

## Compilation of Changes to the CPC Scheme Between 2025.05 and 2025.08

### Presentation Details

- Entries for new symbols and headings: *Black text in italics*
- Entries for existing symbols and headings
- text insertions: *Green text in italics*
- 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, "Unknown" is given for the Project information.
  - Projects ending in "-F" indicate finalisation after reclassification was completed.

### Project: RP11513-F (A01C)

- M A01C 7/042      • • {using pneumatic means}
- WARNING  
Group A01C 7/042 is impacted by reclassification into groups A01C 7/0443 and A01C 7/0445.  
Groups A01C 7/042, A01C 7/0443 and A01C 7/0445 should be considered in order to perform a complete search.
- M A01C 7/044      • • • {Pneumatic seed wheels}
- WARNING  
Group A01C 7/044 is impacted by reclassification into groups A01C 7/0445 and A01C 7/0443.  
Groups A01C 7/044, A01C 7/0445 and A01C 7/0443 should be considered in order to perform a complete search.
- M A01C 7/0443      • • • {Seed singulators}
- WARNING  
Group A01C 7/0443 is incomplete pending reclassification of documents from groups A01C 7/042, A01C 7/044 and A01C 7/046.  
All groups listed in this Warning should be considered in order to perform a complete search.
- M A01C 7/0445      • • • {Seed ejectors}
- WARNING  
Group A01C 7/0445 is incomplete pending reclassification of documents from groups A01C 7/042, A01C 7/044 and A01C 7/046.  
All groups listed in this Warning should be considered in order to perform a complete search.
- M A01C 7/046      • • • {with perforated seeding discs}
- WARNING  
Group A01C 7/046 is impacted by reclassification into groups A01C 7/0445 and A01C 7/0443.  
Groups A01C 7/046, A01C 7/0445 and A01C 7/0443 should be considered in order to perform a complete search.
- U A01C 7/08      • Broadcast seeders; Seeders depositing seeds in rows
- U A01C 7/16      • • Seeders with other distributing devices, e.g. brushes, discs, screws or slides

- D A01C 7/166  
—(Frozen)
- • • {Centrifugal distributors}
- WARNING  
Group A01C 7/166 is no longer used for the classification of documents as of May 1, 2023.  
The content of this group is being reclassified into groups A01C 17/00, A01C 17/001, A01C 17/003, A01C 17/005, A01C 17/006 and A01C 17/008. All groups listed in this Warning should be considered in order to perform a complete search.

**M A01C 17/00 Fertilisers or seeders with centrifugal wheels**

WARNING

Groups A01C 17/00 – A01C 17/008 are incomplete pending reclassification of documents from group A01C 7/166.  
All groups listed in this Warning should be considered in order to perform a complete search.

**Project: RP11659 (A01K)**

- U A01K ANIMAL HUSBANDRY; AVICULTURE; APICULTURE; PISCICULTURE; FISHING; REARING OR BREEDING ANIMALS, NOT OTHERWISE PROVIDED FOR; NEW BREEDS OF ANIMALS**
- NOTE  
This subclass covers:
- equipment for the care, culture or rearing of all animals, or for obtaining their products, unless provided for elsewhere, e.g. milking [A01J](#), shoeing animals [A01L](#), veterinary devices [A61D](#), culture of animal cells [C12M](#), [C12N](#);
  - methods of breeding animals or new animal breeds.

WARNING

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

- U A01K 1/00 Housing animals; Equipment therefor**
- U A01K 1/0005 • {Stable partitions (devices for fastening animals [A01K 1/06](#); pasturing enclosures [A01K 3/00](#))}
- U A01K 1/0017 • • {Gates, doors}
- U A01K 1/0029 • • • {Crowding gates or barriers}
- C A01K 1/0047 • {Air-conditioning, e.g. ventilation, of animal housings (*Laboratory cage ventilation A01K 1/0313; Cat or dog houses with climate control means A01K 1/0335*)}

WARNING

Group A01K 1/0047 is impacted by reclassification into groups A01K 1/0313 and A01K 1/0335.

Groups A01K 1/0047, A01K 1/0313 and A01K 1/0335 should be considered in order to perform a complete search.

- M A01K 1/01 • *Removal of dung or urine* {; Removal of ~~dung or urine, {e.g. manure~~ from stables}([A01K 1/015](#) takes precedence; ~~{from poultry houses A01K 31/04}~~)
- C A01K 1/0107 • • {Cat trays; Dog urinals; Toilets for pets}

WARNING

Group A01K 1/0107 is impacted by reclassification into groups A01K 1/0112 and A01K 1/01577.

*Groups A01K 1/0107, A01K 1/0112 and A01K 1/01577 should be considered in order to perform a complete search.*

- U A01K 1/011
  - • {with means for removing excrement ([A01K 1/0114](#) and [A01K 1/0117](#) take precedence)}
- N A01K 1/0112
  - • {Paw cleaning arrangements therefor}

WARNING  
Group [A01K 1/0112](#) is incomplete pending reclassification of documents from groups [A01K 1/0107](#) and [A01K 1/0114](#).  
Groups [A01K 1/0107](#), [A01K 1/0114](#) and [A01K 1/0112](#) should be considered in order to perform a complete search.
- C A01K 1/0114
  - • {Litter boxes with screens for separating excrement from litter}

WARNING  
Group A01K 1/0114 is impacted by reclassification into groups [A01K 1/0112](#) and [A01K 1/0116](#).  
Groups [A01K 1/0114](#), [A01K 1/0112](#) and [A01K 1/0116](#) should be considered in order to perform a complete search.
- N A01K 1/0116
  - • • {Scoops for litter}

WARNING  
Group [A01K 1/0116](#) is incomplete pending reclassification of documents from group [A01K 1/0114](#).  
Groups [A01K 1/0114](#) and [A01K 1/0116](#) should be considered in order to perform a complete search.
- U A01K 1/0146
  - {by means of manure-loaders, manure-ramps or manure-elevators associated with in-house removal systems (independent manure-loaders [A01C 3/04](#))}
- C A01K 1/015
  - Floor coverings, e.g. bedding-down sheets {; Stable floors}

WARNING  
Group A01K 1/015 is impacted by reclassification into group [A01K 1/0156](#).  
Groups [A01K 1/015](#) and [A01K 1/0156](#) should be considered in order to perform a complete search.
- U A01K 1/0152
  - • {Litter}
- U A01K 1/0155
  - • • {comprising organic material}
- N A01K 1/0156
  - • {Devices for mechanical bedding manipulation}

WARNING  
Group [A01K 1/0156](#) is incomplete pending reclassification of documents from groups [A01K 1/015](#) and [A01K 31/04](#).  
Groups [A01K 1/015](#), [A01K 31/04](#) and [A01K 1/0156](#) should be considered in order to perform a complete search.
- C A01K 1/0157
  - • {Mats; Sheets}

WARNING  
Group [A01K 1/0157](#) is impacted by reclassification into group [A01K 1/01577](#).  
Groups [A01K 1/0157](#) and [A01K 1/01577](#) should be considered in order to perform a complete search.
- N A01K 1/01577
  - • • {Excrement mats for pets}

WARNING  
Group [A01K 1/01577](#) is incomplete pending reclassification of documents from groups [A01K 1/0107](#) and [A01K 1/0157](#).

Groups [A01K 1/0107](#), [A01K 1/0157](#) and [A01K 1/01577](#) should be considered in order to perform a complete search.

- U A01K 1/02      • Pigsties; Dog-kennels; Rabbit-hutches or the like
  - M A01K 1/0236      • {Transport boxes, bags, cages, baskets, harnesses for animals; Fittings therefor (for poultry [A01K 31/002](#); ~~for pigeons A01K 31/07~~; *Transportable cages, e.g. for pigeons A01K 31/07*)}
  - M A01K 1/029      • • {~~Boxes, bags, cages, baskets, harnesses especially~~ *specialy* adapted for carrying the animal on the body of a person (~~baby carriers A47D 13/02~~)}
  - U A01K 1/03      • • Housing for domestic or laboratory animals
  - C A01K 1/031      • • {Cages for laboratory animals; Cages for measuring metabolism of animals}
- WARNING  
Group [A01K 1/031](#) is impacted by reclassification into groups [A01K 1/0313](#), [A01K 1/0317](#) and [A01K 15/0203](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N A01K 1/0313      • • • {comprising forced ventilation means}
- WARNING  
Group [A01K 1/0313](#) is incomplete pending reclassification of documents from groups [A01K 1/0047](#) and [A01K 1/031](#).  
Groups [A01K 1/0047](#), [A01K 1/031](#) and [A01K 1/0313](#) should be considered in order to perform a complete search.
- N A01K 1/0317      • • • {Monitoring or measuring animal properties or behaviour}
- WARNING  
Group [A01K 1/0317](#) is incomplete pending reclassification of documents from groups [A01K 1/031](#), [A01K 29/00](#) and [A01K 29/005](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- U A01K 1/032      • • • {Rabbit-hutches or cages}
  - C A01K 1/033      • • • {Cat or dog houses}
- WARNING  
Group [A01K 1/033](#) is impacted by reclassification into group [A01K 1/0335](#).  
Groups [A01K 1/033](#) and [A01K 1/0335](#) should be considered in order to perform a complete search.
- N A01K 1/0335      • • • {with climate control means, e.g. heating or cooling}
- WARNING  
Group [A01K 1/0335](#) is incomplete pending reclassification of documents from groups [A01K 1/0047](#), [A01K 1/033](#) and [A01K 1/034](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- C A01K 1/034      • • • {Dog-kennels}
- WARNING  
Group [A01K 1/034](#) is impacted by reclassification into group [A01K 1/0335](#).  
Groups [A01K 1/034](#) and [A01K 1/0335](#) should be considered in order to perform a complete search.
- U A01K 1/035      • • Devices for use in keeping domestic animals, e.g. fittings in housings or dog beds

- M A01K 1/0353 • • • {~~Dog beds~~ *Pet beds, e.g. dog beds*}
- U A01K 1/04 • Tethering-poles or the like
- U A01K 1/06 • Devices for fastening animals, e.g. halters, toggles, neck-bars or chain fastenings
- M A01K 1/0613 • • {Devices for immobilisation or restraint of animals, e.g. chutes ~~(pens for animals while being shod A01L 13/00; appliances for supporting or fettering animals for operative purposes A61D 3/00)~~}
- U A01K 1/064 • • Chain fastenings
- U A01K 1/08 • Arrangements for simultaneously releasing several animals
- C A01K 1/10 • Feed racks

**WARNING**

*Group A01K 1/10 is incomplete pending reclassification of documents from groups A01K 1/105 and A01K 5/01.*

*Group A01K 1/10 is also impacted by reclassification into groups A01K 1/105 and A01K 5/01.*

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

- C A01K 1/105 • • {Movable feed barriers; ~~slides or fences~~}

**WARNING**

*Group A01K 1/105 is incomplete pending reclassification of documents from groups A01K 1/10, A01K 5/01 and A01K 5/0107.*

*Group A01K 1/105 is also impacted by reclassification into groups A01K 1/10, A01K 5/01 and A01K 5/0107.*

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

- M A01K 5/00 **Feeding devices for stock or game (A01K 1/10 takes precedence; feeding devices for poultry or other birds A01K 39/00-); Feeding wagons; Feeding stacks}**

- C A01K 5/01 • Feed troughs; Feed pails ~~-(A01K 1/10 takes precedence)-~~

**WARNING**

*Group A01K 5/01 is incomplete pending reclassification of documents from groups A01K 1/10 and A01K 1/105.*

*Group A01K 5/01 is also impacted by reclassification into groups A01K 1/105, A01K 5/0107, A01K 5/0108 and A01K 1/10.*

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

- C A01K 5/0107 • • {Transportable fodder pails or troughs}

**WARNING**

*Group A01K 5/0107 is incomplete pending reclassification of documents from groups A01K 1/105 and A01K 5/01.*

*Group A01K 5/0107 is also impacted by reclassification into group A01K 1/105.*

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

- N A01K 5/0108 • • {Slow feeders, i.e. feeders provided with means to slow up the ingestion of food (A01K 5/0114 takes precedence)}

**WARNING**

*Group A01K 5/0108 is incomplete pending reclassification of documents from group A01K 5/01.*

Groups [A01K 5/01](#) and [A01K 5/0108](#) should be considered in order to perform a complete search.

- |   |             |   |
|---|-------------|---|
| C | A01K 5/0114 | <ul style="list-style-type: none"> <li>• {Pet food dispensers; Pet food trays (time-controlled <a href="#">A01K 5/0291</a>)}</li> </ul> <p><u>WARNING</u><br/>Group <a href="#">A01K 5/0114</a> is impacted by reclassification into groups <a href="#">A01K 5/0287</a> and <a href="#">A01K 15/0201</a>.<br/>Groups <a href="#">A01K 5/0114</a>, <a href="#">A01K 5/0287</a> and <a href="#">A01K 15/0201</a> should be considered in order to perform a complete search.</p>    |
| U | A01K 5/015  | <ul style="list-style-type: none"> <li>• Licking-stone holders {; Other dispensers for minerals}</li> </ul>   |
| C | A01K 5/02   | <ul style="list-style-type: none"> <li>• Automatic devices {(automatic identification devices for stock <a href="#">A01K 11/006</a>)}</li> </ul> <p><u>WARNING</u><br/>Group <a href="#">A01K 5/02</a> is impacted by reclassification into groups <a href="#">A01K 5/0218</a> and <a href="#">A01K 5/0287</a>.<br/>Groups <a href="#">A01K 5/02</a>, <a href="#">A01K 5/0218</a> and <a href="#">A01K 5/0287</a> should be considered in order to perform a complete search.</p> |
| C | A01K 5/0216 | <ul style="list-style-type: none"> <li>• {for the distribution of liquid fodder (<a href="#">A01K 9/00</a> takes precedence)}</li> </ul> <p><u>WARNING</u><br/>Group <a href="#">A01K 5/0216</a> is impacted by reclassification into group <a href="#">A01K 5/0218</a>.<br/>Groups <a href="#">A01K 5/0216</a> and <a href="#">A01K 5/0218</a> should be considered in order to perform a complete search.</p>   |
| N | A01K 5/0218 | <ul style="list-style-type: none"> <li>• • {Supply of liquid and solid mixture of animal feedstuffs, e.g. water pipe for pig's fodder}</li> </ul> <p><u>WARNING</u><br/>Group <a href="#">A01K 5/0218</a> is incomplete pending reclassification of documents from groups <a href="#">A01K 5/02</a>, <a href="#">A01K 5/0216</a> and <a href="#">A01K 5/0225</a>.<br/>All groups listed in this Warning should be considered in order to perform a complete search.</p>           |
| C | A01K 5/0225 | <ul style="list-style-type: none"> <li>• • {Gravity replenishment from a reserve, e.g. a hopper (for poultry <a href="#">A01K 39/012</a>)}</li> </ul> <p><u>WARNING</u><br/>Group <a href="#">A01K 5/0225</a> is impacted by reclassification into group <a href="#">A01K 5/0218</a>.<br/>Groups <a href="#">A01K 5/0225</a> and <a href="#">A01K 5/0218</a> should be considered in order to perform a complete search.</p>  |
| U | A01K 5/025  | <ul style="list-style-type: none"> <li>• • {with doors or lids activated by the animals to access feeding place or trough}</li> </ul>   |
| U | A01K 5/0266 | <ul style="list-style-type: none"> <li>• • {with stable trolleys, e.g. suspended}</li> </ul>  |
| C | A01K 5/0275 | <ul style="list-style-type: none"> <li>• • {with mechanisms for delivery of measured doses (<del>A01K 5/0233 takes precedence</del>)}</li> </ul> <p><u>WARNING</u><br/>Group <a href="#">A01K 5/0275</a> is impacted by reclassification into group <a href="#">A01K 5/0287</a>.<br/>Groups <a href="#">A01K 5/0275</a> and <a href="#">A01K 5/0287</a> should be considered in order to perform a complete search.</p>   |
| U | A01K 5/0283 | <ul style="list-style-type: none"> <li>• • • {by weight}</li> </ul>   |
| N | A01K 5/0287 | <ul style="list-style-type: none"> <li>• • {for opening food cartridges}</li> </ul> <p><u>WARNING</u><br/>Group <a href="#">A01K 5/0287</a> is incomplete pending reclassification of documents from groups <a href="#">A01K 5/0114</a>, <a href="#">A01K 5/02</a>, <a href="#">A01K 5/0275</a> and <a href="#">A01K 5/0291</a>.</p>  |



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

- C A01K 5/0291
- {with timing mechanisms, e.g. pet feeders}

**WARNING**

*Group [A01K 5/0291](#) is impacted by reclassification into group [A01K 5/0287](#). Groups [A01K 5/0291](#) and [A01K 5/0287](#) should be considered in order to perform a complete search.*

**U A01K 7/00**

**Watering equipment for stock or game**

- C A01K 7/02

- Automatic devices ~~{; Medication dispensers}~~

**WARNING**

*Group [A01K 7/02](#) is impacted by reclassification into group [A01K 7/028](#). Groups [A01K 7/02](#) and [A01K 7/028](#) should be considered in order to perform a complete search.*

- U A01K 7/022

- {Pumps actuated by the drinking animal}

- U A01K 7/027

- {Drinking equipment with water heaters, coolers or means for preventing freezing}

- N A01K 7/028

- {for delivering supplements, medicines or similar}

**WARNING**

*Group [A01K 7/028](#) is incomplete pending reclassification of documents from group [A01K 7/02](#).*

*Groups [A01K 7/02](#) and [A01K 7/028](#) should be considered in order to perform a complete search.*

**U A01K 11/00**

**Marking of animals (marking poultry or other birds [A01K 35/00](#))**

- U A01K 11/006

- {Automatic identification systems for animals, e.g. electronic devices, transponders for animals (identification systems for access to feeding pens [A01K 1/0209](#); ear tags with electronic identification means [A01K 11/004](#))}

- M A01K 11/008

- {incorporating **GPS** *global positioning system* **[GPS]**}

**U A01K 13/00**

**Devices for grooming or caring of animals, e.g. curry-combs; Fetlock rings; Tail-holders (as part of the harness [B68B 5/04](#)); Devices for preventing crib-biting; Washing devices; Protection against weather conditions or insects**

- C A01K 13/002

- {Curry-combs; Brushes (shearing sheep [B26B 19/24](#))}

**WARNING**

*Group [A01K 13/002](#) is impacted by reclassification into group [A01K 13/0021](#). Groups [A01K 13/002](#) and [A01K 13/0021](#) should be considered in order to perform a complete search.*

- N A01K 13/0021

- {brushes with suction attachment}

**WARNING**

*Group [A01K 13/0021](#) is incomplete pending reclassification of documents from group [A01K 13/002](#).*

*Groups [A01K 13/002](#) and [A01K 13/0021](#) should be considered in order to perform a complete search.*

- C A01K 13/003

- {Devices for applying insecticides or medication ([A01K 27/007](#) takes precedence; ~~for veterinary purposes [A61D 7/00](#)~~)}

**WARNING**

*Group [A01K 13/003](#) is impacted by reclassification into group [A01K 13/0034](#).*

*Groups [A01K 13/003](#) and [A01K 13/0034](#) should be considered in order to perform a complete search.*

N A01K 13/0034

- {Liquid or pasty material dispensers actuated by animal contact, e.g. greasers or lubricators}

WARNING

Group [A01K 13/0034](#) is incomplete pending reclassification of documents from groups [A01K 13/003](#) and [A01K 13/004](#).

Groups [A01K 13/003](#), [A01K 13/004](#) and [A01K 13/0034](#) should be considered in order to perform a complete search.

C A01K 13/004

- {Rubbing- posts}

WARNING

Group [A01K 13/004](#) is impacted by reclassification into group [A01K 13/0034](#).

Groups [A01K 13/004](#) and [A01K 13/0034](#) should be considered in order to perform a complete search.

U A01K 15/00

**Devices for taming animals, e.g. nose-rings or hobbles; Devices for overturning animals in general; Training or exercising equipment; Covering boxes**

U A01K 15/006

- {Devices for impeding passage of animals under fences, preventing butting or the like}

C A01K 15/02

- Training or exercising equipment, e.g. mazes or labyrinths for animals ([A01K 15/04](#) takes precedence) {; Electric shock devices-~~(circuits therefor H03K 3/537)~~; Toys specially adapted for animals}

WARNING

Group [A01K 15/02](#) is impacted by reclassification into groups [A01K 15/0201](#), [A01K 15/0203](#) and [A01K 15/0207](#).

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

N A01K 15/0201

- • {Treat dispensers}

WARNING

Group [A01K 15/0201](#) is incomplete pending reclassification of documents from groups [A01K 5/0114](#), [A01K 15/02](#) and [A01K 15/025](#).

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

N A01K 15/0203

- • {Labyrinths or mazes}

WARNING

Group [A01K 15/0203](#) is incomplete pending reclassification of documents from groups [A01K 1/031](#) and [A01K 15/02](#).

Groups [A01K 1/031](#), [A01K 15/02](#) and [A01K 15/0203](#) should be considered in order to perform a complete search.

N A01K 15/0207

- • {for scent training}

WARNING

Group [A01K 15/0207](#) is incomplete pending reclassification of documents from group [A01K 15/02](#).

Groups [A01K 15/02](#) and [A01K 15/0207](#) should be considered in order to perform a complete search.



- T A01K 15/021
- • {Electronic training devices specially adapted for dogs or cats}
- WARNING  
*Group A01K 15/021 is incomplete pending reclassification of documents from group A01K 15/029.  
 Groups A01K 15/029 and A01K 15/021 should be considered in order to perform a complete search.*
- T A01K 15/022
- • • {Anti-barking devices}
- WARNING  
*Group A01K 15/022 is incomplete pending reclassification of documents from groups A01K 15/029 and A01K 27/009.  
 Groups A01K 15/029, A01K 27/009 and A01K 15/022 should be considered in order to perform a complete search.*
- T A01K 15/023
- • • {Anti-evasion devices}
- WARNING  
*Group A01K 15/023 is incomplete pending reclassification of documents from groups A01K 15/029 and A01K 27/009.  
 Groups A01K 15/029, A01K 27/009 and A01K 15/023 should be considered in order to perform a complete search.*
- C A01K 15/025
- • {Toys specially adapted for animals}
- WARNING  
*Group A01K 15/025 is impacted by reclassification into groups A01K 15/0201, A01K 15/0252, A01K 15/0257 and A01K 15/0258.  
 All groups listed in this Warning should be considered in order to perform a complete search.*
- N A01K 15/0252
- • • {Fetching toys or devices to throw toys}
- WARNING  
*Group [A01K 15/0252](#) is incomplete pending reclassification of documents from group [A01K 15/025](#).  
 Groups [A01K 15/025](#) and [A01K 15/0252](#) should be considered in order to perform a complete search.*
- N A01K 15/0257
- • • {specially adapted for cats, e.g. resembling prey}
- WARNING  
*Group [A01K 15/0257](#) is incomplete pending reclassification of documents from group [A01K 15/025](#).  
 Groups [A01K 15/025](#) and [A01K 15/0257](#) should be considered in order to perform a complete search.*
- N A01K 15/0258
- • • {Squeaker toys; Toys that make noise when squeezed}
- WARNING  
*Group [A01K 15/0258](#) is incomplete pending reclassification of documents from group [A01K 15/025](#).  
 Groups [A01K 15/025](#) and [A01K 15/0258](#) should be considered in order to perform a complete search.*
- C A01K 15/027
- • {Exercising equipment, e.g. tread mills, carousels-~~equipment for racing or riding sports events A63K~~}
- WARNING  
*Group [A01K 15/027](#) is impacted by reclassification into group [A01K 15/0275](#).*

*Groups A01K 15/027 and A01K 15/0275 should be considered in order to perform a complete search.*

N A01K 15/0275

- {comprising fitness monitoring devices, e.g. for equines or dogs}

**WARNING**

Group [A01K 15/0275](#) is incomplete pending reclassification of documents from groups [A01K 15/027](#), [A01K 29/00](#) and [A01K 29/005](#).

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

T A01K 15/028

- {Cow trainers}

**WARNING**

Group [A01K 15/028](#) is incomplete pending reclassification of documents from group [A01K 15/029](#).

Groups [A01K 15/029](#) and [A01K 15/028](#) should be considered in order to perform a complete search.

C A01K 15/029

- {Electric or similar shock devices *for livestock*, e.g. prods}

**WARNING**

Group [A01K 15/029](#) is impacted by reclassification into groups [A01K 15/021](#), [A01K 15/022](#), [A01K 15/023](#), [A01K 15/028](#) and [A01K 27/009](#).

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

U A01K 19/00

**Weaning apparatus**

U A01K 27/00

**Leads or collars, e.g. for dogs**

U A01K 27/003

- {Leads, leashes}

U A01K 27/004

- {Retractable leashes}

U A01K 27/008

- {with pockets or similar for carrying accessories}

C A01K 27/009

- {with electric-shock, sound, magnetic- or radio-waves emitting devices}

**WARNING**

Group [A01K 27/009](#) is incomplete pending reclassification of documents from group [A01K 15/029](#).

Group [A01K 27/009](#) is also impacted by reclassification into groups [A01K 15/022](#) and [A01K 15/023](#).

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

C A01K 29/00

**Other apparatus for animal husbandry**

**WARNING**

Group [A01K 29/00](#) is impacted by reclassification into groups [A01K 1/0317](#), [A01K 15/0275](#), [A01K 29/002](#), [A01K 29/004](#), [A01K 29/005](#) - [A01K 29/007](#) and [A61D 17/00](#) - [A61D 17/008](#).

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

N A01K 29/002

- {for monitoring or measuring size or weight of the animal, e.g. monitoring growth}

**WARNING**

Group [A01K 29/002](#) is incomplete pending reclassification of documents from groups [A01K 29/00](#) and [A01K 29/005](#).

Groups [A01K 29/00](#), [A01K 29/005](#) and [A01K 29/002](#) should be considered in order to perform a complete search.

N A01K 29/004

- {for influencing biological activity}

**WARNING**

Group [A01K 29/004](#) is incomplete pending reclassification of documents from groups [A01K 29/00](#) and [A01K 29/005](#).

Groups [A01K 29/00](#), [A01K 29/005](#) and [A01K 29/004](#) should be considered in order to perform a complete search.

C A01K 29/005

- {Monitoring or measuring activity, ~~e.g. detecting heat or mating~~}

**WARNING**

Group [A01K 29/005](#) is incomplete pending reclassification of documents from group [A01K 29/00](#).

Group [A01K 29/005](#) is also impacted by reclassification into groups [A01K 1/0317](#), [A01K 15/0275](#), [A01K 29/002](#), [A01K 29/004](#), [A01K 29/007](#), [A61D 17/00](#), [A61D 17/002](#), [A61D 17/004](#), [A61D 17/006](#) and [A61D 17/008](#). All groups listed in this Warning should be considered in order to perform a complete search.

N A01K 29/007

- {for pets}

**WARNING**

Group [A01K 29/007](#) is incomplete pending reclassification of documents from groups [A01K 29/00](#) and [A01K 29/005](#).

Groups [A01K 29/00](#), [A01K 29/005](#) and [A01K 29/007](#) should be considered in order to perform a complete search.

**U A01K 31/00**

**Housing birds**

U A01K 31/002

- {Poultry cages, e.g. transport boxes (Harvesting or transport of poultry [A01K 45/005](#))}

M A01K 31/007

- {Floors ~~{for stables A01K 1/015}~~}

U A01K 31/02

- Door appliances; Automatic door-openers

C A01K 31/04

- Dropping-boards; Devices for removing excrement

**WARNING**

Group [A01K 31/04](#) is impacted by reclassification into group [A01K 1/0156](#).

Groups [A01K 31/04](#) and [A01K 1/0156](#) should be considered in order to perform a complete search.

