9/025

- • • {Containers and elements for greening walls (for covering roofs ~~A01G 1/007~~ [A01G 9/033](#))}

U A01G 9/028

- • {Multi-compartmented pots}

Q A01G 9/029

- • Pots for seedlings

WARNING

Group [A01G 9/029](#) is impacted by reclassification into groups [A01G 24/44](#) and [A01G 24/60](#).

Groups [A01G 9/029](#), [A01G 24/44](#), and [A01G 24/60](#) should be considered in order to perform a complete search.

- N A01G 9/0291
 - • • {Planting receptacles specially adapted for remaining in the soil after planting}
- N A01G 9/0293
 - • • {Seed or shoot receptacles}
- N A01G 9/0295
 - • • {Units comprising two or more connected receptacles}
- N A01G 9/0297
 - • • {Grids for supporting several receptacles}
- N A01G 9/0299
 - • • {Handling or transporting of soil blocks or seedlings}
- N A01G 9/033
 - • Flat containers for turf, lawn or the like, e.g. for covering roofs
- D A01G 9/10
 - Pots {or other receptacles} for {seeds,} seedlings {, saplings, cuttings or other young plants, e.g. foldable pots}; Soil-blocks {or like} for seedlings {-}; Plant substrate bodies}; Means for forming soil-blocks <administratively transferred to [A01G 9/029](#)>
- D A01G 9/1006
 - {Tools, machines and methods for forming soil blocks or compressed pots, e.g. from peat} <administratively transferred to [A01G 24/60](#)>
- D A01G 9/1013
 - {soil blocks or compressed pots} <administratively transferred to [A01G 24/28](#) and [A01G 24/44](#)>
- D A01G 9/102
 - {Planting receptacles specially adapted for remaining in the soil after planting} <administratively transferred to [A01G 9/0291](#)>
- D A01G 9/1026
 - {Seed or shoot receptacles} <administratively transferred to [A01G 9/0293](#)>
- D A01G 9/1033
 - {Sterile receptacles, e.g. for tissue culture} <administratively transferred to [A01G 9/02](#)>
- D A01G 9/104
 - {Units comprising two or more connected receptacles} <administratively transferred to [A01G 9/0295](#)>
- D A01G 2009/1046
 - • • {containing mineral wool} <administratively transferred to [A01G 24/18](#)>
- D A01G 2009/1053
 - • • {containing superabsorbents} <administratively transferred to [A01G 24/35](#)>
- D A01G 2009/106
 - • • {containing wood} <administratively transferred to [A01G 24/23](#)>
- D A01G 9/1066
 - {Grids for supporting several receptacles} <administratively transferred to [A01G 9/0297](#)>
- D A01G 9/1073
 - {Receptacles specially adapted for air layering} <administratively transferred to [A01G 2/20](#) and [A01G 9/029](#)>
- D A01G 9/108
 - {Handling or transporting of soil blocks or seedlings} <administratively transferred to [A01G 9/0299](#)>
- D A01G 9/1086
 - {Composition of plant substrate bodies (plant growth regulators A01N; fertilizers C05; soil conditioning or soil stabilizing materials C09K 17/00)} <administratively transferred to [A01G 24/00](#)>
- D A01G 2009/1093
 - {for dwarf plants} <administratively transferred to [A01G 22/67](#)>
- U A01G 9/24
 - Devices {or systems} for heating, ventilating, regulating temperature, or watering, in greenhouses, forcing-frames, or the like
- U A01G 9/26
 - • Electric devices

- N A01G 9/28
- Raised beds; Planting beds; Edging elements for beds, lawn or the like, e.g. tiles
- WARNING
Group [A01G 9/28](#) is incomplete pending reclassification of documents from group [A01G 9/00](#).
Groups [A01G 9/00](#) and [A01G 9/28](#) should be considered in order to perform a complete search.
- D A01G 16/00
- Cultivation of rice (A01G 9/00 takes precedence)
<administratively transferred to [A01G 22/22](#)>**
- Q A01G 18/00
- Cultivation of mushrooms**
- WARNING
Group [A01G 18/00](#) is impacted by reclassification into groups [A01G 18/10](#), [A01G 18/20](#), [A01G 18/22](#), [A01G 18/30](#), [A01G 18/40](#), [A01G 18/50](#), [A01G 18/55](#), [A01G 18/60](#), [A01G 18/61](#), [A01G 18/62](#), [A01G 18/64](#), [A01G 18/65](#), [A01G 18/66](#), [A01G 18/68](#), [A01G 18/69](#), [A01G 18/70](#), and [A01G 18/80](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N A01G 18/10
- Mycorrhiza; Mycorrhizal associations
- WARNING
Group [A01G 18/10](#) is incomplete pending reclassification of documents from group [A01G 18/00](#).
Groups [A01G 18/00](#) and [A01G 18/10](#) should be considered in order to perform a complete search.
- Q A01G 18/20
- Culture media, e.g. compost
- WARNING
Group [A01G 18/20](#) is incomplete pending reclassification of documents from group [A01G 18/00](#).
Group [A01G 18/20](#) is also impacted by reclassification into groups [A01G 18/22](#), [A01G 18/30](#), [A01G 18/40](#), [A01G 18/50](#), and [A01G 18/55](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N A01G 18/22
- Apparatus for the preparation of culture media, e.g. bottling devices
- WARNING
Group [A01G 18/22](#) is incomplete pending reclassification of documents from groups [A01G 18/00](#) and [A01G 18/20](#).
Groups [A01G 18/00](#), [A01G 18/20](#), and [A01G 18/22](#) should be considered in order to perform a complete search.
- N A01G 18/30
- Accessories for use before inoculation of spawn, e.g. sterilisers
- WARNING
Group [A01G 18/30](#) is incomplete pending reclassification of documents from groups [A01G 18/00](#) and [A01G 18/20](#).
Groups [A01G 18/00](#), [A01G 18/20](#), and [A01G 18/30](#) should be considered in order to perform a complete search.
- N A01G 18/40
- Cultivation of spawn
- WARNING
Group [A01G 18/40](#) is incomplete pending reclassification of documents from groups [A01G 18/00](#) and [A01G 18/20](#).

Groups [A01G 18/00](#), [A01G 18/20](#), and [A01G 18/40](#) should be considered in order to perform a complete search.

N A01G 18/50

- Inoculation of spawn

WARNING

Group [A01G 18/50](#) is incomplete pending reclassification of documents from groups [A01G 18/00](#) and [A01G 18/20](#).

Groups [A01G 18/00](#), [A01G 18/20](#), and [A01G 18/50](#) should be considered in order to perform a complete search.

N A01G 18/55

- • Forming inoculation holes

WARNING

Group [A01G 18/55](#) is incomplete pending reclassification of documents from groups [A01G 18/00](#) and [A01G 18/20](#).

Groups [A01G 18/00](#), [A01G 18/20](#), and [A01G 18/55](#) should be considered in order to perform a complete search.

Q A01G 18/60

- Cultivation rooms; Equipment therefor

WARNING

Group [A01G 18/60](#) is incomplete pending reclassification of documents from groups [A01G 9/00](#) and [A01G 18/00](#).

Group [A01G 18/60](#) is also impacted by reclassification into groups [A01G 18/61](#), [A01G 18/62](#), and [A01G 18/69](#).

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

N A01G 18/61

- • Growth guides for fruiting bodies, e.g. paper rolls

WARNING

Group [A01G 18/61](#) is incomplete pending reclassification of documents from groups [A01G 18/00](#) and [A01G 18/60](#).

Groups [A01G 18/00](#), [A01G 18/60](#), and [A01G 18/61](#) should be considered in order to perform a complete search.

N A01G 18/62

- • Racks; Trays

WARNING

Group [A01G 18/62](#) is incomplete pending reclassification of documents from groups [A01G 18/00](#) and [A01G 18/60](#).

Groups [A01G 18/00](#), [A01G 18/60](#), and [A01G 18/62](#) should be considered in order to perform a complete search.

Q A01G 18/64

- • Cultivation containers; Lids therefor

WARNING

Group [A01G 18/64](#) is incomplete pending reclassification of documents from group [A01G 18/00](#).

Group [A01G 18/64](#) is also impacted by reclassification into groups [A01G 18/65](#), [A01G 18/66](#), and [A01G 18/68](#).

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

N A01G 18/65

- • characterised by the lids, e.g. lids with filters

WARNING

Group [A01G 18/65](#) is incomplete pending reclassification of documents from groups [A01G 18/00](#) and [A01G 18/64](#).

Groups [A01G 18/00](#), [A01G 18/64](#), and [A01G 18/65](#) should be considered in order to perform a complete search.

- N A01G 18/66
- • • Cultivation bags
- WARNING
Group [A01G 18/66](#) is incomplete pending reclassification of documents from groups [A01G 18/00](#) and [A01G 18/64](#).
Groups [A01G 18/00](#), [A01G 18/64](#), and [A01G 18/66](#) should be considered in order to perform a complete search.
- N A01G 18/68
- • • Cultivation bottles
- WARNING
Group [A01G 18/68](#) is incomplete pending reclassification of documents from groups [A01G 18/00](#) and [A01G 18/64](#).
Groups [A01G 18/00](#), [A01G 18/64](#), and [A01G 18/68](#) should be considered in order to perform a complete search.
- N A01G 18/69
- • Arrangements for managing the environment, e.g. sprinklers
- WARNING
Group [A01G 18/69](#) is incomplete pending reclassification of documents from groups [A01G 18/00](#) and [A01G 18/60](#).
Group [A01G 18/69](#) is incomplete pending reclassification of documents from groups [A01G 18/00](#) and [A01G 18/60](#).
- N A01G 18/70
- Harvesting
- WARNING
Group [A01G 18/70](#) is incomplete pending reclassification of documents from group [A01G 18/00](#).
Groups [A01G 18/00](#) and [A01G 18/70](#) should be considered in order to perform a complete search.
- N A01G 18/80
- Accessories for use after harvesting, e.g. scrapers
- WARNING
Group [A01G 18/80](#) is incomplete pending reclassification of documents from group [A01G 18/00](#).
Groups [A01G 18/00](#) and [A01G 18/80](#) should be considered in order to perform a complete search.
- Q A01G 20/00
- Cultivation of turf, lawn or the like; Apparatus or methods therefor (hand-held edge trimmers or shears for lawn [A01G 3/06](#); edging for lawn [A01G 9/28](#); lawn-mowers [A01D 34/00](#))**
- WARNING
Group [A01G 20/00](#) is incomplete pending reclassification of documents from group [A01G 2/00](#). Group [A01G 20/00](#) is also impacted by reclassification into groups [A01G 20/12](#), [A01G 20/15](#), [A01G 20/18](#), [A01G 20/35](#), [A01G 20/40](#), and [A01G 20/47](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- Q A01G 20/10
- Pre-cultivated sod or turf; Apparatus therefor
- WARNING
Group [A01G 20/10](#) is impacted by reclassification into group [A01G 20/18](#).
Groups [A01G 20/10](#) and [A01G 20/18](#) should be considered in order to perform a complete search.

- N A01G 20/12
- • Apparatus for cutting sods or turfs
- WARNING
Group [A01G 20/12](#) is incomplete pending reclassification of documents from group [A01G 20/00](#).
Groups [A01G 20/00](#) and [A01G 20/12](#) should be considered in order to perform a complete search.
- N A01G 20/15
- • • specially adapted for stacking sods or sod rolls
- WARNING
Group [A01G 20/15](#) is incomplete pending reclassification of documents from group [A01G 20/00](#).
Groups [A01G 20/00](#) and [A01G 20/15](#) should be considered in order to perform a complete search.
- N A01G 20/18
- • Apparatus for laying sods or turfs
- WARNING
Group [A01G 20/18](#) is incomplete pending reclassification of documents from groups [A01G 20/00](#) and [A01G 20/10](#).
Groups [A01G 20/00](#), [A01G 20/10](#), and [A01G 20/18](#) should be considered in order to perform a complete search.
- N A01G 20/20
- Cultivation on mats
- Q A01G 20/30
- Apparatus for treating the lawn or grass surface (machines for aerating lawns [A01B 45/02](#))
- WARNING
Group [A01G 20/30](#) is impacted by reclassification into groups [A01G 20/35](#) and [A01G 20/40](#).
Groups [A01G 20/30](#), [A01G 20/35](#), and [A01G 20/40](#) should be considered in order to perform a complete search.
- N A01G 20/35
- • Garden rollers
- WARNING
Group [A01G 20/35](#) is incomplete pending reclassification of documents from groups [A01G 20/00](#) and [A01G 20/30](#).
Groups [A01G 20/00](#), [A01G 20/30](#), and [A01G 20/35](#) should be considered in order to perform a complete search.
- N A01G 20/40
- Apparatus for cleaning the lawn or grass surface
- WARNING
Group [A01G 20/40](#) is incomplete pending reclassification of documents from groups [A01G 20/00](#) and [A01G 20/30](#).
Groups [A01G 20/00](#), [A01G 20/30](#), and [A01G 20/40](#) should be considered in order to perform a complete search.
- Q A01G 20/43
- • for sweeping, collecting or disintegrating lawn debris
- WARNING
Group [A01G 20/43](#) is impacted by reclassification into group [A01G 20/47](#).
Groups [A01G 20/43](#) and [A01G 20/47](#) should be considered in order to perform a complete search.
- N A01G 20/47
- • • Vacuum or blower devices
- WARNING
Group [A01G 20/47](#) is incomplete pending reclassification of documents from groups [A01G 20/00](#) and [A01G 20/43](#).

Groups [A01G 20/00](#), [A01G 20/43](#), and [A01G 20/47](#) should be considered in order to perform a complete search.

Q A01G 22/00 Cultivation of specific crops or plants not otherwise provided for

WARNING

Groups [A01G 22/00](#) - [A01G 22/67](#) are incomplete pending reclassification of documents from [A01G 2/00](#). Group [A01G 22/00](#) is also impacted by reclassification into groups [A01G 22/05](#), [A01G 22/15](#), [A01G 22/20](#), [A01G 22/25](#), [A01G 22/30](#), [A01G 22/35](#), [A01G 22/40](#), [A01G 22/45](#), [A01G 22/50](#), [A01G 22/55](#), [A01G 22/60](#), [A01G 22/63](#), and [A01G 22/67](#).

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

- N A01G 22/05
- Fruit crops, e.g. strawberries, tomatoes or cucumbers

WARNING

Group [A01G 22/05](#) is incomplete pending reclassification of documents from group [A01G 22/00](#).

Groups [A01G 22/00](#) and [A01G 22/05](#) should be considered in order to perform a complete search.

- N A01G 22/10
- Asparagus

- N A01G 22/15
- Leaf crops, e.g. lettuce or spinach

WARNING

Group [A01G 22/15](#) is incomplete pending reclassification of documents from group [A01G 22/00](#).

Groups [A01G 22/00](#) and [A01G 22/15](#) should be considered in order to perform a complete search.

- N A01G 22/20
- Cereals

WARNING

Group [A01G 22/20](#) is incomplete pending reclassification of documents from group [A01G 22/00](#).

Groups [A01G 22/00](#) and [A01G 22/20](#) should be considered in order to perform a complete search.

- N A01G 22/22
- • Rice

- N A01G 22/25
- Root crops, e.g. potatoes, yams, beet or wasabi

WARNING

Group [A01G 22/25](#) is incomplete pending reclassification of documents from group [A01G 22/00](#).

Groups [A01G 22/00](#) and [A01G 22/25](#) should be considered in order to perform a complete search.

- N A01G 22/30
- Moss

WARNING

Group [A01G 22/30](#) is incomplete pending reclassification of documents from group [A01G 22/00](#).

Groups [A01G 22/00](#) and [A01G 22/30](#) should be considered in order to perform a complete search.

- N A01G 22/35
- *Bulbs; Alliums, e.g. onions or leeks*
- WARNING
Group [A01G 22/35](#) is incomplete pending reclassification of documents from group [A01G 22/00](#). Groups [A01G 22/00](#) and [A01G 22/35](#) should be considered in order to perform a complete search.
- N A01G 22/40
- *Fabaceae, e.g. beans or peas*
- WARNING
Group [A01G 22/40](#) is incomplete pending reclassification of documents from group [A01G 22/00](#). Groups [A01G 22/00](#) and [A01G 22/40](#) should be considered in order to perform a complete search.
- N A01G 22/45
- *Tobacco*
- WARNING
Group [A01G 22/45](#) is incomplete pending reclassification of documents from group [A01G 22/00](#). Groups [A01G 22/00](#) and [A01G 22/45](#) should be considered in order to perform a complete search.
- N A01G 22/50
- *Cotton*
- WARNING
Group [A01G 22/50](#) is incomplete pending reclassification of documents from group [A01G 22/00](#). Groups [A01G 22/00](#) and [A01G 22/50](#) should be considered in order to perform a complete search.
- N A01G 22/55
- *Sugar cane*
- WARNING
Group [A01G 22/55](#) is incomplete pending reclassification of documents from group [A01G 22/00](#). Groups [A01G 22/00](#) and [A01G 22/55](#) should be considered in order to perform a complete search.
- N A01G 22/60
- *Flowers; Ornamental plants*
- WARNING
Group [A01G 22/60](#) is incomplete pending reclassification of documents from group [A01G 22/00](#). Groups [A01G 22/00](#) and [A01G 22/60](#) should be considered in order to perform a complete search.
- N A01G 22/63
- • *Orchids*
- WARNING
Group [A01G 22/63](#) is incomplete pending reclassification of documents from group [A01G 22/00](#). Groups [A01G 22/00](#) and [A01G 22/63](#) should be considered in order to perform a complete search.
- N A01G 22/67
- • *Dwarf trees, e.g. bonsai*
- WARNING
Group [A01G 22/67](#) is incomplete pending reclassification of documents from group [A01G 22/00](#). Groups [A01G 22/00](#) and [A01G 22/67](#) should be considered in order to perform a complete search.

- Q A01G 24/00** **Growth substrates; Culture media; Apparatus or methods therefor (for mushrooms [A01G 18/20](#))**
- WARNING
 Group [A01G 24/00](#) is impacted by reclassification into groups [A01G 24/10](#), [A01G 24/12](#), [A01G 24/13](#), [A01G 24/15](#), [A01G 24/17](#), [A01G 24/18](#), [A01G 24/20](#), [A01G 24/22](#), [A01G 24/23](#), [A01G 24/25](#), [A01G 24/27](#), [A01G 24/28](#), [A01G 24/30](#), [A01G 24/35](#), [A01G 24/40](#), [A01G 24/42](#), [A01G 24/44](#), [A01G 24/46](#), [A01G 24/48](#), [A01G 24/50](#), and [A01G 24/60](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- N A01G 24/10** • based on or containing inorganic material
- WARNING
 Group [A01G 24/10](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).
 Groups [A01G 24/00](#) and [A01G 24/10](#) should be considered in order to perform a complete search.
- N A01G 24/12** • • containing soil minerals
- WARNING
 Group [A01G 24/12](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).
 Groups [A01G 24/00](#) and [A01G 24/12](#) should be considered in order to perform a complete search.
- N A01G 24/13** • • • Zeolites
- WARNING
 Group [A01G 24/13](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).
 Groups [A01G 24/00](#) and [A01G 24/13](#) should be considered in order to perform a complete search.
- N A01G 24/15** • • • Calcined rock, e.g. perlite, vermiculite or clay aggregates
- WARNING
 Group [A01G 24/15](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).
 Groups [A01G 24/00](#) and [A01G 24/15](#) should be considered in order to perform a complete search.
- N A01G 24/17** • • containing slag
- WARNING
 Group [A01G 24/17](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).
 Groups [A01G 24/00](#) and [A01G 24/17](#) should be considered in order to perform a complete search.
- N A01G 24/18** • • containing inorganic fibres, e.g. mineral wool
- WARNING
 Group [A01G 24/18](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).
 Groups [A01G 24/00](#) and [A01G 24/18](#) should be considered in order to perform a complete search.

- N A01G 24/20
- based on or containing natural organic material
- WARNING
Group [A01G 24/20](#) is incomplete pending reclassification of documents from groups [A01G 24/00](#) and [A01G 24/28](#).
Groups [A01G 24/00](#), [A01G 24/28](#), and [A01G 24/20](#) should be considered in order to perform a complete search.
- N A01G 24/22
- • containing plant material
- WARNING
Group [A01G 24/22](#) is incomplete pending reclassification of documents from groups [A01G 24/00](#) and [A01G 24/28](#).
Groups [A01G 24/00](#), [A01G 24/28](#), and [A01G 24/22](#) should be considered in order to perform a complete search.
- N A01G 24/23
- • • Wood, e.g. wood chips or sawdust
- WARNING
Group [A01G 24/23](#) is incomplete pending reclassification of documents from groups [A01G 24/00](#) and [A01G 24/28](#).
Groups [A01G 24/00](#), [A01G 24/28](#), and [A01G 24/23](#) should be considered in order to perform a complete search.
- N A01G 24/25
- • • Dry fruit hulls or husks, e.g. chaff or coir
- WARNING
Group [A01G 24/25](#) is incomplete pending reclassification of documents from groups [A01G 24/00](#) and [A01G 24/28](#).
Groups [A01G 24/00](#), [A01G 24/28](#), and [A01G 24/25](#) should be considered in order to perform a complete search.
- N A01G 24/27
- • • Pulp, e.g. bagasse
- WARNING
Group [A01G 24/27](#) is incomplete pending reclassification of documents from groups [A01G 24/00](#) and [A01G 24/28](#).
Groups [A01G 24/00](#), [A01G 24/28](#), and [A01G 24/27](#) should be considered in order to perform a complete search.
- Q A01G 24/28
- • containing peat, moss or sphagnum
- WARNING
Group [A01G 24/28](#) is incomplete pending reclassification of documents from groups [A01G 24/00](#) and [C05F 11/04](#).
Group [A01G 24/28](#) is also impacted by reclassification into groups [A01G 24/20](#), [A01G 24/22](#), [A01G 24/23](#), [A01G 24/25](#), and [A01G 24/27](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N A01G 24/30
- based on or containing synthetic organic compounds
- WARNING
Group [A01G 24/30](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).
Groups [A01G 24/00](#) and [A01G 24/30](#) should be considered in order to perform a complete search.
- N A01G 24/35
- • containing water-absorbing polymers
- WARNING
Group [A01G 24/35](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).

Groups [A01G 24/00](#) and [A01G 24/35](#) should be considered in order to perform a complete search.

- N A01G 24/40
- characterised by their structure
- WARNING
Group [A01G 24/40](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).
Groups [A01G 24/00](#) and [A01G 24/40](#) should be considered in order to perform a complete search.
- N A01G 24/42
- of granular or aggregated structure
- WARNING
Group [A01G 24/42](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).
Groups [A01G 24/00](#) and [A01G 24/42](#) should be considered in order to perform a complete search.
- N A01G 24/44
- in block, mat or sheet form
- WARNING
Group [A01G 24/44](#) is incomplete pending reclassification of documents from groups [A01G 9/029](#) and [A01G 24/00](#).
Groups [A01G 9/029](#), [A01G 24/00](#), and [A01G 24/44](#) should be considered in order to perform a complete search.
- N A01G 24/46
- multi-layered
- WARNING
Group [A01G 24/46](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).
Groups [A01G 24/00](#) and [A01G 24/46](#) should be considered in order to perform a complete search.
- N A01G 24/48
- containing foam or presenting a foam structure
- WARNING
Group [A01G 24/48](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).
Groups [A01G 24/00](#) and [A01G 24/48](#) should be considered in order to perform a complete search.
- N A01G 24/50
- contained within a flexible envelope
- WARNING
Group [A01G 24/50](#) is incomplete pending reclassification of documents from group [A01G 24/00](#).
Groups [A01G 24/00](#) and [A01G 24/50](#) should be considered in order to perform a complete search.
- N A01G 24/60
- Apparatus for preparing growth substrates or culture media (for mushrooms [A01G 18/22](#))
- WARNING
Group [A01G 24/60](#) is incomplete pending reclassification of documents from groups [A01G 9/029](#) and [A01G 24/00](#).
Groups [A01G 9/029](#), [A01G 24/00](#), and [A01G 24/60](#) should be considered in order to perform a complete search.