U A01K 31/06

- Cages {, e.g. for singing birds (for poultry [A01K 31/002](#))}

M A01K 31/07

- {Transportable cages ([A01K 31/08](#) takes precedence) ~~{; Travelling cages for pigeons; Opening or closing of cages}~~}

M A01K 31/22

- Poultry runs {; Poultry houses, including auxiliary features, e.g. feeding, watering, demanuring (~~air-conditioning of poultry runs or houses A01K 1/0047~~ [air-conditioning, e.g. ventilation, of animal housings A01K 1/0047](#))}

**M A01K 39/00**

**Feeding or drinking appliances for poultry or other birds ~~{(A01K 31/005, A01K 31/06, A01K 31/17 take precedence)}~~**

M A01K 39/01

- Feeding devices, ~~{e.g. chainfeeders}~~ ([A01K 39/04](#) takes precedence; ~~{panfeeding systems, feeding pans A01K 39/0125}~~)

**Project: RP11745 (A01M)**

**U A01M 7/00**

**Special adaptations or arrangements of liquid-spraying apparatus for purposes covered by this subclass**

- M A01M 7/005 • {Special arrangements or adaptations of the spraying or distributing parts, e.g. adaptations or mounting of the spray booms, mounting of the nozzles, protection shields (~~nozzles B05B 1/00~~; *nozzles, spray heads or other outlets B05B 1/00*; spray pistols [B05B 9/01](#))}
- U A01M 9/00 **Special adaptations or arrangements of powder-spraying apparatus for purposes covered by this subclass**
- M A01M 9/0076 • {Special arrangements or adaptations of the dusting or distributing parts, e.g. mounting of the spray booms, the protection shields (~~nozzles B05B 1/00~~; *nozzles, spray heads or other outlets B05B 1/00*; spray pistols [B05B 9/01](#))}

## Project: RP11745 (A47K)

- U A47K 3/00 **Baths; Douches; Appurtenances therefor (for curative purposes [A61H](#), [A61M](#), e.g. bathing devices for special therapeutic or hygienic purposes [A61H 33/00](#); {spray heads [B05B](#); devices for suspending or supporting the supply pipe or supply hose of a shower bath [E03C 1/06](#); heated bath tubs [F24H 1/0072](#))}**
- M A47K 3/28 • Showers {or bathing douches} (combined with baths [A47K 3/20](#); nozzles, spray heads *or other outlets B05B 1/00* {; means for suspending or supporting the supply pipe or supply hose [E03C 1/06](#)})

## Project: RP11659 (A61D)

- U A61D 1/00 **Surgical instruments for veterinary use**
- M A61D 1/08 • Veterinary obstetrical instruments or devices (devices for indicating trouble during labour of animals {, *methods or instruments for detecting pregnancy-related states of animals*} [A61D 17/00](#))
- M A61D 17/00 **Devices for indicating trouble during labour of animals {; Methods or instruments for detecting pregnancy-related states of animals (~~monitoring or measuring activity of animals A01K 29/005~~)}**
- WARNING**  
*Groups [A61D 17/00](#), [A61D 17/002](#), [A61D 17/004](#), [A61D 17/006](#) and [A61D 17/008](#) are incomplete pending reclassification of documents from groups [A01K 29/00](#) and [A01K 29/005](#).  
 All groups listed in this Warning should be considered in order to perform a complete search.*

## Project: MP12503 (A61M)

- U A61M 5/00 **Devices for bringing media into the body in a subcutaneous, intra-vascular or intramuscular way; Accessories therefor, e.g. filling or cleaning devices, arm-rests ({vaccination appliances for veterinary use [A61D 1/025](#)}; tube connectors, tube couplings, valves or branch units specially adapted for medical use [A61M 39/00](#); containers specially adapted for medical or pharmaceutical purposes [A61J 1/00](#); {combinations of vial and syringe for mixing or transferring their contents [A61J 1/20](#); holders for containers for collecting, storing or administering blood or medical fluids [A61J 1/16](#)})**
- U A61M 5/14 • Infusion devices, e.g. infusing by gravity; Blood infusion; Accessories therefor
- U A61M 5/142 • • Pressure infusion, e.g. using pumps
- NOTE**  
 In this group, the following expression is used with the meaning indicated:
- "pressure infusion" includes powered injection working at a controlled rate
- U A61M 5/14212 • • • {Pumping with an aspiration and an expulsion action}

- M A61M 5/14228 . . . {with linear peristaltic action, i.e. comprising at least three pressurising members or a helical member}

NOTE

Pumps having tubular flexible working members F04B 43/08

- M A61M 5/14232 . . . {Roller pumps}

NOTE

Pumps having rollers for peristaltic action F04B 43/12

- U A61M 25/00 Catheters; Hollow probes (dilators [A61M 29/00](#); {peritoneal catheters [A61M 1/285](#); tracheal tubes [A61M 16/04](#); for drainage [A61M 27/00](#); for uterus, vagina or rectum [A61M 31/00](#)} ; for measuring or testing [A61B](#); {materials for catheters [A61L 29/00](#)})

- U A61M 25/10 . Balloon catheters ({[A61M 25/0125](#) takes precedence; embolectomy [A61B 17/22032](#); retractors [A61B 17/02](#);} inflatable balloons for placing stents or stent-grafts [A61F 2/958](#) {; stomach balloons for treatment of obesity [A61F 5/0003](#); oesophageal tubes [A61J 15/00](#)})

- U A61M 2025/1043 . . {with special features or adapted for special applications}

- M A61M 2025/1047 . . . {having centering means, e.g. balloons having an appropriate shape}

NOTE

This group also covers balloon catheters with centering means other than centering means using balloons

## Project: RP11659 (A63K)

- M A63K 3/00 Equipment or accessories for racing or riding sports {(training equipment for animals [A01K 15/02](#) training or exercising equipment for animals [A01K 15/02](#))}

## Project: MP10332 (B01J)

- M B01J CHEMICAL OR PHYSICAL PROCESSES, e.g. CATALYSIS OR COLLOID CHEMISTRY; THEIR RELEVANT APPARATUS

NOTES

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

- "solid particles" includes such particles whether catalysts, reactants or inert in solid, semi-solid or pasty state;
- "fluidised particles" means finely divided solid particles lifted and agitated by a stream of fluid;
- "fluidised bed-technique" means fluid-solid contacting technique in which finely divided particles are lifted and agitated by a rising stream of fluid, said stream having such a speed as to form a lower dense phase (the "bed") and an upper dilute fluidised phase of "fluidised particles";

- "processes conducted in the presence of solid particles" does not include processes wherein the only solid particles present are formed during the reaction.

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

3. *{In this subclass, combination sets (C-Sets) are used. Detailed information about C-Sets construction and the associated syntax rules is found in the definitions for B01J.}*

#### WARNINGS

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

B01J 37/025	covered by	B01J 37/02
B01J 32/00	covered by	B01J 21/00 - B01J 29/90, B01J 33/00 - B01J 38/74

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

U B01J 23/00

**Catalysts comprising metals or metal oxides or hydroxides, not provided for in group B01J 21/00 (B01J 21/16 takes precedence)**

M B01J 23/002

• {Mixed oxides other than spinels, e.g. perovskite}

#### NOTE

*{In group B01J 23/002, elements constituting the exemplified mixed oxide are further indexed under the form of a C-set with B01J 2523/00 as base symbol using the relevant classification symbols of B01J 2523/10 – B01J 2523/847, in numerical order, as further symbols and separated by ";", e.g. the mixed oxide  $\text{Mo}_a\text{V}_b\text{Te}_c\text{O}_x$  is classified as (B01J 2523/00, B01J 2523/55, B01J 2523/64, B01J 2523/68).}*

*{In this group, C-Sets are used. Detailed information about C-Sets construction and the associated syntax rules is found in the Definitions of B01J.}*

M B01J 39/00 -  
B01J 49/00

**Ion-exchange (treatment of milk A23C 9/14; separation by liquid ion-exchangers B01D, e.g. B01D 11/00; separation of isotopes B01D 59/00; compounds *er se*, see the relevant classes, e.g. C01, C07, C08; treatment of water C02F 1/42; refining of hydrocarbon oils, in the absence of hydrogen, with solid sorbents C10G 25/00; purification of sugar juices C13B 20/14; extraction of sugar from molasses C13B 35/06; extraction of metal compounds from ores or concentrates by wet processes C22B 3/00; using ion-exchange for investigating or analysing materials G01N 30/96; treating radioactively contaminated material G21F 9/12)**

#### NOTES

1. In groups B01J 39/00 - B01J 49/00:

- Ion-exchange covers all processes whereby ions are exchanged between the solid exchanger and the liquid to be treated and wherein the exchanger is not soluble in the liquid to be treated



- Ion-exchange processes cover also ion-exchange in combination with complex or chelate forming reactions.

2. In groups [B01J 39/00](#) - [B01J 49/00](#), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

3. {In groups [B01J 39/00](#) - [B01J 49/00](#), it is desirable to classify other constituents by using Combination sets with symbols chosen from [B01J 39/00](#) and subgroups and [B01J 41/00](#) and subgroups.}

**M B01J 39/00**

**Cation exchange; Use of material as cation exchangers; Treatment of material for improving the cation exchange properties (ion-exchange chromatography processes [B01D 15/36](#))**

NOTE

{In this group, C-Sets are used. Detailed information about C-Sets construction and the associated syntax rules is found in the Definitions of [B01J](#).}

**M B01J 41/00**

**Anion exchange; Use of material as anion exchangers; Treatment of material for improving the anion exchange properties (ion-exchange chromatography processes [B01D 15/36](#))**

NOTE

{In this group, C-Sets are used. Detailed information about C-Sets construction and the associated syntax rules is found in the Definitions of [B01J](#).}

**M B01J 43/00**

**Amphoteric ion-exchange, i.e. using ion-exchangers having cationic and anionic groups; Use of material as amphoteric ion-exchangers; Treatment of material for improving their amphoteric ion-exchange properties (ion-exchange chromatography processes [B01D 15/36](#))**

NOTE

{In this group, C-Sets are used. Detailed information about C-Sets construction and the associated syntax rules is found in the Definitions of [B01J](#).}

**M B01J 45/00**

**Ion-exchange in which a complex or a chelate is formed; Use of material as complex or chelate forming ion-exchangers; Treatment of material for improving the complex or chelate forming ion-exchange properties (ion-exchange chromatography processes [B01D 15/36](#))**

NOTE

{In this group, C-Sets are used. Detailed information about C-Sets construction and the associated syntax rules is found in the Definitions of [B01J](#).}

**M B01J 47/00**

**Ion-exchange processes in general; Apparatus therefor (ion-exchange chromatography processes or apparatus [B01D 15/08](#))**

NOTE

{In this group, C-Sets are used. Detailed information about C-Sets construction and the associated syntax rules is found in the Definitions of [B01J](#).}

**M B01J 49/00**

**Regeneration or reactivation of ion-exchangers; Apparatus therefor (ion-exchange chromatography processes or apparatus [B01D 15/08](#))**

NOTE

{In this group, C-Sets are used. Detailed information about C-Sets construction and the associated syntax rules is found in the Definitions of [B01J](#).}

**M B01J 2523/00 Constitutive chemical elements of heterogeneous catalysts****NOTE**

*In this group, C-Sets are used. Detailed information about C-Sets construction and the associated syntax rules is found in the Definitions of [B01J](#).*

**Project: RP11745 (B05B)****M B05B SPRAYING APPARATUS; ATOMISING APPARATUS; NOZZLES (spray-mixers with nozzles [B01F 25/72](#); processes for applying liquids or other fluent materials to surfaces by spraying [B05D](#))****NOTES**

1. This subclass covers particularly apparatus for the release or projection of drops or droplets into the atmosphere or into a chamber to form a mist or the like. For this purpose, the materials to be projected may be suspended in a stream of gas or vapour.
2. {Attention is drawn to the Note following the title of class [B05](#).}
3. {In this subclass, "means for controlling volume of flow" is used in the most general meaning and includes also means allowing only starting and stopping the flow.}
4. {In this subclass, the meaning of the expression "apparatus carried on or by a person" includes all apparatus comprising at least one container for the material to be sprayed carried on or by a person during use.}
5. {In this subclass, the word "container" is to be understood as the innermost enclosure containing the material to be sprayed.}

**WARNING**

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

- M 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](#); devices for applying liquids or other fluent materials to surfaces by contact [B05C](#); nozzles for ink-jet printing mechanisms [B41J 2/135](#);} nozzles for liquid-dispensing, e.g. in vehicle service stations, [B67D 7/42](#))~~**
- U B05B 1/02 • designed to produce a jet, spray, or other discharge of particular shape or nature, e.g. in single drops, {or having an outlet of particular shape}{[B05B 1/26](#), [B05B 1/28](#), [B05B 1/34](#) take precedence}
- U B05B 1/04 • • in flat form, e.g. fan-like, sheet-like
- M B05B 1/044 • • • {Slits, ~~i.e.e.g.~~ narrow openings defined by two straight and parallel lips; Elongated outlets for producing very wide discharges, e.g. fluid curtains ([B05B 1/046](#) takes precedence)}
- M B05B 1/08 • • of pulsating nature, e.g. delivering liquid in successive separate quantities-~~f~~ [Fluidic oscillators](#)}
- M B05B 1/083 • • • {the pulsating mechanism comprising movable parts ~~(liquid driven rotating elements, e.g. turbines, arranged upstream the outlet [B05B 3/04](#))~~}

- N B05B 1/085
- • • {rotated by the liquid or other fluent material discharged, e.g. liquid rotated turbines}
- WARNING  
Group [B05B 1/085](#) is incomplete pending reclassification of documents from group [B05B 3/04](#).  
Groups [B05B 3/04](#) and [B05B 1/085](#) should be considered in order to perform a complete search.
- N B05B 1/0852
- • • • {the liquid or other fluent material actuating several pulsating mechanisms}
- WARNING  
Group [B05B 1/0852](#) is incomplete pending reclassification of documents from group [B05B 3/0495](#).  
Groups [B05B 3/0495](#) and [B05B 1/0852](#) should be considered in order to perform a complete search.
- N B05B 1/0854
- • • • {the pulsating mechanism being provided with means for preventing rotation}
- WARNING  
Group [B05B 1/0854](#) is incomplete pending reclassification of documents from group [B05B 3/049](#).  
Groups [B05B 3/049](#) and [B05B 1/0854](#) should be considered in order to perform a complete search.
- N B05B 1/0856
- C B05B 1/14
- • • • {the pulsating mechanism comprising movable balls}
  - with multiple outlet openings ([B05B 1/02](#), [B05B 1/26](#) take precedence); with strainers in or outside the outlet opening
- WARNING  
Group [B05B 1/14](#) is impacted by reclassification into groups [B05B 1/1421](#), [B05B 1/1422](#), [B05B 1/1423](#), [B05B 1/1424](#), [B05B 1/1425](#) and [B05B 13/002](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N B05B 1/1421
- {the multiple outlet openings arranged in plural groups or rows (for roses or shower heads [B05B 1/1821](#))}
- WARNING  
Groups [B05B 1/1421](#), [B05B 1/1422](#), [B05B 1/1423](#), [B05B 1/1424](#) and [B05B 1/1425](#) are incomplete pending reclassification of documents from group [B05B 1/14](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N B05B 1/1422
- • {with all groups or rows being identical}
- N B05B 1/1423
- • {comprising concentric or coaxial groups}
- N B05B 1/1424
- • • {the outlet openings traversing a concavo-convex wall}
- N B05B 1/1425
- • {having three or more dissimilar groups or rows}
- U B05B 1/16
- • having selectively- effective outlets
- M B05B 1/1609
- • {with a selecting mechanism comprising a lift valve ([B05B 1/1681](#) takes precedence; ~~lift valves in general F16K 1/00~~)}
- M B05B 1/1627
- • {with a selecting mechanism comprising a gate valve, a sliding valve or a cock ([B05B 1/1681](#) takes precedence; ~~gate valves or sliding valves in general F16K 3/00; cocks in general F16K 5/00~~)}

- C B05B 1/18
- • Roses; Shower heads ~~{{with means for adding soap or the like E03C 1/046; jet regulators E03C 1/08}}~~
- WARNING  
Group B05B 1/18 is impacted by reclassification into groups B05B 1/188, B05B 1/1881, B05B 1/1882, B05B 1/1884, B05B 1/1886, B05B 1/1887, B05B 1/189, B05B 1/1892, B05B 1/1894, B05B 1/1896 and B05B 1/192. All groups listed in this Warning should be considered in order to perform a complete search.
- N B05B 1/182
- • {characterised by their outlet openings or elements; Mounting arrangements therefor}
- WARNING  
Groups B05B 1/182, B05B 1/1821, B05B 1/1822, B05B 1/1823, B05B 1/1824 and B05B 1/1825 are incomplete pending reclassification of documents from group B05B 1/185. All groups listed in this Warning should be considered in order to perform a complete search.
- N B05B 1/1821
- • • {the outlet openings arranged in plural groups or rows}
- N B05B 1/1822
- • • • {with all groups or rows being identical}
- N B05B 1/1823
- • • • {Concentric or coaxial groups}
- N B05B 1/1824
- • • • • {the outlet openings traversing a concavo-convex outlet wall}
- N B05B 1/1825
- • • • {with three or more dissimilar groups or rows}
- F B05B 1/185  
(Frozen)
- • {characterised by their outlet element; Mounting arrangements therefor}
- WARNING  
Group B05B 1/185 is no longer used for the classification of documents as of August 1, 2025. The content of this group is being reclassified into groups B05B 1/182, B05B 1/1821, B05B 1/1822, B05B 1/1823, B05B 1/1824 and B05B 1/1825. All groups listed in this Warning should be considered in order to perform a complete search.
- N B05B 1/188
- • • {with user-actuated controlling members}
- WARNING  
Groups B05B 1/188, B05B 1/1881, B05B 1/1882, B05B 1/1884, B05B 1/1886, B05B 1/1887, B05B 1/189, B05B 1/1892, B05B 1/1894 and B05B 1/1896 are incomplete pending reclassification of documents from group B05B 1/18. All groups listed in this Warning should be considered in order to perform a complete search.
- N B05B 1/1881
- • • • {associated with position or movement indicating means}
- N B05B 1/1882
- • • • {actuated by a linear movement, e.g. push buttons}
- N B05B 1/1884
- • • • • {actuated by a sliding movement along an outer surface of the roses or of the shower heads}
- N B05B 1/1886
- • • • • {the linear movement of the controlling member being converted into a rotational movement of the controlled element}
- N B05B 1/1887
- • • • {actuated by a pivoting movement}
- N B05B 1/189
- • • • {actuated by a rotating movement}
- N B05B 1/1892
- • • • {located in or on the handle}
- N B05B 1/1894
- • • • {located in or on the outlet wall}
- N B05B 1/1896
- • • • {located in or on the housing}

- N B05B 1/192
- • {combined with features functioning other than as a support or as a portion of the fluid handling elements, e.g. audio systems, speakers or lights}
- WARNING  
 Group [B05B 1/192](#) is incomplete pending reclassification of documents from group [B05B 1/18](#).  
 Groups [B05B 1/18](#) and [B05B 1/192](#) should be considered in order to perform a complete search.
- M B05B 1/20
- {Arrangements of several outlets along elongated bodies, e.g. perforated ~~Perforated~~ pipes or troughs, e.g. spray booms {(spray booms for agricultural uses [A01M 7/0071](#); spray bars for treating roads [E01C 19/176](#)); Outlet elements therefor
- M B05B 1/202
- • {comprising inserted outlet elements ~~(B05B 1/205 takes precedence)~~}
- M 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 12/16](#), [B05B 12/32](#), [B05B 14/00](#))~~
- U B05B 1/30
- designed to control volume of flow, e.g. with adjustable passages {([B05B 11/0094](#) takes precedence)}
- M B05B 1/3006
- {the controlling element being actuated by the pressure of the fluid to be sprayed (~~B05B 11/0062~~ [B05B 1/323](#) takes precedence; *single-unit outlet valves actuated by the pressure of the fluid to be sprayed [B05B 11/0062](#)*)}
- M B05B 1/3013
- {~~the controlling element being a lift valve~~ *Lift valves* ([B05B 1/3006](#), [B05B 1/3033](#) *take*~~takes~~ precedence; *lift valves in general [F16K 1/00](#)*)}
- M B05B 1/302
- • {with a ball- shaped valve member ~~(ball valves in general [F16K 1/14](#))~~}
- M B05B 1/3026
- {*Gate valves; Sliding valves;* ~~{the controlling element being a gate valve, a sliding valve or a cock~~ *Cocks* ([B05B 1/3006](#), [B05B 1/326](#) *take*~~takes~~ precedence; ~~gate valves or sliding valves in general [F16K 3/00](#); cocks in general [F16K 5/00](#)~~)}
- U B05B 1/3033
- {the control being effected by relative coaxial longitudinal movement of the controlling element and the spray head ([B05B 1/3026](#) takes precedence)}
- M B05B 1/3073
- • {the controlling element being a deflector acting as a valve in co-operation with the outlet orifice ~~(B05B 1/308 takes precedence; deflectors per se [B05B 1/262](#))~~}
- M B05B 1/308
- • {the controlling element comprising both a lift valve and a deflector *separated from the lift valve*}
- U B05B 1/32
- in which a valve member forms part of the outlet opening {([B05B 1/3033](#) takes precedence)}
- M B05B 1/323
- • {the valve member being actuated by the pressure of the fluid to be sprayed (~~B05B 11/0062 takes precedence~~ *single unit outlet valves actuated by the pressure of the fluid to be sprayed [B05B 11/0062](#)*)}
- M B05B 1/326
- • {~~the valve being a gate valve, a sliding valve or a cock~~ *Gate valves; Sliding valves; Cocks*}
- U B05B 1/34
- designed to influence the nature of flow of the liquid or other fluent material, e.g. to produce swirl (designed to control volume of flow [B05B 1/30](#))
- M B05B 1/3402
- {to avoid or ~~to reduce turbulencies~~ *reduce turbulence*, e.g. ~~comprising~~ *with* fluid flow straightening means}
- U B05B 1/3405
- {to produce swirl}
- U B05B 1/341
- • {before discharging the liquid or other fluent material, e.g. in a swirl chamber upstream the spray outlet}
- M B05B 1/3484
- • • {with a ~~by-pass conduit~~ *return channel* extending from the swirl chamber *by-passing the swirl imparting means*}

<b>U</b>	<b>B05B 3/00</b>	<b>Spraying or sprinkling apparatus with moving outlet elements or moving deflecting elements</b>
M	B05B 3/008	<ul style="list-style-type: none"> <li>• {comprising a wobbling or nutating element, <del>i.e.g.</del> rotating about an axis describing a cone during spraying (<del>B05B 3/0463</del> <a href="#">B05B 3/043</a> takes precedence)}</li> </ul>
C	B05B 3/02	<ul style="list-style-type: none"> <li>• with rotating elements (electric spraying discharge apparatus characterised by having rotary outlet or deflecting elements <a href="#">B05B 5/04</a>)</li> </ul> <p><b>WARNING</b>  <i>Group <a href="#">B05B 3/02</a> is impacted by reclassification into group <a href="#">B05B 3/0202</a>. Groups <a href="#">B05B 3/02</a> and <a href="#">B05B 3/0202</a> should be considered in order to perform a complete search.</i></p>
N	B05B 3/0202	<ul style="list-style-type: none"> <li>• {being deflecting elements (the liquid driven rotor being a deflecting rotating element <a href="#">B05B 3/0426</a>; discharging over substantially the whole periphery of the rotating member <a href="#">B05B 3/10</a>)}</li> </ul> <p><b>WARNING</b>  <i>Group <a href="#">B05B 3/0202</a> is incomplete pending reclassification of documents from group <a href="#">B05B 3/02</a>. Groups <a href="#">B05B 3/02</a> and <a href="#">B05B 3/0202</a> should be considered in order to perform a complete search.</i></p>
N	B05B 3/0204	<ul style="list-style-type: none"> <li>• • {being a ventilator or fan}</li> </ul>
M	B05B 3/021	<ul style="list-style-type: none"> <li>• {with means for regulating the jet relative to the horizontal angular position of the nozzle, e.g. for spraying non-circular areas by changing the elevation of the nozzle or by varying the nozzle flow-rate (<del>B05B 3/0454</del> takes precedence <i>when the rotating elements are rotated by the liquid or other fluent material discharged <a href="#">B05B 3/0453</a></i>)}</li> </ul>
D	B05B 3/022	<ul style="list-style-type: none"> <li>• {the rotating deflecting element being a ventilator or a fan (<del>B05B 3/105</del> takes precedence; agricultural atomisers or mist blowers <del>A01M 7/0003</del>)}</li> </ul> <p>&lt;administratively transferred to <a href="#">B05B 3/0204</a>&gt;</p>
D	B05B 3/023	<ul style="list-style-type: none"> <li>• {comprising a pneumatic motor actuated by a depression created by the liquid flow}</li> </ul> <p>&lt;administratively transferred to <a href="#">B05B 3/02</a>&gt;</p>
M	B05B 3/028	<ul style="list-style-type: none"> <li>• {the rotation being orbital (<del>B05B 3/0445</del> and <del>B05B 3/066</del> take precedence <i>comprising liquid driven rotors wherein the movement of the outlet elements are a combination of two movements, one being rotational <a href="#">B05B 3/0444</a>; when the rotating elements are rotated by jet reaction of the liquid or other fluent material discharged <a href="#">B05B 3/066</a></i>)}</li> </ul>
C	B05B 3/04	<ul style="list-style-type: none"> <li>• • driven by the liquid or other fluent material discharged, e.g. the liquid actuating a motor before passing to the outlet <del>{(B05B 3/023 takes precedence)}</del></li> </ul> <p><b>WARNING</b>  <i>Group <a href="#">B05B 3/04</a> is impacted by reclassification into groups <a href="#">B05B 3/0417</a> and <a href="#">B05B 1/085</a>. All groups listed in this Warning should be considered in order to perform a complete search.</i></p>
D	B05B 3/0404	<ul style="list-style-type: none"> <li>• • {the motor comprising a movable ball}</li> </ul> <p>&lt;administratively transferred to <a href="#">B05B 1/0856</a>&gt;</p>
D	B05B 3/0409	<ul style="list-style-type: none"> <li>• • {with moving, e.g. rotating, outlet elements (<del>B05B 3/0486</del>, <del>B05B 3/06</del> take precedence)}</li> </ul> <p>&lt;administratively transferred to <a href="#">B05B 3/04</a>&gt;</p>



- N B05B 3/0412 . . . {comprising a liquid driven piston motor}
- D B05B 3/0413 . . . {comprising a liquid driven piston motor}  
<administratively transferred to [B05B 3/0412](#)>
- N B05B 3/0417 . . . {comprising a liquid driven rotor, e.g. a turbine}  
WARNING  
Group [B05B 3/0417](#) is incomplete pending reclassification of documents from group [B05B 3/04](#).  
Groups [B05B 3/04](#) and [B05B 3/0417](#) should be considered in order to perform a complete search.
- D B05B 3/0418 . . . {comprising a liquid driven rotor, e.g. a turbine (B05B 3/0463, B05B 3/0468 take precedence)}  
<administratively transferred to [B05B 3/0417](#)>
- N B05B 3/0419 . . . {the liquid or other fluent material powering several rotors}  
WARNING  
Group [B05B 3/0419](#) is incomplete pending reclassification of documents from group [B05B 3/0495](#).  
Groups [B05B 3/0495](#) and [B05B 3/0419](#) should be considered in order to perform a complete search.
- N B05B 3/0421 . . . {provided with means for preventing rotation}  
WARNING  
Group [B05B 3/0421](#) is incomplete pending reclassification of documents from group [B05B 3/049](#).  
Groups [B05B 3/049](#) and [B05B 3/0421](#) should be considered in order to perform a complete search.
- D B05B 3/0422 . . . {with rotating outlet elements}  
<administratively transferred to [B05B 3/0417](#)>
- N B05B 3/0423 . . . {the rotor axis not being parallel to the rotation axis of the moving outlet elements, e.g. being perpendicular thereto}
- N B05B 3/0425 . . . {actuated downstream of the outlet elements}
- N B05B 3/0426 . . . {the liquid driven rotor being a deflecting rotating element}
- D B05B 3/0427 . . . {the outlet elements being directly attached to the rotor or being an integral part of it}  
<administratively transferred to [B05B 3/0429](#)>
- N B05B 3/0429 . . . {the rotating outlet elements being directly attached to the rotor or being an integral part thereof}
- N B05B 3/043 . . . {Rotor nozzles}
- D B05B 3/0431 . . . {the rotative movement of the outlet elements being reversible (B05B 3/0445 takes precedence)}  
<administratively transferred to [B05B 3/0432](#)>
- N B05B 3/0432 . . . {the rotation of the outlet elements being reversible ([B05B 3/0444](#) takes precedence)}
- N B05B 3/0435 . . . {by reversing the direction of rotation for the rotor}
- D B05B 3/0436 . . . {by reversing the direction of rotation of the rotor itself}  
<administratively transferred to [B05B 3/0435](#)>
- N B05B 3/0438 . . . {Tubular elements holding several outlets, e.g. apertured tubes, oscillating about an axis substantially parallel to the tubular element}

- D B05B 3/044 . . . . . {Tubular elements holding several outlets, e.g. apertured tubes, oscillating about an axis substantially parallel to the tubular element}  
<administratively transferred to [B05B 3/0438](#)>
- N B05B 3/0444 . . . . {the movement of the outlet elements being a combination of two movements, one being rotational}
- D B05B 3/0445 . . . . . {the movement of the outlet elements being a combination of two movements, one being rotational}  
<administratively transferred to [B05B 3/0444](#)>
- N B05B 3/0446 . . . . {with automatic means for regulating the discharged jet ([B05B 3/0444](#) takes precedence)}
- D B05B 3/045 . . . . . {with automatic means for regulating the jet (B05B 3/0445 takes precedence)}  
<administratively transferred to [B05B 3/0446](#)>
- N B05B 3/0453 . . . . . {relative to the angular position of the outlet elements or to the direction of rotation for the outlet elements, e.g. when spraying non-circular areas}
- D B05B 3/0454 . . . . . {relative to the angular position of the outlet or to the direction of rotation of the outlet, e.g. for spraying non-circular areas}  
<administratively transferred to [B05B 3/0453](#)>
- N B05B 3/0455 . . . {the outlet elements being rotated by a deflecting element being successively moved into the discharged jet by the action of a biasing means and out of the discharged jet by the discharged jet}
- D B05B 3/0459 . . . . . {the rotor axis not being parallel to the rotation axis of the outlet, e.g. being perpendicular thereto}  
<administratively transferred to [B05B 3/0423](#)>
- N B05B 3/0461 . . . . {the rotation of the outlet elements being reversible}
- D B05B 3/0463 . . . . {Rotor nozzles, i.e. nozzles consisting of an element having an upstream part rotated by the liquid flow, and a downstream part connected to the apparatus by a universal joint}  
<administratively transferred to [B05B 3/043](#)>
- D B05B 3/0468 . . . . {the liquid actuating a motor after passing the spray outlet (B05B 3/0472 takes precedence)}  
<administratively transferred to [B05B 3/0425](#)>
- D B05B 3/0472 . . . . {the spray jet actuating a movable deflector which is successively moved out of the jet by jet action and brought back into the jet by spring action}  
<administratively transferred to [B05B 3/0455](#)>
- D B05B 3/0477 . . . . . {the spray outlet having a reversible rotative movement, e.g. for covering angular sector smaller than 360°}  
<administratively transferred to [B05B 3/0461](#)>
- D B05B 3/0481 . . . . . {Impact motive means}  
<administratively transferred to [B05B 3/0455](#)>
- D B05B 3/0486 . . . {the spray jet being generated by a rotary deflector rotated by liquid discharged onto it in a direction substantially parallel its rotation axis}  
<administratively transferred to [B05B 3/0426](#)>

- F B05B 3/049  
(Frozen)
- • {comprising mechanical means for preventing a rotor from rotating despite being submerged in a streaming fluid}
- WARNING  
Group B05B 3/049 is no longer used for the classification of documents as of August 1, 2025. The content of this group is being reclassified into groups B05B 1/0854 and B05B 3/0421. Groups B05B 3/049, B05B 1/0854 and B05B 3/0421 should be considered in order to perform a complete search.
- F B05B 3/0495  
(Frozen)
- • {the liquid or other fluent material discharged powering several motors, e.g. several turbines}
- WARNING  
Group B05B 3/0495 is no longer used for the classification of documents as of August 1, 2025. The content of this group is being reclassified into groups B05B 1/0852 and B05B 3/0419. Groups B05B 3/0495, B05B 1/0852 and B05B 3/0419 should be considered in order to perform a complete search.
- M B05B 3/06
- • by jet reaction ~~{, i.e. creating a spinning torque due to a tangential component of the jet}~~
- M B05B 3/10
- • discharging over substantially the whole periphery of the rotating member ~~{, i.e. the spraying being effected by centrifugal forces}~~ (B05B 3/082 takes precedence)}
- U B05B 3/14
- with oscillating elements; with intermittent operation
- M B05B 3/16
- • driven or controlled by the liquid or other fluent material discharged, e.g. the liquid actuating a motor before passing to the outlet ~~{(B05B 3/0431, B05B 3/0468, B05B 3/0472 take precedence~~ comprising liquid driven rotors wherein the rotation of the outlet element is reversible B05B 3/0432; the outlet elements being rotated by a deflecting element successively moved into the discharged jet by the action of a biasing means and out of the discharged jet by the discharged jet with the rotation of the outlet elements being reversible B05B 3/0461)}
- U B05B 12/00
- Arrangements for controlling delivery; Arrangements for controlling the spray area**
- U B05B 12/02
- for controlling time, or sequence, of delivery
- C B05B 12/04
- • for sequential operation or multiple outlets
- WARNING  
Group B05B 12/04 is impacted by reclassification into group B05B 13/002. Groups B05B 12/04 and B05B 13/002 should be considered in order to perform a complete search.
- M B05B 12/06
- • for effecting pulsating flow {(nozzles, spray ~~head or outlet~~ heads or other outlets with means for generating a discharge of pulsating nature B05B 1/08)}
- U B05B 12/08
- responsive to condition of liquid or other fluent material {to be} discharged, of ambient medium or of target {; responsive to condition of spray devices or of supply means, e.g. pipes, pumps or their drive means}
- M B05B 12/085
- • {responsive to flow or pressure of liquid or other fluent material to be discharged (B05B 1/3006, B05B 1/323, ~~B05B 7/1254~~ take precedence; spray pistols designed to control volume of flow with the controlling means being fluid actuated B05B 7/1254)}
- 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

- C B05B 12/1472
- {separate supply lines supplying different materials to separate outlets of the spraying apparatus ([B05B 12/1454](#) takes precedence)}
- WARNING  
Group [B05B 12/1472](#) is impacted by reclassification into group [B05B 13/002](#). Groups [B05B 12/1472](#) and [B05B 13/002](#) should be considered in order to perform a complete search.
- M B05B 13/00
- Machines or plants for applying liquids or other fluent materials to surfaces of objects or other work by spraying, not covered by groups [B05B 1/00](#) - [B05B 11/00](#) (~~{B05B 5/08 takes precedence}~~ ; means for supplying or discharging liquid or other fluent material for this purpose, see the relevant preceding groups; means for supplying or discharging liquid or other fluent material for this purpose, see the relevant one of groups [B05B 1/00](#) - [B05B 12/00](#); processes for applying liquids or other fluent materials to surfaces in general [B05D](#))
- N B05B 13/002
- {Machines or plants for applying coating liquids or other fluent materials by inkjet}
- WARNING  
Group [B05B 13/002](#) is incomplete pending reclassification of documents from groups [B05B 1/14](#), [B05B 12/04](#), [B05B 12/1472](#), [B05B 13/0431](#) and [B05B 13/0452](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- U B05B 13/02
- Means for supporting work; Arrangement or mounting of spray heads; Adaptation or arrangement of means for feeding work ([B05B 13/06](#) takes precedence)
- U B05B 13/04
- the spray heads being moved during {spraying} operation
- C B05B 13/0431
- {with spray heads moved by robots or articulated arms, e.g. for applying liquid or other fluent material to ~~3D-surfaces~~ *three-dimensional [3D] surfaces*} (~~B05B 13/0436, B05B 13/0442, B05B 13/0447, B05B 13/0463 take precedence~~)
- WARNING  
Group [B05B 13/0431](#) is incomplete pending reclassification of documents from group [B05B 13/0457](#). Group [B05B 13/0431](#) is also impacted by reclassification into groups [B05B 13/002](#) and [B05B 13/0433](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N B05B 13/0433
- {the work being vehicle components, e.g. vehicle bodies}
- WARNING  
Group [B05B 13/0433](#) is incomplete pending reclassification of documents from groups [B05B 13/0431](#) and [B05B 13/0452](#).  
Groups [B05B 13/0431](#), [B05B 13/0452](#) and [B05B 13/0433](#) should be considered in order to perform a complete search.
- U B05B 13/0447
- {Installation or apparatus for applying liquid or other fluent material to conveyed separate articles ([B05B 13/0442](#) takes precedence)}
- C B05B 13/0452
- {the ~~conveyed articles being vehicle~~ *objects being vehicle components, e.g. vehicle* bodies}
- WARNING  
Group [B05B 13/0452](#) is impacted by reclassification into groups [B05B 13/002](#) and [B05B 13/0433](#).

*Groups B05B 13/0452, B05B 13/002 and B05B 13/0433 should be considered in order to perform a complete search.*

- C B05B 13/0457
- • • {specially designed for applying liquid or other fluent material to ~~3D~~-three-dimensional [3D] surfaces of the ~~articles~~work, e.g. by using several moving spray heads (*B05B 13/0431*, *B05B 13/0452* ~~takes~~take precedence)}

**WARNING**

*Group B05B 13/0457 is impacted by reclassification into group B05B 13/0431.*

*Groups B05B 13/0457 and B05B 13/0431 should be considered in order to perform a complete search.*

**Project: RP12170 (B21C)**

- M B21C
- MANUFACTURE OF METAL SHEETS, WIRE, RODS, TUBES ~~OR PROFILES~~,  
PROFILES OR LIKE SEMI-MANUFACTURED PRODUCTS OTHERWISE  
THAN BY ROLLING; AUXILIARY OPERATIONS USED IN CONNECTION  
WITH METAL-WORKING WITHOUT ESSENTIALLY REMOVING MATERIAL**

**WARNING**

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

- M B21C 1/00
- Manufacture of metal sheets, ~~metal~~ wire, ~~metal~~ rods, ~~metal tubes~~tubes or like semi-manufactured products by drawing**
- M B21C 1/16
- Metal drawing by machines or apparatus in which the drawing action is effected by ~~other means~~means other than drums, e.g. by a longitudinally-moved carriage pulling or pushing the work or stock for making metal sheets, ~~bars~~,rods or tubes
- U B21C 1/27
- • Carriages; Drives
- M B21C 1/30
- • • Drives, e.g. carriage-traversing mechanisms; Driving elements, e.g. drawing chains; Controlling the drive ~~{{endlessly revolving chain systems for metal coiling: B21C 47/3458}}~~
- M B21C 3/00
- Profiling tools for metal drawing; Combinations of dies and mandrels *for metal drawing***
- U B21C 3/02
- Dies; Selection of material therefor; Cleaning thereof
- U B21C 3/12
- • Die holders; Rotating dies
- M B21C 3/14
- • • Die holders combined with devices for guiding the drawing material or combined with devices for cooling, heating, or lubricating
- U B21C 9/00
- Cooling, heating or lubricating drawing material (*B21C 3/14* takes precedence)**
- D B21C 9/005
- ~~{Cold application of the lubricant (when combined with heating steps B21C 9/00)}~~
- <administratively transferred to *B21C 9/00*>
- U B21C 23/00
- Extruding metal; Impact extrusion**
- U B21C 23/007
- {Hydrostatic extrusion}
- U B21C 23/008
- • {Continuous extrusion}
- N B21C 23/009
- {Gas treatment of work (for heating or cooling only *B21C 29/003*)}
- U B21C 23/02
- Making uncoated products
- U B21C 23/04
- • by direct extrusion

M	B21C 23/08	• • • Making wire, <del>bars</del> , <del>rods</del> or tubes
U	B21C 23/14	• • • Making other products
M	B21C 23/147	• • • • {Making drill blanks <del>{making twist-drills B23P-15/32}</del> }
<b>M</b>	<b>B21C 26/00</b>	<b>Rams or plungers <del>for metal extruding</del>; Discs therefor</b>
<b>M</b>	<b>B21C 29/00</b>	<b>Cooling or heating <del>extruded</del> work or parts of the extrusion press; <del>{Gas treatment of work}</del></b>
U	B21C 29/003	• {Cooling or heating of work}
D	B21C 29/006	• {Gas treatment of work, e.g. to prevent oxidation or to create surface effects} <administratively transferred to <a href="#">B21C 23/009</a> >
M	B21C 29/02	• <del>{Cooling or heating}</del> of containers for metal to be extruded
M	B21C 29/04	• <del>{Cooling or heating}</del> of press heads, dies, or mandrels
<b>M</b>	<b>B21C 31/00</b>	<b>Control devices <del>for metal extruding</del>, e.g. for regulating the pressing speed or temperature of metal (<a href="#">B21C 25/08</a> takes precedence); Measuring devices, e.g. for temperature of metal, combined with or specially adapted for use in connection with extrusion presses</b>
<b>U</b>	<b>B21C 33/00</b>	<b>Feeding extrusion presses with metal to be extruded {; Loading the dummy block}</b>
M	B21C 33/002	• {Encapsulated billet <del>{manufacturing wires or fine wires B21C 37/045; B21C 37/047}</del> }
<b>M</b>	<b>B21C 35/00</b>	<b>Removing work or waste from extruding presses; Drawing-off extruded work (in connection with the extruding of bent tubes or rods <a href="#">B21C 23/12</a>); Cleaning dies, ducts, containers, or mandrels <del>for metal extruding</del></b>
M	B21C 35/02	• Removing or drawing-off work <del>{(linear motor pulling devices B21C 1/305)}</del>
M	B21C 35/023	• • {Work treatment directly following extrusion, e.g. further deformation or surface treatment ( <a href="#">B21C 35/03</a> takes precedence; gas treatment <del>B21C 29/006</del> <a href="#">B21C 23/009</a> )}
<b>M</b>	<b>B21C 37/00</b>	<b>Manufacture of metal sheets, <del>bars</del><del>rods</del>, wire, tubes, <del>profiles</del> or like semi-manufactured products, not otherwise provided for; Manufacture of tubes of special shape</b>
M	B21C 37/04	• of <del>bars or wire</del> <del>{rods or wire (wire-like electrical connectors in or for semiconductor devices H01L 24/42)}</del>
M	B21C 37/042	• • {Manufacture of coated wire or <del>bars</del> <del>rods</del> }
M	B21C 37/045	• • {Manufacture of wire or <del>bars</del> <del>rods</del> with particular section or properties}
U	B21C 37/06	• of tubes or metal hoses; Combined procedures for making tubes, e.g. for making multi-wall tubes
M	B21C 37/10	• • Making tubes with <del>riveted seams</del> <del>{or with non-welded and non-soldered seams}</del> <del>{seams being neither welded nor soldered, e.g.}</del> <del>riveted seams</del> <del>{(with helically arranged seams B21C 37/121)}</del>
M	B21C 37/102	• • • {of coated strip material <del>{making multi-wall tubes}</del> ; <del>Making multi-wall tubes</del> }
U	B21C 37/12	• • Making tubes or metal hoses with helically arranged seams
M	B21C 37/121	• • • {with <del>non-welded and non-soldered seams</del> <del>seams being neither welded nor soldered</del> }
M	B21C 37/14	• • Making tubes from <del>double</del> <del>doubled</del> flat material
M	B21C 37/15	• • Making tubes of special shape; Making <del>tube</del> <del>{tube}</del> fittings {( <a href="#">B21C 37/0803</a> , <a href="#">B21C 37/104</a> , <a href="#">B21C 37/124</a> ; take precedence)}
M	B21C 37/152	• • • {Making rifle <del>and gun</del> <del>barrels</del> or <del>gun barrels</del> }
M	B21C 37/153	• • • • {Making tubes with inner <del>and</del> or outer guides}



- M B21C 37/155      • • • {Making tubes with non-circular section ([B21C 37/151](#), [B21C 37/154](#) take precedence)}
- M B21C 37/20      • • • Making helical or similar guides in or on tubes without removing material, e.g. by drawing same over mandrels, by pushing same through dies {; Making tubes with angled walls, ribbed tubes ~~and~~ ~~or~~ tubes with decorated walls}
- U B21C 37/28      • • • Making tube fittings for connecting pipes, e.g. U-pieces
- U B21C 37/283      • • • • {Making U-pieces ([B21C 37/286](#) takes precedence)}
- U B21C 37/29      • • • • Making branched pieces, e.g. T-pieces
- M B21C 37/298      • • • • • {Forming collars by flow-drilling ~~(flow-drilling B21J 5/066)~~}
- U B21C 47/00**      **Winding-up, coiling or winding-off metal wire, metal band or other flexible metal material characterised by features relevant to metal processing only (coiling wire into particular forms [B21F 3/00](#))**
- U B21C 47/34      • Feeding or guiding devices not specially adapted to a particular type of apparatus
- U B21C 47/345      • • {for monitoring the tension or advance of the material}
- M B21C 47/3458      • • • {Endlessly revolving chain systems ~~(metal drawing B21C 1/30)~~}

**Project: MP12503 (B23D)**

- M **B23D 15/00**      **Shearing; Similar cutting**  
- ~~B23D 43/00~~  
~~B23D 35/00~~
  - U B23D 36/00      **Control arrangements specially adapted for machines for shearing or similar cutting, or for sawing, stock which the latter is travelling otherwise than in the direction of the cut**
  - M B23D 36/0091      • {for machines with more than one cutting, shearing, or sawing devices}
- NOTE  
{Broaching}
- N **B23D 37/00 - B23D 43/00**      **Broaching**

**Project: RP10424-F (B29C)**

- M B29C 49/00      **Blow-moulding, i.e. blowing a preform or parison to a desired shape within a mould; Apparatus therefor**
- WARNING  
Group B29C 49/00 is impacted by reclassification into groups B29C 49/006; B29C 49/0062 and B29C 49/0064.  
All groups listed in this Warning should be considered in order to perform a complete search.
- M B29C 49/0005      • {characterised by the material}
- NOTE  
{When classifying in this group, it is desirable to add the indexing codes of subclass [B29K](#) to identify the moulding materials and their properties. Documents concerning the choice of moulding materials having a particular influence on the moulding technique should be classified in this group if of interest}
- WARNING  
Group B29C 49/0005 is impacted by reclassification into group B29C 49/0006.

Groups B29C 49/0005 and B29C 49/0006 should be considered in order to perform a complete search.

M B29C 49/0006

- {for heating or cooling}

WARNING

Group B29C 49/0006 is incomplete pending reclassification of documents from group B29C 49/0005.  
Groups B29C 49/0005 and B29C 49/0006 should be considered in order to perform a complete search.

M B29C 49/0015

- {Making articles of indefinite length, e.g. corrugated tubes}

WARNING

Group B29C 49/0015 is impacted by reclassification into groups B29C 49/0021, B29C 49/0022, B29C 49/0023, B29C 49/0024, B29C 49/0025, B29C 49/0027, B29C 49/0028, B29C 49/0029 and B29C 49/003.  
All groups listed in this Warning should be considered in order to perform a complete search.

M B29C 49/0021

- {using moulds or mould parts movable in a closed path, e.g. mounted on movable endless supports}

WARNING

Group B29C 49/0021 is incomplete pending reclassification of documents from group B29C 49/0015.  
Group B29C 49/0021 is also impacted by reclassification into groups B29C 49/0022, B29C 49/0023, B29C 49/0024, B29C 49/0025, B29C 49/0027, B29C 49/0028, B29C 49/0029 and B29C 49/003.  
All groups listed in this Warning should be considered in order to perform a complete search.

M B29C 49/0022

- • {characterised by mould return means}

WARNING

Group B29C 49/0022 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021.  
Groups B29C 49/0015, B29C 49/0021 and B29C 49/0022 should be considered in order to perform a complete search.

M B29C 49/0023

- {using adjustable machine tables, e.g. to align extrusion nozzles with the moulds}

WARNING

Group B29C 49/0023 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021.  
Groups B29C 49/0015, B29C 49/0021 and B29C 49/0023 should be considered in order to perform a complete search.

M B29C 49/0024

- {using varying mould speed}

WARNING

Group B29C 49/0024 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021.  
Groups B29C 49/0015, B29C 49/0021 and B29C 49/0024 should be considered in order to perform a complete search.

M B29C 49/0025

- {subsequent mould cavities being different, e.g. for making bells}

WARNING

Group B29C 49/0025 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021.

~~Groups B29C 49/0015, B29C 49/0021 and B29C 49/0025 should be considered in order to perform a complete search.~~

- M B29C 49/0027
- {involving the change of moulds, e.g. in production processes without interrupting the production processes}

WARNING

~~Group B29C 49/0027 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021.  
Groups B29C 49/0015, B29C 49/0021 and B29C 49/0027 should be considered in order to perform a complete search.~~

- M B29C 49/0028
- {using variable forming length, e.g. adapted to cooling needs}

WARNING

~~Group B29C 49/0028 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021.  
Groups B29C 49/0015, B29C 49/0021 and B29C 49/0028 should be considered in order to perform a complete search.~~

- M B29C 49/0029
- {wherein the process is characterised by the pressure used, e.g. using varying pressure depending on sequence of cavity shapes}

WARNING

~~Group B29C 49/0029 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021.  
Groups B29C 49/0015, B29C 49/0021 and B29C 49/0029 should be considered in order to perform a complete search.~~

- M B29C 49/003
- {wherein the process is characterised by temperature conditioning, e.g. using inside cooling by air}

WARNING

~~Group B29C 49/003 is incomplete pending reclassification of documents from groups B29C 49/0015 and B29C 49/0021.  
Groups B29C 49/0015, B29C 49/0021 and B29C 49/003 should be considered in order to perform a complete search.~~

- M B29C 49/0042
- {without using a mould ([B29C 49/1602](#) takes precedence)}

WARNING

~~Group B29C 49/0042 is impacted by reclassification into group B29C 49/1602.  
Groups B29C 49/0042 and B29C 49/1602 should be considered in order to perform a complete search.~~

- M B29C 49/006
- {Blow-moulding plants, e.g. using several blow-moulding apparatuses cooperating}

WARNING

~~Groups B29C 49/006, B29C 49/0062 and B29C 49/0064 are incomplete pending reclassification of documents from group B29C 49/00.  
All groups listed in this Warning should be considered in order to perform a complete search.~~

- M B29C 49/02
- Combined blow-moulding and manufacture of the preform or the parison

WARNING

~~Group B29C 49/02 is impacted by reclassification into groups B29C 49/0208, B29C 49/0665, B29C 49/0685, B29C 49/06905, B29C 49/0691, B29C 49/06912, B29C 49/06914, B29C 49/06916 and B29C 49/071.  
All groups listed in this Warning should be considered in order to perform a complete search.~~

M	B29C 49/0208	<ul style="list-style-type: none"> <li>• {joining several separate preforms while blow-moulding, e.g. two cylindrical preforms welded together during blowing}</li> </ul> <p><u>WARNING</u> Group B29C 49/0208 is incomplete pending reclassification of documents from group B29C 49/02. Groups B29C 49/02 and B29C 49/0208 should be considered in order to perform a complete search.</p>
M	B29C 49/04	<ul style="list-style-type: none"> <li>• Extrusion blow-moulding</li> </ul> <p><u>WARNING</u> Group B29C 49/04 is impacted by reclassification into groups B29C 49/04102, B29C 49/04104, B29C 49/04106, B29C 49/04108, B29C 49/0411, B29C 49/04112, B29C 49/04114, B29C 49/04116, B29C 49/04118 and B29C 49/0412. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/04102	<ul style="list-style-type: none"> <li>• • {extruding the material continuously}</li> </ul> <p><u>WARNING</u> Group B29C 49/04102 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/04102 should be considered in order to perform a complete search.</p>
M	B29C 49/04104	<ul style="list-style-type: none"> <li>• • {extruding the material discontinuously}</li> </ul> <p><u>WARNING</u> Group B29C 49/04104 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/04104 should be considered in order to perform a complete search.</p>
M	B29C 49/04106	<ul style="list-style-type: none"> <li>• • {Means for moving the extruder head up and down, e.g. to continue extruding the next parison while blow-moulding the previous parison in the blow-mould}</li> </ul> <p><u>WARNING</u> Group B29C 49/04106 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/04106 should be considered in order to perform a complete search.</p>
M	B29C 49/04108	<ul style="list-style-type: none"> <li>• • {extruding several parisons parallel to each other at the same time}</li> </ul> <p><u>WARNING</u> Group B29C 49/04108 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/04108 should be considered in order to perform a complete search.</p>
M	B29C 49/0411	<ul style="list-style-type: none"> <li>• • {Means for defining the wall or layer thickness}</li> </ul> <p><u>WARNING</u> Groups B29C 49/0411, B29C 49/04112 and B29C 49/04114 are incomplete pending reclassification of documents from group B29C 49/04. All groups listed in this Warning should be considered in order to perform a complete search.</p>

M	B29C 49/04116	<ul style="list-style-type: none"> <li>• • • {characterised by the die}</li> </ul> <p><u>WARNING</u> Group B29C 49/04116 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/04116 should be considered in order to perform a complete search.</p>
M	B29C 49/04118	<ul style="list-style-type: none"> <li>• • • {Means for supporting the extruded parison}</li> </ul> <p><u>WARNING</u> Group B29C 49/04118 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/04118 should be considered in order to perform a complete search.</p>
M	B29C 49/0412	<ul style="list-style-type: none"> <li>• • • {Means for cutting the extruded preform}</li> </ul> <p><u>WARNING</u> Group B29C 49/0412 is incomplete pending reclassification of documents from group B29C 49/04. Groups B29C 49/04 and B29C 49/0412 should be considered in order to perform a complete search.</p>
U	B29C 49/06	<ul style="list-style-type: none"> <li>• • Injection blow-moulding</li> </ul>
M	B29C 49/0665	<ul style="list-style-type: none"> <li>• • • {the injection mould cavity and the blow-mould cavity being displaceable to the geometrically fixed injection core mould}</li> </ul> <p><u>WARNING</u> Group B29C 49/0665 is incomplete pending reclassification of documents from group B29C 49/02. Groups B29C 49/02 and B29C 49/0665 should be considered in order to perform a complete search.</p>
M	B29C 49/0685	<ul style="list-style-type: none"> <li>• • {Compression blow-moulding}</li> </ul> <p><u>WARNING</u> Group B29C 49/0685 is incomplete pending reclassification of documents from group B29C 49/02. Groups B29C 49/02 and B29C 49/0685 should be considered in order to perform a complete search.</p>
M	B29C 49/06905	<ul style="list-style-type: none"> <li>• • {Using combined techniques for making the preform}</li> </ul> <p><u>WARNING</u> Groups B29C 49/06905, B29C 49/0691, B29C 49/06912, B29C 49/06914 and B29C 49/06916 are incomplete pending reclassification of documents from group B29C 49/02. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/071	<ul style="list-style-type: none"> <li>• {Preforms or parisons characterised by their configuration, e.g. geometry, dimensions or physical properties}</li> </ul> <p><u>WARNING</u> Group B29C 49/071 is incomplete pending reclassification of documents from group B29C 49/02. Groups B29C 49/02 and B29C 49/071 should be considered in order to perform a complete search.</p>

M	B29C 49/08	<ul style="list-style-type: none"> <li>• Biaxial stretching during blow-moulding</li> </ul> <p><u>WARNING</u> Group B29C 49/08 is impacted by reclassification into groups B29C 49/086, B29C 49/087, B29C 49/0871 and B29C 49/0872. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/086	<ul style="list-style-type: none"> <li>• {mono-axial stretching, e.g. either length or width}</li> </ul> <p><u>WARNING</u> Group B29C 49/086 is incomplete pending reclassification of documents from group B29C 49/08. Groups B29C 49/08 and B29C 49/086 should be considered in order to perform a complete search.</p>
M	B29C 49/087	<ul style="list-style-type: none"> <li>• {Means for providing controlled or limited stretch ratio}</li> </ul> <p><u>WARNING</u> Groups B29C 49/087, B29C 49/0871 and B29C 49/0872 are incomplete pending reclassification of documents from group B29C 49/08. All groups listed in this Warning should be considered in order to perform a complete search.</p>
U	B29C 49/10	<ul style="list-style-type: none"> <li>• using mechanical means {for prestretching}</li> </ul>
M	B29C 49/12	<ul style="list-style-type: none"> <li>• • Stretching rods</li> </ul> <p><u>WARNING</u> Group B29C 49/12 is impacted by reclassification into groups B29C 49/1202, B29C 49/1205, B29C 49/1206, B29C 49/1208, B29C 49/121, B29C 49/1212, B29C 49/1215, B29C 49/1216, B29C 49/1218, B29C 49/122, B29C 49/1222, B29C 49/1224, B29C 49/1226, B29C 49/1229, B29C 49/123, B29C 49/1232 and B29C 49/1602. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/1202	<ul style="list-style-type: none"> <li>• • • {Means for fixing the stretching rod to the driving means, e.g. clamping means or bayonet connections}</li> </ul> <p><u>WARNING</u> Group B29C 49/1202 is incomplete pending reclassification of documents from group B29C 49/12. Groups B29C 49/12 and B29C 49/1202 should be considered in order to perform a complete search.</p>
M	B29C 49/1205	<ul style="list-style-type: none"> <li>• • • {relative rotation between the preform and the stretch rod}</li> </ul> <p><u>WARNING</u> Group B29C 49/1205 is incomplete pending reclassification of documents from group B29C 49/12. Groups B29C 49/12 and B29C 49/1205 should be considered in order to perform a complete search.</p>
M	B29C 49/1206	<ul style="list-style-type: none"> <li>• • • {using at least two stretching rods for stretching different parts of the preform}</li> </ul> <p><u>WARNING</u> Group B29C 49/1206 is incomplete pending reclassification of documents from group B29C 49/12.</p>