- M A01G 31/00** **Hydroponics; Cultivation without soil** ~~Soilless cultivation, e.g. hydroponics (A01G 33/00 takes precedence)~~ **growth substrates therefor A01G 24/00; cultivation of seaweed A01G 33/00)**
- D A01G 31/001 · {Soilless culture substrates}
<administratively transferred to [A01G 24/00](#)>
- D A01G 2031/002 · {Substrates with a flexible envelope}
<administratively transferred to [A01G 24/50](#)>
- D A01G 2031/003 · {with foam substrates}
<administratively transferred to [A01G 24/48](#)>
- D A01G 2031/005 · {with mineral wool substrates}
<administratively transferred to [A01G 24/18](#)>
- D A01G 2031/007 · {with superabsorbents}
<administratively transferred to [A01G 24/35](#)>
- D A01G 2031/008 · {with wood}
<administratively transferred to [A01G 24/23](#)>

Project: MP0355 (A41C)

- M A41C 1/00** **Corsets or girdles** ~~(corsets fasteners A41F 1/04; orthopaedic corsets A61F 5/02)~~
- U A41C 3/00** **Brassieres**
- M A41C 3/10 · with stiffening or bust-forming inserts ~~(inserts per se A41C 3/14)~~

Project: RP0460 (A45C)

- M A45C** **PURSES; LUGGAGE; HAND CARRIED BAGS** ~~(sacks or packs carried on the body A45F containers in general B65D, e.g. portable flexible containers, B65D 27/00 – B65D 37/00; making leather, canvas, or like articles B68F)~~
- NOTES
- In this subclass, the following term is used with the meaning indicated:
 - "luggage" means containers for personal belongings for a journey, e.g. travelling bags, suitcases, trunks.
 - In this subclass, the following terms are used with the meaning indicated:
 - "flexible" means providing a structure with no considerable resistance against deformation or decrease of the enclosed volume, whereby a two-dimensional stability may be provided, e.g. by a stiffened bottom
 - "semi-rigid" means providing a structure with three-dimensional stability in an unloaded state and resilient resistance against deformation, or allowing a limited decrease, of the enclosed volume, e.g. by a resilient frame or a rigid frame with flexible side walls
 - "rigid" means providing a structure with three-dimensional stability allowing no deformation leading to a considerable decrease of the enclosed volume
 - "collapsible" means providing a feature other than use of flexible material for reducing the dimensions of flexible luggage or the enclosed volume of semi-rigid or rigid luggage
 - "extensible" means providing a feature other than use of flexible material for increasing the enclosed volume of flexible, semi-rigid or rigid luggage
- U A45C 1/00** **Purses; Money-bags; Wallets** ~~{(collapsible or extensible [A45C 7/00](#); convertible into other articles [A45C 9/00](#))}~~
- U A45C 1/08 · Combinations of purses and wallets
- M A45C 2001/086 · {with ~~an~~ additional ~~compartment~~ **compartments** for storing ~~another kind~~ **other kinds** of objects}

- M A45C 1/10 · Money-bags for conductors or like people; Money-bags with rigid coin-holders (~~sorting, testing, changing, delivering, or otherwise handling coins G07D~~)
- U A45C 2001/102 · · {Rigid coin-holders}
- U A45C 2001/107 · · · {with coins stored in piles, i.e. several coins stacked in a compartment}
- M A45C 2001/108 · · · · {with means for controlling the dispensing of coins, e.g. followers, pushers, ~~or~~ selectors}
- M A45C 1/12 · Savings boxes (~~safes E05G 1/00~~)
- M A45C 3/00** **Flexible luggage; Handbags (collapsible or extensible luggage, bags or the like A45C 7/00; handbag mirrors A45D 42/04; {bags for midwives A61B 17/48; doctors' or nurses' bags A61B 50/312})**
- M A45C 3/001 · {Flexible materials therefor (~~making luggage of leather, canvas or the like B68F~~)}
- U A45C 5/00** **Rigid or semi-rigid luggage (collapsible or extensible luggage, bags or the like A45C 7/00)**
- M A45C 5/005 · {Toilet cases (~~toilet etuis A45C 11/008~~)}
- M A45C 5/02 · Materials therefor (~~making luggage of leather, canvas, or the like B68F~~)
- U A45C 5/14 · with built-in rolling means
- M A45C 2005/142 · · · {with spherical rolling means, e.g. ball casters}
- M A45C 2005/147 · · · {for climbing stairs}
- M A45C 2005/148 · · · {Other arrangements of the rolling means}
- M A45C 7/00** **Collapsible or extensible {purses,} luggage (~~hand-carried~~), bags or the like**
- M A45C 9/00** **{Purses,} Luggage or (~~hand-carried~~)-bags convertible into (~~other articles or into~~)-objects for other use (~~sacks or packs carried on the body and convertible into other articles A45F 4/02; trunk-wardrobes A47B 61/06; trunks convertible into tables A47B 85/00; trunk-beds A47C 17/82~~)**
- M A45C 11/00** **Receptacles for purposes not provided for in groups A45C 1/00 - A45C 9/00 (specially adapted for toilet or cosmetic equipment A45D A45D 29/20, A45D 44/18; travelling sewing kits A45F 3/48; (~~devices for carrying bowling balls A63B 47/007~~))**
- M A45C 2011/001 · {for portable audio devices, e.g. ~~walkman, headphones, headphones or MP3-player players~~}
- M A45C 2011/007 · {Receptacles for personal medical or care products, e.g. drugs, condoms, ~~or~~ patches; Small first-aid kits}
- M A45C 11/008 · {Pocket toilet etuis (~~toilet cases A45C 5/005~~)}
- U A45C 11/04 · Spectacle cases; Pince-nez cases
- M A45C 11/06 · · Making of spectacle or pince-nez cases (~~of a single specified material, see the relevant class, e.g. B31~~)
- U A45C 11/32 · Bags or wallets for holding keys {(key-holding inserts A45C 13/023)}
- U A45C 11/327 · · {with sliding keys (A45C 11/325 takes precedence)}
- M A45C 11/329 · · · {comprising a flexible ~~tie ties~~, e.g. ~~strip strips, band, chain bands or chains~~}
- M A45C 11/34 · Pencil boxes; Pencil etuis or the like (~~functioning as, or combined with, writing or drawing implements B43K 31/00~~)
- M A45C 11/36 · Cases for drawing or like instruments (~~functioning as, or combined with, writing or drawing implements B43K 31/00~~)
- M A45C 13/00** **Details; Accessories (~~haberdashery A44; hinged lids for containers B65D 43/16; hinges E05D~~)**

- M A45C 13/10 · Arrangement of fasteners (~~fastening devices for containers B65D, e.g. B65D 43/14; locks E05B~~)
- M A45C 13/26 · Special adaptations of handles ([A45C 13/22](#) takes precedence; ~~handles for containers in general B65D 25/28~~)
- M A45C 15/00 **Purses, bags, luggage or other receptacles covered by groups [A45C 1/00](#) - [A45C 11/00](#), combined with other {objects or} articles ([A45C 1/08](#), [A45C 3/14](#), {[A45C 11/321](#) and, [A45C 13/28](#)} take precedence; ~~{Purses combined with sticks A45B 3/10}~~)**

Project: RP0495 (A47C)

- U A47C 7/00 **Parts, details, or accessories of chairs or stools (attaching to floor [A47B 91/08](#))**
- U A47C 7/36 · Support for the head or the back
- A47C 7/38 · · for the head {(adjustable coupled to reclining or easy chairs [A47C 1/036](#); for operating or dental chairs [A61G 15/00](#); for car seats ~~B60N 2/48~~[B60N 2/80](#))}
- A47C 7/383 · · · {Detachable or loose head- or neck-supports, e.g. horse-shoe shaped (detachable head rests for cars ~~B60N 2/4879~~[B60N 2/882](#))}

Project: RP0487 (B01D)

- U B01D 2247/00 **Details relating to the separation of dispersed particles from gases, air or vapours by liquid as separating agent**
- B01D 2247/04 · Regenerating the washing fluid (recovering paint spray booth ~~B05B 15/1266~~[B05B 14/462](#))

Project: RP0487 (B05B)

- U B05B 1/00 **Nozzles, spray heads or other outlets, with or without auxiliary devices such as valves, heating means ([B05B 3/00](#), [B05B 5/00](#), [B05B 7/00](#) take precedence; {nozzles for baths with water or gas jets [A61H 33/00](#), e.g. [A61H 33/6063](#), [A61H 33/6021](#), [A61H 33/026](#) or [A61H 33/027](#); nozzles specially adapted for fire-extinguishing [A62C 31/02](#); nozzles for generating high velocity abrasive fluid jets [B24C 5/04](#)}; nozzles for jet-ink printing mechanisms [B41J 2/135](#); {Nozzles for filling containers [B65B 39/00](#); } nozzles for liquid-dispensing, e.g. in vehicle service stations [B67D 7/42](#))**
- B05B 1/28 · with integral means for shielding the discharged liquid or other fluent material, e.g. to limit area of spray; with integral means for catching drips or collecting surplus liquid or other fluent material (means for any of these purposes, per se, ~~B05B 15/04~~[B05B 12/16](#), [B05B 12/32](#), [B05B 14/00](#))
- U B05B 7/00 **Spraying apparatus for discharge of liquids or other fluent materials from two or more sources, e.g. of liquid and air, of powder and gas ([B05B 3/00](#), [B05B 5/00](#) {[B05B 11/06](#)} take precedence; outlets not specially modified for two media [B05B 1/00](#))**
- U B05B 7/14 · designed for spraying particulate materials ([B05B 7/16](#) takes precedence)
- U B05B 7/1404 · · {Arrangements for supplying particulate material}
- B05B 7/1454 · · · {comprising means for supplying collected oversprayed particulate material (spray booth with arrangements for collecting oversprayed material ~~B05B 15/1225~~[B05B 14/40](#))}

- C B05B 12/00** **Arrangements or special adaptations of delivery for controlling means in spraying systems delivery (controlling in general G05 {-; valves in spray head or nozzles B05B 1/30 and sub-groups}); Arrangements for controlling the spray area**

WARNING

Group [B05B 12/00](#) is impacted by reclassification into groups [B05B 12/16](#), [B05B 12/18](#), [B05B 12/20](#), [B05B 12/22](#), [B05B 12/24](#), [B05B 12/26](#), [B05B 12/28](#), [B05B 12/30](#), [B05B 12/32](#), [B05B 12/34](#), [B05B 12/36](#).

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

- U B05B 12/14 • for supplying a selected one of a plurality of liquids or other fluent materials {or several in selected proportions} to a {spray apparatus, e.g. to a} single spray outlet
- U B05B 12/149 • {characterised by colour change manifolds or valves therefor ([B05B 12/1409](#) takes precedence)}
- Q B05B 12/16 • for controlling the spray area ([B05B 3/00](#) takes precedence)

WARNING

Group [B05B 12/16](#) is incomplete pending reclassification of documents from group [B05B 12/00](#). Group [B05B 12/16](#) is also impacted by reclassification into group [B05B 12/32](#).

Groups [B05B 12/00](#), [B05B 12/16](#), and [B05B 12/32](#) should be considered in order to perform a complete search.

- N B05B 12/18 • • using fluids, e.g. gas streams

WARNING

Group [B05B 12/18](#) is incomplete pending reclassification of documents from group [B05B 12/00](#).

Groups [B05B 12/00](#) and [B05B 12/18](#) should be considered in order to perform a complete search.

- N B05B 12/20 • • Masking elements, i.e. elements defining uncoated areas on an object to be coated

WARNING

Group [B05B 12/20](#) is incomplete pending reclassification of documents from group [B05B 12/00](#).

Groups [B05B 12/00](#) and [B05B 12/20](#) should be considered in order to perform a complete search.

- Q B05B 12/22 • • • movable relative to the spray area

WARNING

Group [B05B 12/22](#) is incomplete pending reclassification of documents from group [B05B 12/00](#). Group [B05B 12/22](#) is also impacted by reclassification into group [B05B 12/34](#).

Groups [B05B 12/00](#), [B05B 12/22](#), and [B05B 12/34](#) should be considered in order to perform a complete search.

- N B05B 12/24 • • • made at least partly of flexible material, e.g. sheets of paper or fabric

WARNING

Group [B05B 12/24](#) is incomplete pending reclassification of documents from group [B05B 12/00](#).

Groups [B05B 12/00](#) and [B05B 12/24](#) should be considered in order to perform a complete search.

- N B05B 12/26
- • • for masking cavities
- WARNING
Group [B05B 12/26](#) is incomplete pending reclassification of documents from group [B05B 12/00](#).
Groups [B05B 12/00](#) and [B05B 12/26](#) should be considered in order to perform a complete search.
- N B05B 12/265
- • • • {between a door and a post, e.g. foam strips}
- N B05B 12/28
- • • for defining uncoated areas that are not enclosed within coated areas or *vice versa*, e.g. for defining U-shaped border lines
- WARNING
Group [B05B 12/28](#) is incomplete pending reclassification of documents from group [B05B 12/00](#).
Groups [B05B 12/00](#) and [B05B 12/28](#) should be considered in order to perform a complete search.
- N B05B 12/29
- • • {with adjustable size}
- N B05B 12/30
- • • specially adapted for vehicle wheels
- WARNING
Group [B05B 12/30](#) is incomplete pending reclassification of documents from group [B05B 12/00](#).
Groups [B05B 12/00](#) and [B05B 12/30](#) should be considered in order to perform a complete search.
- N B05B 12/32
- • Shielding elements, i.e. elements preventing overspray from reaching areas other than the object to be sprayed (nozzles with integral shielding elements [B05B 1/28](#))
- WARNING
Group [B05B 12/32](#) is incomplete pending reclassification of documents from groups [B05B 12/00](#) and [B05B 12/16](#).
Groups [B05B 12/00](#), [B05B 12/16](#), and [B05B 12/32](#) should be considered in order to perform a complete search.
- N B05B 12/34
- • • movable relative to the spray area
- WARNING
Group([B05B 12/34](#) is incomplete pending reclassification of documents from groups [B05B 12/00](#) and [B05B 12/22](#).
Groups [B05B 12/00](#), [B05B 12/22](#), and [B05B 12/34](#) should be considered in order to perform a complete search.
- N B05B 12/36
- • • Side shields, i.e. shields extending in a direction substantially parallel to the spray jet
- WARNING
Group [B05B 12/36](#) is incomplete pending reclassification of documents from group [B05B 12/00](#).
Groups [B05B 12/00](#) and [B05B 12/36](#) should be considered in order to perform a complete search.
- N B05B 12/40
- • {Devices for making a normally hidden area accessible for the spray material}
- N B05B 14/00** **Arrangements for collecting, re-using or eliminating excess spraying material (arrangements integral with nozzles [B05B 1/28](#))**
- N B05B 14/10
- the excess material being particulate (for spray booths [B05B 14/48](#))
- N B05B 14/20
- from moving belts, e.g. filtering belts or conveying belts

- N B05B 14/30
 - comprising enclosures close to, or in contact with, the object to be sprayed and surrounding or confining the discharged spray or jet but not the object to be sprayed
- N B05B 14/40
 - for use in spray booths
- N B05B 14/41
 - by cleaning the walls of the booth
- N B05B 14/412
 - • {wherein the walls of the booth is perforated or porous walls and the walls are cleaned of or prevented from being contacted with excess material by a flow of fluid, e.g. air or water, directed into the booth}
- N B05B 14/42
 - • using electrostatic means
- N B05B 14/43
 - • by filtering the air charged with excess material
- N B05B 14/435
 - • • with means for cleaning the filters by gas flow, e.g. blasts of air
- N B05B 14/437
 - • • {with means for introducing solid material into the air charged with excess material for preventing clogging of the filter}
- N B05B 14/44
 - • using walls specially adapted for promoting separation of the excess material from the air, e.g. baffle plates (using wetted walls [B05B 14/465](#))
- N B05B 14/45
 - • using cyclone separators
- N B05B 14/46
 - • by washing the air charged with excess material
- N B05B 14/462
 - • • and separating the excess material from the washing liquid, e.g. for recovery
- N B05B 14/463
 - • • • {by means of ultrafiltration}
- N B05B 14/465
 - • • using substantially vertical liquid curtains or wetted walls behind the object to be sprayed
- N B05B 14/468
 - • • with scrubbing means arranged below the booth floor
- N B05B 14/469
 - • • {wherein the washing material is the spraying material}
- N B05B 14/48
 - • specially adapted for particulate material
- N B05B 14/49
 - • specially adapted for solvents

C B05B 15/00 Details of spraying plant or **spraying** apparatus not otherwise provided for; Accessories (**accessories applicable to other methods of applying liquids or other fluent materials to surfaces B05C**)

WARNING

Group [B05B 15/00](#) is impacted by reclassification into groups [B05B 15/14](#) and [B05B 15/18](#).

Groups [B05B 15/00](#), [B05B 15/14](#), and [B05B 15/18](#) should be considered in order to perform a complete search.

- D B05B 15/001
 - {Devices for preventing non-intended contact of spray heads or nozzles with foreign bodies, e.g. sprinkler or nozzle guards}
 - <administratively transferred to [B05B 15/16](#)>
- D B05B 15/002
 - {Means for stirring, mixing or homogenising the material in a container to be sprayed}
 - <administratively transferred to [B05B 15/20](#)>
- D B05B 15/003
 - • {comprising a moving element, e.g. a rotating blade}
 - <administratively transferred to [B05B 15/25](#)>
- D B05B 15/005
 - {Dip tubes}
 - <administratively transferred to [B05B 15/30](#)>
- D B05B 15/006
 - • {Weighted dip tubes}
 - <administratively transferred to [B05B 15/33](#)>
- D B05B 15/007
 - • {with decorative elements}
 - <administratively transferred to [B05B 15/37](#)>

- D B05B 15/008
- {Filters specially adapted for spraying plants or apparatus}
- <administratively transferred to [B05B 15/40](#)>
- D B05B 15/02
- Arrangements or devices for cleaning discharge openings (, nozzles, spraying heads or spraying apparatus; Arrangements or devices for preventing discharge openings, nozzles, spraying heads or spraying apparatus from becoming dirty or clogged; Devices for detecting presence of foreign matter in discharge openings)
- <administratively transferred to [B05B 15/50](#)>
- D B05B 15/0208
- {Means for cleaning or allowing removal of clogging particles (B05B 15/025, B05B 15/0291 take precedence)}
- <administratively transferred to [B05B 15/52](#)>
- D B05B 15/0216
- • {a cleaning element extending through a discharge opening at least during the cleaning operation}
- <administratively transferred to [B05B 15/522](#)>
- D B05B 15/0225
- • • {the cleaning element, e.g. a needle, and the discharge opening being movable relative to each other in a direction substantially parallel to the flow of liquid or other fluent material through said opening}
- <administratively transferred to [B05B 15/5223](#)>
- D B05B 15/0233
- • • • {the cleaning element being located upstream of the discharge opening or being actuated upstream therefrom}
- <administratively transferred to [B05B 15/5225](#)>
- D B05B 15/0241
- • • {Means for increasing the cross section of a discharge orifice}
- <administratively transferred to [B05B 15/525](#)>
- D B05B 15/025
- • {Cleaning means involving the use of a cleaning fluid (B05B 15/0275 takes precedence)}
- <administratively transferred to [B05B 15/55](#)>
- D B05B 15/0258
- • • {discharged by cleaning nozzles (cleaning by the force of jets or sprays in general B08B 3/02)}
- WARNING
Not complete, see B05B 15/025
- <administratively transferred to [B05B 15/555](#)>
- D B05B 15/0266
- • • {the cleaning fluid being a mixture of gas and liquid}
- <administratively transferred to [B05B 15/557](#)>
- D B05B 15/0275
- • {the liquid or other fluent material flowing during cleaning operation through a discharge opening in a direction opposite to the spraying flow direction through said discharge opening}
- <administratively transferred to [B05B 15/531](#)>
- D B05B 15/0283
- • • {the discharge opening being reversed relative to a supply conduit located just upstream of the former}
- <administratively transferred to [B05B 15/534](#)>
- D B05B 15/0291
- • {by resilient deformation of the nozzle}
- <administratively transferred to [B05B 15/528](#)>
- D B05B 15/04
- Control of spray area, e.g. masking, side shields; Means for collection or re-use of excess material (B05B 1/28 takes precedence)
- <administratively transferred to [B05B 12/16](#)>
- D B05B 15/0406
- • {Means for collecting or recycling surplus material (B05B 15/1225 takes precedence)}
- <administratively transferred to [B05B 14/00](#)>
- D B05B 15/0412
- • • {the surplus material being particulate material}
- <administratively transferred to [B05B 14/10](#)>

- D B05B 15/0418 . . . {from a moving belt, e.g. a filtering belt or a conveying belt for the objects to be sprayed}
<administratively transferred to [B05B 14/20](#)>
- D B05B 15/0425 . . . {comprising an enclosure surrounding the spray, said enclosure having an open end contacting or being placed in close proximity to the surface to be sprayed, defining therewith a containment}
<administratively transferred to [B05B 14/30](#)>
- D B05B 15/0431 . . . {using a gas stream}
<administratively transferred to [B05B 12/18](#)>
- D B05B 15/0437 . . . {Shielding or masking elements being displaced relative to the sprayed area during spraying}
WARNING
Not complete, see B05B-15/04
<administratively transferred to [B05B 12/22](#)>
- D B05B 15/0443 . . . {Side shields, i.e. extending in a direction substantially parallel to the spray jet (B05B-15/0431, B05B-15/0437 take precedence)}
WARNING
Not complete, see B05B-15/04
<administratively transferred to [B05B 12/36](#)>
- D B05B 15/045 . . . {Masking elements (B05B-15/0487 takes precedence)}
<administratively transferred to [B05B 12/20](#)>
- D B05B 15/0456 . . . {made at least partly of soft flexible material, e.g. sheets or strips of paper, fabric or soft plastics}
<administratively transferred to [B05B 12/24](#)>
- D B05B 15/0462 . . . {for masking cavities}
<administratively transferred to [B05B 12/26](#)>
- D B05B 15/0468 {between a door and a post, e.g. foam strips}
<administratively transferred to [B05B 12/265](#)>
- D B05B 15/0475 . . . {generating border lines between coated and uncoated surfaces where one is not enclosed in the other (B05B-15/0456 takes precedence)}
<administratively transferred to [B05B 12/28](#)>
- D B05B 15/0481 . . . {being dimensionally adjustable}
<administratively transferred to [B05B 12/29](#)>
- D B05B 15/0487 . . . {for vehicle wheels}
<administratively transferred to [B05B 12/30](#)>
- D B05B 15/0493 . . . {Devices for making a normally hidden area accessible for the spray material}
<administratively transferred to [B05B 12/40](#)>
- D B05B 15/06 . . . Mountings, supporting or holding means, or rests for spray heads or other outlets (or for the whole spraying apparatus) when in use or out of use ((B05B-13/005, B05B-15/1225 take precedence))
<administratively transferred to [B05B 15/60](#)>
- D B05B 15/061 . . . {Supporting means, e.g. suction cups, handgrips, hooks for the discharge apparatus}
<administratively transferred to [B05B 15/62](#)>
- D B05B 15/062 . . . {of the ground-penetrating type}
<administratively transferred to [B05B 15/622](#)>
- D B05B 15/063 . . . {designed to lie on the ground}
<administratively transferred to [B05B 15/625](#)>
- D B05B 15/064 . . . {Supports of variable length; Actioning means mounted thereon}
<administratively transferred to [B05B 15/628](#)>

- D B05B 15/065
- • {Mounting arrangements for fluidically connecting the spray apparatus, spray heads or other outlets to a flow conduit (joints in general F16L 13/00 - F16L 37/00)}
- <administratively transferred to [B05B 15/65](#)>
- D B05B 15/066
- • • {allowing the orientation of the jet}
- <administratively transferred to [B05B 15/652](#)>
- D B05B 15/067
- • • • {using a universal joint type}
- <administratively transferred to [B05B 15/654](#)>
- D B05B 15/068
- • • {allowing changing the length of the flow conduit}
- <administratively transferred to [B05B 15/656](#)>
- D B05B 15/069
- • • {the axis of the spray apparatus, spray heads or other outlets being perpendicular to the flow conduit}
- <administratively transferred to [B05B 15/658](#)>
- D B05B 15/08
- • Means for adjusting position of spray heads {with indexing means provided therefor}
- <administratively transferred to [B05B 15/68](#)>
- D B05B 15/10
- Arrangements for moving spray heads automatically to or from the working position {(nozzles for cleaning vehicle windscreens or optical devices moved between a rest position and a working position B60S 1/528)}
- <administratively transferred to [B05B 15/70](#)>
- D B05B 15/12
- Spray booths
- <administratively transferred to [B05B 16/00](#)>
- D B05B 15/1203
- • {Spray tables, stands or hoods}
- <administratively transferred to [B05B 15/80](#)>
- D B05B 15/1207
- • {Arrangements of booths, e.g. plural booths, specially adapted for effecting several operations, e.g. spraying and drying, or several spraying actions}
- <administratively transferred to [B05B 16/20](#)>
- D B05B 15/1211
- • • {for both automatic and manual spraying}
- <administratively transferred to [B05B 16/25](#)>
- D B05B 15/1214
- • {characterised by their construction, e.g. floor, walls, ceiling (filtering ceilings for the air inlet B05B 15/1222)}
- <administratively transferred to [B05B 16/40](#)>
- D B05B 15/1218
- • • {Partly or totally cylindrical walls; Round floors}
- <administratively transferred to [B05B 16/405](#)>
- D B05B 15/1222
- • {characterised by their ventilation (B05B 15/1225 takes precedence)}
- <administratively transferred to [B05B 16/60](#)>
- D B05B 15/1225
- • {Arrangements for collecting, recovering, recycling or eliminating the surplus material}
- <administratively transferred to [B05B 14/40](#)>
- D B05B 15/1229
- • • {the surplus material being particulate material (B05B 15/1237 - B05B 15/1262 take precedence)}
- <administratively transferred to [B05B 14/48](#)>
- D B05B 15/1233
- • • {Recovering or eliminating solvents (B05B 15/1237 - B05B 15/1262 take precedence)}
- <administratively transferred to [B05B 14/49](#)>
- D B05B 15/1237
- • • {by cleaning the walls of the booth (filtering walls B05B 15/1248)}
- <administratively transferred to [B05B 14/41](#)>
- D B05B 15/124
- • • • {comprising perforated or porous walls cleaned or prevented from being contacted by oversprayed material by a flow of fluid, e.g. air or water, directed into the booth}
- <administratively transferred to [B05B 14/412](#)>

- D B05B 15/1244 . . . {using electrostatic means}
<administratively transferred to [B05B 14/42](#)>
- D B05B 15/1248 . . . {by filtering the exhaust air of the booth}
<administratively transferred to [B05B 14/43](#)>
- D B05B 15/1251 {Filters cleaned by a gas flow, e.g. a blast of air applied to the clean side of the filters}
<administratively transferred to [B05B 14/435](#)>
- D B05B 15/1255 {A special additive material being introduced in the exhaust flow upstream the filter for preventing clogging of the latter}
<administratively transferred to [B05B 14/437](#)>
- D B05B 15/1259 . . . {using special wall constructions, e.g. baffle plates promoting separation of the surplus material from the exhaust air of the booth}
<administratively transferred to [B05B 14/44](#)>
- D B05B 15/1262 . . . {by washing the exhaust air of the booth}
<administratively transferred to [B05B 14/46](#)>
- D B05B 15/1266 {Recovering or eliminating the paint sludge from the washing liquid}
<administratively transferred to [B05B 14/462](#)>
- D B05B 15/127 {by using ultrafiltration}
<administratively transferred to [B05B 14/463](#)>
- D B05B 15/1274 {the washing liquid being the liquid to be sprayed}
<administratively transferred to [B05B 14/469](#)>
- D B05B 15/1277 {Opened booths; Booths in which a liquid curtain or a substantially vertical wetted wall is located behind the object to be sprayed}
<administratively transferred to [B05B 14/465](#)>
- D B05B 15/1281 {Underfloor scrubbing means}
<administratively transferred to [B05B 14/468](#)>
- D B05B 15/1285 . . . {comprising a cyclone separator}
<administratively transferred to [B05B 14/45](#)>
- D B05B 15/1288 . . {comprising conveying means for moving objects or other work in and out of the booth, e.g. through the booth}
<administratively transferred to [B05B 16/90](#)>
- D B05B 15/1292 . . . {the objects or other work lying on, or being held above the conveying means, i.e. not hanging from the conveying means}
<administratively transferred to [B05B 16/95](#)>
- D B05B 15/1296 . . {Movable spray booths}
<administratively transferred to [B05B 16/80](#)>
- N B05B 15/14 . . Arrangements for preventing or controlling structural damage to spraying apparatus or its outlets, e.g. for breaking at desired places; Arrangements for handling or replacing damaged parts
- WARNING
Group [B05B 15/14](#) is incomplete pending reclassification of documents from group [B05B 15/00](#).
Groups [B05B 15/00](#) and [B05B 15/14](#) should be considered in order to perform a complete search.
- N B05B 15/16 . . for preventing non-intended contact between spray heads or nozzles and foreign bodies, e.g. nozzle guards
- N B05B 15/18 . . for improving resistance to wear, e.g. inserts or coatings; for indicating wear; for handling or replacing worn parts
- WARNING
Group [B05B 15/18](#) is incomplete pending reclassification of documents from group [B05B 15/00](#).

Groups [B05B 15/00](#) and [B05B 15/18](#) should be considered in order to perform a complete search.

- N [B05B 15/20](#) · Arrangements for agitating the material to be sprayed, e.g. for stirring, mixing or homogenising
- N [B05B 15/25](#) · · using moving elements, e.g. rotating blades
- N [B05B 15/30](#) · Dip tubes
- N [B05B 15/33](#) · · Weighted
- N [B05B 15/37](#) · · with decorative elements
- N [B05B 15/40](#) · Filters located upstream of the spraying outlets
- Q [B05B 15/50](#) · Arrangements for cleaning; Arrangements for preventing deposits, drying-out or blockage; Arrangements for detecting improper discharge caused by the presence of foreign matter

WARNING

Group [B05B 15/50](#) is impacted by reclassification into group [B05B 15/58](#). Groups [B05B 15/50](#) and [B05B 15/58](#) should be considered in order to perform a complete search.

- N [B05B 15/52](#) · · for removal of clogging particles
- N [B05B 15/522](#) · · · using cleaning elements penetrating the discharge openings
- N [B05B 15/5223](#) · · · · {the cleaning element, e.g. a needle, and the discharge opening being movable relative to each other in a direction substantially parallel to the flow of liquid or other fluent material through said opening}
- N [B05B 15/5225](#) · · · · · {the cleaning element being located upstream of the discharge opening or being actuated upstream therefrom}
- N [B05B 15/525](#) · · · by increasing the cross section of the discharge openings
- N [B05B 15/528](#) · · · by resilient deformation of the nozzle
- N [B05B 15/531](#) · · · using backflow
- N [B05B 15/534](#) · · · · by reversing the nozzle relative to the supply conduit
- N [B05B 15/55](#) · · using cleaning fluids
- N [B05B 15/555](#) · · · discharged by cleaning nozzles
- N [B05B 15/557](#) · · · {the cleaning fluid being a mixture of gas and liquid}
- N [B05B 15/58](#) · · preventing deposits, drying-out or blockage by recirculating the fluid to be sprayed from upstream of the discharge opening back to the supplying means {([B05B 1/3093](#) takes precedence)}

WARNING

Group [B05B 15/58](#) is incomplete pending reclassification of documents from group [B05B 15/50](#). Groups [B05B 15/50](#) and [B05B 15/58](#) should be considered in order to perform a complete search.

- Q [B05B 15/60](#) · Arrangements for mounting, supporting or holding spraying apparatus

WARNING

Group [B05B 15/60](#) is impacted by reclassification into group [B05B 15/63](#). Groups [B05B 15/60](#) and [B05B 15/63](#) should be considered in order to perform a complete search.

- N [B05B 15/62](#) · · Arrangements for supporting spraying apparatus, e.g. suction cups
- N [B05B 15/622](#) · · · ground-penetrating
- N [B05B 15/625](#) · · · designed to be placed on the ground
- N [B05B 15/628](#) · · · of variable length

- N B05B 15/63
- • Handgrips
- WARNING
Group [B05B 15/63](#) is incomplete pending reclassification of documents from group [B05B 15/60](#).
Groups [B05B 15/60](#) and [B05B 15/63](#) should be considered in order to perform a complete search.
- N B05B 15/65
- • Mounting arrangements for fluid connection of the spraying apparatus or its outlets to flow conduits
- N B05B 15/652
- • • whereby the jet can be oriented
- N B05B 15/654
- • • • using universal joints
- N B05B 15/656
- • • whereby the flow conduit length is changeable
- N B05B 15/658
- • • the spraying apparatus or its outlet axis being perpendicular to the flow conduit
- N B05B 15/68
- • Arrangements for adjusting the position of spray heads ([B05B 15/628](#), [B05B 15/652](#), [B05B 15/656](#) take precedence)
- Q B05B 15/70
- Arrangements for moving spray heads automatically to or from the working position
- WARNING
Group [B05B 15/70](#) is impacted by reclassification into groups [B05B 15/72](#) and [B05B 15/74](#).
Groups [B05B 15/70](#), [B05B 15/72](#), and [B05B 15/74](#) should be considered in order to perform a complete search.
- N B05B 15/72
- • using hydraulic or pneumatic means
- WARNING
Group [B05B 15/72](#) is incomplete pending reclassification of documents from group [B05B 15/70](#).
Groups [B05B 15/70](#) and [B05B 15/72](#) should be considered in order to perform a complete search.
- N B05B 15/74
- • • driven by the discharged fluid
- WARNING
Group [B05B 15/74](#) is incomplete pending reclassification of documents from group [B05B 15/70](#).
Groups [B05B 15/70](#) and [B05B 15/74](#) should be considered in order to perform a complete search.
- N B05B 15/80
- Arrangements in which the spray area is not enclosed, e.g. spray tables
- N B05B 16/00** **Spray booths (arrangements for collecting, re-using or eliminating excess spraying material in spray booths [B05B 14/40](#))**
- N B05B 16/20
- Arrangements for spraying in combination with other operations, e.g. drying; Arrangements enabling a combination of spraying operations
- N B05B 16/25
- • for both automatic and manual spraying
- N B05B 16/40
- Construction elements specially adapted therefor, e.g. floors, walls or ceilings (ceiling elements filtering inflow of air into the booth [B05B 16/60](#); walls specially adapted for promoting separation of excess material [B05B 14/44](#))
- N B05B 16/405
- • {Partly or totally cylindrical walls; Round floors}
- N B05B 16/60
- Ventilation arrangements specially adapted therefor
- N B05B 16/80
- Movable spray booths
- N B05B 16/90
- {comprising conveying means for moving objects or other work to be sprayed in and out of the booth, e.g. through the booth}

- N B05B 16/95 · · {the objects or other work to be sprayed lying on, or being held above the conveying means, i.e. not hanging from the conveying means}

Project: RP0487 (B05C)

- B05C 11/00 **Component parts, details or accessories not specifically provided for in groups [B05C 1/00](#) - [B05C 9/00](#) (means for manipulating or holding work [B05C 13/00](#); enclosures for apparatus, booths [B05C 15/00](#); spray booths ~~B05B 15/12~~[B05B 16/00](#))**
- M B05C 15/00 **Enclosures for apparatus; Booths (spray booths ~~B05B 15/12~~[B05B 16/00](#))**
- U B05C 21/00 **Accessories or implements for use in connection with applying liquids or other fluent materials to surfaces, not provided for in groups [B05C 1/00](#) - [B05C 19/00](#) (accessories or implements for use in connection with painting or artistic drawing and fully provided for in [B44D 3/02](#) - [B44D 3/38](#), see subgroups of [B44D 3/00](#))**
- B05C 21/005 · {Masking devices (stencils [B05C 17/06](#); masking devices for which the means for applying liquids or other fluent material is spraying or is not important ~~B05B 15/045~~[B05B 12/20](#))}

Project: RP0487 (B09B)**B09B****DISPOSAL OF SOLID WASTE**NOTES

1. This subclass covers only single or combined, e.g. multistage, operations not fully classifiable in a single other subclass
2. In this subclass the following terms or expressions are added with the meanings indicated :
 - "disposal" means the discarding, e.g. dumping, or destroying of waste or its transformation into something useful or harmless;
 - "solid waste" includes waste which, although it has liquid content, is for practical purposes handled as solid

3. Attention is drawn to the following places:

- [A23J 1/16](#) Obtaining proteins from waste water of starch manufacturing plants of like wastes
- [A23K 10/38](#) Animal feeding-stuffs from distillers' or brewers' waste
- [A23K 10/28](#) Animal feeding-stuffs from waste products of dairy
- [A23K 10/20](#) Animal feeding-stuffs from kitchen waste
- [A43B 1/12](#) Footwear made of rubber waste
- [A61L 11/00](#) Disinfection or sterilisation methods specially adapted for refuse
- [A62D 3/00](#) Chemical means for combatting harmful chemical agents; processes for making harmful chemical agents harmless
- [B01D 53/34](#) Chemical purification of smoke or fumes, e.g. flue gas
- [B02C 18/0084](#) Disintegrating by knives or other cutting or tearing members, which chop material into fragments, specially adapted for disintegrating garbage, waste or sewage
- [B03B 7/00](#) Combinations of wet processes or apparatus with other processes or apparatus, e.g. for dressing ores or garbage
- [B03B 9/06](#) General arrangement of separating plant, e.g. flow sheets, specially adapted for refuse
- ~~B05B 15/04~~
[B05B 12/16](#),
[B05B 12/32](#) Control of spray area of spraying plant, e.g. masking, side shields; Means for collection or re-use of excess material

B08B 15/00	Prevent escape of dirt or fumes from the area where they are produced; Collecting or removing dirt or fumes from that area
B23D 25/14	Machines or arrangements for shearing stock while the latter is travelling otherwise than in the direction of the cut without regard to the exact dimensions of the resulting material, e.g. for cutting up scrap
B27B 33/20	Edge trimming saw blades or tools combined with means to disintegrate waste
B29B 17/00	Recovery of plastics or other constituents of waste material containing plastics
B30B 9/32	Presses for consolidating scrap metal or for compacting used cars
B63B 17/06	Refuse discharge from vessels, e.g. for ash B63J 4/006 Arrangements of installation for treating waste water or sewage on vessels
B65F 1/00	Refuse receptacles
B65F 3/00	Vehicles particularly adapted for collecting refuse
B65F 5/00	Gathering or removal of refuse otherwise than by receptacles or vehicles
B65F 7/00	Cleaning or disinfecting devices combined with refuse receptacles or refuse vehicles
C03C 1/00	Ingredients generally applicable to manufacture of glasses, glazes or vitreous enamels
C04B 7/24	Hydraulic cements from oil shales, residues or waste other than slag
C04B 11/26	Calcium sulfate cements from phosphogypsum or from waste, e.g. purification products of smoke
C04B 18/04	Waste materials or refuse used as fillers for mortars, concrete, artificial stone or the like
C04B 22/0006	Waste inorganic materials used as active ingredients for mortars, concrete, artificial stone or the like
C04B 24/001	Waste organic materials used as active ingredients for mortars, concrete, artificial stone or the like
C05F 9/00	Fertilisers made from household or town refuse
C08J 11/00	Recovery of waste materials of macromolecular substances
C08L 17/00	Compositions of reclaimed rubber
C10B 53/00	Destructive distillation, specially adapted for particular solid raw materials or solid raw materials in special form
C10B 57/00	Other processes not covered before; Features of destructive distillation processes in general
C10G 1/10	Production of liquid hydrocarbon mixtures from rubber or rubber waste
C10L 5/46	Solid fuels essentially based on sewage, house or town refuse
C10L 5/48	Solid fuels essentially based on industrial residues and waste materials
C10M 175/02	Working-up used lubricants based on mineral oils
C11B 13/00	Recovery of fats, fatty oils, or fatty acids from waste materials
C11D 19/00	Recovery of glycerol from a saponification liquor
C12F 3/00	Recovery of by-products
C12F 3/08	Recovery of alcohol from press residues or other waste material

C12P 7/08	Biochemical production of ethanol from waste
C22B 7/00	Working-up raw materials other than ores, e.g. scrap, to produce non-ferrous metals or compounds thereof
C22B 19/28	Obtaining zinc or zinc oxide from muffle furnace residues
C22B 19/30	Obtaining zinc or zinc oxide from metallic residues or scrap
C22B 25/06	Obtaining tin from scrap
D01B	Mechanical treatment of natural fibrous or filamentary material to obtain fibres or filaments, e.g. for spinning
D01C 5/00	Carbonising rags to recover animal fibres
D01F 13/00	Recovery of starting material, waste material or solvents during the manufacture of artificial filaments or the like
D01G 11/00	Disintegrating fibre-containing articles to obtain fibres for re-use
D01H 11/00	Arrangements for confining or removing dust, fly, or the like
D06L 1/10	Regeneration of used chemical baths used for dry-cleaning or washing fibres, fabrics or the like
D21B 1/08	Dry treatment of waste paper or rags for making paper or for the production of cellulose
D21B 1/32	Defibrating waste paper
D21C 5/02	Processes for obtaining cellulose by working-up waste paper
D21C 11/14	Regeneration of pulp liquors by wet combustion
D21F 1/66	Re-use of pulp-water in wet end machines for making continuous webs of paper
D21H 17/01	Waste products added to the pulp or used in paper-impregnating material
E03F	Sewers, Cesspools
E04F 17/10	Arrangements in building for the disposal of refuse
F23B 5/00	Combustion apparatus arrangements for burning uncombusted material from primary combustion
F23G	Consuming waste products by combustion
F23J	Removal or treatment of combustion products or combustion residues
G03C 11/24	Removing emulsion from waste photographic material
H01B 15/00	Apparatus or processes for salvaging material from electric cables
H01M 6/52	Reclaiming serviceable parts of waste cells or batteries
H01M 10/54	Reclaiming serviceable parts of waste accumulators

Project: MP0387 (B29C)

M	B29C 31/00	Handling, e.g. feeding of the material to be shaped; {, storage of plastics material before moulding; Automation, i.e. automated handling lines in plastics processing plants, e.g. using manipulators or robots (discharging moulded articles from the mould B29C 37/0003; storage of prepregs or SMC after impregnation or during ageing B29C 70/54; baling of rubber B29B 15/02; in general B65G)}
M	B29C 31/04	• Feeding {of the material to be moulded}, e.g. into a mould cavity B29C 39/08 takes precedence; using a material distribution system to two or more fixed injection moulds B29C 45/125 ; to presses in general B30B 15/30 }
M	B29C 31/06	• • in measured doses; {, e.g. by weighting (feeding mixers with measured doses B01F 15/0216 , B01F 15/0454 , B29B 7/24 , B29B 7/603 ; in general G01F)}
U	B29C 33/00	Moulds or cores; Details thereof or accessories therefor

- M B29C 33/38 · characterised by the material or the manufacturing process ([B29C 33/44](#) takes precedence; ~~manufacture of moulds or parts thereof from metal B22, B23~~)
- M B29C 33/40 · · Plastics, e.g. foam, ~~or~~ rubber
- M B29C 33/42 · characterised by the shape of the moulding surface, e.g. ribs, ~~or~~ grooves
- M B29C 33/56 · Coatings {, e.g. ~~enamelled, enameled or~~ galvanised}; Releasing, lubricating or separating agents {(in-mould coating [B29C 37/0028](#); using or applying separating agents [B29C 37/0067](#))}
- M B29C 35/00** **Heating, cooling or curing, e.g. crosslinking, ~~or~~ vulcanising; Apparatus therefor (moulds with incorporated heating or cooling means [B29C 33/02](#) ~~{thermal after-treatment of shaped articles B29C 71/02}; {thermal after-treatment of shaped articles B29C 71/02}; curing devices for plastics dental prostheses [A61C 13/14](#); before moulding [B29B 13/00](#); ~~chemical aspects C08J 3/00~~)~~**
- M B29C 35/02 · Heating or curing, e.g. crosslinking, ~~vulcanising or vulcanizing~~ {during moulding, e.g. in a mould}(~~cold vulcanisation B29C 35/18; cold vulcanisation B29C 35/18~~ {; {vulcanising tyres, presses therefor [B29D 30/0601](#)})
- U B29C 37/00** **Component parts, details, accessories or auxiliary operations, not covered by group [B29C 33/00](#) or [B29C 35/00](#)**
- M B29C 37/02 · Deburring or deflashing {(by grinding or polishing [B24B](#) {; thermal deburring in general [B23D 79/005](#)})}
- M B29C 43/00** **Compression moulding, i.e. applying external pressure to flow the moulding material; Apparatus therefor {(by liberation of internal stresses [B29C 61/006](#)}; ~~shaping or impregnating by compression composites comprising reinforcements other than fibres of short length { B29C 70/12}; presses in general B30B by liberation of internal stresses [B29C 61/006](#)})~~**
- M 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 44/02 · for articles of definite length, i.e. discrete articles
- M B29C 44/12 · · Incorporating or moulding on preformed parts, e.g. inserts, ~~or~~ reinforcements
- 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.
- U 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.
- U B29C 44/36 · · Feeding the material to be shaped {([B29C 44/0492](#) takes precedence)}
- U B29C 44/38 · · · into a closed space, i.e. to make articles of definite length {([B29C 44/365](#) and [B29C 44/367](#) take precedence)}
- M B29C 44/42 · · · using pressure difference, e.g. by injection, ~~or~~ by vacuum

- 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 47/00
- Extrusion moulding, i.e. expressing the moulding material through a die or nozzle which imparts the desired form; Apparatus therefor (extrusion blow-moulding [B29C 49/04](#); ~~extrusion presses in general B30B 11/22~~)**
- U B29C 53/00
- Shaping by bending, folding, twisting, straightening or flattening; Apparatus therefor ([B29C 61/10](#) takes precedence)**
- M B29C 53/36
- Bending and joining, e.g. for making hollow articles ([B29C 53/56](#) takes precedence; ~~from paper B31C (-, B31F)~~)
- M B29C 57/00
- Shaping of tube ends, e.g. flanging, belling; **or** closing; Apparatus therefor {, e.g. collapsible mandrels}**
- U B29C 59/00
- Surface shaping {of articles}, e.g. embossing; Apparatus therefor {(in-mould printing [B29C 37/0025](#); by using liquids [B29C 71/0009](#); by using gases without chemical reaction [B29C 71/009](#); for decorating in general [B44](#); abrasive blasting [B24C](#); chemical aspects [C08J 7/00](#))}**
- M B29C 59/10
- by electric discharge treatment (~~electrodes H01T~~)
- M B29C 59/14
- **by plasma treatment {; by plasma treatment tubes per se H01J}**(in-general H05H {-; plasma tubes per se H01J})
- M B29C 65/00
- Joining {or sealing} of preformed parts; {, e.g. welding of plastics materials}; *Apparatus therefor {general aspects of processes or apparatus for joining preformed parts B29C 66/00; Apparatus therefor using porous material formed by internal pressure generated therein for joining preformed parts B29C 44/1228, B29C 44/326}*{(general aspects of processes or apparatus for joining preformed parts B29C 66/00; using porous material formed by internal pressure generated therein for joining preformed parts B29C 44/1228, B29C 44/326;)} for making boxes, cartons, envelopes or bags B31B; for sealing or securing package folds or closures B65B 51/00; joining constructional elements in general F16B; splicing of light guides G02B 6/255)**
- WARNING
Groups [B29C 65/00](#) - [B29C 65/70](#) are not complete, mainly for documents published before the year 1995, pending reclassification; see also [B29C 65/74](#) and its subgroups
- M B29C 65/48
- using adhesives {, i.e. using supplementary joining material}(~~heat-activated {to be additionally classified in} B29C 65/02 {and subgroups}; {applying molten plastics, e.g.} hot melts {to be additionally classified in} B29C 65/40; non-mechanical parts of adhesive processes, in general C09J 5/00~~); {solvent bonding}
- NOTE
When classifying in this group, heat-activated adhesives are further classified in group [B29C 65/02](#). When classifying in this group, applying molten plastics is further classified in group [B29C 65/40](#).

- M B29C 70/00** Shaping composites, i.e. plastics material comprising reinforcements, fillers or preformed parts, e.g. inserts (~~chemical aspects C08, e.g. C08J 5/00~~)
- NOTE
In this group, the following terms or expressions are used with the meanings indicated:
- "reinforcement" means a structure in the form of fibres, wires, rods, bars, sections, plates or blocks, which improves the strength of an article;
 - "filler" means a relatively inert substance in the form of particles, powder, beads, flakes or spheres, which improves the physical properties or increases the bulk or weight of an article;
 - "preformed part" means a part made of any material, being completely shaped to have a determined form and which is not used as a reinforcement, e.g. wires or nets forced only into the surface of an article;
 - "insert" means a preformed part incorporated in an article during moulding.
- U B29C 70/04 · comprising reinforcements only, e.g. self-reinforcing plastics
- U B29C 70/06 · · Fibrous reinforcements only
- U B29C 70/10 · · · characterised by the structure of fibrous reinforcements {, e.g. hollow fibres}
- U B29C 70/12 · · · · using fibres of short length, e.g. in the form of a mat {(non-woven fabrics per se [D04H 1/00](#))}
- M B29C 70/14 · · · · · oriented (~~oriented filler material B29C 70/62~~)
- U B29C 70/28 · · Shaping operations therefor

NOTES

1. This group covers:

- the shaping of a coherent fibrous reinforcements which are pre-impregnated or without binder; or of non-coherent reinforcements of fibres in a mould or on a support;
- the impregnation or introduction of a plastics matrix in reinforcements during shaping;

2. This group does not cover:

- the moulding by a single technique of plastics matrix material mixed with and containing reinforcing fibres of short length, which is covered by the appropriate place for that technique;
- the pretreatment, e.g. impregnation, of reinforcements *per se*, i.e. independently of their shaping, which is covered by group [B29B 15/08](#)

- U B29C 70/40 · · · Shaping or impregnating by compression ([B29C 70/34](#) takes precedence) {not applied}
- U B29C 70/42 · · · · for producing articles of definite length, i.e. discrete articles
- M B29C 70/44 · · · · · using isostatic pressure, e.g. pressure difference-*moulding*, vacuum bag-*moulding*, autoclave-*moulding* or expanding rubber-*moulding*
- M B29C 70/46 · · · · · using matched moulds, e.g. for deforming sheet moulding *compound compounds* [SMC]; *or* prepregs
- M B29C 70/48 · · · · · and impregnating the reinforcements in the closed mould, e.g. resin transfer moulding [RTM]; {, e.g. by vacuum}
- M B29C 70/50 · · · · for producing articles of indefinite length, e.g. prepregs, sheet moulding compounds [SMC]; *or* cross moulding compounds [XMC]
- M B29C 70/68 · by incorporating or moulding on preformed parts, e.g. inserts; *or* layers {, e.g. foam blocks (mould constructions therefor [B29C 33/12](#); joining preformed parts by moulding [B29C 65/70](#))}

NOTE

This group does not cover:

- incorporating, or moulding on, preformed parts by a single technique, which is covered by the appropriate place for that technique;
 - pretreatment of preformed parts per se, i.e. independently of their shaping, which is covered by group [B29B 15/00](#)
- M B29C 70/72
- Encapsulating inserts having non-encapsulated projections, e.g. extremities, or terminal portions of electrical components {([B29C 70/742](#) takes precedence)}
- M B29C 70/82
- Forcing ~~elongated elements~~, wires, nets or the like partially or completely in into the surface of an article, e.g. by cutting and pressing (~~pressing beads or the like in a surface B29C 70/64~~)
- M B29C 70/88
- characterised primarily by possessing specific properties, e.g. electrically conductive, or locally reinforced
- M B29C 71/00
- After-treatment of articles without altering their shape; Apparatus therefor ([B29C 44/56](#), [B29C 73/00](#) ~~takes take~~ precedence; surface shaping [B29C 59/00](#) {; {for joined or sealed parts [B29C 66/03](#); after-treatment specially adapted for vulcanising tyres [B29D 30/0633](#)}; ~~chemical aspects C08J 7/00~~)**
- M B29C 73/00
- Repairing of articles made from plastics or substances in a plastic state, e.g. of articles shaped or produced by using techniques covered by this subclass or subclass [B29D](#) (retreading tyres [B29D 30/54](#) {; {linings for tyres acting locally [B60C5/145](#)[B60C 5/142](#)};) ~~devices for covering leaks in pipes or hoses F16L 55/16~~; devices for covering leaks in pipes or hoses F16L 55/16)**
- M B29C 73/16
- Auto-repairing or self-sealing arrangements or agents (incorporating auto-repairing or self-sealing arrangements or agents on or into tyres [B29D 30/0685](#))(~~sealing compositions, see Section C, e.g. C09K 3/10 {; incorporating auto-repairing or self-sealing arrangements or agents on or into tyres B29D 30/0685~~)

Project: RP0495 (B60J)

- U B60J 5/00
- Doors ([B60J 10/00](#) takes precedence; window aspects [B60J 1/00](#) {; side board or tailgate structures for open load compartments [B62D 33/023](#))**
- B60J 5/04
- arranged at the vehicle sides {(panel mounted arm-rests [B60N 2/466](#)[B60N 2/78](#); wall liners [B60R 13/02](#); door edge guards [B60R 13/043](#); padded linings associated with the side doors [B60R 21/0428](#))}

Project: RP0495 (B60N)

- M B60N
- SEATS SPECIALLY ADAPTED FOR VEHICLES; VEHICLE PASSENGER ACCOMMODATION NOT OTHERWISE PROVIDED FOR (~~furniture construction A47~~)**
- NOTES
1. Attention is drawn to the Explanatory Note following the class title [B60](#)
 2. In this subclass the following term is used with the meaning indicated:
 - "cushion": seating part of a seat distinguished from the back-rest
- U B60N 2/00
- Seats specially adapted for vehicles (for facilitating access of invalids to, or exit of invalids from, vehicles [A61G 3/02](#); railway seats [B61D 33/00](#); cycle seats [B62J 1/00](#); aircraft seats [B64D 11/06](#), [B64D 25/04](#), [B64D 25/10](#))**
- M B60N 2/02
- the seat or part thereof being movable, e.g. adjustable (~~([B60N 2/427](#) takes precedence~~); adjustable arm-rests [B60N 2/46](#)[B60N 2/75](#); adjustable head-rests [B60N 2/48](#)[B60N 2/806](#))
- U B60N 2/24
- for particular purposes or particular vehicles