		Groups B29C 49/12 and B29C 49/1206 should be considered in order to perform a complete search.
M	B29C 49/1208	<ul style="list-style-type: none"> <li>• • • {using additional means to clamp the preform bottom while stretching the preform}</li> </ul> <p><u>WARNING</u> Group B29C 49/1208 is incomplete pending reclassification of documents from group B29C 49/12. Groups B29C 49/12 and B29C 49/1208 should be considered in order to perform a complete search.</p>
M	B29C 49/121	<ul style="list-style-type: none"> <li>• • • {Stretching rod configuration, e.g. geometry; Stretching rod material}</li> </ul> <p><u>WARNING</u> Groups B29C 49/121, B29C 49/1212, B29C 49/1215 and B29C 49/1216 are incomplete pending reclassification of documents from group B29C 49/12. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/1218	<ul style="list-style-type: none"> <li>• • • {to stretch heated tubes}</li> </ul> <p><u>WARNING</u> Group B29C 49/1218 is incomplete pending reclassification of documents from group B29C 49/12. Groups B29C 49/12 and B29C 49/1218 should be considered in order to perform a complete search.</p>
M	B29C 49/122	<ul style="list-style-type: none"> <li>• • • {Drive means therefor}</li> </ul> <p><u>WARNING</u> Groups B29C 49/122, B29C 49/1222, B29C 49/1224, B29C 49/1226, B29C 49/1229, B29C 49/123 and B29C 49/1232 are incomplete pending reclassification of documents from group B29C 49/12. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/16	<ul style="list-style-type: none"> <li>• • using pressure difference {for pre-stretching}, e.g. pre-blowing</li> </ul> <p><u>WARNING</u> Group B29C 49/16 is impacted by reclassification into group B29C 49/1602. Groups B29C 49/16 and B29C 49/1602 should be considered in order to perform a complete search.</p>
M	B29C 49/1602	<ul style="list-style-type: none"> <li>• • • {pre-blowing without using a mould}</li> </ul> <p><u>WARNING</u> Group B29C 49/1602 is incomplete pending reclassification of documents from groups B29C 49/0042, B29C 49/12 and B29C 49/16. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/18	<ul style="list-style-type: none"> <li>• using several blowing steps (<a href="#">B29C 49/16</a> takes precedence)</li> </ul> <p><u>WARNING</u> Group B29C 49/18 is impacted by reclassification into group B29C 49/1802. Groups B29C 49/18 and B29C 49/1802 should be considered in order to perform a complete search.</p>

M	B29C 49/1802	<ul style="list-style-type: none"> <li>• {the first mould cavity being bigger than a second mould cavity}</li> </ul> <p><u>WARNING</u> Group B29C 49/1802 is incomplete pending reclassification of documents from group B29C 49/18. Groups B29C 49/18 and B29C 49/1802 should be considered in order to perform a complete search.</p>
M	B29C 49/20	<ul style="list-style-type: none"> <li>• of articles having inserts or reinforcements {; Handling of inserts or reinforcements}</li> </ul> <p><u>WARNING</u> Group B29C 49/20 is impacted by reclassification into group B29C 2049/2071. Groups B29C 49/20 and B29C 2049/2071 should be considered in order to perform a complete search.</p>
U	B29C 2049/2021	<ul style="list-style-type: none"> <li>• {Inserts characterised by the material or type}</li> </ul>
M	B29C 2049/2071	<ul style="list-style-type: none"> <li>• • {comprising electronic elements or detection means, e.g. chips, RFIDs or barcodes}</li> </ul> <p><u>WARNING</u> Group B29C 2049/2071 is incomplete pending reclassification of documents from group B29C 49/20. Groups B29C 49/20 and B29C 2049/2071 should be considered in order to perform a complete search.</p>
M	B29C 49/22	<ul style="list-style-type: none"> <li>• using multilayered preforms or parisons</li> </ul> <p><u>WARNING</u> Group B29C 49/22 is impacted by reclassification into group B29C 2949/00. Groups B29C 49/22 and B29C 2949/00 should be considered in order to perform a complete search.</p>
M	B29C 49/24	<ul style="list-style-type: none"> <li>• Lining or labelling</li> </ul> <p><u>WARNING</u> Group B29C 49/24 is impacted by reclassification into groups B29C 2049/24302, B29C 2049/24304, B29C 2049/24306, B29C 2049/24308, B29C 2049/2442, B29C 49/249 and B29C 49/251. All groups listed in this Warning should be considered in order to perform a complete search.</p>
U	B29C 2049/2414	<ul style="list-style-type: none"> <li>• • {Linings or labels, e.g. specific geometry, multi-layered or material}</li> </ul>
M	B29C 2049/24302	<ul style="list-style-type: none"> <li>• • • {Label materials}</li> </ul> <p><u>WARNING</u> Groups B29C 2049/24302, B29C 2049/24304 and B29C 2049/24306 are incomplete pending reclassification of documents from group B29C 49/24. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 2049/24308	<ul style="list-style-type: none"> <li>• • • {comprising electronic elements or detection means, e.g. chips, RFIDs or barcodes}</li> </ul> <p><u>WARNING</u> Group B29C 2049/24308 is incomplete pending reclassification of documents from group B29C 49/24. Groups B29C 49/24 and B29C 2049/24308 should be considered in order to perform a complete search.</p>
U	B29C 2049/2431	<ul style="list-style-type: none"> <li>• • {Means for preparing or treating the label or lining, e.g. cutting, deforming, heating or applying adhesive}</li> </ul>

U	B29C 2049/2441	<ul style="list-style-type: none"> <li>• • {Deforming}</li> </ul>
M	B29C 2049/2442	<ul style="list-style-type: none"> <li>• • • {while blow-moulding, e.g. the preform expansion deforms the label or lining}</li> </ul> <p><u>WARNING</u>  Group B29C 2049/2442 is incomplete pending reclassification of documents from group B29C 49/24.  Groups B29C 49/24 and B29C 2049/2442 should be considered in order to perform a complete search.</p>
M	B29C 49/249	<ul style="list-style-type: none"> <li>• • {explicit labelling}</li> </ul> <p><u>WARNING</u>  Group B29C 49/249 is incomplete pending reclassification of documents from group B29C 49/24.  Groups B29C 49/24 and B29C 49/249 should be considered in order to perform a complete search.</p>
M	B29C 49/251	<ul style="list-style-type: none"> <li>• • {explicit lining (<a href="#">B29C 49/26</a> takes precedence)}</li> </ul> <p><u>WARNING</u>  Group B29C 49/251 is incomplete pending reclassification of documents from group B29C 49/24.  Groups B29C 49/24 and B29C 49/251 should be considered in order to perform a complete search.</p>
M	B29C 49/28	<ul style="list-style-type: none"> <li>• Blow-moulding apparatus</li> </ul> <p><u>WARNING</u>  Group B29C 49/28 is impacted by reclassification into groups B29C 49/28002, B29C 49/28004, B29C 49/28006, B29C 49/28008 and B29C 49/28012.  All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/28002	<ul style="list-style-type: none"> <li>• • {designed for reduced size or for experiments, e.g. lower inertia, transportable or experimental apparatus}</li> </ul> <p><u>WARNING</u>  Group B29C 49/28002 is incomplete pending reclassification of documents from group B29C 49/28.  Groups B29C 49/28 and B29C 49/28002 should be considered in order to perform a complete search.</p>
M	B29C 49/28004	<ul style="list-style-type: none"> <li>• • {designed for easy access by operator}</li> </ul> <p><u>WARNING</u>  Group B29C 49/28004 is incomplete pending reclassification of documents from group B29C 49/28.  Groups B29C 49/28 and B29C 49/28004 should be considered in order to perform a complete search.</p>
M	B29C 49/28006	<ul style="list-style-type: none"> <li>• • {having special frame}</li> </ul> <p><u>WARNING</u>  Group B29C 49/28006 is incomplete pending reclassification of documents from group B29C 49/28.  Groups B29C 49/28 and B29C 49/28006 should be considered in order to perform a complete search.</p>

- M B29C 49/28008
- {mounting, exchanging or centering machine parts, e.g. modular parts}
- WARNING  
Group B29C 49/28008 is incomplete pending reclassification of documents from group B29C 49/28.  
Groups B29C 49/28 and B29C 49/28008 should be considered in order to perform a complete search.
- M B29C 49/28012
- {using several moulds whereby at least one mould is different in at least one feature, e.g. size or shape ([B29C 49/0025](#) takes precedence)}
- WARNING  
Group B29C 49/28012 is incomplete pending reclassification of documents from group B29C 49/28.  
Groups B29C 49/28 and B29C 49/28012 should be considered in order to perform a complete search.
- M B29C 49/42
- Component parts, details or accessories; Auxiliary operations
- WARNING  
Group B29C 49/42 is impacted by reclassification into groups B29C 49/42378, B29C 49/4238, B29C 49/42382, B29C 49/42384, B29C 49/42386, B29C 49/42388, B29C 49/4239, B29C 49/42392, B29C 49/42394, B29C 49/42396, B29C 49/42398, B29C 49/424, B29C 49/42402, B29C 49/42403, B29C 49/42405, B29C 49/42407, B29C 49/42408, B29C 49/42409, B29C 49/4241, B29C 49/42412, B29C 49/42413, B29C 49/42414, B29C 49/42416, B29C 49/42418, B29C 49/4242, B29C 49/42421, B29C 49/42422, B29C 49/42424, B29C 49/42426, B29C 49/42428, B29C 49/4244, B29C 49/42442, B29C 49/42444, B29C 49/42446, B29C 49/42448, B29C 49/4245, B29C 49/42452, B29C 49/42454, B29C 49/425, B29C 49/4251, B29C 49/427, B29C 49/428, B29C 49/42802, B29C 49/42806, B29C 49/42808, B29C 49/42809, B29C 49/4281, B29C 49/42811, B29C 49/42815, B29C 49/42817, B29C 49/4282, B29C 49/42822, B29C 49/42824, B29C 49/42826, B29C 49/42828, B29C 49/4283, B29C 49/42832, B29C 49/42834, B29C 49/42836, B29C 49/42845, B29C 49/4285, B29C 49/42855, B29C 49/4286, B29C 49/42865, B29C 49/4287, B29C 2049/4296, B29C 2049/4298 and B29C 2049/431.  
All groups listed in this Warning should be considered in order to perform a complete search.
- M B29C 49/4205
- {Handling means, e.g. transfer, loading or discharging means (handling of inserts or reinforcements [B29C 49/20](#); handling of linings or labels [B29C 49/2408](#))}
- WARNING  
Group B29C 49/4205 is impacted by reclassification into groups B29C 49/42051, B29C 49/42053, B29C 49/42055, B29C 49/42057, B29C 49/42059, B29C 49/42061, B29C 49/42063, B29C 49/42065, B29C 49/42067, B29C 49/42069, B29C 49/4207, B29C 49/42071, B29C 49/42073, B29C 49/42075, B29C 49/42077, B29C 49/42079, B29C 49/42081, B29C 49/42083, B29C 49/42085, B29C 49/42087, B29C 49/42089, B29C 49/42091, B29C 49/42093, B29C 49/42095, B29C 49/42097, B29C 49/42099, B29C 49/42101, B29C 49/42103, B29C 49/42105, B29C 49/42107, B29C 49/42109, B29C 49/42111, B29C 49/42113, B29C 49/42115, B29C 49/42117, B29C 49/42119, B29C 49/42121 and B29C 49/42155.  
All groups listed in this Warning should be considered in order to perform a complete search.

M	B29C 49/42051	<ul style="list-style-type: none"> <li>• • {Means for stripping, aligning or de-stacking}</li> </ul> <p><u>WARNING</u> Groups B29C 49/42051, B29C 49/42053, B29C 49/42055, B29C 49/42057, B29C 49/42059, B29C 49/42061 and B29C 49/42063 are incomplete pending reclassification of documents from group B29C 49/4205. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/42065	<ul style="list-style-type: none"> <li>• • {Means specially adapted for transporting preforms}</li> </ul> <p><u>WARNING</u> Groups B29C 49/42065 and B29C 49/42067 are incomplete pending reclassification of documents from group B29C 49/4205. Groups B29C 49/4205, B29C 49/42065 and B29C 49/42067 should be considered in order to perform a complete search.</p>
M	B29C 49/42069	<ul style="list-style-type: none"> <li>• • {Means explicitly adapted for transporting blown article}</li> </ul> <p><u>WARNING</u> Groups B29C 49/42069 and B29C 49/4207 are incomplete pending reclassification of documents from group B29C 49/4205. Groups B29C 49/4205, B29C 49/42069 and B29C 49/4207 should be considered in order to perform a complete search.</p>
M	B29C 49/42071	<ul style="list-style-type: none"> <li>• • {Temperature conditioned transport, e.g. insulated or heated transport means}</li> </ul> <p><u>WARNING</u> Group B29C 49/42071 is incomplete pending reclassification of documents from group B29C 49/4205. Groups B29C 49/4205 and B29C 49/42071 should be considered in order to perform a complete search.</p>
M	B29C 49/42073	<ul style="list-style-type: none"> <li>• • {Grippers}</li> </ul> <p><u>WARNING</u> Groups B29C 49/42073, B29C 49/42075, B29C 49/42077, B29C 49/42079, B29C 49/42081, B29C 49/42083, B29C 49/42085, B29C 49/42087, B29C 49/42089 and B29C 49/42091 are incomplete pending reclassification of documents from group B29C 49/4205. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/42093	<ul style="list-style-type: none"> <li>• • {Transporting apparatus, e.g. slides, wheels or conveyors}</li> </ul> <p><u>WARNING</u> Groups B29C 49/42093, B29C 49/42095, B29C 49/42097, B29C 49/42099, B29C 49/42101, B29C 49/42103, B29C 49/42105, B29C 49/42107, B29C 49/42109 and B29C 49/42111 are incomplete pending reclassification of documents from group B29C 49/4205. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/42113	<ul style="list-style-type: none"> <li>• • {Means for manipulating the objects' position or orientation}</li> </ul> <p><u>WARNING</u> Groups B29C 49/42113, B29C 49/42115, B29C 49/42117, B29C 49/42119, B29C 49/42121 and B29C 49/42155 are incomplete pending reclassification of documents from group B29C 49/4205. All groups listed in this Warning should be considered in order to perform a complete search.</p>

M	B29C 49/4236	<ul style="list-style-type: none"> <li>• {Drive means}</li> </ul> <p><u>WARNING</u> Group B29C 49/4236 is impacted by reclassification into groups B29C 49/42362, B29C 49/4237, B29C 49/42372, B29C 49/42374 and B29C 49/42376. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/42362	<ul style="list-style-type: none"> <li>• {Electric drive means, e.g. servomotors}</li> </ul> <p><u>WARNING</u> Group B29C 49/42362 is incomplete pending reclassification of documents from group B29C 49/4236. Groups B29C 49/4236 and B29C 49/42362 should be considered in order to perform a complete search.</p>
M	B29C 49/4237	<ul style="list-style-type: none"> <li>• {Pneumatic drive means}</li> </ul> <p><u>WARNING</u> Group B29C 49/4237 is incomplete pending reclassification of documents from group B29C 49/4236. Groups B29C 49/4236 and B29C 49/4237 should be considered in order to perform a complete search.</p>
M	B29C 49/42372	<ul style="list-style-type: none"> <li>• {Hydraulic drive means}</li> </ul> <p><u>WARNING</u> Group B29C 49/42372 is incomplete pending reclassification of documents from group B29C 49/4236. Groups B29C 49/4236 and B29C 49/42372 should be considered in order to perform a complete search.</p>
M	B29C 49/42374	<ul style="list-style-type: none"> <li>• {for the extruder, e.g. extruder moving up and down}</li> </ul> <p><u>WARNING</u> Group B29C 49/42374 is incomplete pending reclassification of documents from group B29C 49/4236. Groups B29C 49/4236 and B29C 49/42374 should be considered in order to perform a complete search.</p>
M	B29C 49/42376	<ul style="list-style-type: none"> <li>• {for moulds other than opening, closing and clamping}</li> </ul> <p><u>WARNING</u> Group B29C 49/42376 is incomplete pending reclassification of documents from group B29C 49/4236. Groups B29C 49/4236 and B29C 49/42376 should be considered in order to perform a complete search.</p>
M	B29C 49/42378	<ul style="list-style-type: none"> <li>• {Handling malfunction}</li> </ul> <p><u>WARNING</u> Groups B29C 49/42378, B29C 49/4238 and B29C 49/42382 are incomplete pending reclassification of documents from group B29C 49/42. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/42384	<ul style="list-style-type: none"> <li>• {Safety, e.g. operator safety}</li> </ul> <p><u>WARNING</u> Group B29C 49/42384 is incomplete pending reclassification of documents from group B29C 49/42.</p>



~~Groups B29C 49/42 and B29C 49/42384 should be considered in order to perform a complete search.~~

- M B29C 49/42386
  - {Improving flash formation, e.g. providing for easily removable flash from extrusion moulded articles}

WARNING

~~Group B29C 49/42386 is incomplete pending reclassification of documents from group B29C 49/42.  
Groups B29C 49/42 and B29C 49/42386 should be considered in order to perform a complete search.~~

- M B29C 49/42388
  - {Eliminating electric charge}

WARNING

~~Group B29C 49/42388 is incomplete pending reclassification of documents from group B29C 49/42.  
Groups B29C 49/42 and B29C 49/42388 should be considered in order to perform a complete search.~~

- M B29C 49/4239
  - {Avoiding condense, e.g. on cooled mould surfaces}

WARNING

~~Group B29C 49/4239 is incomplete pending reclassification of documents from group B29C 49/42.  
Groups B29C 49/42 and B29C 49/4239 should be considered in order to perform a complete search.~~

- M B29C 49/42392
  - {Avoiding marks or scratches, e.g. mould marks}

WARNING

~~Group B29C 49/42392 is incomplete pending reclassification of documents from group B29C 49/42.  
Groups B29C 49/42 and B29C 49/42392 should be considered in order to perform a complete search.~~

- M B29C 49/42394
  - {Providing specific wall thickness}

WARNING

~~Groups B29C 49/42394 and B29C 49/42396 are incomplete pending reclassification of documents from group B29C 49/42.  
Groups B29C 49/42, B29C 49/42394 and B29C 49/42396 should be considered in order to perform a complete search.~~

- M B29C 49/42398
  - {Simulation of the blow-moulding process}

WARNING

~~Groups B29C 49/42398, B29C 49/424 and B29C 49/42402 are incomplete pending reclassification of documents from group B29C 49/42.  
All groups listed in this Warning should be considered in order to perform a complete search.~~

- M B29C 49/42403
  - {Purging or cleaning the blow-moulding apparatus}

WARNING

~~Groups B29C 49/42403 and B29C 49/42405 are incomplete pending reclassification of documents from group B29C 49/42.  
Groups B29C 49/42, B29C 49/42403 and B29C 49/42405 should be considered in order to perform a complete search.~~

M	B29C 49/42407	<ul style="list-style-type: none"> <li>• {Procedures for start-up or material change}</li> </ul> <p><b>WARNING</b> Groups B29C 49/42407, B29C 49/42408, B29C 49/42409 and B29C 49/4241 are incomplete pending reclassification of documents from group B29C 49/42. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/42412	<ul style="list-style-type: none"> <li>• {Marking or printing}</li> </ul> <p><b>WARNING</b> Groups B29C 49/42412 and B29C 49/42413 are incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42, B29C 49/42412 and B29C 49/42413 should be considered in order to perform a complete search.</p>
M	B29C 49/42414	<ul style="list-style-type: none"> <li>• {Treatment of preforms, e.g. cleaning or spraying water for improved heat transfer}</li> </ul> <p><b>WARNING</b> Groups B29C 49/42414, B29C 49/42416 and B29C 49/42418 are incomplete pending reclassification of documents from group B29C 49/42. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/4242	<ul style="list-style-type: none"> <li>• {Means for deforming the parison prior to the blowing operation (<a href="#">B29C 49/08</a> takes precedence)}</li> </ul> <p><b>WARNING</b> Groups B29C 49/4242, B29C 49/42421, B29C 49/42422, B29C 49/42424, B29C 49/42426, B29C 49/42428, B29C 49/4244, B29C 49/42442, B29C 49/42444, B29C 49/42446, B29C 49/42448, B29C 49/4245, B29C 49/42452, B29C 49/42454, B29C 49/425 and B29C 49/4251 are incomplete pending reclassification of documents from group B29C 49/42. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/4268	<ul style="list-style-type: none"> <li>• {Auxiliary operations during the blow-moulding operation}</li> </ul> <p><b>WARNING</b> Group B29C 49/4268 is incomplete pending reclassification of documents from groups B29C 49/64, B29C 49/76 and B29C 49/78. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/427	<ul style="list-style-type: none"> <li>• • {Auxiliary deformation, i.e. not caused by pre-stretching or blowing not otherwise provided for}</li> </ul> <p><b>WARNING</b> Group B29C 49/427 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 49/427 should be considered in order to perform a complete search.</p>
M	B29C 49/4273	<ul style="list-style-type: none"> <li>• {Auxiliary operations after the blow-moulding operation not otherwise provided for}</li> </ul> <p><b>WARNING</b> Group B29C 49/4273 is incomplete pending reclassification of documents from groups B29C 49/64, B29C 49/70, B29C 49/76 and B29C 49/78.</p>

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

M B29C 49/428

- • • {Joining}

WARNING

Groups B29C 49/428, B29C 49/42802 and B29C 49/42806 are incomplete pending reclassification of documents from group B29C 49/42.  
All groups listed in this Warning should be considered in order to perform a complete search.

M B29C 49/42808

- • • {Filling the article}

WARNING

Groups B29C 49/42808, B29C 49/42809, B29C 49/4281 and B29C 49/42811 are incomplete pending reclassification of documents from group B29C 49/42.  
All groups listed in this Warning should be considered in order to perform a complete search.

M B29C 49/42815

- • • {Emptying the article, e.g. emptying hydraulic blowing fluid}

WARNING

Group B29C 49/42815 is incomplete pending reclassification of documents from group B29C 49/42.  
Groups B29C 49/42 and B29C 49/42815 should be considered in order to perform a complete search.

M B29C 49/42817

- • • {Drying the article}

WARNING

Group B29C 49/42817 is incomplete pending reclassification of documents from group B29C 49/42.  
Groups B29C 49/42 and B29C 49/42817 should be considered in order to perform a complete search.

M B29C 49/4282

- • • {Purging or cleaning the article}

WARNING

Groups B29C 49/4282 and B29C 49/42822 are incomplete pending reclassification of documents from group B29C 49/42.  
Groups B29C 49/42, B29C 49/4282 and B29C 49/42822 should be considered in order to perform a complete search.

M B29C 49/42824

- • • {Cooling the article outside the mould}

WARNING

Group B29C 49/42824 is incomplete pending reclassification of documents from group B29C 49/42.  
Groups B29C 49/42 and B29C 49/42824 should be considered in order to perform a complete search.

M B29C 49/42826

- • • {Separating burr or other part from the article, e.g. using mechanical means}

WARNING

Group B29C 49/42826 is incomplete pending reclassification of documents from group B29C 49/42.  
Groups B29C 49/42 and B29C 49/42826 should be considered in order to perform a complete search.

M	B29C 49/42828	<ul style="list-style-type: none"> <li>• • • {Coating or painting the article}</li> </ul> <p><u>WARNING</u> Group B29C 49/42828 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 49/42828 should be considered in order to perform a complete search.</p>
M	B29C 49/4283	<ul style="list-style-type: none"> <li>• • • {Deforming the finished article}</li> </ul> <p><u>WARNING</u> Groups B29C 49/4283, B29C 49/42832, B29C 49/42834 and B29C 49/42836 are incomplete pending reclassification of documents from group B29C 49/42. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/4284	<ul style="list-style-type: none"> <li>• • {Means for recycling or reusing auxiliaries or materials, e.g. blowing fluids or energy}</li> </ul> <p><u>WARNING</u> Group B29C 49/4284 is impacted by reclassification into groups B29C 49/42845 – B29C 49/4287. Groups B29C 49/4284 and B29C 49/42845 – B29C 49/4287 should be considered in order to perform a complete search.</p>
M	B29C 49/42845	<ul style="list-style-type: none"> <li>• • • {Recycling or reusing of fluid, e.g. pressure}</li> </ul> <p><u>WARNING</u> Groups B29C 49/42845, B29C 49/4285 and B29C 49/42855 are incomplete pending reclassification of documents from groups B29C 49/42 and B29C 49/4284. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/4286	<ul style="list-style-type: none"> <li>• • • {Recycling or reusing of heat energy}</li> </ul> <p><u>WARNING</u> Group B29C 49/4286 is incomplete pending reclassification of documents from groups B29C 49/42 and B29C 49/4284. Groups B29C 49/42, B29C 49/4284 and B29C 49/4286 should be considered in order to perform a complete search.</p>
M	B29C 49/42865	<ul style="list-style-type: none"> <li>• • • {Recycling or reusing of electric energy}</li> </ul> <p><u>WARNING</u> Group B29C 49/42865 is incomplete pending reclassification of documents from groups B29C 49/42 and B29C 49/4284. Groups B29C 49/42, B29C 49/4284 and B29C 49/42865 should be considered in order to perform a complete search.</p>
M	B29C 49/4287	<ul style="list-style-type: none"> <li>• • • {for use outside the blow-moulding apparatus, e.g. generating power or as pressurized plant air}</li> </ul> <p><u>WARNING</u> Group B29C 49/4287 is incomplete pending reclassification of documents from groups B29C 49/42 and B29C 49/4284. Groups B29C 49/42, B29C 49/4284 and B29C 49/4287 should be considered in order to perform a complete search.</p>
U	B29C 2049/4294	<ul style="list-style-type: none"> <li>• • {Sealing means}</li> </ul>

M	B29C 2049/4296	<ul style="list-style-type: none"> <li>• • • {for avoiding blowing fluid from leaking, e.g. between the blowing means and the preform neck}</li> </ul> <p><u>WARNING</u> Group B29C 2049/4296 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 2049/4296 should be considered in order to perform a complete search.</p>
M	B29C 2049/4298	<ul style="list-style-type: none"> <li>• • • {for sealing clean or sterile room or volume}</li> </ul> <p><u>WARNING</u> Group B29C 2049/4298 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 2049/4298 should be considered in order to perform a complete search.</p>
M	B29C 2049/431	<ul style="list-style-type: none"> <li>• • • {for sealing moulds, e.g. for vacuum air floating}</li> </ul> <p><u>WARNING</u> Group B29C 2049/431 is incomplete pending reclassification of documents from group B29C 49/42. Groups B29C 49/42 and B29C 2049/431 should be considered in order to perform a complete search.</p>
M	B29C 49/46	<ul style="list-style-type: none"> <li>• • characterised by using particular environment or blow fluids other than air</li> </ul> <p><u>WARNING</u> Group B29C 49/46 is impacted by reclassification into groups B29C 2049/4698 and B29C 2049/4699. Groups B29C 49/46, B29C 2049/4698 and B29C 2049/4699 should be considered in order to perform a complete search.</p>
U	B29C 2049/4673	<ul style="list-style-type: none"> <li>• • • {Environments}</li> </ul>
M	B29C 2049/4698	<ul style="list-style-type: none"> <li>• • • • {Pressure difference, e.g. over pressure in room}</li> </ul> <p><u>WARNING</u> Group B29C 2049/4698 is incomplete pending reclassification of documents from group B29C 49/46. Groups B29C 49/46 and B29C 2049/4698 should be considered in order to perform a complete search.</p>
M	B29C 2049/4699	<ul style="list-style-type: none"> <li>• • • • {Air conditioned room}</li> </ul> <p><u>WARNING</u> Group B29C 2049/4699 is incomplete pending reclassification of documents from group B29C 49/46. Groups B29C 49/46 and B29C 2049/4699 should be considered in order to perform a complete search.</p>
M	B29C 49/48	<ul style="list-style-type: none"> <li>• • Moulds</li> </ul> <p><u>WARNING</u> Group B29C 49/48 is impacted by reclassification into groups B29C 49/48185, B29C 49/4819, B29C 2049/48615, B29C 2049/4862, B29C 2049/4863, B29C 2049/4874, B29C 2049/4881, B29C 2049/48825 and B29C 2049/4883. All groups listed in this Warning should be considered in order to perform a complete search.</p>

M	B29C 49/48185	<ul style="list-style-type: none"> <li>• • • {with more than one separate mould cavity}</li> </ul> <p><u>WARNING</u>  Groups B29C 49/48185 and B29C 49/4819 are incomplete pending reclassification of documents from group B29C 49/48.  Groups B29C 49/48, B29C 49/48185 and B29C 49/4819 should be considered in order to perform a complete search.</p>
U	B29C 2049/4856	<ul style="list-style-type: none"> <li>• • • {Mounting, exchanging or centering moulds or parts thereof (B29C 2049/5893 takes precedence)}</li> </ul>
M	B29C 2049/48615	<ul style="list-style-type: none"> <li>• • • • {Aligning the mould assembly position e.g. adapting center to the extruded parison}</li> </ul> <p><u>WARNING</u>  Group B29C 2049/48615 is incomplete pending reclassification of documents from group B29C 49/48.  Groups B29C 49/48 and B29C 2049/48615 should be considered in order to perform a complete search.</p>
M	B29C 2049/4862	<ul style="list-style-type: none"> <li>• • • • {Aligning the mould part position e.g. left half to right half}</li> </ul> <p><u>WARNING</u>  Group B29C 2049/4862 is incomplete pending reclassification of documents from group B29C 49/48.  Groups B29C 49/48 and B29C 2049/4862 should be considered in order to perform a complete search.</p>
M	B29C 2049/4863	<ul style="list-style-type: none"> <li>• • • • {Mould identification, e.g. chip on mould with ID and process data}</li> </ul> <p><u>WARNING</u>  Group B29C 2049/4863 is incomplete pending reclassification of documents from group B29C 49/48.  Groups B29C 49/48 and B29C 2049/4863 should be considered in order to perform a complete search.</p>
M	B29C 2049/4874	<ul style="list-style-type: none"> <li>• • • {characterised by the material, e.g. having different thermal conductivities or hardness}</li> </ul> <p><u>WARNING</u>  Group B29C 2049/4874 is incomplete pending reclassification of documents from group B29C 49/48.  Groups B29C 49/48 and B29C 2049/4874 should be considered in order to perform a complete search.</p>
U	B29C 2049/4879	<ul style="list-style-type: none"> <li>• • • {characterised by mould configurations}</li> </ul>
M	B29C 2049/4881	<ul style="list-style-type: none"> <li>• • • • {having a mandrel or core e.g. two mould halves with a core in-between}</li> </ul> <p><u>WARNING</u>  Group B29C 2049/4881 is incomplete pending reclassification of documents from group B29C 49/48.  Groups B29C 49/48 and B29C 2049/4881 should be considered in order to perform a complete search.</p>
M	B29C 2049/4882	<ul style="list-style-type: none"> <li>• • • • {Mould cavity geometry}</li> </ul> <p><u>WARNING</u>  Group B29C 2049/4882 is impacted by reclassification into groups B29C 2049/48825 and B29C 2049/4883.  Groups B29C 2049/4882, B29C 2049/48825 and B29C 2049/4883 should be considered in order to perform a complete search.</p>



- M B29C 2049/48825 . . . . {Asymmetric moulds, i.e. the parison is not in the center of the mould}
- WARNING  
Group B29C 2049/48825 is incomplete pending reclassification of documents from groups B29C 49/48 and B29C 2049/4882. Groups B29C 49/48, B29C 2049/4882 and B29C 2049/48825 should be considered in order to perform a complete search.
- M B29C 2049/4883 . . . . {having cavity parts avoiding preform contact, e.g. partial free blow}
- WARNING  
Group B29C 2049/4883 is incomplete pending reclassification of documents from groups B29C 49/48 and B29C 2049/4882. Groups B29C 49/48, B29C 2049/4882 and B29C 2049/4883 should be considered in order to perform a complete search.
- M B29C 49/56 . . . . {Opening, closing or clamping means}
- WARNING  
Group B29C 49/56 is impacted by reclassification into groups B29C 49/5601, B29C 49/5602, B29C 49/5603, B29C 49/5604, B29C 49/5605, B29C 49/5606, B29C 49/5607, B29C 49/5608, B29C 49/561, B29C 49/5611, B29C 49/5612, B29C 49/5613, B29C 49/5614, B29C 2049/5631, B29C 2049/5632, B29C 2049/5633, B29C 2049/5634, B29C 2049/5635, B29C 2049/5636, B29C 2049/5661, B29C 2049/5662, B29C 2049/5663, B29C 2049/5664, B29C 2049/5665 and B29C 2049/5666. All groups listed in this Warning should be considered in order to perform a complete search.
- M B29C 49/5601 . . . . {Mechanically operated, i.e. closing or opening of the mould parts is done by mechanic means}
- WARNING  
Groups B29C 49/5601, B29C 49/5602, B29C 49/5603 and B29C 49/5604 are incomplete pending reclassification of documents from group B29C 49/56. All groups listed in this Warning should be considered in order to perform a complete search.
- M B29C 49/5605 . . . . {Hydraulically operated, i.e. closing or opening of the mould parts is done by hydraulic means}
- WARNING  
Group B29C 49/5605 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5605 should be considered in order to perform a complete search.
- M B29C 49/5606 . . . . {Pneumatically operated, i.e. closing or opening of the mould parts is done by hydraulic means}
- WARNING  
Group B29C 49/5606 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5606 should be considered in order to perform a complete search.