- M B60N 2/42
 - • the seat constructed to protect the occupant from the effect of abnormal g-forces, e.g. crash or safety seats (~~B60N 2/26, B60N 2/46, B60N 2/48 take precedence~~; ~~built-in air bags B60R 21/207~~ for protecting children [B60N 2/26](#); arm-rests [B60N 2/75](#); head-rests [B60N 2/888](#))
- U B60N 2/427
 - • • Seats or parts thereof displaced during a crash
- U B60N 2/42727
 - • • • {involving substantially rigid displacement}
- M B60N 2/42745
 - • • • • {of the back-rest ([B60N 2/433](#) takes precedence; higher part of the back-rest moving together with the headrest ~~B60N 2/4885~~ [B60N 2/888](#))}
- D B60N 2/44
 - Details or parts not otherwise provided for ({seats in general A47C 7/00; storage compartments mounted on or under a seat B60R 7/043})
<administratively transferred to [B60N 2/90](#)>
- D B60N 2002/4405
 - • {the head-rest or seat being used as an anchorage point, for an object not covered by groups in B60N, e.g. for a canvas}
<administratively transferred to [B60N 2002/905](#)>
- D B60N 2/441
 - • {Panels between front seats}
<administratively transferred to [B60N 2/91](#)>
- D B60N 2/4415
 - • {Hydro-pneumatic adjustments of the shape (for lumbar supports [B60N 2/665](#); for coach-like constructions [B60N 2/7082](#); arrangement or mounting of air bags in vehicle seats [B60R 21/207](#))}
<administratively transferred to [B60N 2/914](#)>
- D B60N 2/442
 - • {Positioning and locking mechanisms ([B60N 2/16](#), [B60N 2/18](#), [B60N 2/22](#), [B60N 2/225](#) take precedence)}
<administratively transferred to [B60N 2/919](#)>
- D B60N 2002/4425
 - • • {using electric or hydraulic energy}
<administratively transferred to [B60N 2002/924](#)>
- D B60N 2/443
 - • • {linear}
<administratively transferred to [B60N 2/929](#)>
- D B60N 2/4435
 - • • {rotatable}
<administratively transferred to [B60N 2/933](#)>
- D B60N 2/444
 - • • • {and provided with braking systems}
<administratively transferred to [B60N 2/938](#)>
- D B60N 2/4445
 - • • • {Stepwise movement mechanisms, e.g. ratchets (ratchets in general G05G 7/06)}
<administratively transferred to [B60N 2/943](#)>
- D B60N 2002/445
 - • • {the actuation of the positioning or locking mechanism for one seat part being dependent on the position of another seat part, e.g. the seats floor lock being unlocked when the back-rest is inclined or the backrest can be tilted only when the seat is in its rear position}
<administratively transferred to [B60N 2002/948](#)>
- D B60N 2002/4455
 - • • {characterised by details of the locking system}
<administratively transferred to [B60N 2002/952](#)>
- D B60N 2002/446
 - • • • {the locking system prevents an abnormal or wrong mounting situation, i.e. deployment or functioning of a seat part being prevented if the seat or seat part is not properly mounted}
<administratively transferred to [B60N 2002/957](#)>
- D B60N 2002/4465
 - • • • • {the locking system disabling tilting of the back-rest to the vertical position, when the seat is not properly installed}
<administratively transferred to [B60N 2002/962](#)>
- D B60N 2002/447
 - • • • • {the locking system prevents tilt of whole seat by retaining and locking the seat in a vertical storage position}
<administratively transferred to [B60N 2002/967](#)>

- D B60N 2002/4475 {the locking system being an element distinct from articulation means, retaining the seat or seat part in its folded position, e.g. controlled by a wire}
<administratively transferred to [B60N 2002/971](#)>
- D B60N 2/448 . . {massaging systems (massaging systems in general A61H 1/00)}
<administratively transferred to [B60N 2/976](#)>
- D B60N 2002/4485 . . {Warning systems, e.g. the seat or seat parts vibrates to warn the passenger when facing a danger}
<administratively transferred to [B60N 2002/981](#)>
- D B60N 2/449 . . {Side-rests (B60N 2/2872, B60N 2/4882 take precedence)}
<administratively transferred to [B60N 2/986](#)>
- D B60N 2/4492 . . . {adjustable}
WARNING
Group B60N 2/4492 is incomplete pending reclassification of documents from group B60N 2/449.
Groups B60N 2/449 and B60N 2/4492 should be considered in order to perform a complete search.
<administratively transferred to [B60N 2/99](#)>
- D B60N 2/4495 . . {Lower leg-rests, e.g. calf-rests}
<administratively transferred to [B60N 2/995](#)>
- D B60N 2/46 . . Arm-rests
<administratively transferred to [B60N 2/75](#)>
- D B60N 2/4606 . . . {movable to an inoperative position}
<administratively transferred to [B60N 2/753](#)>
- D B60N 2/4613 {in a recess of the back-rest}
<administratively transferred to [B60N 2/757](#)>
- D B60N 2/462 {in a recess of the cushion}
<administratively transferred to [B60N 2/76](#)>
- D B60N 2/4626 . . . {adjustable}
<administratively transferred to [B60N 2/763](#)>
- D B60N 2/4633 {Angle adjustment}
<administratively transferred to [B60N 2/767](#)>
- D B60N 2/464 {Height adjustment}
<administratively transferred to [B60N 2/77](#)>
- D B60N 2/4646 {Longitudinal adjustment}
<administratively transferred to [B60N 2/773](#)>
- D B60N 2/4653 {Transversal adjustment}
<administratively transferred to [B60N 2/777](#)>
- D B60N 2/466 . . . {post or panel mounted}
<administratively transferred to [B60N 2/78](#)>
- D B60N 2/4666 {sill suspended, e.g. window sill}
<administratively transferred to [B60N 2/783](#)>
- D B60N 2/4673 . . . {detachable}
<administratively transferred to [B60N 2/787](#)>
- D B60N 2/468 . . . {Adaptations for additional use of the arm-rests}
<administratively transferred to [B60N 2/79](#)>
- D B60N 2/4686 {for use as storage compartments}
<administratively transferred to [B60N 2/793](#)>
- D B60N 2/4693 {for use as electrical control means, e.g. switches}
<administratively transferred to [B60N 2/797](#)>

- D B60N 2/48 . . Head-rests ~~{(B60N 2/2851 takes precedence)}~~
 <administratively transferred to [B60N 2/80](#)>
- D B60N 2/4802 . . . ~~{fixed (B60N 2/487 and B60N 2/4876 take precedence)}~~
 <administratively transferred to [B60N 2/803](#)>
- D B60N 2/4805 . . . ~~{movable or adjustable (B60N 2/4876 takes precedence)}~~
 <administratively transferred to [B60N 2/806](#)>
- D B60N 2/4808 ~~{slidable (B60N 2/4864, B60N 2/4867 take precedence)}~~
 <administratively transferred to [B60N 2/809](#)>
- D B60N 2/4811 ~~{characterised by the locking device}~~
 <administratively transferred to [B60N 2/812](#)>
- D B60N 2/4814 ~~{Release mechanism, e.g. buttons}~~
 <administratively transferred to [B60N 2/815](#)>
- D B60N 2/4817 ~~{Stepwise positioning}~~
 <administratively transferred to [B60N 2/818](#)>
- D B60N 2/482 ~~{Continuous positioning}~~
 <administratively transferred to [B60N 2/821](#)>
- D B60N 2/4823 ~~{using springs}~~
 <administratively transferred to [B60N 2/824](#)>
- D B60N 2/4826 ~~{using elastic materials}~~
 <administratively transferred to [B60N 2/826](#)>
- D B60N 2/4829 ~~{characterised by adjusting mechanism, e.g. electric motors}~~
 <administratively transferred to [B60N 2/829](#)>
- D B60N 2/4832 ~~{movable to an inoperative position}~~
 <administratively transferred to [B60N 2/832](#)>
- D B60N 2/4835 ~~{for rear seats}~~
 <administratively transferred to [B60N 2/835](#)>
- D B60N 2/4838 ~~{tiltable}~~
 <administratively transferred to [B60N 2/838](#)>
- D B60N 2/4841 ~~{characterised by the locking device}~~
 <administratively transferred to [B60N 2/841](#)>
- D B60N 2/4844 ~~{Release mechanism, e.g. buttons}~~
 <administratively transferred to [B60N 2/844](#)>
- D B60N 2/4847 ~~{Stepwise positioning}~~
 <administratively transferred to [B60N 2/847](#)>
- D B60N 2/485 ~~{Continuous positioning}~~
 <administratively transferred to [B60N 2/85](#)>
- D B60N 2/4852 ~~{characterised by the adjusting mechanism, e.g. electric motors}~~
 <administratively transferred to [B60N 2/853](#)>
- D B60N 2/4855 ~~{movable to an inoperative position}~~
 <administratively transferred to [B60N 2/856](#)>
- D B60N 2/4858 ~~{for rear seats}~~
 <administratively transferred to [B60N 2/859](#)>
- D B60N 2/4861 ~~{provided with attitude keeping devices, e.g. parallelogram mechanism}~~
 <administratively transferred to [B60N 2/862](#)>
- D B60N 2/4864 ~~{longitudinally movable}~~
 <administratively transferred to [B60N 2/865](#)>
- D B60N 2/4867 ~~{transversally movable}~~
 <administratively transferred to [B60N 2/868](#)>
- D B60N 2/487 . . . ~~{movable to an inoperative position (B60N 2/4832, B60N 2/4855 take precedence)}~~
 <administratively transferred to [B60N 2/874](#)>

- D B60N 2/4873 . . . {for rear seats (B60N 2/4835, B60N 2/4858 take precedence)}
<administratively transferred to [B60N 2/876](#)>
- D B60N 2/4876 . . . {with diverse use, e.g. loud-speakers, magnetic devices, heating or cooling devices (roll-over protection B60R 21/13)}
<administratively transferred to [B60N 2/879](#)>
- D B60N 2/4879 . . . {detachable}
<administratively transferred to [B60N 2/882](#)>
- D B60N 2/4882 . . . {provided with side rests}
<administratively transferred to [B60N 2/885](#)>
- D B60N 2/4885 . . . {with protection systems against abnormal g-forces, e.g. the headrest or the higher part of the back-rest displacing}
<administratively transferred to [B60N 2/888](#)>
- D B60N 2002/4888 . . . {characterised by other structural or mechanical details}
<administratively transferred to [B60N 2002/899](#)>
- D B60N 2002/4891 . . . {the head-rest being in the shape of a comma}
<administratively transferred to [B60N 2/891](#)>
- D B60N 2002/4894 . . . {rods solidly attached to the backrest}
<administratively transferred to [B60N 2/894](#)>
- D B60N 2002/4897 . . . {characterised by details of guide sleeves guiding the rods of the head-rest}
<administratively transferred to [B60N 2/897](#)>
- M B60N 2/50 . . . {Seat suspension devices}
- M B60N 2/501 . . . {actively controlled suspension, e.g. electronic control}
- M B60N 2/502 . . . {attached to the base of the seat ([B60N 2/504](#) takes precedence)}
- M B60N 2/503 . . . {attached to the backrest ([B60N 2/504](#) takes precedence)}
- M B60N 2/504 . . . {attached to the base and the backrest}
- M B60N 2/505 . . . {Adjustable suspension including height adjustment}
- M B60N 2/506 . . . {Seat guided by rods}
- M B60N 2/507 . . . {Parallelogram-like structure}
- M B60N 2/508 . . . {Scissors-like structure}
- M B60N 2/509 . . . {Seat guided by slides or the like}
- M B60N 2/52 . . . using fluid means
- M B60N 2/522 . . . {characterised by dampening means}
- M B60N 2/525 . . . {using gas}
- M B60N 2/527 . . . {using liquids}
- M B60N 2/54 . . . using mechanical springs ~~{(springs in general F16F)}~~
- M B60N 2/542 . . . {made of rubber or other material having high internal friction, e.g. polymers}
- M B60N 2/544 . . . {Compression or tension springs ([B60N 2/542](#) takes precedence)}
- M B60N 2/546 . . . {Leaf- or flexion springs}
- M B60N 2/548 . . . {Torsion springs, e.g. torsion helicoidal springs}
- M B60N 2/56 . . . Heating or ventilating devices ~~{(heating, cooling, ventilating or other air-treating in vehicles in general B60H 1/00; control of temperature in general G05D 23/00; ventilation, heating or cooling of chairs in general A47C 7/74)}~~
- M B60N 2/5607 . . . {characterised by convection}
- M B60N 2/5614 . . . {by liquid}
- M B60N 2/5621 . . . {by air}

- M B60N 2/5628 ▫ {coming from the vehicle ventilation system, e.g. air-conditioning system}
- M B60N 2/5635 ▫ {coming from the passenger compartment}
- M B60N 2/5642 ▫ {with circulation of air through a layer inside the seat}
- M B60N 2/565 ▫ {sucked from the seat surface}
- M B60N 2/5657 ▫ {blown towards the seat surface}
- M B60N 2/5664 ▫ {with unforced air circulation, i.e. not using a fan or the like}
- M B60N 2/5671 ▫ {forming a windbreak, e.g. warm air blown on the neck of the passenger of an open vehicle}
- M B60N 2/5678 . . ▫ {characterised by electrical systems}
- M B60N 2/5685 . . . ▫ {Resistance}
- M B60N 2/5692 . . . ▫ {Refrigerating means}
- M B60N 2/58 . . ▫ Seat coverings
- M B60N 2002/5808 . . ▫ {comprising opening zones for airbags}
- M B60N 2/5816 . . ▫ {attachments thereof}
- M B60N 2/5825 . . . ▫ {by hooks, staples, clips, snap fasteners or the like}
- M B60N 2/5833 . . . ▫ {by hook-and-loop type fasteners}
- M B60N 2/5841 . . . ▫ {by clamping means}
- M B60N 2/585 . . . ▫ {by buckle passages}
- M B60N 2/5858 . . . ▫ {by elastic means}
- M B60N 2/5866 . . . ▫ {by thermal welding}
- M B60N 2/5875 . . . ▫ {by adhesion, e.g. gluing}
- M B60N 2/5883 . . . ▫ {by sewing, stitching or threading}
- M B60N 2/5891 . . ▫ {Manufacturing methods specially adapted therefor ~~(manufacturing of seat covers in general A47C 3/00)~~}
- M B60N 2/60 . . ▫ Removable protective coverings
- M B60N 2/6009 . . . ▫ {covering more than only the seat}
- M B60N 2/6018 . . . ▫ {attachments thereof}
- M B60N 2/6027 ▫ {by hooks, staples, clips, snap fasteners or the like}
- M B60N 2/6036 ▫ {by hook and loop-type fasteners}
- M B60N 2/6045 ▫ {by clamping means}
- M B60N 2/6054 ▫ {by buckle passages}
- M B60N 2/6063 ▫ {by elastic means}
- M B60N 2/6072 ▫ {by thermal welding}
- M B60N 2/6081 ▫ {by adhesion, e.g. glueing}
- M B60N 2/609 ▫ {by sewing, stitching or threading}
- M B60N 2/62 . . ▫ Thigh-rests {(B60N 2/4415 B60N 2/914 takes precedence)}
- M B60N 2/64 . . ▫ Back-rests {or cushions (B60N 2/2222 takes precedence)}
- M B60N 2/643 . . . ▫ {shape of the back-rests (B60N 2/66 takes precedence)}
- M B60N 2/646 . . . ▫ {shape of the cushion}
- M B60N 2/66 . . ▫ Lumbar supports
- M B60N 2/663 . . . ▫ {portable with attachment to the back-rest}

WARNING

Group [B60N 2/663](#) is incomplete pending reclassification of documents from group [B60N 2/66](#).

Groups [B60N 2/66](#) and [B60N 2/663](#) should be considered in order to perform a complete search.

- M B60N 2/665
 - • • ▾ {using inflatable bladders}
 - WARNING
 - Group [B60N 2/665](#) is incomplete pending reclassification of documents from groups [B60N 2/66](#).
 - Groups [B60N 2/66](#) and [B60N 2/665](#) should be considered in order to perform a complete search.

- M B60N 2/666
 - • • ▾ {vertically adjustable}
 - WARNING
 - Group [B60N 2/666](#) is incomplete pending reclassification of documents from groups [B60N 2/66](#).
 - Groups [B60N 2/66](#) and [B60N 2/666](#) should be considered in order to perform a complete search.

- M B60N 2/667
 - • • ▾ {having flexible support member bowed by applied forces}
- M B60N 2/6671
 - • • ▾ {with cable actuators}
 - WARNING
 - Group [B60N 2/6671](#) is/are incomplete pending reclassification of documents from group [B60N 2/66](#).
 - Groups [B60N 2/66](#) and [B60N 2/6671](#) should be considered in order to perform a complete search.

- M B60N 2/6673
 - • • ▾ {with motor driven adjustments}
 - WARNING
 - Group [B60N 2/6673](#) is incomplete pending reclassification of documents from group [B60N 2/66](#)
 - Groups [B60N 2/66](#) and [B60N 2/6673](#) should be considered in order to perform a complete search.

- M B60N 2/68
 - ▾ Seat frames, ~~e.g. for the back-rest~~ {, ~~e.g. reinforced frames~~}
- M B60N 2/682
 - • ▾ {Joining means}
- M B60N 2002/684
 - • • ▾ {the back rest being mounted or joined with an easy attachment system to the seat}
- M B60N 2/686
 - • ▾ {Panel like structures}
- M B60N 2/688
 - • ▾ {Particular seat belt attachment and guiding}
- M B60N 2/70
 - ▾ {Upholstery, ~~e.g. upholstery springs~~ *springs* {; *Upholstery*}
- M B60N 2/7005
 - • ▾ {detachable}
- M B60N 2/7011
 - • ▾ {of substantially two-dimensional shape, e.g. hammock-like, plastic shells, fabrics}
- M B60N 2/7017
 - • ▾ {Manufacturing methods specially adapted therefor ~~{manufacturing of seat upholstery in general A47C 7/00, shaping of substances in a plastic state in general B29C}~~}
- M B60N 2/7023
 - • ▾ {Coach-like constructions}
- M B60N 2/7029
 - • • ▾ {back-rests}
- M B60N 2/7035
 - • • ▾ {Cushions}
- M B60N 2/7041
 - • • • ▾ {Fixation of covers and springs}
- M B60N 2/7047
 - • • • ▾ {Springs}
- M B60N 2/7052
 - • • • ▾ {Springs using a combination of metal and rubber}
- M B60N 2/7058
 - • • • ▾ {Metallic springs}

- M B60N 2/7064 {helicoidal}
- M B60N 2/707 {with rubber blocks}
- M B60N 2/7076 {with rubber bands}
- M B60N 2/7082 {with air or fluid cushions ([B60N 2/4415](#)[B60N 2/914](#) takes precedence)}
- M B60N 2/7088 {with valves ([B60N 2/4415](#)[B60N 2/914](#) takes precedence)}
- M B60N 2/7094 . . . {Upholstery springs}
- M B60N 2/72 . . . Attachment or adjustment thereof
- N B60N 2/75 . Arm-rests
- N B60N 2/753 . . {movable to an inoperative position}
- N B60N 2/757 . . . {in a recess of the back-rest}
- N B60N 2/76 . . . {in a recess of the cushion}
- N B60N 2/763 . . {adjustable}
- N B60N 2/767 . . . {Angle adjustment}
- N B60N 2/77 . . . {Height adjustment}
- N B60N 2/773 . . . {Longitudinal adjustment}
- N B60N 2/777 . . . {Transversal adjustment}
- N B60N 2/78 . . . {post or panel mounted}
- N B60N 2/783 . . . {sill suspended, e.g. window sill}
- N B60N 2/787 . . {detachable}
- N B60N 2/79 . . . {Adaptations for additional use of the arm-rests}
- N B60N 2/793 . . . {for use as storage compartments}
- N B60N 2/797 . . . {for use as electrical control means, e.g. switches}
- N B60N 2/80 . Head-rests
- N B60N 2/803 . . fixed

WARNING

Group [B60N 2/803](#) is incomplete pending reclassification of documents from group [B60N 2/879](#).

Groups [B60N 2/879](#) and [B60N 2/803](#) should be considered in order to perform a complete search.

- N B60N 2/806 . . . movable or adjustable

WARNING

Group [B60N 2/806](#) is incomplete pending reclassification of documents from group [B60N 2/879](#).

Groups [B60N 2/879](#) and [B60N 2/806](#) should be considered in order to perform a complete search.

- N B60N 2/809 . . . vertically slidable
- N B60N 2/812 characterised by their locking devices
- N B60N 2/815 Release mechanisms, e.g. buttons
- N B60N 2/818 with stepwise positioning
- N B60N 2/821 with continuous positioning
- N B60N 2/824 using springs
- N B60N 2/826 using rubber-type material
- N B60N 2/829 characterised by their adjusting mechanisms, e.g. electric motors
- N B60N 2/832 movable to an inoperative or stowed position

- N B60N 2/835 specially adapted for rear seats
- N B60N 2/838 . . . Tilttable
- N B60N 2/841 characterised by their locking devices
- N B60N 2/844 Release mechanisms, e.g. buttons
- N B60N 2/847 with stepwise positioning
- N B60N 2/85 with continuous positioning
- N B60N 2/853 characterised by their adjusting mechanisms, e.g. electric motors
- N B60N 2/856 movable to an inoperative or stowed position
- N B60N 2/859 specially adapted for rear seats
- N B60N 2/862 with means for maintaining a desired position when the seat-back is adjusted, e.g. parallelogram mechanisms
- N B60N 2/865 . . . providing a fore-and-aft movement with respect to the occupant's head
- N B60N 2/868 . . . providing a lateral movement parallel to the occupant's shoulder line
- N B60N 2/874 . . . movable to an inoperative or stowed position ([B60N 2/832](#), [B60N 2/856](#) take precedence)
- N B60N 2/876 specially adapted for rear seats ([B60N 2/835](#), [B60N 2/859](#) take precedence)
- Q B60N 2/879 . . with additional features not related to head-rest positioning, e.g. heating or cooling devices or loudspeakers
- WARNING
Group [B60N 2/879](#) is impacted by reclassification into groups [B60N 2/803](#) and [B60N 2/806](#).
Groups [B60N 2/879](#), [B60N 2/803](#) and [B60N 2/806](#) should be considered in order to perform a complete search.
- N B60N 2/882 . . detachable
- N B60N 2/885 . . provided with side-rests
- N B60N 2/888 . . with arrangements for protecting against abnormal g-forces, e.g. by displacement of the head-rest
- N B60N 2/891 . . with the head-rest being comma-shaped in side view
- N B60N 2/894 . . with rods solidly attached to the back-rest
- N B60N 2/897 . . with sleeves located in the back-rest for guiding the rods of the head-rest
- N B60N 2002/899 . . {characterised by structural or mechanical details not otherwise provided for}
- N B60N 2/90 . . Details or parts not otherwise provided for
- N B60N 2002/905 . . {the head-rest or seat used as an anchorage point, for an object not covered by groups in [B60N](#), e.g. for a canvas}
- N B60N 2/91 . . {Panels between front seats}
- N B60N 2/914 . . {Hydro-pneumatic adjustments of the shape}
- N B60N 2/919 . . {Positioning and locking mechanisms ([B60N 2/16](#), [B60N 2/18](#), [B60N 2/22](#), [B60N 2/225](#) take precedence)}
- N B60N 2002/924 . . . {using electric or hydraulic energy}
- N B60N 2/929 . . . {linear}
- N B60N 2/933 . . . {rotatable}
- N B60N 2/938 {and provided with braking systems}
- N B60N 2/943 {Stepwise movement mechanisms, e.g. ratchets}

- N B60N 2002/948 . . . {the actuation of the positioning or locking mechanism for one seat part being dependent on the position of another seat part, e.g. the seats floor lock being unlocked when the back-rest is inclined or the backrest can be tilted only when the seat is in its rear position}
- N B60N 2002/952 . . . {characterised by details of the locking system}
- N B60N 2002/957 {the locking system prevents an abnormal or wrong mounting situation, i.e. deployment or functioning of a seat part being prevented if the seat or seat part is not properly mounted}
- N B60N 2002/962 {the locking system disabling tilting of the back-rest to the vertical position, when the seat is not properly installed}
- N B60N 2002/967 {the locking system prevents tilt of whole seat by retaining and locking the seat in a vertical storage position}
- N B60N 2002/971 {the locking system being an element distinct from articulation means, retaining the seat or seat part in its folded position, e.g. controlled by a wire}
- N B60N 2/976 . . {massaging systems}
- N B60N 2002/981 . . {Warning systems, e.g. the seat or seat parts vibrates to warn the passenger when facing a danger}
- N B60N 2/986 . . {Side-rests ([B60N 2/2872](#), [B60N 2/885](#) take precedence)}
- N B60N 2/99 . . . {adjustable}
- N B60N 2/995 . . {Lower-leg-rests, e.g. calf-rests}
- U B60N 3/00 Arrangements or adaptations of other passenger fittings, not otherwise provided for (of radio sets, television sets, telephones, {stowing or holding appliances} , safety belts or the like [B60R](#))**
- M B60N 3/12 . of receptacles for cigarettes or the like ({~~[B60N 2/4686](#)[B60N 2/793](#) takes precedence~~}; ~~receptacles for cigarettes or the like A24F~~}; ~~receptacles for cigarettes or the like A24F~~)

Project: RP0483 (B60Q)