M	B29C 49/5607	<ul style="list-style-type: none"> <li>• • {Electrically operated, e.g. the closing or opening is done with an electrical motor direct drive}</li> </ul> <p><u>WARNING</u> Group B29C 49/5607 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5607 should be considered in order to perform a complete search.</p>
M	B29C 49/5608	<ul style="list-style-type: none"> <li>• • {Asymmetric movement of mould parts, e.g. by moving only one mould part}</li> </ul> <p><u>WARNING</u> Group B29C 49/5608 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5608 should be considered in order to perform a complete search.</p>
M	B29C 49/561	<ul style="list-style-type: none"> <li>• • {Characterised by speed, e.g. variable opening closing speed}</li> </ul> <p><u>WARNING</u> Group B29C 49/561 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/561 should be considered in order to perform a complete search.</p>
M	B29C 49/5611	<ul style="list-style-type: none"> <li>• • {Tilting movement, e.g. changing angle of the mould parts towards the vertical direction}</li> </ul> <p><u>WARNING</u> Group B29C 49/5611 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5611 should be considered in order to perform a complete search.</p>
M	B29C 49/5612	<ul style="list-style-type: none"> <li>• • {characterised by bottom part movement}</li> </ul> <p><u>WARNING</u> Group B29C 49/5612 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5612 should be considered in order to perform a complete search.</p>
M	B29C 49/5613	<ul style="list-style-type: none"> <li>• • {characterised by connected mould part movement, e.g. bottom part movement is linked to mould half movement}</li> </ul> <p><u>WARNING</u> Group B29C 49/5613 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5613 should be considered in order to perform a complete search.</p>
M	B29C 49/5614	<ul style="list-style-type: none"> <li>• • {Safety means, e.g. during ejection or locking failure}</li> </ul> <p><u>WARNING</u> Group B29C 49/5614 is incomplete pending reclassification of documents from group B29C 49/56. Groups B29C 49/56 and B29C 49/5614 should be considered in order to perform a complete search.</p>
U	B29C 2049/563	<ul style="list-style-type: none"> <li>• • {Clamping means}</li> </ul>

M B29C 2049/5631 . . . {Hydraulic}

WARNING

Group B29C 2049/5631 is incomplete pending reclassification of documents from group B29C 49/56.  
Groups B29C 49/56 and B29C 2049/5631 should be considered in order to perform a complete search.

M B29C 2049/5632 . . . {Magnetic}

WARNING

Group B29C 2049/5632 is incomplete pending reclassification of documents from group B29C 49/56.  
Groups B29C 49/56 and B29C 2049/5632 should be considered in order to perform a complete search.

M B29C 2049/5633 . . . {Pneumatic}

WARNING

Group B29C 2049/5633 is incomplete pending reclassification of documents from group B29C 49/56.  
Groups B29C 49/56 and B29C 2049/5633 should be considered in order to perform a complete search.

M B29C 2049/5634 . . . {Electric, e.g. electric motor}

WARNING

Group B29C 2049/5634 is incomplete pending reclassification of documents from group B29C 49/56.  
Groups B29C 49/56 and B29C 2049/5634 should be considered in order to perform a complete search.

M B29C 2049/5635 . . . {Avoiding mould deformation}

WARNING

Group B29C 2049/5635 is incomplete pending reclassification of documents from group B29C 49/56.  
Groups B29C 49/56 and B29C 2049/5635 should be considered in order to perform a complete search.

M B29C 2049/5636 . . . {using closing means as clamping means}

WARNING

Group B29C 2049/5636 is incomplete pending reclassification of documents from group B29C 49/56.  
Groups B29C 49/56 and B29C 2049/5636 should be considered in order to perform a complete search.

U B29C 2049/566 . . . {Locking means}

M B29C 2049/5661 . . . {Mechanical}

WARNING

Groups B29C 2049/5661, B29C 2049/5662, B29C 2049/5663 and B29C 2049/5664 are incomplete pending reclassification of documents from group B29C 49/56.  
All groups listed in this Warning should be considered in order to perform a complete search.

M B29C 2049/5665 . . . {Magnetic}

WARNING

Group B29C 2049/5665 is incomplete pending reclassification of documents from group B29C 49/56.  
Groups B29C 49/56 and B29C 2049/5665 should be considered in order to perform a complete search.

M B29C 2049/5666 . . . {Pneumatic}

WARNING

Group B29C 2049/5666 is incomplete pending reclassification of documents from group B29C 49/56.  
Groups B29C 49/56 and B29C 2049/5666 should be considered in order to perform a complete search.

U B29C 49/58 . . Blowing means

M B29C 2049/5893 . . . {Mounting, exchanging or centering blowing means}

WARNING

Group B29C 2049/5893 is impacted by reclassification into group B29C 2049/5898.  
Groups B29C 2049/5893 and B29C 2049/5898 should be considered in order to perform a complete search.

M B29C 2049/5898 . . . {Regulation of the blowing means clamp force}

WARNING

Group B29C 2049/5898 is incomplete pending reclassification of documents from group B29C 2049/5893.  
Groups B29C 2049/5893 and B29C 2049/5898 should be considered in order to perform a complete search.

M B29C 49/60 . . . Blow-needles

WARNING

Group B29C 49/60 is impacted by reclassification into groups B29C 2049/6091 and B29C 2049/6092.  
Groups B29C 49/60, B29C 2049/6091 and B29C 2049/6092 should be considered in order to perform a complete search.

M B29C 2049/6091 . . . {Avoiding needle marks, e.g. insertion in sprue}

WARNING

Group B29C 2049/6091 is incomplete pending reclassification of documents from group B29C 49/60.  
Groups B29C 49/60 and B29C 2049/6091 should be considered in order to perform a complete search.

M B29C 2049/6092 . . . {Blow needle sterilization}

WARNING

Group B29C 2049/6092 is incomplete pending reclassification of documents from group B29C 49/60.  
Groups B29C 49/60 and B29C 2049/6092 should be considered in order to perform a complete search.

M B29C 49/62 . . Venting means

WARNING

Group B29C 49/62 is impacted by reclassification into groups B29C 2049/6271 and B29C 2049/6272.

Groups B29C 49/62, B29C 2049/6271 and B29C 2049/6272 should be considered in order to perform a complete search.

- M B29C 2049/6271 . . . {for venting blowing medium, e.g. using damper or silencer}

**WARNING**

Groups B29C 2049/6271 and B29C 2049/6272 are incomplete pending reclassification of documents from group B29C 49/62.  
Groups B29C 49/62, B29C 2049/6271 and B29C 2049/6272 should be considered in order to perform a complete search.

- M B29C 49/64 . . Heating or cooling preforms, parisons or blown articles

**WARNING**

Group B29C 49/64 is impacted by reclassification into groups B29C 49/4268, B29C 49/4273, B29C 49/6419, B29C 49/64195, B29C 49/642, B29C 49/6427, B29C 49/643, B29C 49/6435, B29C 49/645, B29C 49/6452, B29C 49/6458, B29C 49/6462, B29C 49/6464, B29C 49/6465, B29C 49/6466, B29C 49/6467 and B29C 49/648.  
All groups listed in this Warning should be considered in order to perform a complete search.

- U B29C 49/6409 . . . {Thermal conditioning of preforms ([B29C 49/68](#) takes precedence)}

- U B29C 49/6418 . . . {Heating of preforms}

- M B29C 49/6419 . . . . {from the inside}

**WARNING**

Group B29C 49/6419 is incomplete pending reclassification of documents from group B29C 49/64.  
Groups B29C 49/64 and B29C 49/6419 should be considered in order to perform a complete search.

- M B29C 49/64195 . . . . {Heated by the mould}

**WARNING**

Group B29C 49/64195 is incomplete pending reclassification of documents from group B29C 49/64.  
Groups B29C 49/64 and B29C 49/64195 should be considered in order to perform a complete search.

- M B29C 49/642 . . . . {and shrinking of the preform}

**WARNING**

Group B29C 49/642 is incomplete pending reclassification of documents from group B29C 49/64.  
Groups B29C 49/64 and B29C 49/642 should be considered in order to perform a complete search.

- M B29C 49/6427 . . . . {Cooling of preforms}

**WARNING**

Groups B29C 49/6427, B29C 49/643 and B29C 49/6435 are incomplete pending reclassification of documents from group B29C 49/64.  
All groups listed in this Warning should be considered in order to perform a complete search.

- U B29C 49/6436 . . . . {characterised by temperature differential}

- U B29C 49/6445 . . . . {through the preform length}

M B29C 49/645 . . . . . {by cooling the neck}

WARNING

Group B29C 49/645 is incomplete pending reclassification of documents from group B29C 49/64.  
Groups B29C 49/64 and B29C 49/645 should be considered in order to perform a complete search.

M B29C 49/6452 . . . . . {by heating the neck}

WARNING

Group B29C 49/6452 is incomplete pending reclassification of documents from group B29C 49/64.  
Groups B29C 49/64 and B29C 49/6452 should be considered in order to perform a complete search.

M B29C 49/6458 . . . . . {tangentially, i.e. along circumference}

WARNING

Group B29C 49/6458 is incomplete pending reclassification of documents from group B29C 49/64.  
Groups B29C 49/64 and B29C 49/6458 should be considered in order to perform a complete search.

M B29C 49/6462 . . . . . {by masking}

WARNING

Group B29C 49/6462 is incomplete pending reclassification of documents from group B29C 49/64.  
Groups B29C 49/64 and B29C 49/6462 should be considered in order to perform a complete search.

U B29C 49/6463 . . . . . {by contact heating or cooling, e.g. mandrels or cores specially adapted for heating or cooling preforms}

M B29C 49/6464 . . . . . {Heating}

WARNING

Group B29C 49/6464 is incomplete pending reclassification of documents from group B29C 49/64.  
Groups B29C 49/64 and B29C 49/6464 should be considered in order to perform a complete search.

M B29C 49/6465 . . . . . {Cooling}

WARNING

Group B29C 49/6465 is incomplete pending reclassification of documents from group B29C 49/64.  
Groups B29C 49/64 and B29C 49/6465 should be considered in order to perform a complete search.

M B29C 49/6466 . . . . . {on the inside}

WARNING

Group B29C 49/6466 is incomplete pending reclassification of documents from group B29C 49/64.  
Groups B29C 49/64 and B29C 49/6466 should be considered in order to perform a complete search.



M	B29C 49/6467	<ul style="list-style-type: none"> <li>• • • • {on the outside}</li> </ul> <p><u>WARNING</u> Group B29C 49/6467 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/6467 should be considered in order to perform a complete search.</p>
U	B29C 49/6472	<ul style="list-style-type: none"> <li>• • • {in several stages}</li> </ul>
M	B29C 49/648	<ul style="list-style-type: none"> <li>• • • • {of preforms or parisons}</li> </ul> <p><u>WARNING</u> Group B29C 49/648 is incomplete pending reclassification of documents from group B29C 49/64. Groups B29C 49/64 and B29C 49/648 should be considered in order to perform a complete search.</p>
M	B29C 49/66	<ul style="list-style-type: none"> <li>• • • Cooling by refrigerant introduced into the blown article</li> </ul> <p><u>WARNING</u> Group B29C 49/66 is impacted by reclassification into groups B29C 49/6604, B29C 49/6605, B29C 49/66055, B29C 2049/6606 and B29C 2049/671. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/6604	<ul style="list-style-type: none"> <li>• • • {Thermal conditioning of the blown article (<a href="#">B29C 49/66</a> takes precedence)}</li> </ul> <p><u>WARNING</u> Groups B29C 49/6604, B29C 49/6605, B29C 49/66055, B29C 2049/6606 and B29C 2049/671 are incomplete pending reclassification of documents from group B29C 49/66. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/68	<ul style="list-style-type: none"> <li>• • • Ovens specially adapted for heating preforms or parisons</li> </ul> <p><u>WARNING</u> Group B29C 49/68 is impacted by reclassification into groups B29C 49/681, B29C 49/682, B29C 49/6825, B29C 49/683, B29C 49/6835, B29C 49/684, B29C 49/6845, B29C 49/685 and B29C 49/6855. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B29C 49/681	<ul style="list-style-type: none"> <li>• • • • {using a conditioning receptacle, e.g. a cavity, e.g. having heated or cooled regions}</li> </ul> <p><u>WARNING</u> Group B29C 49/681 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/681 should be considered in order to perform a complete search.</p>
M	B29C 49/682	<ul style="list-style-type: none"> <li>• • • • {characterised by the path, e.g. sinusoidal path}</li> </ul> <p><u>WARNING</u> Group B29C 49/682 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/682 should be considered in order to perform a complete search.</p>

M	B29C 49/6825	<ul style="list-style-type: none"> <li>• • • {Mounting exchanging or centering ovens or parts thereof}</li> </ul> <p><u>WARNING</u> Group B29C 49/6825 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/6825 should be considered in order to perform a complete search.</p>
M	B29C 49/683	<ul style="list-style-type: none"> <li>• • • {Adjustable or modular conditioning means, e.g. position and number of heating elements}</li> </ul> <p><u>WARNING</u> Group B29C 49/683 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/683 should be considered in order to perform a complete search.</p>
M	B29C 49/6835	<ul style="list-style-type: none"> <li>• • • {using reflectors}</li> </ul> <p><u>WARNING</u> Group B29C 49/6835 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/6835 should be considered in order to perform a complete search.</p>
M	B29C 49/684	<ul style="list-style-type: none"> <li>• • • {using masking}</li> </ul> <p><u>WARNING</u> Group B29C 49/684 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/684 should be considered in order to perform a complete search.</p>
M	B29C 49/6845	<ul style="list-style-type: none"> <li>• • • {using ventilation, e.g. a fan}</li> </ul> <p><u>WARNING</u> Group B29C 49/6845 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/6845 should be considered in order to perform a complete search.</p>
M	B29C 49/685	<ul style="list-style-type: none"> <li>• • • {Rotating the preform in relation to heating means}</li> </ul> <p><u>WARNING</u> Group B29C 49/685 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/685 should be considered in order to perform a complete search.</p>
M	B29C 49/6855	<ul style="list-style-type: none"> <li>• • • {Cooling of heating means, e.g. avoiding overheating}</li> </ul> <p><u>WARNING</u> Group B29C 49/6855 is incomplete pending reclassification of documents from group B29C 49/68. Groups B29C 49/68 and B29C 49/6855 should be considered in order to perform a complete search.</p>
M	B29C 49/70	<ul style="list-style-type: none"> <li>• • Removing or ejecting blown articles from the mould</li> </ul> <p><u>WARNING</u> Group B29C 49/70 is impacted by reclassification into groups B29C 49/4273 and B29C 2049/709.</p>

Groups B29C 49/70, B29C 49/4273 and B29C 2049/709 should be considered in order to perform a complete search.

- M B29C 2049/709
  - • {Retaining means, e.g. means for retaining the article before it is removed or ejected}

WARNING

Group B29C 2049/709 is incomplete pending reclassification of documents from group B29C 49/70.  
Groups B29C 49/70 and B29C 2049/709 should be considered in order to perform a complete search.

- M B29C 49/76
  - • Neck calibration

WARNING

Group B29C 49/76 is impacted by reclassification into groups B29C 49/4268, B29C 49/4273 and B29C 49/761.  
All groups listed in this Warning should be considered in order to perform a complete search.

- M B29C 49/761
  - • {Forming threads, e.g. shaping neck thread between blowing means and mould}

WARNING

Group B29C 49/761 is incomplete pending reclassification of documents from group B29C 49/76.  
Groups B29C 49/76 and B29C 49/761 should be considered in order to perform a complete search.

- M B29C 49/78
  - • Measuring, controlling or regulating

WARNING

Group B29C 49/78 is impacted by reclassification into groups B29C 49/4268, B29C 49/4273, B29C 2049/7831, B29C 2049/7832, B29C 2049/7833, B29C 2049/7834, B29C 2049/7835, B29C 2049/7861, B29C 2049/7862, B29C 2049/7863, B29C 2049/7864, B29C 2049/78645, B29C 2049/7865, B29C 2049/7866, B29C 2049/7867, B29C 2049/78675, B29C 2049/7868, B29C 2049/787, B29C 2049/78705, B29C 2049/7871, B29C 2049/78715, B29C 2049/7873, B29C 2049/7874, B29C 2049/78745, B29C 2049/7875, B29C 2049/78755, B29C 2049/7876, B29C 2049/78765, B29C 2049/7878, B29C 2049/7879, B29C 2049/788, B29C 2049/78805, B29C 2049/7881, B29C 2049/78815 and B29C 2049/7882.  
All groups listed in this Warning should be considered in order to perform a complete search.

- U B29C 49/783
  - • {blowing pressure}

- M B29C 2049/7831
  - • • {characterised by pressure values or ranges}

WARNING

Group B29C 2049/7831 is incomplete pending reclassification of documents from group B29C 49/78.  
Groups B29C 49/78 and B29C 2049/7831 should be considered in order to perform a complete search.

- M B29C 2049/7832
  - • • {Blowing with two or more pressure levels}

WARNING

Groups B29C 2049/7832 and B29C 2049/7833 are incomplete pending reclassification of documents from group B29C 49/78.  
Groups B29C 49/78, B29C 2049/7832 and B29C 2049/7833 should be considered in order to perform a complete search.

M	B29C 2049/7834	. . . {Pressure increase speed, e.g. dependent on stretch or position}	<u>WARNING</u> Group B29C 2049/7834 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7834 should be considered in order to perform a complete search.
M	B29C 2049/7835	. . . {Pressure reduction speed}	<u>WARNING</u> Group B29C 2049/7835 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7835 should be considered in order to perform a complete search.
U	B29C 49/786	. . . {Temperature}	
M	B29C 2049/7861	. . . {of the preform}	<u>WARNING</u> Groups B29C 2049/7861, B29C 2049/7862 and B29C 2049/7863 are incomplete pending reclassification of documents from group B29C 49/78. All groups listed in this Warning should be considered in order to perform a complete search.
M	B29C 2049/7864	. . . {of the mould}	<u>WARNING</u> Groups B29C 2049/7864 and B29C 2049/78645 are incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78, B29C 2049/7864 and B29C 2049/78645 should be considered in order to perform a complete search.
M	B29C 2049/7865	. . . {of the stretching means, e.g. stretch rod}	<u>WARNING</u> Group B29C 2049/7865 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7865 should be considered in order to perform a complete search.
M	B29C 2049/7866	. . . {of the blowing medium}	<u>WARNING</u> Group B29C 2049/7866 is incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78 and B29C 2049/7866 should be considered in order to perform a complete search.
M	B29C 2049/7867	. . . {of the heating or cooling means}	<u>WARNING</u> Groups B29C 2049/7867 and B29C 2049/78675 are incomplete pending reclassification of documents from group B29C 49/78. Groups B29C 49/78, B29C 2049/7867 and B29C 2049/78675 should be considered in order to perform a complete search.
M	B29C 2049/7868	. . . {of the articles}	<u>WARNING</u> Group B29C 2049/7868 is incomplete pending reclassification of documents from group B29C 49/78.

Groups B29C 49/78 and B29C 2049/7868 should be considered in order to perform a complete search.

M B29C 2049/787     . . . {Thickness}

WARNING

Groups B29C 2049/787, B29C 2049/78705, B29C 2049/7871 and B29C 2049/78715 are incomplete pending reclassification of documents from group B29C 49/78.

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

M B29C 2049/7873     . . . {Extrusion speed; Extruded preform position or length; Extrusion fall speed}

WARNING

Group B29C 2049/7873 is incomplete pending reclassification of documents from group B29C 49/78.

Groups B29C 49/78 and B29C 2049/7873 should be considered in order to perform a complete search.

M B29C 2049/7874     . . . {Preform or article shape, weight, defect or presence}

WARNING

Groups B29C 2049/7874, B29C 2049/78745, B29C 2049/7875, B29C 2049/78755, B29C 2049/7876 and B29C 2049/78765 are incomplete pending reclassification of documents from group B29C 49/78.

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

M B29C 2049/7878     . . . {Preform or article handling, e.g. flow from station to station}

WARNING

Group B29C 2049/7878 is incomplete pending reclassification of documents from group B29C 49/78.

Groups B29C 49/78 and B29C 2049/7878 should be considered in order to perform a complete search.

M B29C 2049/7879     . . . {Stretching, e.g. stretch rod}

WARNING

Group B29C 2049/7879 is incomplete pending reclassification of documents from group B29C 49/78.

Groups B29C 49/78 and B29C 2049/7879 should be considered in order to perform a complete search.

M B29C 2049/788     . . . {Controller type or interface}

WARNING

Groups B29C 2049/788, B29C 2049/78805, B29C 2049/7881, B29C 2049/78815 and B29C 2049/7882 are incomplete pending reclassification of documents from group B29C 49/78.

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

M B29C 49/80     . . . Testing, e.g. for leaks

WARNING

Group B29C 49/80 is impacted by reclassification into group B29C 2049/801.

Groups B29C 49/80 and B29C 2049/801 should be considered in order to perform a complete search.

M B29C 2049/801 . . . {Taking preform or article samples, e.g. by cutting out pieces for analysis}

WARNING

Group B29C 2049/801 is incomplete pending reclassification of documents from group B29C 49/80.

Groups B29C 49/80 and B29C 2049/801 should be considered in order to perform a complete search.

M B29C 2949/00

**Indexing scheme relating to blow-moulding**

WARNING

Group B29C 2949/00 is incomplete pending reclassification of documents from group B29C 49/22.

Group B29C 2949/00 is also impacted by reclassification into groups B29C 2949/07, B29C 2949/071, B29C 2949/0715, B29C 2949/072, B29C 2949/0721, B29C 2949/0722, B29C 2949/0723, B29C 2949/0724, B29C 2949/0725, B29C 2949/073, B29C 2949/0731, B29C 2949/0732, B29C 2949/0733, B29C 2949/0734, B29C 2949/074, B29C 2949/0741, B29C 2949/0742, B29C 2949/0744, B29C 2949/0745, B29C 2949/0746, B29C 2949/0747, B29C 2949/075, B29C 2949/0751, B29C 2949/0752, B29C 2949/0753, B29C 2949/0754, B29C 2949/076, B29C 2949/0761, B29C 2949/0762, B29C 2949/0763, B29C 2949/0764, B29C 2949/0765, B29C 2949/0766, B29C 2949/0767, B29C 2949/0768, B29C 2949/0769, B29C 2949/077, B29C 2949/0771, B29C 2949/0772, B29C 2949/0773, B29C 2949/0774, B29C 2949/0775, B29C 2949/0776, B29C 2949/0777, B29C 2949/0778, B29C 2949/0779, B29C 2949/078, B29C 2949/0781, B29C 2949/0782, B29C 2949/079, B29C 2949/0791, B29C 2949/0792, B29C 2949/0793, B29C 2949/0794, B29C 2949/0795, B29C 2949/0796, B29C 2949/0797, B29C 2949/0798, B29C 2949/0799, B29C 2949/08, B29C 2949/0801, B29C 2949/081, B29C 2949/0811, B29C 2949/0812, B29C 2949/0813, B29C 2949/0814, B29C 2949/0815, B29C 2949/0816, B29C 2949/0817, B29C 2949/0818, B29C 2949/0819, B29C 2949/082, B29C 2949/0821, B29C 2949/0822, B29C 2949/0823, B29C 2949/0824, B29C 2949/0825, B29C 2949/0826, B29C 2949/0827, B29C 2949/0828, B29C 2949/0829, B29C 2949/083, B29C 2949/0831, B29C 2949/0832, B29C 2949/0833, B29C 2949/0834, B29C 2949/0835, B29C 2949/0836, B29C 2949/0837, B29C 2949/0838, B29C 2949/0839, B29C 2949/084, B29C 2949/0841, B29C 2949/0842, B29C 2949/0843, B29C 2949/0844, B29C 2949/0845, B29C 2949/0846, B29C 2949/0847, B29C 2949/0849, B29C 2949/085, B29C 2949/0851, B29C 2949/0852, B29C 2949/0853, B29C 2949/0854, B29C 2949/0855, B29C 2949/0856, B29C 2949/086, B29C 2949/0861, B29C 2949/0862, B29C 2949/0863, B29C 2949/0864, B29C 2949/0865, B29C 2949/0866, B29C 2949/0867, B29C 2949/0868, B29C 2949/0869, B29C 2949/087, B29C 2949/0871, B29C 2949/0872, B29C 2949/20, B29C 2949/22, B29C 2949/24, B29C 2949/26, B29C 2949/28, B29C 2949/30, B29C 2949/3004, B29C 2949/3006, B29C 2949/3008, B29C 2949/3009, B29C 2949/3012, B29C 2949/3014, B29C 2949/3016, B29C 2949/3018, B29C 2949/302, B29C 2949/3022, B29C 2949/3024, B29C 2949/3026, B29C 2949/3028, B29C 2949/303, B29C 2949/3032, B29C 2949/3034, B29C 2949/3036, B29C 2949/3038, B29C 2949/3041, B29C 2949/3042, B29C 2949/3044, B29C 2949/3046, B29C 2949/3048, B29C 2949/3051, B29C 2949/3052, B29C 2949/3054, B29C 2949/3056, B29C 2949/3058, B29C 2949/306, B29C 2949/3062, B29C 2949/3064, B29C 2949/3066, B29C 2949/3068, B29C 2949/307, B29C 2949/3074, B29C 2949/3076, B29C 2949/3078, B29C 2949/308, B29C 2949/3082, B29C 2949/3084, B29C 2949/3086, B29C 2949/3088, B29C 2949/309, B29C 2949/3092 and B29C 2949/3094.

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



- M B29C 2949/07 • Preforms or parisons characterised by their configuration

WARNING

Groups B29C 2949/07, B29C 2949/071, B29C 2949/0715, B29C 2949/072, B29C 2949/0721, B29C 2949/0722, B29C 2949/0723, B29C 2949/0724, B29C 2949/0725, B29C 2949/073, B29C 2949/0731, B29C 2949/0732, B29C 2949/0733, B29C 2949/0734, B29C 2949/074, B29C 2949/0741, B29C 2949/0742, B29C 2949/0744, B29C 2949/0745, B29C 2949/0746, B29C 2949/0747, B29C 2949/075, B29C 2949/0751, B29C 2949/0752, B29C 2949/0753, B29C 2949/0754, B29C 2949/076, B29C 2949/0761, B29C 2949/0762, B29C 2949/0763, B29C 2949/0764, B29C 2949/0765, B29C 2949/0766, B29C 2949/0767, B29C 2949/0768, B29C 2949/0769, B29C 2949/077, B29C 2949/0771, B29C 2949/0772, B29C 2949/0773, B29C 2949/0774, B29C 2949/0775, B29C 2949/0776, B29C 2949/0777, B29C 2949/0778, B29C 2949/0779, B29C 2949/078, B29C 2949/0781, B29C 2949/0782, B29C 2949/079, B29C 2949/0791, B29C 2949/0792, B29C 2949/0793, B29C 2949/0794, B29C 2949/0795, B29C 2949/0796, B29C 2949/0797, B29C 2949/0798, B29C 2949/0799, B29C 2949/08, B29C 2949/0801, B29C 2949/081, B29C 2949/0811, B29C 2949/0812, B29C 2949/0813, B29C 2949/0814, B29C 2949/0815, B29C 2949/0816, B29C 2949/0817, B29C 2949/0818, B29C 2949/0819, B29C 2949/082, B29C 2949/0821, B29C 2949/0822, B29C 2949/0823, B29C 2949/0824, B29C 2949/0825, B29C 2949/0826, B29C 2949/0827, B29C 2949/0828, B29C 2949/0829, B29C 2949/083, B29C 2949/0831, B29C 2949/0832, B29C 2949/0833, B29C 2949/0834, B29C 2949/0835, B29C 2949/0836, B29C 2949/0837, B29C 2949/0838, B29C 2949/0839, B29C 2949/084, B29C 2949/0841, B29C 2949/0842, B29C 2949/0843, B29C 2949/0844, B29C 2949/0845, B29C 2949/0846, B29C 2949/0847, B29C 2949/0849, B29C 2949/085, B29C 2949/0851, B29C 2949/0852, B29C 2949/0853, B29C 2949/0854, B29C 2949/0855, B29C 2949/0856, B29C 2949/086, B29C 2949/0861, B29C 2949/0862, B29C 2949/0863, B29C 2949/0864, B29C 2949/0865, B29C 2949/0866, B29C 2949/0867, B29C 2949/0868, B29C 2949/0869, B29C 2949/087, B29C 2949/0871 and B29C 2949/0872 are incomplete pending reclassification of documents from group B29C 2949/00. All groups listed in this Warning should be considered in order to perform a complete search.

- M B29C 2949/20 • Preforms or parisons whereby a specific part is made of only one component, e.g. only one layer

WARNING

Groups B29C 2949/20, B29C 2949/22, B29C 2949/24, B29C 2949/26 and B29C 2949/28 are incomplete pending reclassification of documents from group B29C 2949/00. All groups listed in this Warning should be considered in order to perform a complete search.

- M B29C 2949/30 • Preforms or parisons made of several components

WARNING

Groups B29C 2949/30, B29C 2949/3004, B29C 2949/3006, B29C 2949/3008, B29C 2949/3009, B29C 2949/3012, B29C 2949/3014, B29C 2949/3016, B29C 2949/3018, B29C 2949/302, B29C 2949/3022, B29C 2949/3024, B29C 2949/3026, B29C 2949/3028, B29C 2949/303, B29C 2949/3032, B29C 2949/3034, B29C 2949/3036, B29C 2949/3038, B29C 2949/3041, B29C 2949/3042, B29C 2949/3044, B29C 2949/3046, B29C 2949/3048, B29C 2949/3051, B29C 2949/3052, B29C 2949/3054, B29C 2949/3056, B29C 2949/3058, B29C 2949/306, B29C 2949/3062, B29C 2949/3064, B29C 2949/3066, B29C 2949/3068, B29C 2949/307, B29C 2949/3074, B29C 2949/3076, B29C 2949/3078, B29C 2949/308, B29C 2949/3082,

~~B29C 2949/3084, B29C 2949/3086, B29C 2949/3088, B29C 2949/309, B29C 2949/3092 and B29C 2949/3094 are incomplete pending reclassification of documents from group B29C 2949/00.  
All groups listed in this Warning should be considered in order to perform a complete search.~~

## Project: MP12503 (B60C)

**U B60C 23/00** Devices for measuring, signalling, controlling, or distributing tyre pressure or temperature, specially adapted for mounting on vehicles; Arrangement of tyre inflating devices on vehicles, e.g. of pumps or of tanks; Tyre cooling arrangements

**M B60C 23/005** • {Devices specially adapted for special wheel arrangements}

### NOTE

~~{B60C 23/001, B60C 23/02, B60C 23/04, B60C 23/06 or B60C 23/08}~~

**U B60C 25/00** Apparatus or tools adapted for mounting, removing or inspecting tyres (testing of tyres [G01M 17/02](#))

**M B60C 25/002** • {Inspecting tyres}

### NOTE

~~{When classifying in this group, classification is also made in the appropriate subgroups of B60C 25/0548.}~~

## Project: MP12700 (B60K)

**M B60K** ARRANGEMENT OR MOUNTING OF PROPULSION UNITS OR OF TRANSMISSIONS IN VEHICLES; ARRANGEMENT OR MOUNTING OF PLURAL DIVERSE PRIME-MOVERS IN VEHICLES; AUXILIARY DRIVES FOR VEHICLES; INSTRUMENTATION OR DASHBOARDS FOR VEHICLES; ARRANGEMENTS IN CONNECTION WITH COOLING, AIR INTAKE, GAS EXHAUST OR FUEL SUPPLY OF PROPULSION UNITS IN VEHICLES

### NOTES

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

- ~~"conjoint control of drive units" includes such control for vehicles or of general applicability;~~
- "auxiliary drives" means drives of auxiliary or external machines or devices from the propulsion unit, transmission, or other parts of the vehicle, and includes the control of such drives;
- "transmission" means all propulsion parts linking propulsion units, e.g. engines, to ultimate propulsive elements, e.g. wheels;
- ~~"drive unit" means propulsion unit conjoint with transmission, a "drive unit" can additionally include the ultimate driven unit;~~
- ~~"sub-unit" means, e.g. propulsion unit, clutch, gearing or brake system;~~
- ~~"hybrid vehicle" means vehicles with plural diverse prime-movers for mutual or common propulsion~~

2. Attention is drawn to the Note following the title of class [B60](#)

M	B60K 1/00 - B60K 8/00	<u>Arrangement or mounting of propulsion units in vehicles <del>(of control devices for such units B60K 26/00; elastic mountings per se F16F; propulsion units or their control per se, see the relevant classes)</del></u>
M	B60K 6/00	Arrangement or mounting of plural diverse prime-movers for mutual or common propulsion, e.g. hybrid propulsion systems comprising electric motors and internal combustion engines <del>{; Control systems therefor, i.e. systems controlling two or more prime movers, or controlling one of these prime movers and any of the transmission, drive or drive units}</del>
		NOTE In this subgroup, the following expressions are used, with the meanings indicated:- <ul style="list-style-type: none"> <li>• "prime-mover" means a propulsion unit or source of motive power providing a mechanical output, e.g. via a rotating shaft;</li> <li>• "hybrid electric vehicle" [HEV] means a vehicle having an electric prime-mover and a combustion engine, in which the electrical prime-mover and the combustion engine either singly or in combination, drive the ultimate propulsive elements, e.g. wheels;</li> <li>• "energy storing means" means apparatus for storing propulsive energy and providing stored energy to drive the prime mover or the ultimate propulsive elements, e.g. wheels;</li> <li>• "hybrid electric vehicle" (HEV) means a vehicle with an electrical prime mover and a combustion engine, in which the electrical prime mover and the combustion engine either singly or in combination, drive the ultimate propulsive elements, e.g. wheels</li> <li>• "motor-generator" means an electric motor, or an electric machine, such as a motor or a generator, or an electrical machine which can be used for both functions, as a motor or a generator a mechanical combination thereof, which can provide positive mechanical output force or torque and which can function at other times as an electric generator.</li> <li>• "prime-mover" means a propulsion unit or source of motive power providing a mechanical output, e.g. via a rotating shaft</li> </ul>
M	B60K 8/00	Arrangement or mounting of propulsion units not provided for in one of <del>the preceding</del> main groups <u>B60K 1/00 - B60K 7/00</u>
U	B60K 11/00	Arrangement in connection with cooling of propulsion units
U	B60K 11/02	• with liquid cooling
M	B60K 11/04	• • Arrangement or mounting of radiators, radiator shutters, or radiator blinds <del>{{(B60K 11/085 takes precedence)}}</del>
M	B60K 17/00 - <del>B60K 31/00</del> <u>B60K 23/00</u>	<u>Arrangement or mounting of transmissions or their control in vehicles <del>(torque-transmitting axles B60B; combined transmission and steering gear for steering non-deflectable wheels B62D)</del></u>
U	B60K 17/00	Arrangement or mounting of transmissions in vehicles
U	B60K 17/22	• characterised by arrangement, location, or type of main drive shafting, e.g. cardan shaft
M	B60K 17/24	• • <del>Arrangements</del> <u>Arrangement</u> of mountings for shafting
M	B60K 17/26	• characterised by arrangement, location, <del>of</del> <u>or</u> type of freewheel device
M	B60K 26/00	<del>Arrangements</del> <u>Arrangement</u> or mounting of propulsion <del>-</del> unit control devices in vehicles

- U B60K 31/00** Vehicle fittings, acting on a single sub-unit only, for automatically controlling vehicle speed, i.e. preventing speed from exceeding an arbitrarily established velocity or maintaining speed at a particular velocity, as selected by the vehicle operator

NOTE

In this group:

- the means ordinarily includes a device, e.g. a servomechanism, for operating a velocity-affecting element of the vehicle, e.g. the throttle;
- a means for preventing a vehicle from exceeding a particular speed is often referred to as a "governor", whereas a means for maintaining the vehicle within a relatively narrow speed range is generally designated as "speed control". Since these two functions are frequently interrelated, no attempt has been made to identify such means as being particularly adapted to perform only one, or the other of the functions.

- M B60K 31/02** • including electrically actuated servomechanism ~~{including an electric control system or a servomechanism in which the vehicle velocity affecting element is actuated electrically}~~
- M B60K 31/12** • including a device responsive to centrifugal force

NOTES

1. This subgroup covers also, for example, the pendulum of a curve compensator, i.e. a refinement to the regulating means for automatically adjusting the "set" speed of the means to changes in the course of the roadway along which the vehicle is travelling.

2. In this subgroup, rotating weights driven at a speed proportional to that of the vehicle's motor presently predominate.

**Project: RP11777-F (B64G)**

- U B64G 1/00** **Cosmonautic vehicles**

- M B64G 1/002** • {Launch systems}

WARNING

Group B64G 1/002 is impacted by reclassification into groups B64G 1/006 and B64G 1/008.

Groups B64G 1/002, B64G 1/006 and B64G 1/008 should be considered in order to perform a complete search.

- M B64G 1/006** • • {Reusable launch rockets or boosters}

WARNING

Group B64G 1/006 is incomplete pending reclassification of documents from group B64G 1/002.

Groups B64G 1/002 and B64G 1/006 should be considered in order to perform a complete search.

- M B64G 1/008** • • {Arrangement of launch rockets or boosters}

WARNING

Group B64G 1/008 is incomplete pending reclassification of documents from group B64G 1/002.

Groups B64G 1/002 and B64G 1/008 should be considered in order to perform a complete search.

- U B64G 1/10** • Artificial satellites; Systems of such satellites; Interplanetary vehicles (space shuttles [B64G 1/14](#))

M	B64G 1/1078	<ul style="list-style-type: none"> <li>• {Maintenance satellites (refuelling in space <a href="#">B64G 1/4024</a>)}</li> </ul> <p><b>WARNING</b> Group B64G 1/1078 is impacted by reclassification into groups B64G 1/1081 and B64G 1/4024. Groups B64G 1/1078, B64G 1/1081 and B64G 1/4024 should be considered in order to perform a complete search.</p>
M	B64G 1/1081	<ul style="list-style-type: none"> <li>• • {for debris removal}</li> </ul> <p><b>WARNING</b> Group B64G 1/1081 is incomplete pending reclassification of documents from group B64G 1/1078. Groups B64G 1/1078 and B64G 1/1081 should be considered in order to perform a complete search.</p>
U	B64G 1/22	<ul style="list-style-type: none"> <li>• Parts of, or equipment specially adapted for fitting in or to, cosmonautic vehicles</li> </ul>
M	B64G 1/222	<ul style="list-style-type: none"> <li>• {for deploying structures between a stowed and deployed state}</li> </ul> <p><b>WARNING</b> Group B64G 1/222 is impacted by reclassification into groups B64G 1/2221, B64G 1/2222, B64G 1/2223, B64G 1/2224, B64G 1/2225, B64G 1/2226, B64G 1/2227, B64G 1/2228 and B64G 1/2229. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B64G 1/2221	<ul style="list-style-type: none"> <li>• • {characterised by the manner of deployment}</li> </ul> <p><b>WARNING</b> Groups B64G 1/2221 – B64G 1/2227 are incomplete pending reclassification of documents from group B64G 1/222. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B64G 1/2228	<ul style="list-style-type: none"> <li>• • {characterised by the hold-down or release mechanisms}</li> </ul> <p><b>WARNING</b> Group B64G 1/2228 is incomplete pending reclassification of documents from group B64G 1/222. Groups B64G 1/222 and B64G 1/2228 should be considered in order to perform a complete search.</p>
M	B64G 1/2229	<ul style="list-style-type: none"> <li>• • {characterised by the deployment actuating mechanism (inflating <a href="#">B64G 1/2227</a>)}</li> </ul> <p><b>WARNING</b> Group B64G 1/2229 is incomplete pending reclassification of documents from group B64G 1/222. Groups B64G 1/222 and B64G 1/2229 should be considered in order to perform a complete search.</p>
U	B64G 1/24	<ul style="list-style-type: none"> <li>• Guiding or controlling apparatus, e.g. for attitude control</li> </ul>
M	B64G 1/242	<ul style="list-style-type: none"> <li>• • {Orbits and trajectories}</li> </ul> <p><b>WARNING</b> Group B64G 1/242 is impacted by reclassification into groups B64G 1/2421, B64G 1/2422, B64G 1/2423, B64G 1/2425, B64G 1/2427, B64G 1/2429 and B64G 1/244. All groups listed in this Warning should be considered in order to perform a complete search.</p>

M	B64G 1/2421	<ul style="list-style-type: none"> <li>• • • {Aerobraking}</li> </ul> <p><u>WARNING</u> Group B64G 1/2421 is incomplete pending reclassification of documents from group B64G 1/242. Groups B64G 1/242 and B64G 1/2421 should be considered in order to perform a complete search.</p>
M	B64G 1/2422	<ul style="list-style-type: none"> <li>• • • {using Lagrange points, e.g. halo orbits}</li> </ul> <p><u>WARNING</u> Group B64G 1/2422 is incomplete pending reclassification of documents from group B64G 1/242. Groups B64G 1/242 and B64G 1/2422 should be considered in order to perform a complete search.</p>
M	B64G 1/2423	<ul style="list-style-type: none"> <li>• • • {Sun-synchronous orbits}</li> </ul> <p><u>WARNING</u> Group B64G 1/2423 is incomplete pending reclassification of documents from group B64G 1/242. Groups B64G 1/242 and B64G 1/2423 should be considered in order to perform a complete search.</p>
M	B64G 1/2425	<ul style="list-style-type: none"> <li>• • • {Geosynchronous orbits}</li> </ul> <p><u>WARNING</u> Group B64G 1/2425 is incomplete pending reclassification of documents from group B64G 1/242. Groups B64G 1/242 and B64G 1/2425 should be considered in order to perform a complete search.</p>
M	B64G 1/2427	<ul style="list-style-type: none"> <li>• • • {Transfer orbits}</li> </ul> <p><u>WARNING</u> Group B64G 1/2427 is incomplete pending reclassification of documents from group B64G 1/242. Groups B64G 1/242 and B64G 1/2427 should be considered in order to perform a complete search.</p>
M	B64G 1/2429	<ul style="list-style-type: none"> <li>• • • {Station keeping}</li> </ul> <p><u>WARNING</u> Group B64G 1/2429 is incomplete pending reclassification of documents from group B64G 1/242. Groups B64G 1/242 and B64G 1/2429 should be considered in order to perform a complete search.</p>
M	B64G 1/244	<ul style="list-style-type: none"> <li>• • • {Spacecraft control systems}</li> </ul> <p><u>WARNING</u> Group B64G 1/244 is incomplete pending reclassification of documents from group B64G 1/242. Groups B64G 1/242 and B64G 1/244 should be considered in order to perform a complete search.</p>
M	B64G 1/26	<ul style="list-style-type: none"> <li>• • • using jets</li> </ul> <p><u>WARNING</u> Group B64G 1/26 is impacted by reclassification into groups B64G 1/262 and B64G 1/264.</p>



Groups B64G 1/26, B64G 1/262 and B64G 1/264 should be considered in order to perform a complete search.

- M B64G 1/262
- • • {having adjustable angles, e.g. gimbaled thrusters}

WARNING

Groups B64G 1/262 and B64G 1/264 are incomplete pending reclassification of documents from group B64G 1/26.

Groups B64G 1/26, B64G 1/262 and B64G 1/264 should be considered in order to perform a complete search.

- M B64G 1/40
- • Arrangements or adaptations of propulsion systems

WARNING

Group B64G 1/40 is impacted by reclassification into group B64G 1/4005.

Groups B64G 1/40 and B64G 1/4005 should be considered in order to perform a complete search.

- M B64G 1/4005
- • • {Air-breathing propulsion}

WARNING

Group B64G 1/4005 is incomplete pending reclassification of documents from groups B64G 1/40 and B64G 1/401.

Groups B64G 1/40, B64G 1/401 and B64G 1/4005 should be considered in order to perform a complete search.

- M B64G 1/401
- • • {Liquid propellant rocket engines (Ion or plasma engines [B64G 1/413](#); Arcjets and other resistojets [B64G 1/415](#))}

WARNING

Group B64G 1/401 is impacted by reclassification into group B64G 1/4005.

Groups B64G 1/401 and B64G 1/4005 should be considered in order to perform a complete search.

- M B64G 1/402
- • • {Propellant tanks; Feeding propellants}

WARNING

Group B64G 1/402 is impacted by reclassification into groups B64G 1/4021, B64G 1/4022, B64G 1/4024 and B64G 1/4026.

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

- M B64G 1/4021
- • • • {Tank construction; Details thereof}

WARNING

Group B64G 1/4021 is incomplete pending reclassification of documents from group B64G 1/402.

Groups B64G 1/402 and B64G 1/4021 should be considered in order to perform a complete search.

- M B64G 1/4022
- • • • {Arrangements of tanks in or on spacecraft}

WARNING

Group B64G 1/4022 is incomplete pending reclassification of documents from group B64G 1/402.

Groups B64G 1/402 and B64G 1/4022 should be considered in order to perform a complete search.

- M B64G 1/4024
- • • • {refuelling in space}

WARNING

Group B64G 1/4024 is incomplete pending reclassification of documents from groups B64G 1/1078 and B64G 1/402.

		<p>Groups B64G 1/1078, B64G 1/402 and B64G 1/4024 should be considered in order to perform a complete search.</p>
M	B64G 1/4026	<ul style="list-style-type: none"><li>• • • {providing propellant to propulsion systems of differing type}</li></ul> <p><u>WARNING</u> Group B64G 1/4026 is incomplete pending reclassification of documents from group B64G 1/402. Groups B64G 1/402 and B64G 1/4026 should be considered in order to perform a complete search.</p>
D	B64G 1/405 —(Frozen)	<ul style="list-style-type: none"><li>• • • {Ion or plasma engines (per se F03H 1/00)}</li></ul> <p><u>WARNING</u> Group B64G 1/405 is no longer used for the classification of documents as of August 1, 2023. The content of this group is being reclassified into groups B64G 1/411 and B64G 1/413. Groups B64G 1/405, B64G 1/411 and B64G 1/413 should be considered in order to perform a complete search.</p>
M	B64G 1/409	<ul style="list-style-type: none"><li>• • • {Unconventional spacecraft propulsion systems}</li></ul> <p><u>WARNING</u> Group B64G 1/409 is impacted by reclassification into groups B64G 1/411 and B64G 1/417. Groups B64G 1/409, B64G 1/411 and B64G 1/417 should be considered in order to perform a complete search.</p>
M	B64G 1/411	<ul style="list-style-type: none"><li>• • • {Electric propulsion}</li></ul> <p><u>WARNING</u> Group B64G 1/411 is incomplete pending reclassification of documents from groups B64G 1/405 and B64G 1/409. Groups B64G 1/405, B64G 1/409 and B64G 1/411 should be considered in order to perform a complete search.</p>
M	B64G 1/413	<ul style="list-style-type: none"><li>• • • • {Ion or plasma engines}</li></ul> <p><u>WARNING</u> Group B64G 1/413 is incomplete pending reclassification of documents from group B64G 1/405. Groups B64G 1/405 and B64G 1/413 should be considered in order to perform a complete search.</p>
M	B64G 1/417	<ul style="list-style-type: none"><li>• • • • {Electromagnetic fields or flux without mass expulsion}</li></ul> <p><u>WARNING</u> Group B64G 1/417 is incomplete pending reclassification of documents from group B64G 1/409. Groups B64G 1/409 and B64G 1/417 should be considered in order to perform a complete search.</p>
U	B64G 1/42	<ul style="list-style-type: none"><li>• • Arrangements or adaptations of power supply systems</li></ul>
M	B64G 1/428	<ul style="list-style-type: none"><li>• • • {Power distribution and management}</li></ul> <p><u>WARNING</u> Group B64G 1/428 is impacted by reclassification into group B64G 1/4282. Groups B64G 1/428 and B64G 1/4282 should be considered in order to perform a complete search.</p>

M	B64G 1/4282	<ul style="list-style-type: none"> <li>• • • {for transmitting power to earth or other spacecraft}</li> </ul> <p><u>WARNING</u> Group B64G 1/4282 is incomplete pending reclassification of documents from group B64G 1/428. Groups B64G 1/428 and B64G 1/4282 should be considered in order to perform a complete search.</p>
M	B64G 1/46	<ul style="list-style-type: none"> <li>• • Arrangements or adaptations of devices for control of environment or living conditions</li> </ul> <p><u>WARNING</u> Group B64G 1/46 is impacted by reclassification into group B64G 1/465. Groups B64G 1/46 and B64G 1/465 should be considered in order to perform a complete search.</p>
M	B64G 1/465	<ul style="list-style-type: none"> <li>• • • {for controlling gravity}</li> </ul> <p><u>WARNING</u> Group B64G 1/465 is incomplete pending reclassification of documents from groups B64G 1/46 and B64G 1/60. Groups B64G 1/46, B64G 1/465 and B64G 1/60 should be considered in order to perform a complete search.</p>
M	B64G 1/60	<ul style="list-style-type: none"> <li>• • Crew or passenger accommodations</li> </ul> <p><u>WARNING</u> Group B64G 1/60 is impacted by reclassification into group B64G 1/465. Groups B64G 1/465 and B64G 1/60 should be considered in order to perform a complete search.</p>
M	B64G 1/62	<ul style="list-style-type: none"> <li>• • Systems for re-entry into the earth's atmosphere; Retarding or landing devices</li> </ul> <p><u>WARNING</u> Group B64G 1/62 is impacted by reclassification into groups B64G 1/623 and B64G 1/625. Groups B64G 1/62, B64G 1/623 and B64G 1/625 should be considered in order to perform a complete search.</p>
M	B64G 1/623	<ul style="list-style-type: none"> <li>• • • {Retarding devices, e.g. retrorockets}</li> </ul> <p><u>WARNING</u> Group B64G 1/623 is incomplete pending reclassification of documents from group B64G 1/62. Groups B64G 1/62 and B64G 1/623 should be considered in order to perform a complete search.</p>
M	B64G 1/625	<ul style="list-style-type: none"> <li>• • • {Landing devices; Undercarriages}</li> </ul> <p><u>WARNING</u> Group B64G 1/625 is incomplete pending reclassification of documents from group B64G 1/62. Groups B64G 1/62 and B64G 1/625 should be considered in order to perform a complete search.</p>
U	B64G 1/64	<ul style="list-style-type: none"> <li>• • Systems for coupling or separating cosmonautic vehicles or parts thereof, e.g. docking arrangements</li> </ul>

M	B64G 1/641	<ul style="list-style-type: none"> <li>• • • {Interstage or payload connectors (docking systems <a href="#">B64G 1/646</a>)}</li> </ul> <p><u>WARNING</u> Group B64G 1/641 is impacted by reclassification into groups B64G 1/642, B64G 1/6425 and B64G 1/643. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B64G 1/642	<ul style="list-style-type: none"> <li>• • • {Clamps, e.g. Marman clamps}</li> </ul> <p><u>WARNING</u> Group B64G 1/642 is incomplete pending reclassification of documents from group B64G 1/641. Groups B64G 1/641 and B64G 1/642 should be considered in order to perform a complete search.</p>
M	B64G 1/6425	<ul style="list-style-type: none"> <li>• • • {arrangements for damping vibrations}</li> </ul> <p><u>WARNING</u> Group B64G 1/6425 is incomplete pending reclassification of documents from group B64G 1/641. Groups B64G 1/641 and B64G 1/6425 should be considered in order to perform a complete search.</p>
M	B64G 1/643	<ul style="list-style-type: none"> <li>• • • {for arranging multiple satellites in a single launcher}</li> </ul> <p><u>WARNING</u> Group B64G 1/643 is incomplete pending reclassification of documents from group B64G 1/641. Group B64G 1/643 is also impacted by reclassification into group B64G 1/644. Groups B64G 1/641, B64G 1/643 and B64G 1/644 should be considered in order to perform a complete search.</p>
M	B64G 1/644	<ul style="list-style-type: none"> <li>• • • • {arranged for independent deployment}</li> </ul> <p><u>WARNING</u> Group B64G 1/644 is incomplete pending reclassification of documents from group B64G 1/643. Groups B64G 1/643 and B64G 1/644 should be considered in order to perform a complete search.</p>
M	B64G 1/645	<ul style="list-style-type: none"> <li>• • • {Separators}</li> </ul> <p><u>WARNING</u> Group B64G 1/645 is impacted by reclassification into groups B64G 1/6455, B64G 1/6457 and B64G 1/6459. All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	B64G 1/6455	<ul style="list-style-type: none"> <li>• • • • {Pyrotechnics; Using heat}</li> </ul> <p><u>WARNING</u> Group B64G 1/6455 is incomplete pending reclassification of documents from group B64G 1/645. Groups B64G 1/645 and B64G 1/6455 should be considered in order to perform a complete search.</p>
M	B64G 1/6457	<ul style="list-style-type: none"> <li>• • • • {Springs; Shape memory actuators}</li> </ul> <p><u>WARNING</u> Group B64G 1/6457 is incomplete pending reclassification of documents from group B64G 1/645.</p>

		<del>Groups B64G 1/645 and B64G 1/6457 should be considered in order to perform a complete search.</del>
M	B64G 1/6459	<ul style="list-style-type: none"> <li>• • • {Fluid-actuated}</li> </ul> <p><u>WARNING</u>  <del>Group B64G 1/6459 is incomplete pending reclassification of documents from group B64G 1/645.</del>  <del>Groups B64G 1/645 and B64G 1/6459 should be considered in order to perform a complete search.</del></p>
M	B64G 1/646	<ul style="list-style-type: none"> <li>• • • {Docking or rendezvous systems (refuelling in space <a href="#">B64G 1/4024</a>)}</li> </ul> <p><u>WARNING</u>  <del>Group B64G 1/646 is impacted by reclassification into groups B64G 1/6462 and B64G 1/6464.</del>  <del>Groups B64G 1/646, B64G 1/6462 and B64G 1/6464 should be considered in order to perform a complete search.</del></p>
M	B64G 1/6462	<ul style="list-style-type: none"> <li>• • • • {characterised by the means for engaging other vehicles}</li> </ul> <p><u>WARNING</u>  <del>Groups B64G 1/6462 and B64G 1/6464 are incomplete pending reclassification of documents from group B64G 1/646.</del>  <del>Groups B64G 1/646, B64G 1/6462 and B64G 1/6464 should be considered in order to perform a complete search.</del></p>

## Project: MP12714 (C10L)

M	C10L	<p><b>FUELS NOT OTHERWISE PROVIDED FOR</b> <del>(fuels for generating pressure gas, e.g. for rockets C06D 5/00; candles C11C; nuclear fuel G21C 3/00);</del>  <b>NATURAL GAS; SYNTHETIC NATURAL GAS OBTAINED BY PROCESSES NOT COVERED BY SUBCLASSES <a href="#">C10G</a>, OR <a href="#">C10K</a>; LIQUEFIED</b> <b>LIQUIFIED</b>  <b>PETROLEUM GAS; <del>ADDING MATERIALS</del> <b>USE OF ADDITIVES</b> TO FUELS OR FIRES <del>TO REDUCE SMOKE OR UNDESIRABLE DEPOSITS OR TO FACILITATE SOOT REMOVAL</del>; <del>FIRELIGHTERS</del> <b>FIRE-LIGHTERS</b></b></p> <p><u>NOTE</u>          {In subclass <a href="#">C10L</a> it is desirable to give indexing codes for information about components of solid, liquid and gaseous fuels or firelighters, their additives and constituents and their preparation and use. The indexing codes are taken from <a href="#">C10L 2200/00</a> - <a href="#">C10L 2290/60</a>.}</p> <p><u>WARNING</u>          In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.</p>
M	C10L 5/00	<p><b>Solid fuels (produced by solidifying fluid fuels <a href="#">C10L 7/00</a>; <b>peat briquettes</b> <b><a href="#">C10F 7/06</a></b>)</b></p>
U	C10L 5/02	<ul style="list-style-type: none"> <li>• {Solid fuels such as} briquettes consisting mainly of carbonaceous materials of mineral {or non-mineral} origin (peat briquettes <a href="#">C10F</a>)</li> </ul>
U	C10L 5/06	<ul style="list-style-type: none"> <li>• • Methods of {shaping, e.g. pelletizing or} briquetting (mechanical part of pressing briquettes <a href="#">B30B 11/00</a>)</li> </ul>
M	C10L 5/08	<ul style="list-style-type: none"> <li>• • • without the aid of extraneous binders <del>(briquetting peat C10F)</del></li> </ul>
M	C10L 11/00	<p><b><del>Manufacture of firelighters</del> <b>Fire-lighters</b></b></p>

**Project: MP12775 (D06J)**

- M D06J** PLEATING, KILTING OR GOFFERING TEXTILE FABRICS OR WEARING APPAREL (~~{corrugating, creasing, or otherwise deforming paper, or material worked in a manner analogous to paper, without removing material B31F;}~~ by sewing [D05B](#))

WARNING

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

**Project: RP10484-F (E21C)**

- U E21C 35/00** Details of, or accessories for, machines for slitting or completely freeing the mineral from the seam, not provided for in groups [E21C 25/00](#) - [E21C 33/00](#), [E21C 37/00](#) or [E21C 39/00](#)

- M E21C 35/08** • Guiding the machine

WARNING

Group E21C 35/08 is impacted by reclassification into groups E21C 35/302 and E21C 35/282.