- U B60Q 1/00 Arrangements or adaptations of optical signalling or lighting devices (for lighting vehicle interior [B60Q 3/00](#); {circuit arrangements for electric light sources in general [H05B 37/00](#)})**
- U B60Q 1/02 . the devices being primarily intended to illuminate the way ahead or to illuminate other areas of way or environments
- U B60Q 1/04 . . the devices being headlights
- B60Q 1/06 . . . adjustable, e.g. remotely controlled from inside vehicle ([B60Q 1/05](#) takes precedence {~~changing the characteristics or distribution of the light by adjustment of parts, e.g. reflectors, light sources, lenses, screens [F21V 14/00](#)~~; ~~controlling the distribution of the light emitted by adjustment of elements [F21V 14/00](#)~~)

Project: N/A (B60Q)

- U B60Q 1/18 . . . being additional front lights {(bracket mounted headlights [B60Q 1/0483](#))}
- B60Q 1/20 Fog lights ~~{(single shaped beam lighting devices specially adapted for vehicles for penetrating fog or preventing glare)}~~
- B60Q 1/26 . the devices being primarily intended to indicate the vehicle, or parts thereof, or to give signals, to other traffic ~~{(such devices mounted on the vehicle rear part; means for the lighting or illuminating of aerials, e.g. for purpose of warning [H01Q 1/06](#))}~~

Project: RP0495 (B60R)

- U B60R 21/00 Arrangements or fittings on vehicles for protecting or preventing injuries to occupants or pedestrians in case of accidents or other traffic risks (safety belts or body harnesses in vehicles [B60R 22/00](#); devices, apparatus or methods for life-saving in general [A62B](#); safety devices for propulsion unit control specially adapted for, or arranged in, vehicles [B60K 28/00](#); seats constructed to protect the occupant from the effect of abnormal g-forces, e.g. crash or safety seats, [B60N 2/42](#); energy-absorbing arrangements for hand wheels for steering vehicles [B62D 1/11](#); energy-absorbing arrangements for vehicle steering columns [B62D 1/19](#); harnessing in aircraft [B64D 25/00](#))
- U B60R 21/02 · Occupant safety arrangements or fittings {, e.g. crash pads (seat belts with crash pads [B60R 22/14](#); removable children's seats having a front guard or barrier [B60N 2/2839](#))}
- B60R 21/055 · · Padded {or energy-absorbing} fittings; {, e.g. seat belt anchors (sun visors [B60J 3/00](#); head rests [B60N 2/48](#)[B60N 2/80](#))}

Project: N/A (B61L)

- U B61L 5/00 **Local operating mechanisms for points or track-mounted scotch-blocks (track-mounted scotch-blocks per se [B61K](#)); Visible or audible signals; Local operating mechanisms for visible or audible signals ([B61L 11/00](#) takes precedence)**
- U B61L 5/12 · Visible signals {(signalling means on the vehicle [B61L 15/00](#); signalling means for classification yards, or the like, with multiple indicating means [B61L 17/023](#); signalling means for road crossings [B61L 29/24](#); lighting in general [F21](#); visible signalling arrangements in general [G08B 5/00](#))}
- U B61L 5/18 · · Light signals; Mechanisms associated therewith, e.g. blinders
- U B61L 5/1809 · · · {Daylight signals}
- B61L 5/1854 · · · · {Mounting and focussing of the light source in a lamp, fixing means (~~focussing of the light source in reflecting mirrors~~)}

Project: RP0487 (B65D)

- U B65D 83/00 **Containers or packages with special means for dispensing contents (dispensing means incorporated in removable or non-permanently secured container closures [B65D 47/00](#); for shops, stores, offices, bars, or the like [A47F 1/04](#); showcases or show cabinets with dispensing arrangements [A47F 3/02](#); magazines for screws or nuts in combination with spanners, wrenches or screwdrivers [B25B 23/06](#); for use in connection with the handling of sheets, webs, or filamentary material [B65H](#))**
- U B65D 83/14 · for delivery of liquid or semi-liquid contents by internal gaseous pressure, i.e. aerosol containers comprising propellant {for a product delivered by a propellant (spraying devices for the destruction of noxious animals or plants [A01M 7/00](#), for therapeutic purposes [A61M 11/00](#); vessels for containing or storing compressed, liquefied, or solidified gases [F17C](#))}
- U B65D 83/75 · · {Aerosol containers not provided for in groups [B65D 83/16](#) - [B65D 83/74](#)}
- B65D 83/754 · · · {comprising filters in the fluid flow path (filters specially adapted for spraying plants or apparatus ~~B05B 15/008~~[B05B 15/40](#))}

Project: RP0485 (C05F)

- U C05F 11/00 **Other organic fertilisers**
- U C05F 11/02 · from peat, brown coal, and similar vegetable deposits

- C C05F 11/04 · Horticultural earth ("~~Gärtnerische Erden~~") from peat (*growth substrates containing peat A01G 24/28*)

WARNING

Group C05F 11/04 is impacted by reclassification into group A01G 24/28. Groups C05F 11/04 and A01G 24/28 should be considered in order to perform a complete search.

Project: RP0485 (C12N)

- U C12N 1/00 **Microorganisms, e.g. protozoa; Compositions thereof (medicinal preparations containing material from microorganisms A61K 35/66; preparing medicinal bacterial antigen or antibody compositions, e.g. bacterial vaccines A61K 39/00); Processes of propagating, maintaining or preserving microorganisms or compositions thereof; Processes of preparing or isolating a composition containing a microorganism; Culture media therefor**
- M C12N 1/14 · Fungi (culture of mushrooms ~~A01G 1/04~~A01G 18/00; as new plants per se A01H 15/00 {; {fungi per se C12R 1/645 - C12R 1/885})~~Culture media therefor;~~ *Culture media therefor*

Project: RP0485 (E01C)

- U E01C 19/00 **Machines, tools or auxiliary devices for preparing or distributing paving materials, for working the placed materials, or for forming, consolidating, or finishing the paving (surface stabilisation E01C 21/00; apparatus specially adapted for reconditioning or repairing paving E01C 23/00)**
- U E01C 19/22 · for consolidating or finishing laid-down unset materials ({E01C 19/002, E01C 19/48, E01C 21/00} E01C 23/02 {E01C 23/065} take precedence; apparatus for generating vibrations in general B06B)
- M E01C 19/23 · Rollers therefor; Such rollers usable also for compacting soil ({E01C 19/41, -} E01C 19/43, {E01C 19/52, E01C 23/065} take precedence; specially adapted for agricultural purposes A01B 29/00; garden rollers ~~A01G 1/12~~A01G 20/35; making or maintaining surfaces of snow or ice E01H 4/00; solely for soil compaction E02D 3/026)

Project: RP0485 (E01H)

- E01H 1/00 **Removing undesirable matter from roads or like surfaces, with or without moistening of the surface (for snow or ice E01H 5/00; cleaning tramway rails E01H 8/00; obstruction removers on vehicles B60R 19/00; in combination with application of bitumen or the like E01C 19/16; in combination with application of traffic line E01C 23/16 {; {Sweeping apparatus, particularly for lawns ~~A01G 1/12~~A01G 20/30, A01G 20/40; removing undesirable matter from floors and similar surfaces A47L 5/00 - A47L 13/00})**

Project: MP0365 (E04C)

- U E04C 3/00 **Structural elongated elements designed for load-supporting (as building aids E04G)**
- U E04C 3/02 · Joists; Girders, trusses, or trusslike structures, e.g. prefabricated; Lintels; Transoms; {Braces}(E04C 3/38 takes precedence; for structures characterised by movable, separable, or collapsible parts E04B 1/343; {braced purlins E04B 7/024})
- M E04C 3/28 · of ~~other~~ materials not covered by groups ~~E04C 3/40~~E04C 3/04 - ~~E04C 3/44~~E04C 3/20

- U E04C 3/30 · Columns; Pillars; Struts (not designed for end loading [E04C 3/02](#); posts, masts, as independent structures [E04H 12/00](#))
- M E04C 3/36 · · of **other** materials not covered by groups ~~E04C 3/40~~[E04C 3/32](#) ~~-or~~ ~~E04C 3/44~~[E04C 3/34](#); of a combination of two or more materials
- U E04C 3/38 · Arched girders or portal frames (straight girders able to be bent [E04C 3/02](#); inflatable [E04H 15/20](#))
- M E04C 3/46 · · of **other** materials not covered by groups [E04C 3/40](#) - [E04C 3/44](#); of a combination of two or more materials

Project: MP0388 (F21K)

- M F21K ***NON-ELECTRIC LIGHT SOURCES USING LUMINESCENCE; LIGHT SOURCES USING ELECTROCHEMILUMINESCENCE; LIGHT SOURCES USING CHARGES OF COMBUSTIBLE MATERIAL; LIGHT SOURCES USING SEMICONDUCTOR DEVICES AS LIGHT-GENERATING ELEMENTS; LIGHT SOURCES NOT OTHERWISE PROVIDED FOR***

NOTE

In this subclass, it is desirable to add the indexing codes of subclasses [F21W](#) and [F21Y](#).

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:

F21K 5/04	covered by	G03B 15/0457 ;
F21K 5/06	covered by	G03B 15/0442 ;
F21K 5/08	covered by	F21K 5/02 , G03B 15/0442 ;
F21K 5/10	covered by	G03B 15/0442 ;
F21K 5/12	covered by	F21K 5/023 ;
F21K 5/14	covered by	F21K 5/026 , G03B 15/0489 ;
F21K 5/16	covered by	G03B 15/0452 ;
F21K 5/18	covered by	G03B 15/0452 ;
F21K 5/20	covered by	G03B 15/0447 ;
F21K 5/22	covered by	G03B 15/0442 .

- M F21K 2/00 ***Light-Non-electric light sources using luminescence (~~light sources using a charge of combustible material F21K 5/00~~using excitation by radioactivity [G21H 3/02](#), [H01J 65/06](#), [H01J 65/08](#); using excitation by an external electromagnetic field or by external corpuscular radiation [H01J 65/04](#)); Light sources using electrochemiluminescence***

- M F21K 5/00 Light sources using **a-charge-charges** of combustible material, e.g. illuminating flash devices

Project: RP0483 (F21L)

- U F21L 15/00 {Details of kinds solely applicable to the devices covered by groups
(Frozen) [F21L 2/00](#) - [F21L 14/00](#)}

WARNING

Group [F21L 15/00](#) is no longer used for the classification of documents as of February 1, 2017. The content of this group is being reclassified into groups [F21L 2/00](#), [F21L 4/00](#)-[F21L 4/085](#).

Groups [F21L 15/00](#), [F21L 2/00](#), and [F21L 4/00](#) - [F21L 4/085](#) should be considered in order to perform a complete search.

- M F21L 15/02
(Frozen)
- {concerned with light emission or distribution}
- WARNING
Group [F21L 15/02](#) is no longer used for the classification of documents as of February 1, 2017. The content of this group is being reclassified into groups [F21L 2/00](#), [F21L 4/00](#) - [F21L 4/085](#), [F21V 3/00](#) - [F21V 3/12](#), [F21V 3/049](#), [F21V 5/00-F21V 5/08](#), [F21V 7/00-F21V 7/22](#), [F21V 13/00-F21V 13/14](#), [F21V 14/025](#), [F21V 14/045](#), and [F21V 14/065](#).
All groups listed in this Warning should be considered in order to perform a complete search.

Project: RP0483 (F21V)

- U F21V 1/00 **Shades for light sources {, i.e. lampshades for table, floor, wall or ceiling lamps}**
- U F21V 1/14 • Covers for frames; Frameless shades
- C F21V 1/16 • • characterised by the material
- WARNING
Group [F21V 1/16](#) is impacted by reclassification into group [F21V 1/17](#). Groups [F21V 1/16](#) and [F21V 1/17](#) should be considered in order to perform a complete search.
- N F21V 1/17 • • • the material comprising photoluminescent substances
- WARNING
Group [F21V 1/17](#) is incomplete pending reclassification of documents from groups [F21V 1/16](#), [F21V 1/20](#), [F21V 1/22](#), and [F21V 9/30](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- U F21V 1/18 • • • the material being paper
- C F21V 1/20 • • • the material being glass
- WARNING
Group [F21V 1/20](#) is impacted by reclassification into group [F21V 1/17](#). Groups [F21V 1/20](#) and [F21V 1/17](#) should be considered in order to perform a complete search.
- C F21V 1/22 • • • the material being plastics
- WARNING
Group [F21V 1/22](#) is impacted by reclassification into group [F21V 1/17](#). Groups [F21V 1/22](#) and [F21V 1/17](#) should be considered in order to perform a complete search.
- U F21V 1/24 • • • the material being metal
- U F21V 3/00 **Globes; Bowls; Cover glasses (with refracting properties [F21V 5/00](#); with reflecting properties [F21V 7/00](#); characterised by cooling arrangements [F21V 29/506](#))**
- WARNING
Groups [F21V 3/00](#) - [F21V 3/049](#) are incomplete pending reclassification of documents from group [F21L 15/02](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- M F21V 3/04 • **characterised by the material**; characterised by *materials*, surface treatments or coatings

- D F21V 3/0409
 - • {characterised by the material}
 - <administratively transferred to [F21V 3/06](#)>
- D F21V 3/0418
 - • • {the material being glass}
 - <administratively transferred to [F21V 3/061](#)>
- D F21V 3/0427
 - • • • {the material diffusing light, e.g. translucent glass}
 - <administratively transferred to [F21V 3/0615](#)>
- D F21V 3/0436
 - • • {the material being plastics}
 - <administratively transferred to [F21V 3/062](#)>
- D F21V 3/0445
 - • • • {the material diffusing light, e.g. translucent plastics}
 - <administratively transferred to [F21V 3/0625](#)>
- D F21V 3/0454
 - • • {comprising air or water bubbles, e.g. foamed materials}
 - <administratively transferred to [F21V 3/063](#)>
- D F21V 3/0463
 - • • {comprising fluorescent or light-storing materials}
 - <administratively transferred to [F21V 3/08](#)>
- D F21V 3/0472
 - • {Coatings}
 - <administratively transferred to [F21V 3/10](#)>
- D F21V 3/0481
 - • • {provided with fluorescent or light-storing materials}
 - <administratively transferred to [F21V 3/12](#)>
- U F21V 3/049
 - • {Patterns or structured surfaces for diffusing light, e.g. frosted surfaces}
- N F21V 3/06
 - • characterised by the material
- N F21V 3/061
 - • • {the material being glass}
- N F21V 3/0615
 - • • • {the material diffusing light, e.g. translucent glass}
- N F21V 3/062
 - • • {the material being plastics}
- N F21V 3/0625
 - • • • {the material diffusing light, e.g. translucent plastics}
- N F21V 3/063
 - • • {comprising air or water bubbles, e.g. foamed materials}
- N F21V 3/08
 - • • the material comprising photoluminescent substances

WARNING

Group [F21V 3/08](#) is incomplete pending reclassification of documents from groups [F21L 15/02](#) and [F21V 9/30](#).

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

- N F21V 3/10
 - • characterised by coatings
- N F21V 3/12
 - • • the coatings comprising photoluminescent substances

WARNING

Group [F21V 3/12](#) is incomplete pending reclassification of documents from groups [F21L 15/02](#) and [F21V 9/30](#).

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

C F21V 5/00 Refractors for light sources (characterised by cooling arrangements [F21V 29/504](#))

WARNING

Groups [F21V 5/00](#) ~~is~~ [F21V 5/08](#) ~~are~~ incomplete pending reclassification of documents from group [F21L 15/02](#).

[Group F21V 5/00 is also impacted by reclassification into group F21V 5/10.](#)

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

- C F21V 5/002
- {using microoptical elements for redirecting or diffusing light}
- WARNING
*Group F21V 5/002 is incomplete pending reclassification of documents from group F21L 15/02.
 Group F21V 5/002 is also impacted by reclassification into group F21V 5/10.
 All groups listed in this Warning should be considered in order to perform a complete search.*
- C F21V 5/003
- {using holograms}
- WARNING
*Group F21V 5/003 is incomplete pending reclassification of documents from group F21L 15/02.
 Group F21V 5/003 is also impacted by reclassification into group F21V 5/10.
 All groups listed in this Warning should be considered in order to perform a complete search.*
- C F21V 5/004
- {using microlenses}
- WARNING
*Group F21V 5/004 is incomplete pending reclassification of documents from group F21L 15/02.
 Group F21V 5/004 is also impacted by reclassification into group F21V 5/10.
 All groups listed in this Warning should be considered in order to perform a complete search.*
- C F21V 5/005
- {using microprisms}
- WARNING
*Group F21V 5/005 is incomplete pending reclassification of documents from group F21L 15/02.
 Group F21V 5/005 is also impacted by reclassification into group F21V 5/10.
 All groups listed in this Warning should be considered in order to perform a complete search.*
- C F21V 5/006
- {applied to portable lighting devices}
- WARNING
*Group F21V 5/006 is incomplete pending reclassification of documents from group F21L 15/02.
 Group F21V 5/006 is also impacted by reclassification into group F21V 5/10.
 All groups listed in this Warning should be considered in order to perform a complete search.*
- C F21V 5/007
- {Array of lenses or refractors for a cluster of light sources, e.g. for arrangement of multiple light sources in one plane (combination of two or more refractors [F21V 5/008](#))}
- WARNING
*Group F21V 5/007 is incomplete pending reclassification of documents from group F21L 15/02.
 Group F21V 5/007 is also impacted by reclassification into group F21V 5/10.
 All groups listed in this Warning should be considered in order to perform a complete search.*
- C F21V 5/008
- {Combination of two or more successive refractors along an optical axis}
- WARNING
*Group F21V 5/008 is incomplete pending reclassification of documents from group F21L 15/02.
 Group F21V 5/008 is also impacted by reclassification into group F21V 5/10.*

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

- C F21V 5/02 • of prismatic shape ([F21V 5/04](#) takes precedence)

WARNING

Group [F21V 5/02](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/02](#) is also impacted by reclassification into group [F21V 5/10](#). All groups listed in this Warning should be considered in order to perform a complete search.

- C F21V 5/04 • of lens shape

WARNING

Group [F21V 5/04](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/04](#) is also impacted by reclassification into group [F21V 5/10](#). All groups listed in this Warning should be considered in order to perform a complete search.

- C F21V 5/041 • • {Ball lenses}

WARNING

Group [F21V 5/041](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/041](#) is also impacted by reclassification into group [F21V 5/10](#). All groups listed in this Warning should be considered in order to perform a complete search.

- C F21V 5/043 • • {the lens having cylindrical faces, e.g. rod lenses, toric lenses}

WARNING

Group [F21V 5/043](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/043](#) is also impacted by reclassification into group [F21V 5/10](#). All groups listed in this Warning should be considered in order to perform a complete search.

- C F21V 5/045 • • {the lens having discontinuous faces, e.g. Fresnel lenses}

WARNING

Group [F21V 5/045](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/045](#) is also impacted by reclassification into group [F21V 5/10](#). All groups listed in this Warning should be considered in order to perform a complete search.

- C F21V 5/046 • • {the lens having a rotationally symmetrical shape about an axis for transmitting light in a direction mainly perpendicular to this axis, e.g. ring or annular lens with light source disposed inside the ring}

WARNING

Group [F21V 5/046](#) is incomplete pending reclassification of documents from group [F21L 15/02](#).

Group [F21V 5/046](#) is also impacted by reclassification into group [F21V 5/10](#). All groups listed in this Warning should be considered in order to perform a complete search.

- C F21V 5/048
- {the lens being a simple lens adapted to cooperate with a point-like source for emitting mainly in one direction and having an axis coincident with the main light transmission direction, e.g. convergent or divergent lenses, plano-concave or plano-convex lenses}
- WARNING**
*Group F21V 5/048 is incomplete pending reclassification of documents from group F21L 15/02.
 Group F21V 5/048 is also impacted by reclassification into group F21V 5/10. All groups listed in this Warning should be considered in order to perform a complete search.*
- C F21V 5/06
- Hanging lustres for chandeliers
- WARNING**
*Group F21V 5/06 is incomplete pending reclassification of documents from group F21L 15/02.
 Group F21V 5/06 is also impacted by reclassification into group F21V 5/10. All groups listed in this Warning should be considered in order to perform a complete search.*
- C F21V 5/08
- producing an asymmetric light distribution
- WARNING**
*Group F21V 5/08 is incomplete pending reclassification of documents from group F21L 15/02.
 Group F21V 5/08 is also impacted by reclassification into group F21V 5/10. All groups listed in this Warning should be considered in order to perform a complete search.*
- N F21V 5/10
- comprising photoluminescent material
- WARNING**
*Group F21V 5/10 is incomplete pending reclassification of documents from groups [F21V 5/00](#), [F21V 5/002](#), [F21V 5/003](#), [F21V 5/004](#), [F21V 5/005](#), [F21V 5/006](#), [F21V 5/007](#), [F21V 5/008](#), [F21V 5/02](#), [F21V 5/04](#), [F21V 5/041](#), [F21V 5/043](#), [F21V 5/045](#), [F21V 5/046](#), [F21V 5/048](#), [F21V 5/06](#), [F21V 5/08](#), and [F21V 9/30](#).
 All groups listed in this Warning should be considered in order to perform a complete search.*
- M F21V 7/00
- Reflectors for light sources (characterised by cooling arrangements F21V 29/505)**
- WARNING**
~~Groups~~ *Group F21V 7/00 -- is F21V-7/22 are* incomplete pending reclassification of documents from group [F21L 15/02](#).
 All groups listed in this Warning should be considered in order to perform a complete search.
- M F21V 7/0066
- {specially adapted to ~~co-operate~~ *cooperate* with point like light sources; specially adapted to ~~co-operate~~ *cooperate* with light sources the shape of which is unspecified ([F21V 7/16](#) - ~~F21V-7/22~~ [F21V 7/30](#) take precedence)}
- C F21V 7/22
- ~~characterised by the material~~; characterised by *materials*, surface treatments or coatings, e.g. *dichroic reflectors*
- WARNING**
*Group F21V 7/22 is incomplete pending reclassification of documents from groups [F21V 9/04](#) and [F21L 15/02](#).
 Group F21V 7/22 is also impacted by reclassification into groups [F21V 7/24](#), [F21V 7/26](#), [F21V 7/28](#), and [F21V 7/30](#).*

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

- N F21V 7/24
- characterised by the material
- WARNING
Group [F21V 7/24](#) is incomplete pending reclassification of documents from groups [F21V 7/22](#) and [F21V 9/04](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N F21V 7/26
- the material comprising photoluminescent substances
- WARNING
Group [F21V 7/26](#) is incomplete pending reclassification of documents from groups [F21V 7/22](#), [F21V 9/04](#), and [F21V 9/30](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N F21V 7/28
- characterised by coatings
- WARNING
Group [F21V 7/28](#) is incomplete pending reclassification of documents from groups [F21V 7/22](#) and [F21V 9/04](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N F21V 7/30
- the coatings comprising photoluminescent substances
- WARNING
Group [F21V 7/30](#) is incomplete pending reclassification of documents from groups [F21V 7/22](#), [F21V 9/04](#), and [F21V 9/30](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- C F21V 9/00
- Light Elements for modifying spectral properties, polarisation or intensity of the light emitted, e.g. filters (coloured shades [F21V 1/00](#); characterised by cooling arrangements [F21V 29/502](#); elements characterised by cooling arrangements [F21V 29/502](#)); Selection of luminescent materials for light screens**
- WARNING
Group [F21V 9/00](#) is impacted by reclassification into group [F21V 9/20](#).
Groups [F21V 9/00](#) and [F21V 9/20](#) should be considered in order to perform a complete search.
- E F21V 9/02
- for simulating daylight ([F21V 9/04](#), [F21V 9/06](#); ~~[F21V 9/16](#)~~ take precedence)
- WARNING
Group [F21V 9/02](#) is incomplete pending reclassification of documents from group [F21V 9/30](#).
Groups [F21V 9/30](#) and [F21V 9/02](#) should be considered in order to perform a complete search.
- C F21V 9/04
- for filtering out **infra-red** infrared radiation (dichroic reflectors [F21V 7/22](#); using liquid-filled chambers [F21V 9/12](#))
- WARNING
Group [F21V 9/04](#) is impacted by reclassification into groups [F21V 7/22](#), [F21V 7/24](#), [F21V 7/26](#), [F21V 7/28](#) and [F21V 7/30](#)

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

- E F21V 9/06 • for filtering out ultra-violet radiation (~~F21V 9/16 takes precedence~~)

WARNING

Group F21V 9/06 is incomplete pending reclassification of documents from group F21V 9/30.

Groups F21V 9/30 and F21V 9/06 should be considered in order to perform a complete search.

- E F21V 9/08 • for producing coloured light, e.g. monochromatic; for reducing intensity of light (~~F21V 9/16 takes precedence~~ with provision for controlling the colour F21V 9/40)

WARNING

~~Groups Group F21V 9/08 -- is F21V 9/12 are~~ incomplete pending reclassification of documents from ~~group groups F21V 9/30 and F21L 15/04.~~ Groups F21V 9/30, F21V 9/08, and

All groups listed in this Warning F21L 15/04 should be considered in order to perform a complete search:

- M F21V 9/083 • {for portable lighting devices}

WARNING

Group F21V 9/083 is incomplete pending reclassification of documents from group F21L 15/04.

Groups F21L 15/04 and F21V 9/083 should be considered in order to perform a complete search.

- D F21V 9/10 • • with provision for variation of the colour or intensity (F21V 9/12 takes precedence)
<administratively transferred to F21V 9/40>

- M F21V 9/12 • • with liquid-filled chambers

WARNING

Group F21V 9/12 is incomplete pending reclassification of documents from group F21L 15/04.

Groups F21L 15/04 and F21V 9/12 should be considered in order to perform a complete search.

- U F21V 9/14 • for producing polarised light

- D F21V 9/16 • Selection of luminescent materials for screens
<administratively transferred to F21V 9/30>

- N F21V 9/20 • Dichroic filters, i.e. devices operating on the principle of wave interference to pass specific ranges of wavelengths while cancelling others

WARNING

Group F21V 9/20 is incomplete pending reclassification of documents from group F21V 9/00.

Groups F21V 9/00 and F21V 9/20 should be considered in order to perform a complete search.