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

- M E21C 35/10** • • by feelers contacting the working face

WARNING

Group E21C 35/10 is impacted by reclassification into groups E21C 35/282 and E21C 35/302.

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

- M E21C 35/12** • • along a conveyor for the cut material

WARNING

Group E21C 35/12 is impacted by reclassification into groups E21C 35/282 and E21C 35/302.

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

- M E21C 35/125** • • • {Means for inclining the conveyor}

WARNING

Group E21C 35/125 is impacted by reclassification into groups E21C 35/282 and E21C 35/302.

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

- M E21C 35/14** • • • Equipment for pressing the conveyor towards the working face

WARNING

Group E21C 35/14 is impacted by reclassification into groups E21C 35/282 and E21C 35/302.

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

- M E21C 35/16** • • by making use of the timbering, filling, or other supports

WARNING

Group E21C 35/16 is impacted by reclassification into groups E21C 35/282 and E21C 35/302.



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

- M E21C 35/24
- Remote control specially adapted for machines for slitting or completely freeing the mineral (control in general [G05](#))

**WARNING**

~~Group E21C 35/24 is impacted by reclassification into groups E21C 35/282 and E21C 35/302.~~

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

- M E21C 35/282
- {Autonomous machines; Autonomous operations}

**WARNING**

~~Group E21C 35/282 is incomplete pending reclassification of documents from groups E21C 35/08, E21C 35/10, E21C 35/12, E21C 35/125, E21C 35/14, E21C 35/16 and E21C 35/24.~~

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

- M E21C 35/302
- {Measuring, signaling or indicating specially adapted for machines for slitting or completely freeing the mineral (measuring or indicating on tunneling machines [E21D 9/003](#))}

**WARNING**

~~Group E21C 35/302 is incomplete pending reclassification of documents from groups E21C 35/08, E21C 35/10, E21C 35/12, E21C 35/125, E21C 35/14, E21C 35/16 and E21C 35/24.~~

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

## Project: RP12311 (F01N)

**M F01N** GAS-FLOW SILENCERS OR EXHAUST APPARATUS FOR MACHINES OR ENGINES IN GENERAL; GAS-FLOW SILENCERS OR EXHAUST APPARATUS FOR INTERNAL-COMBUSTION ENGINES (~~{evacuation of fumes from the area where they are produced B08B 15/00; arrangement of exhaust or silencing apparatus on percussive tools B25D 17/12};~~ arrangements in connection with gas exhaust of propulsion units in vehicles [B60K 13/00](#); ~~{on ships or other waterborne vessels B63H 21/32; on aircraft B64D 33/04; arrangement of exhaust or silencing apparatus on firearms F41A 21/30; ground installations for reducing aircraft engine or jet noise B64F 1/26; silencers specially adapted for steam engines F01B 31/16; air-intake silencers for gas turbine or jet propulsion plants F02C 7/045; jet pipe or nozzles for jet propulsion plants F02K};~~ combustion-air intake silencers specially adapted for, or arranged on, internal-combustion engines [F02M 35/00](#); ~~{combating noise or silencing in positive displacement machines or pumps F04B 39/0027, in rotary-piston machines or pumps F04C 29/06, in non-positive displacement pumps F04D 29/66; means in valves for absorbing noise F16K 47/02; noise absorbers in pipe system F16L 55/02; conducting smoke or fumes from various locations to the outside F23J 11/00; means for preventing or suppressing noise in air-conditioning or ventilation systems F24F 13/24};~~ protecting against, or damping, noise in general [G10K 11/16](#))

NOTE

Attention is drawn to the notes preceding Class [F01](#), especially as regards Note [2\(b\)](#)3.

WARNING

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

**M F01N 1/00** Silencing apparatus characterised by method of silencing ~~{(by cooling F01N 3/02; using liquids F01N 3/04)}~~

NOTE

*{In this main group, it is desirable to add the indexing codes of F01N 2210/00, F01N 2230/00, F01N 2290/00, F01N 2310/00, F01N 2450/06, F01N 2470/00, F01N 2490/00 and F01N 2590/00.}*

- M F01N 1/003
  - {by using dead chambers communicating with *exhaust* gas flow passages ~~{(resonance chambers F01N 1/02; chambers containing sound-absorbing materials F01N 1/24)}~~}
- U F01N 1/08
  - by reducing exhaust energy by throttling or whirling
- M F01N 1/081
  - • {by passing the *exhaust* gases through a mass of particles}
- M F01N 1/082
  - • {~~the gases passing~~ *by passing the exhaust gases* through porous members ~~{(F01N 1/081 takes precedence)}~~}
- M F01N 1/083
  - • {using transversal baffles defining a tortuous path for the *exhaust* gases or successively throttling *exhaust* gas flow}
- M F01N 1/084
  - • {the *exhaust* gases flowing through the silencer two or more times longitudinally in opposite directions, e.g. using parallel or concentric tubes}
- M F01N 1/085
  - • {*throttling exhaust gas flow* using a central core ~~throttling gas~~ *in a flow* passage}
- M F01N 1/086
  - • {having means to impart *a* whirling motion to the *exhaust* gases (with helically or spirally shaped channels [F01N 1/12](#))}
- M F01N 1/088
  - • • {using vanes arranged on *gas* ~~the~~ *flow* path or ~~gas~~ *flow* tubes with tangentially directed apertures}

- U F01N 1/16      · by using movable parts
- M F01N 1/166    · · {for changing ~~gas~~*the* flow path through the silencer or for adjusting the dimensions of a chamber or a pipe ([F01N 1/165](#) takes precedence)}
- M F01N 3/00      Exhaust or silencing apparatus having means for purifying, rendering innocuous, or otherwise treating exhaust (electric control [F01N 9/00](#); monitoring or diagnostic devices for exhaust-gas treatment apparatus [F01N 11/00](#) ~~{; collecting or removing exhaust gases of vehicle engines in workshops B08B 15/00, on highways E01C 1/005}~~)**
- U F01N 3/02      · for cooling, or for removing solid constituents of, exhaust (by means of electric or electrostatic separators [F01N 3/01](#) {; mixing air with exhaust in tailpipes [F01N 13/082](#), [F01N 13/20](#)})
- U F01N 3/021     · · by means of filters
- M F01N 3/022     · · · characterised by specially adapted filtering structure, e.g. honeycomb, mesh or fibrous
- NOTE  
{In this subgroup, it is desirable to add the indexing codes of [F01N 2330/00](#).}
- M F01N 3/0222    · · · {the structure being monolithic, e.g. honeycombs}
- NOTE  
{In this subgroup, it is desirable to add the indexing codes of [F01N 2330/30](#).}
- M F01N 3/023     · · · using means for regenerating the filters, e.g. by burning trapped particles (~~by electrically controlling the supply of combustible mixture or its constituents only F02D 41/0235~~)
- M F01N 3/031     · · · having means for by-passing filters, e.g. when clogged or during cold engine start
- NOTE  
{In this subgroup, it is desirable to add the indexing codes of [F01N 2410/00](#).}
- U F01N 3/033     · · · in combination with other devices {(with adsorbents or absorbents [F01N 3/0821](#))}
- M F01N 3/035     · · · · with catalytic reactors ~~{; e.g. catalysed diesel particulate filters}~~
- NOTE  
{In this subgroup, it is desirable to add the indexing codes of [F01N 2510/06](#).}
- M F01N 3/038     · · by means of perforated plates defining expansion chambers associated with condensation and collection chambers, ~~e.g. for adiabatic expansion of gases and subsequent collection of condensed liquids~~
- M F01N 3/05      · · by means of air, e.g. by mixing exhaust with air (silencers working by addition of air to exhaust [F01N 1/14](#); arrangements for the supply of additional air for the thermal or catalytic conversion of noxious components of exhaust [F01N 3/30](#) ~~{; in tailpipes F01N 13/082}~~)
- U F01N 3/08      · for rendering innocuous (using electric or electrostatic separators [F01N 3/01](#); chemical aspects [B01D 53/92](#))
- U F01N 3/0807    · · {by using absorbents or adsorbents}
- M F01N 3/0821    · · · {combined with particulate ~~filters~~*filter*}~~(catalysed diesel particulate filters F01N 3/035)}~~

- M F01N 3/0871
  - • • {~~Regulation of absorbents or adsorbents~~ *using means for controlling*, e.g. purging, *the absorbents or adsorbents*} ~~(by electrically controlling the supply of combustible mixture or its constituents only F02D 41/0235)}~~
- M F01N 3/0878
  - • • • {Bypassing absorbents or adsorbents}

NOTE  
*{In this subgroup, it is desirable to add the indexing codes of F01N 2410/00.}*
- M F01N 3/0892
  - • {Electric or magnetic treatment, e.g. dissociation of noxious components ~~(electric filters F01N 3/01; regeneration of exhaust filters F01N 3/023; heating catalytic converters F01N 3/2006)}~~}
- M F01N 3/10
  - • by thermal or catalytic conversion of noxious components of exhaust ~~(by using other chemical processes, chemical aspects of catalytic conversion, e.g. using specified catalysts, B01D 53/34)~~
- U F01N 3/18
  - • • characterised by methods of operation; Control
- M F01N 3/20
  - • • • specially adapted for catalytic conversion ([F01N 3/22](#) takes precedence) ~~}; *Methods of operation or control of catalytic converters*~~}
- M F01N 3/2053
  - • • • • {By-passing catalytic reactors, e.g. to prevent overheating}

NOTE  
*{In this subgroup, it is desirable to add the indexing codes of F01N 2410/00.}*
- M F01N 3/206
  - • • • • {Adding periodically or continuously substances to exhaust gases for promoting purification, e.g. catalytic material in liquid form, NOx reducing agents ~~(F01N 3/2066 takes precedence)~~}
- M F01N 3/2066
  - • • • • • {Selective catalytic reduction [SCR]}

NOTE  
*{In this subgroup, it is desirable to add the indexing codes of F01N 2610/00.}*
- M F01N 3/2073
  - • • • • • • {~~with means~~ *Means* for generating a reducing substance from the exhaust gases}
- M F01N 3/208
  - • • • • • {Control of selective catalytic reduction [SCR], e.g. *by adjusting the dosing of reducing agent*}
- U F01N 3/24
  - • • characterised by constructional aspects of converting apparatus (filtering in combination with catalytic reactors [F01N 3/035](#))
- U F01N 3/28
  - • • • Construction of catalytic reactors
- M F01N 3/2839
  - • • • • {Arrangements for mounting catalyst support in housing, e.g. with means for compensating thermal expansion or vibration}

NOTE  
*{In this subgroup, it is desirable to add the indexing codes of F01N 2350/02.}*
- M F01N 3/36
  - • • • Arrangements for supply of additional fuel

NOTE  
*{In this subgroup, it is desirable to add the indexing codes of F01N 2610/14.}*

M	F01N 9/00	Electrical control of exhaust gas treating apparatus (monitoring or diagnostic devices for exhaust-gas treatment apparatus <a href="#">F01N 11/00</a> ; conjoint electrical control of two or more combustion engine functions <a href="#">F02D 43/00</a> )
		<i>NOTE</i> {In this subgroup, it is desirable to add the indexing codes of <a href="#">F01N 2900/00</a> .}
M	F01N 9/002	• {of filter regeneration, <del>e.g. detection of clogging</del> }
M	F01N 11/00	Monitoring or diagnostic devices for exhaust-gas treatment apparatus <del>{, e.g. for catalytic activity (safety, indicating or supervising devices for internal combustion engines F02B 77/08; testing of machines G01M 13/00)}</del>
		<i>NOTE</i> {In this subgroup, it is desirable to add the indexing codes of <a href="#">F01N 2550/00</a> and <a href="#">F01N 2900/00</a> .}
M	F01N 13/00	Exhaust or silencing apparatus characterised by constructional features <del>{, Exhaust or silencing apparatus, or parts thereof, having pertinent characteristics not provided for in, or of interest apart from, groups F01N 1/00 - F01N 5/00, F01N 9/00, F01N 11/00}</del>
M	F01N 13/001	• { <del>Gas</del> <i>Exhaust gas</i> flow channels or <del>gas</del> chambers being at least partly formed in the structural parts of the engine or machine (using structural parts of the vehicle <a href="#">B60K 13/06</a> )}
M	F01N 13/007	• {Apparatus used as intake or exhaust silencer <del>{silencing methods F01N 1/00; intake silencers F02M 35/12}</del> }
U	F01N 13/08	• Other arrangements or adaptations of exhaust conduits {(pipes, joints or supports therefor in general <a href="#">F16L</a> ; collecting or removing exhaust gases of vehicle engines in workshops <a href="#">B08B 15/00</a> , on highways <a href="#">E01C 1/005</a> )}
M	F01N 13/087	• • {having valves upstream of silencing apparatus for by-passing at least part of exhaust directly to atmosphere (valves for changing <del>gas</del> flow path through the silencer <a href="#">F01N 1/166</a> )}
U	F01N 13/14	• having thermal insulation {(exhaust manifolds <a href="#">F01N 13/102</a> )}
U	F01N 13/141	• • {Double-walled exhaust pipes or housings}
M	F01N 13/145	• • • {with <del>a</del> <i>gas</i> other than air filling the space between both walls}
N	<b>F01N 2210/00 - F01N 2900/00</b>	<b><i>Indexing scheme related to gas-flow silencers or exhaust apparatus</i></b>
M	F01N 2340/00	Dimensional characteristics of the exhaust system, e.g. length, diameter or volume of the <i>exhaust</i> apparatus; Spatial arrangements of exhaust apparatuses
M	F01N 2340/02	• <del>characterised by the distance of the</del> <i>Distance of the exhaust</i> apparatus to the engine, <del>or the distance or</del> between two exhaust <del>treating</del> apparatuses
M	F01N 2340/04	• <del>characterised by the arrangement of an exhaust pipe, manifold or apparatus in relation to vehicle frame or particular vehicle parts</del> <i>Arrangement of the exhaust system relative to a vehicle or parts thereof</i>
M	F01N 2340/06	• <del>characterised by the arrangement</del> <i>Arrangement</i> of the exhaust apparatus relative to the turbine of a turbocharger
N	F01N 2340/08	• Series-connected exhaust apparatuses mounted in a side-by-side spatial arrangement, e.g. U- or S-shaped
M	F01N 2470/00	Structure or shape of <i>exhaust</i> gas passages, pipes or tubes
M	F01N 2470/08	• <del>Gas</del> <i>Exhaust gas</i> passages being formed between the walls of an outer shell and an inner chamber

**Project: RP11745 (F16L)****F16L****PIPES; JOINTS OR FITTINGS FOR PIPES; SUPPORTS FOR PIPES, CABLES OR PROTECTIVE TUBING; MEANS FOR THERMAL INSULATION IN GENERAL****NOTES**

1. In this subclass, the following terms are used with the meanings indicated:
  - "pipe" means a conduit of closed cross-section, which is specially adapted to convey fluids, materials or objects;
  - "hose" means a pipe, as defined above, which has flexibility as an essential characteristic.

2. Attention is drawn to the following places:

<a href="#">A61M 39/00</a>	Tube connectors, tube couplings or branch units, specially adapted for medical use
<a href="#">B05B 1/20</a>	Perforated pipes <i>{or troughs, e.g. spray booms; Outlet elements therefor}</i>
<a href="#">{B60T 17/04}</a>	{Arrangement of piping or air hoses in brake systems}
<a href="#">B63B 35/03</a>	Pipe-laying vessels
<a href="#">B64D 39/04</a>	Adaptation of hose constructions for refuelling aircraft during flight
<a href="#">{B65G 51/00}</a>	{Conveying articles through pipes or tubes by fluid flow or pressure}
<a href="#">{B65G 53/00}</a>	{Conveying materials in bulk through pipes or tubes}
<a href="#">B67D 7/38</a>	Arrangements of hoses in apparatus for transferring liquids, e.g. fuel, from bulk to vehicles or portable containers
<a href="#">E01D 19/10</a>	Fastening of pipes or cables to bridges
<a href="#">E03B</a>	Water supply installations
<a href="#">E03D 11/17</a>	Means for connecting water-closet bowls to the flushing pipe
<a href="#">E03D 11/18</a>	Siphons for water-closets
<a href="#">E03F 3/04</a>	Pipes or fittings specially adapted to sewers
<a href="#">E04D 13/08</a>	Down pipes for roof drainage; Clamping means therefor
<a href="#">E04F 17/00</a>	Vertical ducts, channels in buildings, e.g. chimneys
<a href="#">E21F 1/04</a>	Air ducts for ventilation of mines or tunnels; Connections therefor
<a href="#">E21F 17/02</a>	Suspension devices for tubes or the like in mines or tunnels
<a href="#">F01N</a>	Gas flow silencers or exhaust apparatus for machines or engines
<a href="#">{F16B 7/00}</a>	{Connections of rods or tubes}
<a href="#">F16N 21/00</a>	Conduits, junctions for lubrication systems
<a href="#">F17C 3/02</a>	Thermal insulation of vessels not under pressure for storing liquefied or solidified gases, e.g. Dewar flask
<a href="#">{F17D}</a>	{Pipe-line systems, pipe-lines}
<a href="#">F22B 37/10</a>	Water tubes of steam boilers
<a href="#">F23J 13/04</a>	Joints, connections for chimneys or flues
<a href="#">F24H 9/12</a>	Connecting circulation pipes to heaters
<a href="#">F28F 9/04</a>	Arrangements for sealing elements into header boxes or end plates of heat-exchangers
<a href="#">G21C 15/22</a>	Structural association of coolant tubes with headers or other pipes in nuclear reactors
<a href="#">H02G 3/04</a>	Protective tubing or conduits for electric cables



[H02G 3/26](#)

Installations of electric cables or lines, or protective tubing on or in walls, ceilings or floors.

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:

<a href="#">F16L 19/03</a>	covered by	<a href="#">F16L 19/0212</a>
<a href="#">F16L 59/05</a>	covered by	<a href="#">F16L 59/021</a>
<a href="#">F16L 101/14</a>	covered by	<a href="#">F16L 2101/10</a>

**Project: Unknown (F17C)**

- U F17C 2221/00**      **Handled fluid, in particular type of fluid**
- U F17C 2221/01      • Pure fluids
- M F17C 2221/013    • ~~Carbone~~[Carbon](#) dioxide

**Project: RP12316 (F21S)**

- U F21S 6/00**      **Lighting devices intended to be free-standing ([F21S 9/00](#), [F21S 10/00](#), {[F21S 13/12](#)} take precedence {lighting devices specially adapted to be transported from place to place, e.g. lighting devices carried on wheeled supports [F21L](#); details of supports for lighting devices [F21V 21/00](#)})**
- M F21S 6/001      • {~~being~~ candle-shaped ~~(with varying lighting effect of simulating flames [F21S 10/04](#); string of light sources [F21S 4/00](#))~~}
- D F21S 2017/00**    **~~Details solely applicable to the devices covered by groups [F21S 13/00](#) and [F21S 15/00](#)~~**  
                                  <administratively transferred to [F21S 2217/00](#) ADD>
- D F21S 2017/02    • Fastening and lifting of the lamp glass  
                                  <administratively transferred to [F21S 2217/02](#) ADD>
- U F21S 41/00**      **Illuminating devices specially adapted for vehicle exteriors, e.g. headlamps (reversing lights [F21S 43/00](#))**
- U F21S 41/30      • characterised by reflectors
- U F21S 41/39      • • Attachment thereof (achieving variable light distribution by movable reflectors [F21S 41/675](#))
- D F21S 41/395      • • • {specially adapted to extension reflectors}  
                                  <administratively transferred to [F21S 41/55](#)>
- U F21S 45/00**      **Arrangements within vehicle lighting devices specially adapted for vehicle exteriors, for purposes other than emission or distribution of light**
- U F21S 45/70      • Prevention of harmful light leakage
- N F21S 2217/00 - F21S 2217/00**    **Indexing codes associated with groups [F21S 13/00](#) or [F21S 15/00](#) relating to details**
- N F21S 2217/00**      **Details**
- N F21S 2217/02    • Fastening or lifting of lamp glass

**Project: RP11807-F (F21Y)**

- M F21Y 2113/00**      **Combination of light sources**

WARNING

Group F21Y-2113/00 is impacted by reclassification into group F21Y-2113/30.

Groups F21Y 2113/00 and F21Y 2113/30 should be considered in order to perform a complete search.

M F21Y 2113/10

- of different colours

**WARNING**

Group F21Y 2113/10 is impacted by reclassification into group F21Y 2113/30. Groups F21Y 2113/10 and F21Y 2113/30 should be considered in order to perform a complete search.

M F21Y 2113/13

- comprising an assembly of point-like light sources

**WARNING**

Group F21Y 2113/13 is impacted by reclassification into group F21Y 2113/30. Groups F21Y 2113/13 and F21Y 2113/30 should be considered in order to perform a complete search.

M F21Y 2113/17

- forming a single encapsulated light source

**WARNING**

Group F21Y 2113/17 is impacted by reclassification into group F21Y 2113/30. Groups F21Y 2113/17 and F21Y 2113/30 should be considered in order to perform a complete search.

M F21Y 2113/20

- of different form

**WARNING**

Group F21Y 2113/20 is impacted by reclassification into group F21Y 2113/30. Groups F21Y 2113/20 and F21Y 2113/30 should be considered in order to perform a complete search.

M F21Y 2113/30

- {of visible and non-visible spectrum}

**WARNING**

Group F21Y 2113/30 is incomplete pending reclassification of documents from groups F21Y 2113/00, F21Y 2113/10, F21Y 2113/13, F21Y 2113/17 and F21Y 2113/20. All groups listed in this Warning should be considered in order to perform a complete search.

Project: RP12295 (F23D)

M F23D

**BURNERS**

**WARNING**

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

**NOTE**

{In this subclass, it is desirable to use the indexing codes of F23D 2200/00 – F23D 2900/00.}

M F23D 1/00

Burners for combustion of pulverulent fuel ~~(disposition of burners F23C)~~

M F23D 3/00 -  
~~F23D 14/00~~  
~~F23D 11/00~~

Combustion of a liquid

U F23D 11/00

Burners using a direct spraying action of liquid droplets or vaporised liquid into the combustion space

M	F23D 11/001	• { <del>spraying</del> <i>Spraying</i> nozzle combined with forced draft fan in one unit ( <del>nozzles per se F23D 11/38</del> )}
M	F23D 11/002	• { <del>spraying</del> <i>Spraying</i> nozzle arranged within furnace openings ( <del>refractory bricks or blocks specially shaped for burner openings F23M 5/025</del> )}
U	F23D 11/10	• the spraying being induced by a gaseous medium, e.g. water vapour
M	F23D 11/22	• • the gaseous medium being vaporised fuel, e.g. for a soldering lamp { <del>, or other gaseous fuel</del> }
M	F23D 11/34	• by ultrasonic means { <del>or other kinds of vibrations</del> }
M	F23D 11/36	• Details { <del>, e.g. burner cooling means, noise reduction means</del> }
M	F23D 11/40	• • Mixing tubes { <del>or chambers</del> }; Burner heads
U	<b>F23D 14/00</b>	<b>Burners for combustion of a gas, e.g. of a gas stored under pressure as a liquid</b>
M	F23D 14/46	• Details { <del>, e.g. noise reduction means</del> }
U	F23D 14/48	• • Nozzles
M	F23D 14/56	• • • for spreading the flame over an area, e.g. for desurfacing of solid material, for surface hardening; or for heating workpieces
M	<b>F23D 17/00</b> <b>- F23D 99/00</b> <b>F23D 23/00</b>	<b><u>Other burners</u></b>
M	<b>F23D 17/00</b>	<b>Burners for combustion <i>conjointly or alternatively simultaneously or alternately</i> of gaseous or liquid or pulverulent fuel</b>
D	<b>F23D 91/00</b>	<b>{Burners specially adapted for specific applications, not otherwise provided for}</b> <b>&lt;administratively transferred to <a href="#">F23D 99/002</a>&gt;</b>
D	F23D 91/02	• {for use in particular heating operations} <b>&lt;administratively transferred to <a href="#">F23D 99/004</a>&gt;</b>
D	F23D 91/04	• • {for heating liquids, e.g. for vaporising or concentrating} <b>&lt;administratively transferred to <a href="#">F23D 99/005</a>&gt;</b>
U	<b>F23D 99/00</b>	<b>Subject matter not provided for in other groups of this subclass</b>
N	F23D 99/002	• {Burners specially adapted for specific applications}
N	F23D 99/004	• • {for use in particular heating operations}
N	F23D 99/005	• • • {for heating liquids, e.g. for vaporising or concentrating}
N	<b>F23D 2200/00 - F23D 2900/00</b>	<b><u>Indexing codes associated with burners</u></b>
U	<b>F23D 2206/00</b>	<b>Burners for specific applications</b>
D	F23D 2206/10	• Turbines
U	<b>F23D 2900/00</b>	<b>Special features of, or arrangements for burners using fluid fuels or solid fuels suspended in a carrier gas</b>
M	F23D 2900/00006	• Liquid fuel burners using pure oxygen or $\Theta_2$ <i>oxygen</i> -enriched air as oxidant
U	F23D 2900/21	• Burners specially adapted for a particular use
M	F23D 2900/21005	• • for flame deposition, e.g. <del>FHD</del> , flame hydrolysis deposition [ <i>FHD</i> ]
M	F23D 2900/31003	• <i>Inverted wick burners</i> ; <del>Inverted wick burners</del> ; Wick burners using preheated air
M	F23D 2900/31014	• Wick stop devices <del>and wick fixing devices</del> ; <i>Wick fixing devices</i>
M	F23D 2900/31019	• Mixing tubes <del>and</del> <i>combined with</i> burner heads

**Project: RP12411 (F24D)**

- U** F24D 3/00 Hot-water central heating systems (district heating systems [F24D 10/00](#); central heating systems using heat accumulated in storage masses [F24D 11/00](#))
- M** F24D 3/02 • with forced circulation, e.g. by pumps ~~(pump constructions F04)~~
- N** *F24D 2200/00 - F24D 2200/00* **Heat sources; Energy sources**

**Project: RP12411 (F24F)**

- N** *F24F 2203/00 - F24F 2203/00* **Treatment of air**

**Project: RP12411 (F24H)**

- U** F24H 1/00 Water heaters, e.g. boilers, continuous-flow heaters or water-storage heaters (steam boilers [F22B](#))
- U** F24H 1/22 • Water heaters other than continuous-flow or water-storage heaters, e.g. water heaters for central heating
- M** F24H 1/44 • • with combinations of two or more of the types covered by groups [F24H 1/24](#) - [F24H 1/40](#) ~~{, e.g. boilers having a combination of features covered by F24H 1/24 - F24H 1/40}~~
- U** F24H 9/00 **Details**
- M** F24H 9/06 • Arrangement of mountings or supports ~~{for heaters, e.g. boilers, other than space heating radiators (space heating radiators F24D 19/02)}~~
- U** F24H 9/18 • Arrangement or mounting of grates or heating means
- U** F24H 9/1809 • • for water heaters
- U** F24H 9/1818 • • • Arrangement or mounting of electric heating means
- U** F24H 9/1827 • • • {Positive temperature coefficient [PTC] resistor}
- U** F24H 9/1854 • • for air heaters
- U** F24H 9/1863 • • • Arrangement or mounting of electric heating means
- M** F24H 9/1872 • • • {PTC *resistor*}
- D** F24H 2203/00 **\*\* to be deleted \*\***
- N** *F24H 2210/00 - F24H 2250/00* **Indexing codes related to fluid heaters having heat-generating means**
- U** F24H 2250/00 **Electrical heat generating means**
- M** F24H 2250/04 • Positive ~~or negative temperature coefficients, e.g. PTC, NTC~~ *temperature coefficients [PTC]; Negative temperature coefficients [NTC]*

**Project: RP12411 (F24S)**

**N** F24S 2201/00 - Prediction; Simulation  
F24S 2201/00

**Project: RP12411 (F24T)**

**N** F24T 2201/00 - Prediction; Simulation  
F24T 2201/00

**Project: MP12705 (G06)**

**M** G06 **COMPUTING OR CALCULATING; ~~CALCULATING OR~~ COUNTING**

NOTES1. 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 subclass [G06C](#);
- "ICT [information and communication technology]" also covers "IT [information technology]";
- "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.