- Q F21V 9/30 • Elements containing photoluminescent material distinct from or spaced from the light source (shades F21V 1/17; globes, bowls or cover glasses F21V 3/08, F21V 3/12; refractors F21V 5/10; reflectors F21V 7/26, F21V 7/30; elements with provision for controlling the spectral properties or intensity F21V 9/40)

WARNING

Group F21V 9/30 is impacted by reclassification into groups F21V 1/17, F21V 3/08, F21V 3/12, F21V 5/10, F21V 7/26, F21V 7/30, F21V 9/02,

[F21V 9/06](#), [F21V 9/08](#), [F21V 9/32](#), [F21V 9/35](#), [F21V 9/38](#), [F21V 9/40](#),
[F21V 9/45](#), [F21V 13/08](#), and [F21V 13/14](#).

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

- N F21V 9/32
- characterised by the arrangement of the photoluminescent material
- WARNING
Group [F21V 9/32](#) is incomplete pending reclassification of documents from group [F21V 9/30](#).
Groups [F21V 9/30](#) and [F21V 9/32](#) should be considered in order to perform a complete search.
- N F21V 9/35
- at focal points, e.g. of refractors, lenses, reflectors or arrays of light sources
- WARNING
Group [F21V 9/35](#) is incomplete pending reclassification of documents from group [F21V 9/30](#).
Groups [F21V 9/30](#) and [F21V 9/35](#) should be considered in order to perform a complete search.
- N F21V 9/38
- Combination of two or more photoluminescent elements of different materials
- WARNING
Group [F21V 9/38](#) is incomplete pending reclassification of documents from group [F21V 9/30](#).
Groups [F21V 9/30](#) and [F21V 9/38](#) should be considered in order to perform a complete search.
- Q F21V 9/40
- with provision for controlling spectral properties, e.g. colour, or intensity
- WARNING
Group [F21V 9/40](#) is incomplete pending reclassification of documents from groups [F21L 15/04](#), [F21V 14/00](#) and [F21V 9/30](#).
Group [F21V 9/40](#) is also impacted by reclassification into group [F21V 9/45](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- N F21V 9/45
- by adjustment of photoluminescent elements
- WARNING
Group [F21V 9/45](#) is incomplete pending reclassification of documents from groups [F21V 9/30](#), [F21V 9/40](#), and [F21V 14/00](#).
All groups listed in this Warning should be considered in order to perform a complete search.
- M F21V 13/00
- Producing particular characteristics or distribution of the light emitted by means of a combination of elements specified in two or more of main groups [F21V 1/00](#) - [F21V 11/00](#) (by means of a combination of two or more elements covered by a single one of main groups [F21V 1/00](#) [F21V 11/00](#), see the relevant group; changing the characteristics or distribution of the light emitted by adjustment of parts [F21V 14/00](#) controlling the distribution of the light emitted by adjustment of elements [F21V 14/00](#))**
- WARNING
Groups [F21V 13/00](#) - [F21V 13/14](#) are incomplete pending reclassification of documents from group [F21L 15/02](#).
All groups listed in this Warning should be considered in order to perform a complete search.

- C F21V 13/02
- Combinations of only two kinds of elements

WARNING

Group F21V 13/02 is incomplete pending reclassification of documents from F21L 15/02.

Group F21V 13/02 is also impacted by reclassification into group F21V 13/08. All groups listed in this Warning should be considered in order to perform a complete search.

- E F21V 13/08
- the elements being ~~reflectors~~ filters or photoluminescent elements and filters reflectors

WARNING

Group F21V 13/08 is incomplete pending reclassification of documents from groups F21L 15/02, F21V 9/30 and F21V 13/02.

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

- C F21V 13/12
- Combinations of only three kinds of elements

WARNING

Group F21V 13/12 is incomplete pending reclassification of documents from F21L 15/02.

Group F21V 13/12 is also impacted by reclassification into group F21V 13/14. All groups listed in this Warning should be considered in order to perform a complete search.

- E F21V 13/14
- the elements being ~~reflectors~~ filters or photoluminescent elements, refractors, reflectors and filters refractors

WARNING

Group F21V 13/14 is incomplete pending reclassification of documents from groups F21L 15/02, F21V 9/30 and F21V 13/12.

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

- C F21V 14/00
- ChangingControlling** the characteristics or distribution of the light emitted by adjustment of parts {or by interposition of elements with electrically controlled variable light transmissivity}(reflectors with provision for adjusting the curvature F21V 7/16; light filters *or the like* with provision for **variation ofcontrolling the** colour or intensity F21V 9/10F21V 9/40; screens using adjustable parallel laminae or strips, **e.g. of Venetian-blind type**, F21V 11/04; screens using iris-type diaphragms F21V 11/10; screens using movable sheets without apertures, **e.g. flaps or slides**, F21V 11/18; adjustable mountings for lighting devices F21V 21/14)

WARNING

Group F21V 14/00 is impacted by reclassification into groups F21V 9/40 and F21V 9/45.

Groups F21V 14/00, F21V 9/40, and F21V 9/45 should be considered in order to perform a complete search.

- M F21V 14/003
- {by interposition of elements with electrically controlled variable light transmissivity, e.g. liquid crystal elements or electrochromic devices (~~liquid crystal elements G02F 1/13~~)}

Project: RP0500 (G01N)

- M G01N 21/00** Investigating or analysing materials by the use of optical means, i.e. using infra-red, visible or ultra-violet light ([G01N 3/00-G01N 19/00](#) take precedence)
- NOTE
This group does not cover the investigation of spectral properties of light per se, or measurements of the properties of materials where spectral properties of light are sensed and primary emphasis is placed on creating, detecting or analysing the spectrum providing that the properties of the materials to be investigated are of minor importance (~~see also Note (4) after the title of class G01~~). Those subjects are covered by group [G01J 3/00](#).
- M G01N 23/00** Investigating or analysing materials by the use of wave or particle radiation not covered by [groups G01N 3/00 – G01N 17/00, G01N 21/00](#) or [G01N 22/00](#), e.g. X-rays or neutrons (~~G01N 3/00 – G01N 17/00 take precedence; measuring stress in general G01L 1/00; measurement of nuclear or X-radiation G01T; introducing objects or materials into nuclear reactors, or removing them therefrom, or storing them after treatment therein G21C; construction or operation of X-ray apparatus or circuits therefor H05G~~)
- U G01N 23/02** • by transmitting the radiation through the material
- C G01N 23/04** • • and forming ~~a picture images of the material~~(~~electron microscope per se H01J~~)
- WARNING
*Group [G01N 23/04](#) is impacted by reclassification into groups [G01N 23/041](#) and [G01N 23/044](#).
Groups [G01N 23/04](#), [G01N 23/041](#), and [G01N 23/044](#) should be considered in order to perform a complete search.*
- N G01N 23/041** • • • Phase-contrast imaging, e.g. using grating interferometers
- WARNING
*Group [G01N 23/041](#) is incomplete pending reclassification of documents from groups [G01N 23/04](#) and [G01N 23/043](#).
Groups [G01N 23/04](#), [G01N 23/043](#), and [G01N 23/041](#) should be considered in order to perform a complete search.*
- C G01N 23/043** • • • {using fluoroscopic examination, with visual observation or video transmission of fluoroscopic images}
- WARNING
*Group [G01N 23/043](#) is impacted by reclassification into groups [G01N 23/041](#) and [G01N 23/044](#).
Groups [G01N 23/043](#), [G01N 23/041](#), and [G01N 23/044](#) should be considered in order to perform a complete search.*
- N G01N 23/044** • • • using laminography or tomosynthesis
- WARNING
*Group [G01N 23/044](#) is incomplete pending reclassification of documents from groups [G01N 23/04](#) and [G01N 23/043](#).
Groups [G01N 23/04](#), [G01N 23/043](#), and [G01N 23/044](#) should be considered in order to perform a complete search.*
- M G01N 23/046** • • • {using tomography, e.g. ~~computer~~*computed* tomography [*CT*]}(radiation tomography used in diagnosis ~~A61B 6/02~~)

- C G01N 23/06
- • and measuring the absorption
- WARNING**
Group G01N 23/06 is impacted by reclassification into group G01N 23/083. All groups listed in this Warning should be considered in order to perform a complete search.
- D G01N 23/063
- • • {X-ray absorption fine structure, i.e. EXAFS (G01N 23/2076 takes precedence)}
 - <administratively transferred to [G01N 23/085](#)>
- D G01N 23/066
- • • {Gamma-ray resonance absorption, e.g. Mössbauer effect (resonant absorbers or driving arrangements therefor, e.g. for Mössbauer effect devices G21K 1/12)}
 - <administratively transferred to [G01N 23/095](#)>
- D G01N 23/08
- • • using electric detection means
 - <administratively transferred to [G01N 23/06](#)>
- E G01N 23/083
- • • ~~the radiation being X-rays (G01N 23/10 – G01N 23/18 take precedence)~~
- WARNING**
Group G01N 23/083 is incomplete pending reclassification of documents from groups G01N 23/06 and G01N 23/10 – G01N 23/185. All groups listed in this Warning should be considered in order to perform a complete search.
- N G01N 23/085
- • • X-ray absorption fine structure [XAFS], e.g. extended XAFS [EXAFS]
- M G01N 23/087
- • • ~~using polyenergetic X-rays~~
- C G01N 23/09
- • • ~~the radiation being neutrons~~
- WARNING**
Group G01N 23/09 is impacted by reclassification into groups G01N 23/10, G01N 23/12, G01N 23/125, G01N 23/16, and G01N 23/18. All groups listed in this Warning should be considered in order to perform a complete search.
- N G01N 23/095
- • • Gamma-ray resonance absorption, e.g. using the Mössbauer effect
- C G01N 23/10
- • • ~~the material being confined in a container, e.g. in a luggage X-ray scanners (G01N 23/09 takes precedence)~~
- WARNING**
Group G01N 23/10 is incomplete pending reclassification of documents from group G01N 23/09. Group G01N 23/10 is also impacted by reclassification into group G01N 23/083. Groups G01N 23/09, G01N 23/10, and G01N 23/083 should be considered in order to perform a complete search.
- C G01N 23/12
- • • ~~the material being a flowing fluid or a flowing granular solid (G01N 23/09 takes precedence)~~
- WARNING**
Group G01N 23/12 is incomplete pending reclassification of documents from group G01N 23/09. Group G01N 23/12 is also impacted by reclassification into group G01N 23/083. Groups G01N 23/09, G01N 23/12, and G01N 23/083 should be considered in order to perform a complete search.

- C G01N 23/125 {with immersed detecting head}
- WARNING**
*Group G01N 23/125 is incomplete pending reclassification of documents from group G01N 23/09.
 Group G01N 23/125 is also impacted by reclassification into group G01N 23/083.
 Groups G01N 23/09, G01N 23/125, and G01N 23/083 should be considered in order to perform a complete search.*
- D G01N 23/14 specially adapted for controlling or monitoring operations or for signalling
 <administratively transferred to [G01N 23/12](#)>
- C G01N 23/16 the material being a moving sheet {for ~~a sheet or tube examined by a scanning probe~~} *film* (G01N 23/09, G01N 23/18 take precedence)
- WARNING**
*Group G01N 23/16 is incomplete pending reclassification of documents from groups G01N 23/09, G01N 23/18, and G01N 23/185.
 Group G01N 23/16 is also impacted by reclassification into group G01N 23/083.
 All groups listed in this Warning should be considered in order to perform a complete search.*
- C G01N 23/18 Investigating the presence of flaws *defects or foreign matter* (G01N 23/09 takes precedence)
- WARNING**
*Group G01N 23/18 is incomplete pending reclassification of documents from group G01N 23/09.
 Group G01N 23/18 is also impacted by reclassification into groups G01N 23/083, and G01N 23/16.
 Groups G01N 23/09, G01N 23/18, and G01N 23/16 should be considered in order to perform a complete search.*
- C G01N 23/185 {in tyres ~~(testing tyre performance G01M 17/02)~~}
- WARNING**
*Group G01N 23/185 is impacted by reclassification into groups G01N 23/083, and G01N 23/16.
 All groups listed in this Warning should be considered in order to perform a complete search.*
- M G01N 23/20 . by using diffraction of the radiation *by the materials*, e.g. for investigating crystal structure; *by using scattering of the radiation by the materials, e.g. for investigating non-crystalline materials*; by using reflection of the radiation *by the materials*
- M G01N 23/20008 . . {Constructional details *of analysers, e.g. characterised by X-ray source, detector or optical system; Accessories therefor; Accessories-Preparing specimens therefor* (monochromators for ~~X Rays~~ *X-rays* using crystals [G21K 1/06](#); ~~using gratings G01J 3/1833~~)}
- M G01N 23/20016 . . . {Goniometers}
- M G01N 23/20025 . . . {Sample holders or supports} *therefor*
- M G01N 23/20033 {provided with temperature control or heating ~~devices~~} *means*
- M G01N 23/20041 {for high pressure testing, e.g. anvil cells}
- M G01N 23/2005 {~~Details concerning the preparation~~ *Preparation* of *powder specimens* samples} *therefor*

- M G01N 23/20058
- ~~{by measuring Measuring~~ diffraction of electrons, e.g. *low energy electron diffraction [LEED] method*; *or reflection high energy electron diffraction [RHEED] method*
- M G01N 23/20066
- ~~{by measuring Measuring~~ inelastic scatter of gamma rays, e.g. Compton effect}
- M G01N 23/20091
- ~~{by measuring Measuring~~ the energy-dispersion spectrum *[EDS]* of diffracted radiation, *i.e. EDS (G01T 1/36 takes precedence)*
- C G01N 23/201
- ~~by measuring small-angle scattering~~ ~~{(G01N 23/202 takes precedence)}~~
- WARNING**
Group G01N 23/201 is impacted by reclassification into groups G01N 23/205, G01N 23/207, and G01N 23/2073. All groups listed in this Warning should be considered in order to perform a complete search.
- C G01N 23/202
- ~~using neutrons~~
- WARNING**
Group G01N 23/202 is impacted by reclassification into groups G01N 23/205, G01N 23/207, and G01N 23/2073. All groups listed in this Warning should be considered in order to perform a complete search.
- M G01N 23/203
- ~~by measuring Measuring~~ back scattering
- U G01N 23/204
- ~~using neutrons~~
- E G01N 23/205
- ~~by means of using~~ diffraction cameras ~~(G01N 23/201 takes precedence)~~
- WARNING**
Group G01N 23/205 is incomplete pending reclassification of documents from groups G01N 23/201 and G01N 23/202. Groups G01N 23/201, G01N 23/202 and G01N 23/205 should be considered in order to perform a complete search.
- M G01N 23/2055
- ~~{Analysing diffraction patterns~~ ~~(optical densitometers G01N 21/5907)}~~
- D G01N 23/206
- ~~the radiation being neutrons~~ ~~{(G01N 23/2055 takes precedence)}~~
~~<administratively transferred to G01N 23/205>~~
- E G01N 23/207
- ~~by means of diffractometry Diffractometry~~ using detectors, e.g. using ~~an analysing crystal or a crystal to be analysed probe~~ in a central position and one or more displaceable detectors in circumferential positions ~~(G01N 23/201 {G01N 23/2073} take precedence; spectrometry of detected or measured radiation intensity G01T 1/36)~~
- WARNING**
Group G01N 23/207 is incomplete pending reclassification of documents from groups G01N 23/201 and G01N 23/202. Groups G01N 23/201, G01N 23/202 and G01N 23/207 should be considered in order to perform a complete search.
- E G01N 23/2073
- ~~{using neutron detectors~~ ~~(G01N 23/202 takes precedence; neutron spectrometry G01T 3/00)}~~
- WARNING**
Group G01N 23/2073 is incomplete pending reclassification of documents from groups G01N 23/201 and G01N 23/202. Groups G01N 23/201, G01N 23/202 and G01N 23/2073 should be considered in order to perform a complete search.

- C G01N 23/2076
- • • {for spectrometry, i.e. using an analysing crystal, e.g. for measuring X-ray fluorescence spectrum of a sample with wavelength-dispersion, i.e. WDXFS (~~analysis by X-ray fluorescence in general G01N 23/223; spectrometry of X-rays or gamma-ray beams per se G01T 1/36~~)}
- WARNING**
Group G01N 23/2076 is impacted by reclassification into group G01N 23/223.
Groups G01N 23/2076 and G01N 23/223 should be considered in order to perform a complete search.
- C G01N 23/22
- by measuring secondary emission *from the material*
- NOTE**
Devices *per se* are classified in the relevant places, e.g. [H01J 37/00](#), [H01J 49/00](#)
- WARNING**
Group G01N 23/22 is impacted by reclassification into group G01N 23/2209.
Groups G01N 23/22 and G01N 23/2209 should be considered in order to perform a complete search.
- M G01N 23/2202
- • {Preparing specimens *therefor* (~~in general G01N 1/28~~)}
- M G01N 23/2204
- • {Specimen supports *therefor*; Sample conveying means *therefore* (~~as parts of specific apparatus, see the relevant groups, e.g. H01J 37/20 and H01J 49/00~~)}
- M G01N 23/2206
- • {~~using a combination~~ Combination of ~~at least two kinds of or more~~ measurements, ~~with~~ at least one measurement *being that* of secondary emission}, e.g. combination of secondary electron [SE] measurement and back-scattered electron [BSE] measurement
- M G01N 23/2208
- • • {~~using all measurements being of a secondary emission, e.g.~~ combination of ~~at least two kinds of measurements, each one being of a secondary emission kind~~ SE measurement and characteristic X-ray measurement
- N G01N 23/2209
- • using wavelength dispersive spectroscopy [WDS]
- WARNING**
Group G01N 23/2209 is incomplete pending reclassification of documents from group G01N 23/22.
Groups G01N 23/22 and G01N 23/2209 should be considered in order to perform a complete search.
- U G01N 23/221
- • by activation analysis
- M G01N 23/222
- • • using ~~neutrons~~ neutron activation analysis [NAA]
- E G01N 23/223
- • by irradiating the sample with X-rays {or gamma-rays} and by measuring X-ray fluorescence ~~{(G01N 23/2076 takes precedence)}~~
- WARNING**
Group G01N 23/223 is incomplete pending reclassification of documents from group G01N 23/2076.
Groups G01N 23/2076 and G01N 23/223 should be considered in order to perform a complete search.
- M G01N 23/225
- • using electron or ion ~~microprobe {or incident electron or ion beam}~~ (electron or ion beam tubes for micropobe analysis H01J 37/00)
- M G01N 23/2251
- • • {~~with using~~ incident electron ~~beam~~} beams, e.g. scanning electron microscopy [SEM]
- M G01N 23/2252
- • • • {~~and measuring excited~~ Measuring emitted X-rays}, e.g. electron probe microanalysis [EPMA]

- M G01N 23/2254 ~~{and measuring Measuring~~ cathodoluminescence}
- M G01N 23/2255 ~~{with using~~ incident ion ~~beam beams~~, e.g. proton ~~beam} beams~~
- M G01N 23/2257 ~~{and measuring Measuring excited~~ X-rays ~~excited from incident proton beam~~, i.e. ~~particle-induced X-ray emission [PIXE]}~~
- C G01N 23/2258 ~~{and measuring Measuring secondary ion emission, e.g. secondary ion beam, i.e. mass spectrometry [SIMS]}~~ (mass-to-charge ratio analysis aspects of SIMS for material analysis G01N 27/62)

WARNING

Group G01N 23/2258 is impacted by reclassification into group G01N 27/62.

Groups G01N 23/2258 and G01N 27/62 should be considered in order to perform a complete search.

- M G01N 23/227 ~~by measuring Measuring~~ photoelectric effect, e.g. ~~Auger electrons photoelectron emission microscopy [PEEM]~~
- M G01N 23/2273 ~~{by measuring Measuring~~ photoelectron spectrum, i.e.e.g. ~~electron spectroscopy for chemical analysis [ESCA,] or X-ray photoelectron spectroscopy [XPS]}~~
- M G01N 23/2276 ~~{by measuring using the~~ Auger ~~electrons effect~~, i.e.e.g. ~~Auger electron spectroscopy [AES]}~~
- U G01N 27/00** Investigating or analysing materials by the use of electric, electro-chemical, or magnetic means (**G01N 3/00 - G01N 25/00** take precedence; measurement or testing electric or magnetic variables or of electric or magnetic properties of materials **G01R**)
- E G01N 27/62 by investigating the ionisation of gases; by investigating electric discharges, e.g. emission of cathode ~~(particle spectrometers per se H01J 49/00)~~

WARNING

Group G01N 27/62 is incomplete pending reclassification of documents from group G01N 23/2258.

Groups G01N 23/2258 and G01N 27/62 should be considered in order to perform a complete search.

Project: RP0507 (G06)

- M G06** **COMPUTING; CALCULATING; COUNTING** (score computers for games **A63B 71/06**, **A63D 15/20**, **A63F 1/18**; combinations of writing implements with computing devices **B43K 29/08**)

NOTE**1. This class covers:**

- simulators which are concerned with the mathematics of computing the existing or anticipated conditions within the real device or system;
- simulators which demonstrate, by means involving computing, the function of apparatus or of a system, if no provision exists elsewhere;
- image data processing or generation.

2. This class does not cover:

- combinations of writing implements with computing devices, which are covered by group **B43K 29/08**;
- control functions derived from simulators, in general, which are covered by class **G05**, although such functions may be covered by the subclass of this class for the device controlled;
- measurement or analysis of an individual variable to serve as an input to a simulator, which is covered by class **G01**;
- simulators regarded as teaching or training devices which is the case if they give perceptible sensations having a likeness to the sensations a

student would experience in reality in response to actions taken by him. Such simulators are covered by class G09;

- *components of simulators, if identical with real devices or machines, which are covered by the relevant subclass for these devices or machines and not by class G09.*

3. *In this class, the following terms or expressions are used with the meanings indicated:*

- *"data" is used as the synonym of "information". Therefore, the term "information" is not used in subclasses G06C, G06F or G06Q;*
- *"calculating or computing" includes, inter alia, operations on numerical values and on data expressed in numerical form. Of these terms "computing" is used throughout the class;*
- *"computation" is derived from this interpretation of "computing". In the French language the term "calcul" will serve for either term;*
- *"simulator" is a device which may use the same time scale as the real device or operate on an expanded or compressed time scale. In interpreting this term models of real devices to reduced or expanded scales are not regarded as simulators;*
- *"record carrier" means a body, such as a cylinder, disc, card, tape, or wire, capable of permanently holding information, which can be read-off by a sensing element movable relative to the recorded information.*

1-4. Attention is drawn to the **notes (particularly Notes following the title of section G, especially as regards the definition of the term "variable".) on page [G3] of the Int.Cl.** In this class:

- The term "data" is understood to be synonymous with "information", and the term "information" is therefore not used in G06G;
- The terms "calculating" and "computing" are both understood to include, inter alia, operations on numerical values and on data expressed in numerical form; of these words "computing" is used throughout the class. "Computation" is derived from this interpretation of "computing". In the French language the word "calcul" will serve for either word;
- In those subclasses which include simulators:
 - a simulator in G06 is concerned with the mathematics of computing the existing or anticipated conditions within the real device or system;
 - Control functions derived from simulators are not in G06 but are generally in G05, although they may be in the subclass for the device controlled;
 - measurement of an individual variable to serve as an input to a simulator is in G01{ 21E; 42; 119}
 - a simulator is regarded as a teaching or training device proper to G09 if the simulator gives perceptible sensations having a likeness to the sensations the student would experience in reality in response to actions taken by him. Simulators which demonstrate, by means involving computing, the functioning of apparatus or of a system are in G06, if no provision exists elsewhere. Components of simulators, if identical with real devices or machines, are classified in the relevant subclass for these devices or machines and not in G06 or G09;
 - a simulator may use the same time scale as the real device or operate on an expanded or compressed time scale;
 - models of real devices to reduced or expanded scales are not regarded as simulators
- The term "record carrier" is understood to mean a body, such as a cylinder, disc, card, tape or wire, capable of permanently holding information, which can be read-off by a sensing element movable relative to the recorded information.

Project: RP0504 (G06F)

M G06F **ELECTRICAL DIGITAL DATA PROCESSING (computers in which a part of the computation is effected hydraulically or pneumatically [G06D](#); optically [G06E](#); self-contained input or output peripheral equipment [G06K](#); impedance networks using digital techniques [H03H](#))**

NOTE

In this subclass, the following terms or expressions are used with the meaning indicated:

- "handling" includes processing or transporting of data;
- "data processing equipment" means an association of an electric digital data processor classifiable under group [G06F 7/00](#), with one or more arrangements classifiable under groups [G06F 1/00](#) - [G06F 5/00](#) and [G06F 9/00](#) - [G06F 13/00](#).

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:

G06F 3/18	covered by	G06F 3/00 , G06K 11/00
G06F 7/04	covered by	G06F 7/02
G06F 9/302 - G06F 9/318	covered by	G06F 9/30
G06F9/40	covered by	G06F 9/4425 and subgroups
G06F9/42	covered by	G06F 9/4426 and subgroups
G06F9/45	covered by	G06F 8/41 and subgroups

M G06F 1/00 **Details of data-processing equipment not covered by groups [G06F 3/00](#) -- [G06F 13/00](#), {e.g. cooling and [G06F 21/00](#), packaging or power supply specially adapted for computer application (security arrangements for protecting computers or computer systems against unauthorised activity [G06F 21/00](#) architectures of general purpose stored program computers [G06F 15/76](#))}**

U G06F 3/00 **Input arrangements for transferring data to be processed into a form capable of being handled by the computer; Output arrangements for transferring data from processing unit to output unit, e.g. interface arrangements (typewriters [B41J](#); conversion of physical variables [F15B 5/00](#), [G01](#); image acquisition [G06T 1/00](#), [G06F 9/00](#); coding, decoding or code conversion in general [H03M](#); transmission of digital information [H04L](#); {in regulating or control systems [G05B](#)})**

U G06F 3/01 • Input arrangements or combined input and output arrangements for interaction between user and computer ([G06F 3/16](#) takes precedence)

U G06F 3/048 • • Interaction techniques based on graphical user interfaces [GUI]

NOTES

1. This group covers subject matter where the focus is placed on the way the user can interact with the displayed data. The mere presence of a standard GUI in the context of the disclosure of a specific software application or a specific device capable of processing data related to its specific function, should be in general classified in the appropriate subclasses related to those software applications or specific devices.

2. In this group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its groups, which is considered to represent information of interest for search, should be classified in each of those groups.

- U G06F 3/0487
 - • • using specific features provided by the input device, e.g. functions controlled by the rotation of a mouse with dual sensing arrangements, or of the nature of the input device, e.g. tap gestures based on pressure sensed by a digitiser
 - U G06F 3/0489
 - • • • using dedicated keyboard keys or combinations thereof
 - G06F 3/04895
 - • • • {Guidance during keyboard input operation, e.g. prompting (help systems [G06F 9/4446](#)[G06F 9/453](#))}
 - M G06F 8/00**

{Arrangements for software engineering (~~execution of stored program G06F 9/06~~; testing or debugging [G06F 11/36](#); hardware/software co-design ~~G06F 17/50~~; administrative, planning or organisation aspects of software project management [G06Q 10/06](#); software project management [G06Q 10/06](#))}
 - M G06F 8/10
 - {Requirements analysis; Specification techniques}
 - M G06F 8/20
 - {Software design}
 - U G06F 8/22
 - • {Procedural}
 - M G06F 8/24
 - • {Object-oriented}
 - M G06F 8/30
 - {Creation or generation of source code}
 - M G06F 8/33
 - • {Intelligent editors (~~text processing G06F 17/21~~)}
 - M G06F 8/34
 - • {Graphical or visual programming (~~use of icons for interaction with graphical user interfaces G06F 3/048~~)}
 - M G06F 8/35
 - • {Model driven}
 - U G06F 8/355
 - • • {Round-trip engineering}
 - M G06F 8/36
 - • {Software reuse}
 - U G06F 8/37
 - • {Compiler construction; Parser generation}
 - M G06F 8/38
 - • {Implementation of for implementing user interfaces (~~interaction techniques for graphical user interfaces G06F 3/048~~)}
 - M G06F 8/40
 - {Transformations [Transformation](#) of program code}
 - M G06F 8/41
 - • {Compilation}
 - U G06F 8/44
 - • • {Encoding}
 - U G06F 8/443
 - • • • {Optimisation}
 - M G06F 8/4434
 - • • • • {Reducing the memory space required by the program code (~~digital compression H03M 7/30~~)}
 - M G06F 8/51
 - • {Source to source}
 - M G06F 8/52
 - • {Binary to binary}
 - M G06F 8/53
 - • {Decompilation; Disassembly}
 - M G06F 8/54
 - • {Link editing before load time (~~link editing at or after load time G06F 9/44521~~)}
 - M G06F 8/60
 - {Software deployment}
 - M G06F 8/61
 - • {Installation}
 - C G06F 8/65
 - • {Update} [Updates \(security arrangements therefor G06F 21/57\)](#)
- WARNING**
 Group [G06F 8/65](#) 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.
- N G06F 8/654
 - • • using techniques specially adapted for alterable solid state memories, e.g. for EEPROM or flash memories
 - N G06F 8/656
 - • • while running

N	G06F 8/658	. . . Incremental updates; Differential updates
M	G06F 8/66	. . . {of program code stored in read-only memory [ROM]}
D	G06F 8/665	. . . {of program code stored in alterable solid-state memory, e.g. EEPROM; flash} <administratively transferred to G06F 8/654 >
D	G06F 8/67	. . . {while running} <administratively transferred to G06F 8/656 >
D	G06F 8/68	. . . {Incremental; Differential} <administratively transferred to G06F 8/658 >
M	G06F 8/70	. {Software maintenance or management}
C	G06F 8/71	. {Version control (<i>security arrangements therefor G06F 21/57</i>); Configuration management}
<p>WARNING <i>Group G06F 8/71 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.</i></p>		
M	G06F 8/72	. . {Code refactoring}
M	G06F 8/73	. . {Program documentation}
M	G06F 8/74	. . {Reverse engineering; Extracting design information from source code}
M	G06F 8/75	. . {Structural analysis for program understanding}
U	G06F 8/751	. . . {Code clone detection}
M	G06F 8/76	. . {Adapting program code to run in a different environment; Porting}
M	G06F 8/77	. . {Software metrics}
U	G06F 8/78	. . {Methods to solve the "Year 2000" [Y2K] problem}
M	G06F 9/00	Arrangements for programmeprogram control, e.g. control unit-units (programme control for peripheral devices G06F 13/10; in-regulating or control systems G05B programme control for peripheral devices G06F 13/10)
M	G06F 9/02	. using wired connections, e.g. plugboardplugboards
M	G06F 9/04	. using record carriers containing only programmeprogram instructions (G06F 9/06 takes precedence)
M	G06F 9/06	. using stored programmeprograms , i.e. using an internal store of processing equipment to receive and/or retain programmeprograms
M	G06F 9/22	. . Microcontrol or microprogrammemicroprogram arrangements
M	G06F 9/24	. . . Loading of the microprogrammemicroprogram
M	G06F 9/26	. . . Address formation of the next microinstruction-micro-instruction (G06F 9/28 takes precedence){; Microprogram storage or retrieval arrangements}
M	G06F 9/30	. . Arrangements for executing machine- instructions, e.g. instruction decode (for executing microinstructions G06F 9/22 ; for executing subprogrammes G06F 9/4425)
M	G06F 9/32	. . . Address formation of the next instruction, e.g. by incrementing the instruction counter; jump- (G06F 9/38 takes precedence; subprogramme jump G06F 9/4426)
M	G06F 9/321 { ProgrammeProgram or instruction counter, e.g. incrementing}
M	G06F 9/44	. . Arrangements for executing specific programmesprograms
M	G06F 9/4401	. . . {Bootstrapping (secure booting G06F 21/575; fault tolerant booting G06F 11/1417; resetting means G06F 1/24; power-on self test G06F 11/2284security arrangements therefor G06F 21/57)}

- U G06F 9/4411 {Configuring for operating with peripheral devices; Loading of device drivers}
 - M G06F 9/4413 {Plug-and-play ~~{(PnP)}~~}
 - U G06F 9/4415 {Self describing peripheral devices}
 - M G06F 9/4416 {Network booting; Remote initial ~~programme~~*program* loading [RIPL]}
 - D G06F 9/4421 . . . {Execution paradigms}
<administratively transferred to [G06F 9/448](#)>
 - D G06F 9/4423 {Procedural}
<administratively transferred to [G06F 9/4482](#)>
 - D G06F 9/4425 {Executing sub-programmes}
<administratively transferred to [G06F 9/4484](#)>
 - D G06F 9/4426 {Formation of sub-programme jump address}
<administratively transferred to [G06F 9/4486](#)>
 - D G06F 9/4428 {Object-oriented}
<administratively transferred to [G06F 9/4488](#)>
 - D G06F 9/443 {Object-oriented method invocation or resolution}
<administratively transferred to [G06F 9/449](#)>
 - D G06F 9/4431 {Optimising based on receiver type}
<administratively transferred to [G06F 9/4491](#)>
 - D G06F 9/4433 {Inheritance}
<administratively transferred to [G06F 9/4492](#)>
 - D G06F 9/4435 {Object persistence}
<administratively transferred to [G06F 9/4493](#)>
 - D G06F 9/4436 {Data-driven}
<administratively transferred to [G06F 9/4494](#)>
 - D G06F 9/4438 {Unification in logic programming}
<administratively transferred to [G06F 9/4496](#)>
 - D G06F 9/444 {Finite state machines}
<administratively transferred to [G06F 9/4498](#)>
 - D G06F 9/4443 . . . {Execution mechanisms for user interfaces}
<administratively transferred to [G06F 9/451](#)>
 - D G06F 9/4445 {Remote windowing, e.g. X-Window System, desktop virtualisation (protocols for telewriting H04L 67/38)}
<administratively transferred to [G06F 9/452](#)>
 - D G06F 9/4446 {Help systems}
<administratively transferred to [G06F 9/453](#)>
 - D G06F 9/4448 {Multi-language systems; Localisation; Internationalisation}
<administratively transferred to [G06F 9/454](#)>
 - C G06F 9/445 . . . ~~Programme~~*Program* loading or initiating ~~{(bootstrapping [G06F 9/4401](#); movement of software or configuration parameters for network-specific applications H04L 67/34; 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.
- M G06F 9/44505 {Configuring for ~~programme~~*program* initiating, e.g. using registry, configuration files}

- M G06F 9/44589 {**ProgrammeProgram** code verification, e.g. Java bytecode verification, proof-carrying code (high-level semantic checks [G06F 8/43](#); testing and debugging software [G06F 11/36](#))}
- U G06F 9/44594 {Unloading}
- N G06F 9/448 *Execution paradigms, e.g. implementations of programming paradigms*
- N G06F 9/4482 {Procedural}
- N G06F 9/4484 {Executing subprograms}
- N G06F 9/4486 {Formation of subprogram jump address}
- N G06F 9/4488 {Object-oriented}
- N G06F 9/449 {Object-oriented method invocation or resolution}
- N G06F 9/4491 {Optimising based on receiver type}
- N G06F 9/4492 {Inheritance}
- N G06F 9/4493 {Object persistence}
- N G06F 9/4494 {data driven}
- N G06F 9/4496 {Unification in logic programming}
- N G06F 9/4498 {Finite state machines}
- N G06F 9/451 *Execution arrangements for user interfaces*
- N G06F 9/452 {Remote windowing, e.g. X-Window System, desktop virtualisation (protocols for telewriting [H04L 67/38](#))}
- N G06F 9/453 {Help systems}
- N G06F 9/454 {Multi-language systems; Localisation; Internationalisation}
- M G06F 9/455 Emulation; **Interpretation**; Software simulation-~~}; i.e.g.~~ virtualisation or emulation of application or operating system execution engines (~~instruction translation at instruction execution time G06F 9/3017; multiprogramming in general G06F 9/46; logical partitioning of resources or management or configuration of virtualized resources G06F 9/5077; in-circuit emulation G06F 11/3652; environments for testing or debugging software G06F 11/3664~~)}
- U G06F 9/45533 {Hypervisors; Virtual machine monitors}
- U G06F 9/45558 {Hypervisor-specific management and integration aspects}
- M G06F 2009/45575 {Starting, stopping, suspending, resuming virtual machine instances (~~programme initiating G06F 9/445; program initiating G06F 9/445~~; task life-cycle in general [G06F 9/485](#))}
- U G06F 9/46 Multiprogramming arrangements
- M G06F 9/48 **ProgrammeProgram** initiating; **ProgrammeProgram** switching, e.g. by interrupt
- M G06F 9/52 **ProgrammeProgram** synchronisation; Mutual exclusion, e.g. by means of semaphores-~~}; Contention for resources among tasks~~
- M G06F 9/54 **InterprogrammeInterprogram** communication-~~}; Intertask communication~~
- U G06F 9/547 {Remote procedure calls [RPC]; Web services}
- M G06F 9/548 {Object oriented; Remote method invocation [RMI] (non-remote method invocation [G06F 9/443](#)[G06F 9/449](#))}
- U G06F 12/00** **Accessing, addressing or allocating within memory systems or architectures (digital input from, or digital output to record carriers, e.g. to disk storage units, [G06F 3/06](#))**
- M G06F 12/02 Addressing or allocation; Relocation (~~programme address sequencing G06F 9/00; program address sequencing G06F 9/00~~; arrangements for selecting an address in a digital store [G11C 8/00](#))

- M G06F 12/14
- Protection against unauthorised use of memory {or access to memory ~~(security arrangements for protecting computers or computer systems against unauthorised activity G06F 21/00; multiprogramming arrangements G06F 9/46)}~~}
- U G06F 13/00
- Interconnection of, or transfer of information or other signals between, memories, input/output devices or central processing units (interface circuits for specific input/output devices [G06F 3/00](#); multiprocessor systems [G06F 15/16](#); transmission of digital information in general [H04L](#); selecting [H04Q](#); {multiprogramme control therefor [G06F 9/46](#)})
- M G06F 13/10
- ~~Programme~~Program control for peripheral devices ([G06F 13/14](#) - [G06F 13/42](#) take precedence)
- M G06F 15/00
- Digital computers in general (details [G06F 1/00](#) -- [G06F 13/00](#)); Data processing equipment in general ~~(neural networks for image data processing G06T)~~
- M G06F 15/02
- manually operated with input through keyboard and computation using a built-in ~~programme~~program, e.g. pocket calculators
- M G06F 15/16
- Combinations of two or more digital computers each having at least an arithmetic unit, a ~~programme~~program unit and a register, e.g. for a simultaneous processing of several ~~programmes~~programs {(coordinating ~~programme~~program control therefor [G06F 9/52](#); in regulating and control system [G05B](#))}
- U G06F 15/163
- • Interprocessor communication
- M G06F 15/167
- • using a common memory, e.g. mailbox ~~(memory protection G06F 12/14; memory access priority G06F 13/18)~~
- M G06F 15/173
- • using an interconnection network, e.g. matrix, shuffle, pyramid, star, snowflake ~~(interface switching circuits G06F 13/40)~~
- U G06F 21/00
- Security arrangements for protecting computers, components thereof, programs or data against unauthorised activity {(address-based protection against unauthorised use of memory [G06F 12/14](#); record carriers for use with machines and with at least a part designed to carry digital markings [G06K 19/00](#); preventing unauthorised reproduction or copying of disc-type recordable media [G11B 20/00](#); secret or secure communication [H04L 9/00](#); digital watermarking on images [H04N 1/32](#); protection in video systems or pay television [H04N 7/16](#))}
- U G06F 21/50
- Monitoring users, programs or devices to maintain the integrity of platforms, e.g. of processors, firmware or operating systems
- E G06F 21/57
- • Certifying or maintaining trusted computer platforms, e.g. secure boots or power-downs, version controls, system software checks, secure updates or assessing vulnerabilities
- WARNING**
- Group G06F 21/57 - G06F 21/577 is incomplete pending reclassification of documents from groups G06F 8/65, G06F 8/71, and G06F 9/445. All groups listed in this Warning should be considered in order to perform a complete search.*
- E G06F 21/572
- • • {Secure firmware programming, e.g. of basic input output system [BIOS]}
- E G06F 21/575
- • • {Secure boot}
- E G06F 21/577
- • • {Assessing vulnerabilities and evaluating computer system security}

Project: RP0507 (G06T)

- U G06T 1/00
- General purpose image data processing

M G06T 1/20 · Processor architectures; Processor configuration, e.g. pipelining (~~architectures of general purpose stored programme computers G06F 15/76~~)

M G06T 9/00 **Image coding, e.g. from bit-mapped to non bit-mapped** (~~H04N 1/00; H04N 19/00 take precedence;~~) **compression in general H03M; compression for image communication H04N** *bandwidth or redundancy reduction for static pictures H04N 1/41; coding or decoding of static colour picture signals H04N 1/64; methods or arrangements for coding, decoding, compressing or decompressing digital video signals H04N 19/00*

Project: N/A (G08B)

U G08B 21/00 **Alarms responsive to a single specified undesired or abnormal operating condition and not elsewhere provided for** {(alarms on gas pipes [F17D 3/01](#))}

U G08B 21/18 · Status alarms ([G08B 21/02](#) takes precedence)

U G08B 21/24 · · Reminder alarms, e.g. anti-loss alarms

G08B 21/245 · · · {Reminder of hygiene compliance policies, e.g. of washing hands (~~measuring quality of medical staff,~~)}

Project: MP0346 (H01S)

U H01S 3/00 **Lasers, i.e. devices for generation, amplification, modulation, demodulation, or frequency-changing, using stimulated emission, of infra-red, visible, or ultra-violet waves** ({stimulated Brillouin or Raman effects [H01S 3/30](#)}; **semiconductor lasers H01S 5/00**)

U H01S 3/09 · Processes or apparatus for excitation, e.g. pumping

U H01S 3/091 · · using optical pumping

U H01S 3/094 · · · by coherent light

NOTE

Groups [H01S 3/094003](#) - [H01S 3/094088](#) take precedence over groups [H01S 3/0941](#) - [H01S 3/0947](#)

M H01S 3/094026 · · · · {for synchronously pumping, e.g. for mode-locking}

U H01S 3/10 · Controlling the intensity, frequency, phase, polarisation or direction of the emitted radiation, e.g. switching, gating, modulating or demodulating (mode locking {[H01S 3/1106](#)}; controlling of light beams, frequency-changing, non-linear optics, optical logic elements, in general [G02F](#))

NOTE

Group [H01S 3/10007](#) takes precedence over groups [H01S 3/102](#) - [H01S 3/104](#)

U H01S 3/11 · · {Pulse generation, e.g. Q-switching, mode locking}

U H01S 3/1106 · · · {Mode locking}

M H01S 3/1121 · · · · {Harmonically mode-~~locked~~ *locking* lasers, e.g. modulation frequency equals multiple integers or a fraction of the resonator roundtrip time}

M 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 5/02 · Structural details or components not essential to laser action

- U H01S 5/026
 - • Monolithically integrated components, e.g. waveguides, monitoring photo-detectors, drivers (stabilisation of output [H01S 5/06](#); coupling light guides with opto-electronic elements [G02B 6/42](#); devices consisting of a plurality of semiconductor or other solid state components formed in or on a common substrate, adapted for light emission [H01L 27/15](#))
- M H01S 5/0265
 - • • {Intensity modulators (~~intracavity~~*intra-cavity* modulators [H01S 5/0625](#))}
- U H01S 5/06
 - Arrangements for controlling the laser output parameters, e.g. by operating on the active medium (transmission systems employing light [H04B 10/00](#))
- U H01S 5/065
 - • Mode locking; Mode suppression; Mode selection {; Self pulsating}
- M H01S 5/0657
 - • • {Mode-~~locking~~, *i.e. generation* ~~i.e. generation~~ of pulses at a frequency corresponding to a roundtrip in the cavity}
- 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)}
- M H01S 5/1053
 - • {Comprising an active region having a varying composition or cross-~~section~~ in a specific direction}
- M H01S 5/12
 - • the resonator having a periodic structure, e.g. in distributed feed-back ~~lasers~~ (~~[DFB-] lasers~~) ([H01S 5/18](#) takes precedence) (~~forward coupled structures~~; *i.e. DFC lasers*, [H01S 5/1028](#))
- M H01S 5/125
 - • • Distributed Bragg reflector ~~lasers~~ (~~[DBR-] lasers~~)
- M H01S 5/18
 - • Surface-emitting ~~lasers~~ (~~[SE-] lasers~~)
- M H01S 5/183
 - • • having a vertical cavity (~~[VCSE-lasers]~~)
- M H01S 5/187
 - • • using a distributed Bragg reflector (~~[SE-DBR-lasers]~~) ([H01S 5/183](#) takes precedence)
- U 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}
- U H01S 5/2018
 - • • {Optical confinement, e.g. absorbing-, reflecting- or waveguide-layers}
- M H01S 5/2031
 - • • • {characterized by special waveguide layers, e.g. asymmetric waveguide layers or defined ~~band-gap~~*bandgap* discontinuities}
- 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 5/323
 - • • in A_{III}B_V compounds, e.g. AlGaAs-laser, {InP-based laser}
- U H01S 5/3235
 - • • • {emitting light at a wavelength longer than 1000 nm, e.g. InP-based 1300 nm and 1500 nm lasers}
- M H01S 5/32358
 - • • • • {containing very small amounts, usually less than 1%, of an additional III or V compound to decrease the ~~band-gap~~*bandgap* ~~strongly~~*strongly* in a non-linear way by the bowing effect}
- M H01S 5/34
 - • comprising quantum well; or superlattice structures, e.g. single quantum well lasers (~~[SQW-] lasers~~), multiple quantum well lasers (~~[MQW-] lasers~~); *or* graded index separate confinement heterostructure lasers (~~[GRINSCH-] lasers~~) ([H01S 5/36](#) takes precedence)
- U H01S 2301/00
 - **Functional characteristics**
- M H01S 2301/20
 - Lasers with a special output beam profile or cross-~~section~~, e.g. non-Gaussian

Project: MP0349 (H01T)

- U H01T 1/00
 - **Details of spark gaps**

- M H01T 1/14 · Means structurally associated with spark gap for protecting it against overload or for disconnecting it in case of failure ([H01T 1/15](#), [H01T 1/16](#), [H01T 1/18](#) take precedence; *emergency protective circuit arrangements for spark gap arrestors* [H02H 7/24](#))
- U H01T 4/00 **Overvoltage arresters using spark gaps ([H01T 2/00](#) takes precedence; overvoltage protection circuits using spark gaps [H02H 9/06](#))**
- U H01T 4/16 · having a plurality of gaps arranged in series
- M H01T 4/18 · Arrangements for reducing height of ~~stecked~~*stacked* spark gaps
- U H01T 21/00 **Apparatus or processes specially adapted for the manufacture or maintenance of spark gaps or sparking plugs**
- U H01T 21/02 · of sparking plugs
- M H01T 21/04 · Cleaning (*means for self-cleaning* [H01T 13/14](#); abrasive blasting devices for cleaning sparking-plugs [B24C 3/34](#))

Project: RP0498 (H04L)

- U H04L 65/00 {Network arrangements or protocols for real-time communications (computer conference [H04L 12/1813](#); real time or near real time messaging in message switching systems, e.g. instant messaging [H04L 51/04](#); network applications in general [H04L 67/00](#); systems providing special services to telephonic subscribers [H04M 3/42](#); interconnection arrangements between switching centres for working between exchanges having different types of switching equipment where the types of switching equipment comprise PSTN/ISDN equipment and equipment of networks other than PSTN/ISDN [H04M 7/1205](#); television systems [H04N 7/00](#); selective video distribution [H04N 21/00](#))}

NOTES

1. {This group covers:

- only communications which fulfill the following two conditions:
 - i. they are based on packet data;
 - ii. there is real-time or pseudo-real-time temporal association between source and destination, or source and network, or destination and network;
- provided that the above two conditions are met, this group covers arrangements relating to
 - a. the transmission of the multimedia data itself,
 - b. the user-to-user, user-to-network, inter-network or intra-network signalling supporting:
 - b1. the establishment of a session for the subsequent transmission of the multimedia data, or
 - b2. the maintenance of the session or
 - b3. the application services available to the user during the session (unless explicitly excluded in certain cases).

}

2. {This group does not cover:

- non-real-time multimedia file transfer, which is covered by group [H04L 67/06](#);
- multimedia store or forward messaging as in e-mail, MMS or the like, which is covered by group [H04L 51/00](#);
- analogue video streaming, as in analogue television systems, which is covered by group [H04N 7/00](#);
- selective distribution of MPEG elementary or transport streams, containing video and/or additional data, which is covered by group [H04N 21/00](#);
- bit streaming, i.e. not packet-based, such as in ISDN, which is covered by group [H04Q 11/0428](#);
- instant messaging, which is covered by group [H04L 51/04](#);

- any other multimodal data communications which do not meet the conditions of being packet-based and real-time or pseudo-real-time;
- flow control in packet switching networks, which is covered by group [H04L 47/10](#).

}

3. {In this group the following terms or expressions are used with the meaning indicated:

- H.323 means International Telecommunication Union Recommendation no. 323, series H, entitled "Packet-based multimedia communications systems"
- IP means Internet Protocol
- IMS means IP Multimedia Subsystem
- ISDN means Integrated Services Digital Network
- MGC means Media Gateway Control/Controller
- MGCP means Media Gateway Control Protocol
- MMS means Multimedia Messaging Service
- PBX means Private Branch Exchange
- PSTN means Public Switched Telephone Network
- QoS means Quality of Service
- RTP means Real Time Protocol
- RTCP means Real Time Control Protocol
- RTSP means Real Time Streaming Protocol.
- SIP means Session Initiation Protocol
- SPAM means unsolicited electronic mail
- SPIT means SPAM Prevention in IP Telephony

}

U H04L 65/40

• {Services or applications (network service management for ensuring proper service fulfilment [H04L 41/50](#); information services comprising voice [H04M 3/487](#); systems providing special services to telephonic subscribers [H04M 3/42](#); contact center services [H04M 3/51](#))}

H04L 65/4061

• {"Push-to-X" services (push-to-talk services in wireless networks [H04W 4/10](#); connection management, e.g. connection set-up, manipulation or release for push-to-talk or push-on-call services in wireless communication networks [H04W 76/005](#)[H04W 76/45](#))}

Project: RP0504 (H04L)

U H04L 67/00

{Network-specific arrangements or communication protocols supporting networked applications (message switching systems [H04L 51/00](#); network management protocols [H04L 41/00](#); routing or path finding of packets in data switching networks [H04L 45/00](#); protocols for real-time multimedia communication [H04L 65/00](#); information retrieval [G06F 17/30](#); services or facilities specially adapted for wireless communication networks [H04W 4/00](#); network structures or processes for video distribution between server and client or between remote clients [H04N 21/00](#); exchange systems providing special services or facilities to subscribers involving telephonic communications [H04M 3/42](#); distributed information systems [G06F 9/00](#), [G06F 17/00](#); lower layer network functionalities which support application layer provisions [H04L 12/00](#))}

NOTES

1. This group covers:

1. Networking arrangements or communication protocols to support networked applications which occur at the abstract network layers 5 to 7 of the OSI layer model. The higher layers constitute the interface between the network and the computer applications that use the network to communicate.
2. Network-specific aspects of client-server applications as well as of networking arrangements supporting networked/distributed applications,

e.g. data transport, scheduling. This group also covers specific networked application layer protocols, e.g. FTP, WAP, HTTP.

2. This group does not cover:

1. Distributed applications which are network-agnostic, i.e. distributed information systems for which the network functions are transparent. These field are covered, e.g. by [G06F 9/00](#), [G06F 17/00](#). Data switching network provisions in general and the lower layer network functionalities which support application layer provisions are covered by [H04L 12/00](#)

H04L 67/38

- {Protocols for telewriting; Protocols for networked simulations, virtual reality or games (games using an electronically generated display [A63F 13/00](#); remote windowing or X-Windows [G06F 9/4445](#)[G06F 9/452](#))}

Project: RP0507 (H04N)

U H04N 1/00

Scanning, transmission or reproduction of documents or the like, e.g. facsimile transmission; Details thereof {(recording arrangements for measuring instruments [G01D](#); sensing record carriers [G06K 7/00](#); character or pattern recognition [G06K 9/00](#); mosaic printer telegraph systems [H04L 21/00](#))}

M H04N 1/41

- Bandwidth or redundancy reduction (by scanning [H04N 1/17](#) {; ~~[H04N 19/00](#)~~ *takes precedence; methods or arrangements for coding, decoding, compressing or decompressing digital video signals [H04N 19/00](#)*; ~~for data acquisition [G06F 17/40](#); coding for image data processing in general [G06T 9/00](#); data compression in general [H03M 7/30](#)~~)

Project: RP0504 (H04N)

U H04N 21/00

Selective content distribution, e.g. interactive television, VOD [Video On Demand] (broadcast communication [H04H](#); arrangements, apparatus, circuits or systems for communication control or processing being characterised by a protocol [H04L 29/06](#); {broadcast or conference over packet-switching networks [H04L 12/18](#), } real-time bi-directional transmission of motion video data [H04N 7/14](#))

NOTES

1. This group covers :

- interactive video distribution processes, systems, or elements thereof, which are characterised by point-to-multipoint system configurations, and which are mainly used for motion video data unidirectional distribution or delivery resulting from interactions between systems operators, e.g. access or service providers, or users e.g. subscribers, and system elements.
- such systems include dedicated communication systems, such as television distribution systems, which primarily distribute or deliver motion video data in the manner indicated, which may, in addition, provide a framework for further, diverse data communications or services in either unidirectional or bi-directional form. However, video will occupy most of the downlink bandwidth in the distribution process.
- typically, system operators interface with transmitter-side elements or users' interface with receiver-side elements in order to facilitate, through interaction with such elements, the dynamic control of data processing or data flow at various points in the system. This interaction is typically occasional or intermittent in nature.
- processes, systems or elements thereof specially adapted to the generation, distribution and processing of data, which is either associated with video content, e.g. metadata, ratings, or related to the user or his

environment and which has been actively or passively gathered. This data is either used to facilitate interaction or to alter or target the content.

2. In this main group, at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place

3. In this main group, the following terms and expressions are used with the meaning indicated:

additional data - designates still pictures, textual, graphical or executable data such as software. It is used to convey supplemental information and can be generated prior to or during the distribution process itself, e.g. metadata, keys.

content designates video or audio streams, which may be combined with additional data. Video data will always be present and occupy most of the downlink bandwidth in the distribution process

server - designates an apparatus designed for adapting the content received from the content provider to the distribution network. It also manages the distribution to client devices or intermediate components over a network. Further servers may also be present for gathering or generating additional data, e.g. rights management server

additional data server - designates a server, which sole purpose is the distribution or management of additional data. It is not in charge of the distribution of video or audio data

client - designates an apparatus such as a TV receiver, a set-top-box, a PC-TV, a mobile appliance (e.g. mobile phone or receiver in a vehicle), for receiving video, audio and possibly additional data from one or several servers or intermediate components via a network for further processing, storing or displaying. It can also transmit this data on a home-based local network to further devices, e.g. a home server transmitting video to PCs and set-top-boxes within a home.

local network - pertains to a restricted area, e.g. a home or a vehicle, and designates the link between a client and its peripheral devices

network - is to be distinguished from "local network": "network" designates the link between the server and the clients, or between the server and the intermediate components, or between the intermediate components and the clients, or between remotely located clients

distribution - encompasses broadcasting, multicasting and unicasting techniques for transmitting content from one or more sources to one or more receiving stations. The distribution follows a request by a receiving station to the source, e.g. VOD or from a customization of the content by the source, e.g. targeting advertisements to a demographic group in a unidirectional or bidirectional system. Additionally, distribution encompasses techniques where the client acts as a source and another client acts as a receiving station, e.g. a peer-to-peer system for sharing video among client devices

end-user - designates a physical person, e.g. a TV viewer, who consumes the content using the client device. He is the final recipient of the content distributed by the server

interaction - covers actions occurring between or among two or more objects that have an effect upon one another, wherein objects comprise users, system operators, system elements, or content. The user may interact with content locally at the client device, e.g. for requesting additional data stored within the client device. The user may interact with content remotely through a server e.g. for VOD playback control or for uploading video to a server. The client device may interact with the content e.g. selecting content based upon the user profile. The client device may interact with a server using a return channel, e.g. for authenticating client or uploading client hardware capabilities. The server may interact with a client device, e.g. to force a client to tune to an advertisement channel

upstream - designates the direction of data flow towards the source, e.g. a server receiving a request via a mobile phone network

ownstream - designates the direction of data flow towards a client, e.g. a client receiving data originating from a server elementary stream An elementary stream (ES) as defined by the MPEG system layer designates the output of an audio or video encoder

- U H04N 21/40
 - Client devices specifically adapted for the reception of or interaction with content, e.g. set-top-box [STB]; Operations thereof {(arrangements for distribution where lower stations, e.g. receivers, interact with the broadcast [H04H 20/38](#); arrangements specially adapted for receiving broadcast information [H04H 40/00](#))}
- U H04N 21/45
 - • Management operations performed by the client for facilitating the reception of or the interaction with the content or administrating data related to the end-user or to the client device itself, e.g. learning user preferences for recommending movies, resolving scheduling conflicts
- U H04N 21/458
 - • • Scheduling content for creating a personalised stream, e.g. by combining a locally stored advertisement with an incoming stream; Updating operations, e.g. for OS modules {; time-related management operations (arrangements for replacing or switching information during the broadcast or during the distribution [H04H 20/10](#))}
- H04N 21/4586
 - • • • {Content update operation triggered locally, e.g. by comparing the version of software modules in a DVB carousel to the version stored locally (deployment, distribution, installation, update of software [G06F 8/65](#); program updating while running in general [G06F 8/67](#)[G06F 8/656](#); error detection or correction of the data by redundancy during software upgrading [G06F 11/1433](#); arrangements for updating broadcast information or broadcast-related information [H04H 60/25](#))}

Project: RP0501 (H04W)

- M H04W 4/00 ~~{Mobile application} services or facilities~~ **Services** specially adapted for wireless communication networks ~~-(wireless network security H04W 12/00; arrangements for broadcast or conference H04L 12/18; message switching systems H04L 51/00; network arrangements or network protocols for addressing or naming H04L 61/00; network architectures or network communication protocols for network security H04L 63/00; network arrangements or protocols for real-time communications H04L 65/00; network arrangements or communication protocols for networked applications H04L 67/00; application independent communication protocol aspects and techniques in packet data networks H04L 69/00; telephonic communication, substation extension arrangements, cordless telephones, portable communication terminals with improved user interface to control a main telephone operation mode or to indicate the communication status H04M 1/72522; automatic or semi-automatic exchanges for telephonic communication – systems providing special services or facilities to subscribers H04M 3/42);~~ **Facilities therefor**

NOTES

1. This groups covers mobile application services or application service signalling for communication over wireless networks.
2. This group focuses on application services specially adapted for wireless networks or adjusted to the wireless environment
3. *In this group, the first place priority rule is not applied, i.e. the common rule is applied.*

- D H04W 4/001
- {Provisioning or reconfiguring application services, e.g. OMA DM (program loading or initiating G06F 9/445; mobile agents G06F 9/4862; network management H04L 41/00; network arrangements or communication protocols for networked applications involving the movement of software or configuration parameters, e.g. applets H04L 67/34)}
<administratively transferred to [H04W 4/50](#)>
- D H04W 4/003
- {Mobile application execution environments for application services, e.g. communicating with application store or appstore servers in the application service network and vice versa, 3GPP SIM Application toolkit [SAT], 3GPP OSA or 3GPP MEXE (processing of user or subscriber data at user equipment or user record carrier H04W 8/183)}
<administratively transferred to [H04W 4/60](#)>
- D H04W 4/005
- {for Machine-to-Machine communication [M2M, MTC], e.g. 3GPP M2M, OMA M2M, 3GPP MTC or Wireless Sensor Networks [WSN] (self-organizing networks H04W 84/18; network arrangements or communication protocols for networked applications adapted for proprietary or special purpose networking environments, e.g. medical networks, sensor networks, networks in a car, remote metering networks H04L 67/12; mechanical means for transferring the output of a sensing member G01D 5/00)}
<administratively transferred to [H04W 4/70](#)>
- D H04W 4/006
- {using cooperative applications for harvesting, aggregating or forwarding data, e.g. data fusion, aggregation or diffusion in WSN, master/slave node hierarchy negotiations in WSN}
<administratively transferred to [H04W 4/38](#)>
- D H04W 4/008
- {using short range communication, e.g. NFC, RFID or PAN (telephonic substation extension arrangements interfacing with an external accessory using a two-way short-range wireless interface H04M 1/7253; mechanical means for transferring the output of a sensing member G01D 5/00; near-field transmission systems H04B 5/00)}
<administratively transferred to [H04W 4/80](#)>
- C H04W 4/02
- {~~Mobile application~~ Services making use of ~~the location of users or terminals~~ {, e.g. OMA SUPL, OMA MLP or 3GPP LCS} ~~information~~ (mobility data transfer H04W 8/08; access restriction based on user location or mobility data H04W 48/04; registration, e.g. affiliation to network, de-registration, e.g. terminating affiliation H04W 60/00; locating users or terminals for network management purpose H04W 64/00; navigation or navigational instruments G01C 21/00; radio direction-finding, radio navigation, determining distance or velocity by use of radio waves, locating or presence-detecting by use of the reflection or re-radiation of radio waves or analogous arrangements using other waves G01S)
- WARNING**
Group H04W 4/02 is incomplete pending reclassification of documents from groups H04W 4/04, H04W 4/043, and H04W 4/046. Group H04W 4/02 is also impacted by reclassification into groups H04W 4/024 and H04W 4/029. All groups listed in this Warning should be considered in order to perform a complete search .
- E H04W 4/021
- {~~based on location controlled~~ Services related to particular areas, e.g. ~~geofencing~~ point of interest [POI] services, venue services or geofences
- WARNING**
Group H04W 4/021 is incomplete pending reclassification of documents from groups H04W 4/04, H04W 4/043 and H04W 4/046. Groups H04W 4/04, H04W 4/043, H04W 4/046 and H04W 4/021 should be considered in order to perform a complete search.

- E H04W 4/022
- • {with dynamic range variability}
- WARNING**
Group H04W 4/022 is incomplete pending reclassification of documents from groups H04W 4/04, H04W 4/043 and H04W 4/046. Groups H04W 4/04, H04W 4/043, H04W 4/046 and H04W 4/022 should be considered in order to perform a complete search.
- E H04W 4/023
- • {using mutual or relative location information between multiple location based services [LBS] targets or of distance thresholds}
- WARNING**
Group H04W 4/023 is incomplete pending reclassification of documents from groups H04W 4/04, H04W 4/043 and H04W 4/046. Groups H04W 4/04, H04W 4/043, H04W 4/046 and H04W 4/023 should be considered in order to perform a complete search.
- N H04W 4/024
- • Guidance services
- WARNING**
Group H04W 4/024 is incomplete pending reclassification of documents from groups H04W 4/02, H04W 4/04, H04W 4/043 and H04W 4/046. Groups H04W 4/02, H04W 4/04, H04W 4/043, H04W 4/046 and H04W 4/024 should be considered in order to perform a complete search.
- E H04W 4/025
- • {using location based information parameters}
- WARNING**
Group H04W 4/025 is incomplete pending reclassification of documents from groups H04W 4/04, H04W 4/043 and H04W 4/046. Groups H04W 4/04, H04W 4/043, H04W 4/046 and H04W 4/025 should be considered in order to perform a complete search.
- E H04W 4/026
- • {using orientation information, e.g. compass}
- WARNING**
Group H04W 4/026 is incomplete pending reclassification of documents from groups H04W 4/04, H04W 4/043 and H04W 4/046. Groups H04W 4/04, H04W 4/043, H04W 4/046 and H04W 4/026 should be considered in order to perform a complete search.
- E H04W 4/027
- • {using movement velocity, acceleration information}
- WARNING**
Group H04W 4/027 is incomplete pending reclassification of documents from groups H04W 4/04, H04W 4/043 and H04W 4/046. Groups H04W 4/04, H04W 4/043, H04W 4/046 and H04W 4/027 should be considered in order to perform a complete search.
- D H04W 4/028
- • {using historical or predicted position information, e.g. trajectory data} <administratively transferred to [H04W 4/029](#)>
- N H04W 4/029
- • Location-based management or tracking services
- WARNING**
Group H04W 4/029 is incomplete pending reclassification of documents from groups H04W 4/02, H04W 4/04, H04W 4/043 and H04W 4/046. Groups H04W 4/02, H04W 4/04, H04W 4/043, H04W 4/046 and H04W 4/029 should be considered in order to perform a complete search.

- F H04W 4/04
(Frozen)
- {using association of physical positions and logical data} in a dedicated environment, e.g. buildings or vehicles
- WARNING**
Group H04W 4/04 is no longer used for the classification of documents as of February 1, 2018. The content of this group is being reclassified into groups H04W 4/02 – H04W 4/029, and H04W 4/30 – H04W 4/48. All groups listed in this Warning should be considered in order to perform a complete search.
- F H04W 4/043
(Frozen)
- • {using ambient awareness, e.g. involving buildings using floor or room numbers}
- WARNING**
Group H04W 4/043 is no longer used for the classification of documents as of February 1, 2018. The content of this group is being reclassified into groups H04W 4/02 – H04W 4/029, and H04W 4/33. All groups listed in this Warning should be considered in order to perform a complete search.
- F H04W 4/046
(Frozen)
- • {involving vehicles, e.g. floating traffic data [FTD] or vehicle traffic prediction}
- WARNING**
Group H04W 4/046 is no longer used for the classification of documents as of February 1, 2018. The content of this group is being reclassified into groups H04W 4/02 – H04W 4/029, and H04W 4/40 – H04W 4/48. All groups listed in this Warning should be considered in order to perform a complete search.

Project: RP0498 (H04W)

- M H04W 4/06
- Selective distribution or of broadcast {application services services, e.g. multimedia broadcast multicast service [MBMS]; Mobile application} services Services to user groups; One-way selective calling services-{{connection management for selective distribution or broadcast H04W 76/002; resource management for broadcast services H04W 72/005}}

Project: RP0501 (H04W)

- M H04W 4/08
- • User group management-{{group management mechanisms in peer-to-peer network applications H04L 67/1044; processing of subscriber group data H04W 8/186}}

Project: RP0498 (H04W)

- M H04W 4/10
- • Push-to-Talk {mobile application services} [PTT] or Push-on On-Call {mobile application} services-{{arrangements for real-time multimedia Push-to-X- Services H04L 65/4061; connection management for Push-to-Talk or Push-on-Call services H04W 76/005}}

Project: RP0501 (H04W)

- M H04W 4/12
- {Mobile application service signalling using} messaging, e.g. SMS [Short Message Service] Messaging; {Mobile application service signalling using} mailboxes Mailboxes; {Mobile application service signalling using} announcements, e.g. informing users on the status or progress of a communication request-{{Announcements (message switching systems H04L 51/00; voice mail systems H04M 3/533; arrangements for providing announcements H04M 3/487)}}

- M H04W 4/14
- ~~{Mobile application service signalling using}~~ short *Short* messaging services, e.g. *short message services [SMS]* or *USSD [Unstructured Supplementary Service Data unstructured supplementary service data [USSD]*
- M H04W 4/16
- ~~{Mobile application service signalling using}~~ communication *Communication*-related supplementary services, e.g. call-transfer or call-hold ~~{{automatic or semi-automatic exchange systems providing special services or facilities to subscribers H04M 3/42}}~~
- M H04W 4/18
- ~~{Customizing content of application services or}~~ information *Information* format or content conversion, e.g. adaptation by the network of the transmitted or received information for the purpose of wireless delivery to users or terminals ~~{{message adaptation based on network or terminal capabilities for message switching systems H04L 51/06; network arrangements or communication protocols for networked applications involving intermediate processing or storage in the network, e.g. proxy, H04L 67/28; }}~~
- M H04W 4/185
- ~~{by embedding added-value information into content, e.g. geo-tagging (intermediate arrangements for adding application control or application functional data H04L 67/2804)}~~
- C H04W 4/20
- *Services signaling*; ~~{Signalling of application services or}~~ auxiliary *Auxiliary* data signalling, i.e. transmitting data via a non-traffic channel
- WARNING**
*Group H04W 4/20 is impacted by reclassification into groups H04W 4/21 and H04W 4/23.
 Groups H04W 4/20, H04W 4/21, and H04W 4/23 should be considered in order to perform a complete search.*
- U H04W 4/203
- ~~{for converged personal network application service interworking, e.g. OMA converged personal network services [CPNS]}~~
- D H04W 4/206
- ~~{for socializing or targeting users of the same wireless application service, e.g. joint gesture signalling or mobile advertising signalling (marketing G06Q 30/02; input arrangements for transferring data to be processed into a form capable of being handled by the computer for entering handwritten data G06F 3/04883)}~~
 <administratively transferred to [H04W 4/21](#)>
- N H04W 4/21
- ~~for social networking applications~~
- WARNING**
*Group [H04W 4/21](#) is incomplete pending reclassification of documents from group [H04W 4/20](#).
 Groups [H04W 4/20](#) and [H04W 4/21](#) should be considered in order to perform a complete search.*
- D H04W 4/22
- ~~{Mobile application service}~~ emergency connection handling ~~{or mobile application services handling urgent or hazardous situations, e.g. 3GPP earthquake and tsunami warning system [ETWS] (connection management for emergency connection handling H04W 76/007; centralised arrangements for answering calls for emergency applications requiring operator intervention H04M 3/5116)}~~
 <administratively transferred to [H04W 4/90](#)>
- N H04W 4/23
- ~~for mobile advertising~~
- WARNING**
*Group [H04W 4/23](#) is incomplete pending reclassification of documents from group [H04W 4/20](#).
 Groups [H04W 4/20](#) and [H04W 4/23](#) should be considered in order to perform a complete search.*
- E H04W 4/24
- Accounting or billing

- D H04W 4/26
- Usage measurement
<administratively transferred to [H04W 4/24](#)>
- N H04W 4/30
- Services specially adapted for particular environments, situations or purposes
WARNING
Group [H04W 4/30](#) is incomplete pending reclassification of documents from group [H04W 4/04](#).
Groups [H04W 4/04](#) and [H04W 4/30](#) should be considered in order to perform a complete search.
- N H04W 4/33
- for indoor environments, e.g. buildings
WARNING
Group [H04W 4/33](#) is incomplete pending reclassification of documents from groups [H04W 4/04](#) and [H04W 4/043](#).
Groups [H04W 4/04](#), [H04W 4/043](#) and [H04W 4/33](#) should be considered in order to perform a complete search.
- N H04W 4/35
- for the management of goods or merchandise
WARNING
Group [H04W 4/35](#) is incomplete pending reclassification of documents from group [H04W 4/04](#).
Groups [H04W 4/04](#) and [H04W 4/35](#) should be considered in order to perform a complete search.
- N H04W 4/38
- for collecting sensor information
WARNING
Group [H04W 4/38](#) is incomplete pending reclassification of documents from group [H04W 4/04](#).
Groups [H04W 4/04](#) and [H04W 4/38](#) should be considered in order to perform a complete search.
- N H04W 4/40
- for vehicles, e.g. vehicle-to-pedestrians [V2P]
WARNING
Group [H04W 4/40](#) is incomplete pending reclassification of documents from groups [H04W 4/04](#) and [H04W 4/046](#).
Groups [H04W 4/04](#), [H04W 4/046](#) and [H04W 4/40](#) should be considered in order to perform a complete search.
- N H04W 4/42
- for mass transport vehicles, e.g. buses, trains or aircraft
WARNING
Group [H04W 4/42](#) is incomplete pending reclassification of documents from groups [H04W 4/04](#) and [H04W 4/046](#).
Groups [H04W 4/04](#), [H04W 4/046](#) and [H04W 4/42](#) should be considered in order to perform a complete search.
- N H04W 4/44
- for communication between vehicles and infrastructures, e.g. vehicle-to-cloud [V2C] or vehicle-to-home [V2H]
WARNING
Group [H04W 4/44](#) is incomplete pending reclassification of documents from groups [H04W 4/04](#) and [H04W 4/046](#).
Groups [H04W 4/04](#), [H04W 4/046](#) and [H04W 4/44](#) should be considered in order to perform a complete search.

- N H04W 4/46
- • • for vehicle-to-vehicle communication [V2V]
- WARNING
Group [H04W 4/46](#) is incomplete pending reclassification of documents from groups [H04W 4/04](#) and [H04W 4/046](#). Groups [H04W 4/04](#), [H04W 4/046](#) and [H04W 4/46](#) should be considered in order to perform a complete search.
- N H04W 4/48
- • • for in-vehicle communication
- WARNING
Group [H04W 4/48](#) is incomplete pending reclassification of documents from groups [H04W 4/04](#) and [H04W 4/046](#). Groups [H04W 4/04](#), [H04W 4/046](#) and [H04W 4/48](#) should be considered in order to perform a complete search.
- N H04W 4/50
- Service provisioning or reconfiguring
- N H04W 4/60
- Subscription-based services using application servers or record carriers, e.g. SIM application toolkits
- N H04W 4/70
- Services for machine-to-machine communication [M2M] or machine type communication [MTC]
- N H04W 4/80
- Services using short range communication, e.g. near-field communication [NFC], radio-frequency identification [RFID] or low energy communication
- N H04W 4/90
- Services for handling of emergency or hazardous situations, e.g. earthquake and tsunami warning systems [ETWS]
- U H04W 28/00** **Network traffic or resource management**
- U H04W 28/02
- Traffic management, e.g. flow control or congestion control
- M H04W 28/0215
- • {based on user or device properties, e.g. MTC-capable devices (**mobile application services or facilities specially adapted for wireless communication networks for machine-to-machine communication H04W 4/005**; **services for machine-to-machine communication [M2M] or machine type communication [MTC] H04W 4/70**; wireless resource selection or allocation plan definition based on terminal or device properties [H04W 72/048](#))}

Project: RP0498 (H04W)**M H04W 76/00** **Connection management, e.g. connection set-up, manipulation or release**NOTE

In this main group, the first place priority rule is not applied, i.e. the common rule is applied.

- D H04W 76/002
- {for selective distribution or broadcast} <administratively transferred to [H04W 76/40](#)>
- D H04W 76/005
- • {for Push-to-Talk or Push-on-Call services} <administratively transferred to [H04W 76/45](#)>
- D H04W 76/007
- {for emergency connection handling} <administratively transferred to [H04W 76/50](#)>
- D H04W 76/02
- Connection set-up <administratively transferred to [H04W 76/10](#)>
- D H04W 76/021
- • {Allocation or use of connection identifiers} <administratively transferred to [H04W 76/11](#)>
- D H04W 76/022
- • {Set-up of transport tunnels} <administratively transferred to [H04W 76/12](#)>
- D H04W 76/023
- • {Direct mode set-up} <administratively transferred to [H04W 76/14](#)>

- D H04W 76/025
 - • {Set-up of multiple wireless link connections}
 - <administratively transferred to [H04W 76/15](#)>
- D H04W 76/026
 - • • {involving adjacent core network technologies}
 - <administratively transferred to [H04W 76/16](#)>
- D H04W 76/027
 - • {Management of set-up rejection or failure}
 - <administratively transferred to [H04W 76/18](#)>
- D H04W 76/028
 - • {Connection re-establishment}
 - <administratively transferred to [H04W 76/19](#)>
- D H04W 76/04
 - Connection manipulation
 - <administratively transferred to [H04W 76/20](#)>
- D H04W 76/041
 - • {Manipulation of transport tunnels}
 - <administratively transferred to [H04W 76/22](#)>
- D H04W 76/043
 - • {Direct mode connection manipulation}
 - <administratively transferred to [H04W 76/23](#)>
- D H04W 76/045
 - • {Maintenance of an established connection}
 - <administratively transferred to [H04W 76/25](#)>
- D H04W 76/046
 - • {Transitions among RRC [Radio Resource Control] states}
 - <administratively transferred to [H04W 76/27](#)>
- D H04W 76/048
 - • {Discontinuous transmission or reception [DTX, DRX]}
 - <administratively transferred to [H04W 76/28](#)>
- D H04W 76/06
 - Connection release
 - <administratively transferred to [H04W 76/30](#)>
- D H04W 76/062
 - • {Release of transport tunnels}
 - <administratively transferred to [H04W 76/32](#)>
- D H04W 76/064
 - • {Selective release of ongoing connections}
 - <administratively transferred to [H04W 76/34](#)>
- D H04W 76/066
 - • • {for the purpose of reassigning the resources associated with the released connections}
 - <administratively transferred to [H04W 76/36](#)>
- D H04W 76/068
 - • {Connection release triggered by timers}
 - <administratively transferred to [H04W 76/38](#)>
- N H04W 76/10
 - Connection setup
- N H04W 76/11
 - • Allocation or use of connection identifiers
- N H04W 76/12
 - • Setup of transport tunnels
- N H04W 76/14
 - • Direct-mode setup
- N H04W 76/15
 - • Setup of multiple wireless link connections
- N H04W 76/16
 - • • Involving different core network technologies, e.g. a packet-switched [PS] bearer in combination with a circuit-switched [CS] bearer
- N H04W 76/18
 - • Management of setup rejection or failure
- N H04W 76/19
 - • Connection re-establishment
- N H04W 76/20
 - Manipulation of established connections
- N H04W 76/22
 - • Manipulation of transport tunnels
- N H04W 76/23
 - • Manipulation of direct-mode connections
- N H04W 76/25
 - • Maintenance of established connections
- N H04W 76/27
 - • Transitions between radio resource control [RRC] states
- N H04W 76/28
 - • Discontinuous transmission [DTX]; Discontinuous reception [DRX]
- N H04W 76/30
 - Connection release
- N H04W 76/32
 - • Release of transport tunnels

- N H04W 76/34
 - • Selective release of ongoing connections
- N H04W 76/36
 - • • for reassigning the resources associated with the released connections
- N H04W 76/38
 - • triggered by timers
- N H04W 76/40
 - for selective distribution or broadcast
- N H04W 76/45
 - • for Push-to-Talk [PTT] or Push-to-Talk over cellular [PoC] services
- N H04W 76/50
 - for emergency connections