4. Attention is drawn to the Notes following the title of section [G](#), especially as regards the definition of the term "variable".

**Project: RP0396-F (G06F)**

- 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
- M G06F 3/06**
  - Digital input from, or digital output to, record carriers {, e.g. RAID, emulated record carriers or networked record carriers}

**WARNING**  
Groups G06F 3/06, G06F 3/0601, G06F 3/0602, G06F 3/0604, G06F 3/0605, G06F 3/0607, G06F 3/0608, G06F 3/061, G06F 3/0611, G06F 3/0613, G06F 3/0614, G06F 3/0616, G06F 3/0617, G06F 3/0619, G06F 3/062, G06F 3/0622, G06F 3/0623, G06F 3/0625, G06F 3/0626, G06F 3/0628, G06F 3/0629, G06F 3/0631, G06F 3/0632, G06F 3/0634, G06F 3/0635, G06F 3/0637, G06F 3/0638, G06F 3/064, G06F 3/0641, G06F 3/0643, G06F 3/0644, G06F 3/0646, G06F 3/0647, G06F 3/0649, G06F 3/065, G06F 3/0652, G06F 3/0653, G06F 3/0655, G06F 3/0656, G06F 3/0658, G06F 3/0659, G06F 3/0661, G06F 3/0662, G06F 3/0664, G06F 3/0665, G06F 3/0667, G06F 3/0668, G06F 3/067, G06F 3/0671, G06F 3/0673, G06F 3/0674, G06F 3/0676, G06F 3/0677, G06F 3/0679, G06F 3/068, G06F 3/0682, G06F 3/0683, G06F 3/0685, G06F 3/0686, G06F 3/0688, G06F 3/0689 and G06F 3/08 are incomplete pending reclassification of documents from group G06F 2003/0697.  
All groups listed in this Warning should be considered in order to perform a complete search.
- D G06F 2003/0697**

—(Frozen)

  - {device management, e.g. handlers, drivers, I/O schedulers}

**WARNING**  
Group G06F 2003/0697 is no longer used for the classification of documents as of May 1, 2021.  
The content of this group is being reclassified into groups G06F 3/06, G06F 3/0601, G06F 3/0602, G06F 3/0604, G06F 3/0605, G06F 3/0607, G06F 3/0608, G06F 3/061, G06F 3/0611, G06F 3/0613, G06F 3/0614, G06F 3/0616, G06F 3/0617, G06F 3/0619, G06F 3/062, G06F 3/0622, G06F 3/0623, G06F 3/0625, G06F 3/0626, G06F 3/0628, G06F 3/0629, G06F 3/0631, G06F 3/0632, G06F 3/0634, G06F 3/0635, G06F 3/0637, G06F 3/0638, G06F 3/064, G06F 3/0641, G06F 3/0643, G06F 3/0644, G06F 3/0646, G06F 3/0647, G06F 3/0649, G06F 3/065, G06F 3/0652, G06F 3/0653, G06F 3/0655, G06F 3/0656, G06F 3/0658, G06F 3/0659, G06F 3/0661, G06F 3/0662, G06F 3/0664, G06F 3/0665, G06F 3/0667, G06F 3/0668, G06F 3/067, G06F 3/0671, G06F 3/0673, G06F 3/0674, G06F 3/0676, G06F 3/0677, G06F 3/0679, G06F 3/068, G06F 3/0682, G06F 3/0683, G06F 3/0685, G06F 3/0686, G06F 3/0688, G06F 3/0689 and G06F 3/08.  
All groups listed in this Warning should be considered in order to perform a complete search.

**Project: RP11981 (G06F)**

- U G06F 21/00** Security arrangements for protecting computers, components thereof, programs or data against unauthorised activity
- U G06F 21/60**
  - Protecting data
- U G06F 21/62**
  - Protecting access to data via a platform, e.g. using keys or access control rules
- U G06F 21/6218**
  - {to a system of files or objects, e.g. local or distributed file system or database}

- U G06F 21/6245      • • • {Protecting personal data, e.g. for financial or medical purposes}
- M G06F 21/6254      • • • • {by anonymising data, e.g. decorrelating personal data from the owner's identification}

WARNING

*Group G06F 21/6254 is incomplete pending reclassification of documents from group G06Q 30/0615.  
Groups G06Q 30/0615 and G06F 21/6254 should be considered in order to perform a complete search.*

**Project: RP11980 (G06Q)****U G06Q 10/00      Administration; Management**

- C G06Q 10/02      • Reservations, e.g. for tickets, services or events

WARNING

*Group G06Q 10/02 is impacted by reclassification into groups G06Q 10/021, G06Q 10/022, G06Q 10/026, G06Q 10/027, G06Q 10/028, G06Q 10/0281, G06Q 10/0283, G06Q 10/0285 and G06Q 10/0287.  
All groups listed in this Warning should be considered in order to perform a complete search.*

- N G06Q 10/021      • {Re-booking existing reservations}  
WARNING  
*Group G06Q 10/021 is incomplete pending reclassification of documents from group G06Q 10/02.  
Groups G06Q 10/02 and G06Q 10/021 should be considered in order to perform a complete search.*
- N G06Q 10/022      • {Reservation systems with overbooking processing}  
WARNING  
*Group G06Q 10/022 is incomplete pending reclassification of documents from group G06Q 10/02.  
Groups G06Q 10/02 and G06Q 10/022 should be considered in order to perform a complete search.*
- U G06Q 10/025      • {Coordination of plural reservations, e.g. plural trip segments, transportation combined with accommodation}
- N G06Q 10/026      • {for sport or leisure activities, e.g. booking tennis courts, athletic fields or a bike at a class or gymnasium}  
WARNING  
*Group G06Q 10/026 is incomplete pending reclassification of documents from group G06Q 10/02.  
Groups G06Q 10/02 and G06Q 10/026 should be considered in order to perform a complete search.*
- N G06Q 10/027      • {Changing the assignment of an existing reservation}  
WARNING  
*Group G06Q 10/027 is incomplete pending reclassification of documents from group G06Q 10/02.  
Groups G06Q 10/02 and G06Q 10/027 should be considered in order to perform a complete search.*



- N G06Q 10/028      • • {for seating or spaces in a venue}
- WARNING  
Groups [G06Q 10/028](#), [G06Q 10/0281](#), [G06Q 10/0283](#), [G06Q 10/0285](#) and [G06Q 10/0287](#) are incomplete pending reclassification of documents from group [G06Q 10/02](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 10/0281      • • • {for arena or stadium seating}
- N G06Q 10/0283      • • • {for travel seating}
- N G06Q 10/0285      • • • {for lodging}
- N G06Q 10/0287      • • • {for portions of office space}
- U G06Q 10/04      • Forecasting or optimisation specially adapted for administrative or management purposes, e.g. linear programming or "cutting stock problem" (market predictions or forecasting for commercial activities [G06Q 30/0202](#))
- U G06Q 10/043      • • {Optimisation of two dimensional placement, e.g. cutting of clothes or wood}
- U G06Q 10/06      • Resources, workflows, human or project management; Enterprise or organisation planning; Enterprise or organisation modelling
- U G06Q 10/063      • • Operations research, analysis or management
- U G06Q 10/0631      • • • Resource planning, allocation, distributing or scheduling for enterprises or organisations
- U G06Q 10/06311      • • • • {Scheduling, planning or task assignment for a person or group}
- C G06Q 10/063116      • • • • • {Schedule adjustment for a person or group}
- WARNING  
Group [G06Q 10/063116](#) is impacted by reclassification into group [G06Q 10/063119](#).  
Groups [G06Q 10/063116](#) and [G06Q 10/063119](#) should be considered in order to perform a complete search.
- C G06Q 10/063118      • • • • • {Staff planning in a project environment}
- WARNING  
Group [G06Q 10/063118](#) is impacted by reclassification into group [G06Q 10/063119](#).  
Groups [G06Q 10/063118](#) and [G06Q 10/063119](#) should be considered in order to perform a complete search.
- N G06Q 10/063119      • • • • • {Staff planning or adjustment in a physical establishment based on arrival predictions or arrival tracking}
- WARNING  
Group [G06Q 10/063119](#) is incomplete pending reclassification of documents from groups [G06Q 10/063116](#) and [G06Q 10/063118](#).  
Groups [G06Q 10/063116](#), [G06Q 10/063118](#) and [G06Q 10/063119](#) should be considered in order to perform a complete search.
- C G06Q 10/06313      • • • • {Resource planning in a project environment}
- WARNING  
Group [G06Q 10/06313](#) is impacted by reclassification into group [G06Q 10/06317](#).  
Groups [G06Q 10/06313](#) and [G06Q 10/06317](#) should be considered in order to perform a complete search.
- U G06Q 10/06316      • • • • {Sequencing of tasks or work}

- N G06Q 10/06317 . . . {Resource planning based on arrival predictions or arrival tracking}
- WARNING  
Group [G06Q 10/06317](#) is incomplete pending reclassification of documents from group [G06Q 10/06313](#).  
Groups [G06Q 10/06313](#) and [G06Q 10/06317](#) should be considered in order to perform a complete search.
- C G06Q 10/0633 . . . Workflow analysis
- WARNING  
Group [G06Q 10/0633](#) is impacted by reclassification into groups [G06Q 10/06332](#) and [G06Q 10/06334](#).  
Groups [G06Q 10/0633](#), [G06Q 10/06332](#) and [G06Q 10/06334](#) should be considered in order to perform a complete search.
- N G06Q 10/06332 . . . {using business process templates}
- WARNING  
Group [G06Q 10/06332](#) is incomplete pending reclassification of documents from group [G06Q 10/0633](#).  
Groups [G06Q 10/0633](#) and [G06Q 10/06332](#) should be considered in order to perform a complete search.
- N G06Q 10/06334 . . . {using forecasting or predicting}
- WARNING  
Group [G06Q 10/06334](#) is incomplete pending reclassification of documents from group [G06Q 10/0633](#).  
Groups [G06Q 10/0633](#) and [G06Q 10/06334](#) should be considered in order to perform a complete search.
- C G06Q 10/067 . . Enterprise or organisation modelling
- WARNING  
Group [G06Q 10/067](#) is impacted by reclassification into groups [G06Q 10/0672](#) and [G06Q 10/0674](#).  
Groups [G06Q 10/067](#), [G06Q 10/0672](#) and [G06Q 10/0674](#) should be considered in order to perform a complete search.
- N G06Q 10/0672 . . {using organisation reporting relationships}
- WARNING  
Group [G06Q 10/0672](#) is incomplete pending reclassification of documents from group [G06Q 10/067](#).  
Groups [G06Q 10/067](#) and [G06Q 10/0672](#) should be considered in order to perform a complete search.
- N G06Q 10/0674 . . {using process simulation}
- WARNING  
Group [G06Q 10/0674](#) is incomplete pending reclassification of documents from group [G06Q 10/067](#).  
Groups [G06Q 10/067](#) and [G06Q 10/0674](#) should be considered in order to perform a complete search.
- U G06Q 10/08 . . Logistics, e.g. warehousing, loading or distribution; Inventory or stock management

C	G06Q 10/083	<ul style="list-style-type: none"> <li>Shipping</li> </ul> <p><u>WARNING</u></p> <p>1. Group <a href="#">G06Q 10/083</a> is incomplete pending reclassification of documents from <del>groups</del><del>group</del> <del>G06Q 50/40</del> and <del>G06Q 10/087</del>. <del>Group G06Q 50/60</del>. <i>G06Q 10/083 is also impacted by reclassification into groups <a href="#">G06Q 10/0841</a>, <a href="#">G06Q 10/0843</a> and <a href="#">G06Q 10/08365</a>.</i> <del>Groups All G06Q 50/40, groups G06Q 50/60 and listed in G06Q 10/083</del> <i>this Warning should be considered in order to perform a complete search.</i></p> <p>2. Group <a href="#">G06Q 10/083</a> is incomplete pending reclassification of documents from groups <a href="#">G06Q 30/0633</a> and <a href="#">G06Q 30/0635</a>. <i>Groups <a href="#">G06Q 30/0633</a>, <a href="#">G06Q 30/0635</a> and <a href="#">G06Q 10/083</a> should be considered in order to perform a complete search.</i></p> <p>3. Group <a href="#">G06Q 10/083</a> is incomplete pending reclassification of documents from groups <a href="#">G06Q 50/40</a> and <a href="#">G06Q 50/60</a>. <i>Groups <a href="#">G06Q 50/40</a>, <a href="#">G06Q 50/60</a> and <a href="#">G06Q 10/083</a> should be considered in order to perform a complete search.</i></p>
M	G06Q 10/08355	<ul style="list-style-type: none"> <li>{Routing methods}</li> </ul>
C	G06Q 10/0836	<ul style="list-style-type: none"> <li>Recipient pick-ups</li> </ul> <p><u>WARNING</u></p> <p>Group <a href="#">G06Q 10/0836</a> is impacted by reclassification into group <a href="#">G06Q 10/08365</a>. <i>Groups <a href="#">G06Q 10/0836</a> and <a href="#">G06Q 10/08365</a> should be considered in order to perform a complete search.</i></p>
N	G06Q 10/08365	<ul style="list-style-type: none"> <li>{Deliveries to storage lockers}</li> </ul> <p><u>WARNING</u></p> <p>Group <a href="#">G06Q 10/08365</a> is incomplete pending reclassification of documents from groups <a href="#">G06Q 10/083</a> and <a href="#">G06Q 10/0836</a>. <i>Groups <a href="#">G06Q 10/083</a>, <a href="#">G06Q 10/0836</a> and <a href="#">G06Q 10/08365</a> should be considered in order to perform a complete search.</i></p>
U	G06Q 10/0838	<ul style="list-style-type: none"> <li>{Historical data}</li> </ul>
N	G06Q 10/0841	<ul style="list-style-type: none"> <li>{Compliance with shipping requirements}</li> </ul> <p><u>WARNING</u></p> <p>Group <a href="#">G06Q 10/0841</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 10/083</a>. <i>Groups <a href="#">G06Q 10/083</a> and <a href="#">G06Q 10/0841</a> should be considered in order to perform a complete search.</i></p>
N	G06Q 10/0843	<ul style="list-style-type: none"> <li>{using forecasting or optimisation}</li> </ul> <p><u>WARNING</u></p> <p>Group <a href="#">G06Q 10/0843</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 10/083</a>. <i>Groups <a href="#">G06Q 10/083</a> and <a href="#">G06Q 10/0843</a> should be considered in order to perform a complete search.</i></p>
C	G06Q 10/087	<ul style="list-style-type: none"> <li>Inventory or stock management, e.g. order filling, procurement or balancing against orders</li> </ul> <p><u>WARNINGS</u></p> <p>1. Group <a href="#">G06Q 10/087</a> is impacted by reclassification into groups <a href="#">G06Q 10/0872</a>, <a href="#">G06Q 10/08724</a>, <a href="#">G06Q 10/08726</a>, <a href="#">G06Q 10/08728</a>, <a href="#">G06Q 10/0874</a>, <a href="#">G06Q 10/083</a>, <a href="#">G06Q 10/08741</a>, <a href="#">G06Q 10/08743</a>, <a href="#">G06Q 10/08744</a>, <a href="#">G06Q 10/0877</a>, <a href="#">G06Q 10/08772</a>, <a href="#">G06Q 10/08774</a>, <a href="#">G06Q 10/08776</a> and <a href="#">G06Q 10/08778</a>.</p>

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

*2. Group G06Q 10/087 is incomplete pending reclassification of documents from groups G06Q 30/0633 and G06Q 30/0635.*

*Groups G06Q 30/0633, G06Q 30/0635 and G06Q 10/087 should be considered in order to perform a complete search.*

- N G06Q 10/0872      • • • {using inventory planning}
- WARNING  
Groups [G06Q 10/0872](#), [G06Q 10/08724](#), [G06Q 10/08726](#) and [G06Q 10/08728](#) are incomplete pending reclassification of documents from group [G06Q 10/087](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 10/08724      • • • • {by shelf level inventory management, e.g. planograms}
- N G06Q 10/08726      • • • • {for replenishment processing, procedures, or recommendations using forecasting or optimisation}
- N G06Q 10/08728      • • • • {of returned inventory}
- N G06Q 10/0874      • • • {Inventory fulfillment (shipping [G06Q 10/083](#))}
- WARNING  
Groups [G06Q 10/0874](#), [G06Q 10/08741](#), [G06Q 10/08743](#) and [G06Q 10/08744](#) are incomplete pending reclassification of documents from group [G06Q 10/087](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 10/08741      • • • • {by picking of items from inventory for fulfillment}
- N G06Q 10/08743      • • • • {using optimisation of routes}
- N G06Q 10/08744      • • • • {by distributed inventory management}
- U G06Q 10/0875      • • • Itemisation or classification of parts, supplies or services, e.g. bill of materials
- N G06Q 10/0877      • • • {by inventory control or reporting using inventory tracking or counting}
- WARNING  
Groups [G06Q 10/0877](#), [G06Q 10/08772](#), [G06Q 10/08774](#), [G06Q 10/08776](#) and [G06Q 10/08778](#) are incomplete pending reclassification of documents from group [G06Q 10/087](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 10/08772      • • • • {Inventory counting methods}
- N G06Q 10/08774      • • • • {using consumer inventory reporting}
- N G06Q 10/08776      • • • • {by management of storage life of perishable or hazardous products}
- N G06Q 10/08778      • • • • {for managing mis-shipments, lost items or stolen goods}
- U G06Q 10/10      • Office automation; Time management
- U G06Q 10/109      • • Time management, e.g. calendars, reminders, meetings or time accounting
- U G06Q 10/1093      • • • Calendar-based scheduling for persons or groups
- D G06Q 10/1095      • • • • {Meeting or appointment}
- <administratively transferred to [G06Q 10/1093](#)>
- M G06Q 10/1097      • • • • {Task ~~using~~ calendar-based scheduling for task assignment}

**Project: RP11981 (G06Q)**

<b>U</b>	<b>G06Q 20/00</b>	<b>Payment architectures, schemes or protocols (apparatus for performing or posting payment transactions <a href="#">G07F 7/08</a>, <a href="#">G07F 19/00</a>; electronic cash registers <a href="#">G07G 1/12</a>)</b>
U	G06Q 20/38	• Payment protocols; Details thereof
U	G06Q 20/40	• • Authorisation, e.g. identification of payer or payee, verification of customer or shop credentials; Review and approval of payers, e.g. check credit lines or negative lists
M	G06Q 20/401	• • • {Transaction verification}
<p><u>WARNING</u>  Group <a href="#">G06Q 20/401</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 30/0609</a>.  Groups <a href="#">G06Q 30/0609</a> and <a href="#">G06Q 20/401</a> should be considered in order to perform a complete search.</p>		
<b>U</b>	<b>G06Q 30/00</b>	<b>Commerce</b>
U	G06Q 30/02	• Marketing; Price estimation or determination; Fundraising
C	G06Q 30/0201	• • Market modelling; Market analysis; Collecting market data
<p><u>WARNING</u>  Group <a href="#">G06Q 30/0201</a> is impacted by reclassification into groups <a href="#">G06Q 30/02011</a>, <a href="#">G06Q 30/020112</a>, <a href="#">G06Q 30/02012</a>, <a href="#">G06Q 30/020121</a>, <a href="#">G06Q 30/020122</a>, <a href="#">G06Q 30/02013</a>, <a href="#">G06Q 30/02014</a>, <a href="#">G06Q 30/020141</a>, <a href="#">G06Q 30/02015</a>, <a href="#">G06Q 30/02016</a>, <a href="#">G06Q 30/02017</a> and <a href="#">G06Q 30/02018</a>.  All groups listed in this Warning should be considered in order to perform a complete search.</p>		
N	G06Q 30/02011	• • • {Profiling or inferring profiles of users or market based on their behaviour}
<p><u>WARNING</u>  Groups <a href="#">G06Q 30/02011</a> and <a href="#">G06Q 30/020112</a> are incomplete pending reclassification of documents from group <a href="#">G06Q 30/0201</a>.  Groups <a href="#">G06Q 30/0201</a>, <a href="#">G06Q 30/02011</a> and <a href="#">G06Q 30/020112</a> should be considered in order to perform a complete search.</p>		
N	G06Q 30/020112	• • • • {Analysing events leading to purchases, e.g. "purchase journey" or attribution}
N	G06Q 30/02012	• • • {Customer valuation}
<p><u>WARNING</u>  Groups <a href="#">G06Q 30/02012</a>, <a href="#">G06Q 30/020121</a> and <a href="#">G06Q 30/020122</a> are incomplete pending reclassification of documents from group <a href="#">G06Q 30/0201</a>.  All groups listed in this Warning should be considered in order to perform a complete search.</p>		
N	G06Q 30/020121	• • • • {Sales lead analysis}
N	G06Q 30/020122	• • • • {Customer attrition, renewal, or retention analysis, e.g. churn}
N	G06Q 30/02013	• • • {Brand analysis}
<p><u>WARNING</u>  Group <a href="#">G06Q 30/02013</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 30/0201</a>.  Groups <a href="#">G06Q 30/0201</a> and <a href="#">G06Q 30/02013</a> should be considered in order to perform a complete search.</p>		

- N G06Q 30/02014 . . . {Product or service effects analysis, e.g. item cannibalisation}
- WARNING  
Groups [G06Q 30/02014](#), [G06Q 30/020141](#) and [G06Q 30/02015](#) are incomplete pending reclassification of documents from group [G06Q 30/0201](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 30/020141 . . . {Competitive analysis}
- N G06Q 30/02015 . . . {Benchmarking or competitor scoring}
- N G06Q 30/02016 . . . {Product or service lifecycle models or analysis, e.g. growth (product repair or maintenance administration [G06Q 10/20](#))}
- WARNING  
Group [G06Q 30/02016](#) is incomplete pending reclassification of documents from group [G06Q 30/0201](#).  
Groups [G06Q 30/0201](#) and [G06Q 30/02016](#) should be considered in order to perform a complete search.
- N G06Q 30/02017 . . . {Market opportunity analysis, e.g. gap analysis}
- WARNING  
Group [G06Q 30/02017](#) is incomplete pending reclassification of documents from group [G06Q 30/0201](#).  
Groups [G06Q 30/0201](#) and [G06Q 30/02017](#) should be considered in order to perform a complete search.
- N G06Q 30/02018 . . . {Market share analysis}
- WARNING  
Group [G06Q 30/02018](#) is incomplete pending reclassification of documents from group [G06Q 30/0201](#).  
Groups [G06Q 30/0201](#) and [G06Q 30/02018](#) should be considered in order to perform a complete search.
- C G06Q 30/0202 . . . Market predictions or forecasting for commercial activities
- WARNING  
Group [G06Q 30/0202](#) is impacted by reclassification into groups [G06Q 30/02022](#), [G06Q 30/02023](#) and [G06Q 30/02024](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 30/02022 . . . {based on correlations between customers, products, or services}
- WARNING  
Group [G06Q 30/02022](#) is incomplete pending reclassification of documents from group [G06Q 30/0202](#).  
Groups [G06Q 30/0202](#) and [G06Q 30/02022](#) should be considered in order to perform a complete search.
- N G06Q 30/02023 . . . {based on movement or presence behaviour at a physical establishment, e.g. customer movement}
- WARNING  
Group [G06Q 30/02023](#) is incomplete pending reclassification of documents from group [G06Q 30/0202](#).  
Groups [G06Q 30/0202](#) and [G06Q 30/02023](#) should be considered in order to perform a complete search.



N	G06Q 30/02024	<ul style="list-style-type: none"> <li>• • • {based on temporal or time series analysis, e.g. seasonality or cyclical}</li> </ul> <p><u>WARNING</u> Group <a href="#">G06Q 30/02024</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 30/0202</a>. Groups <a href="#">G06Q 30/0202</a> and <a href="#">G06Q 30/02024</a> should be considered in order to perform a complete search.</p>
C	G06Q 30/0204	<ul style="list-style-type: none"> <li>• • • Market segmentation</li> </ul> <p><u>WARNING</u> Group <a href="#">G06Q 30/0204</a> is impacted by reclassification into group <a href="#">G06Q 30/02043</a>. Groups <a href="#">G06Q 30/0204</a> and <a href="#">G06Q 30/02043</a> should be considered in order to perform a complete search.</p>
N	G06Q 30/02043	<ul style="list-style-type: none"> <li>• • • {based on spending or purchase history}</li> </ul> <p><u>WARNING</u> Group <a href="#">G06Q 30/02043</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 30/0204</a>. Groups <a href="#">G06Q 30/0204</a> and <a href="#">G06Q 30/02043</a> should be considered in order to perform a complete search.</p>
M	G06Q 30/0205	<ul style="list-style-type: none"> <li>• • • {<del>Location</del>based on location or geographical consideration}</li> </ul>
U	G06Q 30/06	<ul style="list-style-type: none"> <li>• Buying, selling or leasing transactions</li> </ul>
U	G06Q 30/0601	<ul style="list-style-type: none"> <li>• Electronic shopping [e-shopping]</li> </ul>
C	G06Q 30/0603	<ul style="list-style-type: none"> <li>• • • {Catalogue <del>ordering</del>creation or management}</li> </ul> <p><u>WARNING</u> Group <a href="#">G06Q 30/0603</a> is impacted by reclassification into groups <a href="#">G06Q 30/06031</a> and <a href="#">G06Q 30/06032</a>. Groups <a href="#">G06Q 30/0603</a>, <a href="#">G06Q 30/06031</a> and <a href="#">G06Q 30/06032</a> should be considered in order to perform a complete search.</p>
N	G06Q 30/06031	<ul style="list-style-type: none"> <li>• • • {Aggregating catalogue data from multiple providers}</li> </ul> <p><u>WARNING</u> Group <a href="#">G06Q 30/06031</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 30/0603</a>. Groups <a href="#">G06Q 30/0603</a> and <a href="#">G06Q 30/06031</a> should be considered in order to perform a complete search.</p>
N	G06Q 30/06032	<ul style="list-style-type: none"> <li>• • • {Customer-specific catalogues}</li> </ul> <p><u>WARNING</u> Group <a href="#">G06Q 30/06032</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 30/0603</a>. Groups <a href="#">G06Q 30/0603</a> and <a href="#">G06Q 30/06032</a> should be considered in order to perform a complete search.</p>
M	G06Q 30/0605	<ul style="list-style-type: none"> <li>• • • {<del>Supply or demand aggregation</del>Pooling transaction partners, e.g. group buying or group selling}</li> </ul>
M	G06Q 30/0607	<ul style="list-style-type: none"> <li>• • • {<del>Regulated</del>Regulating the sale of restricted items, e.g. alcohol}</li> </ul>
C	G06Q 30/0609	<ul style="list-style-type: none"> <li>• • • {<del>Buyer or seller confidence or verification</del>Qualifying participants for shopping transactions (payment transaction verification <a href="#">G06Q 20/401</a>)}</li> </ul> <p><u>WARNING</u> Group <a href="#">G06Q 30/0609</a> is impacted by reclassification into group <a href="#">G06Q 20/401</a>.</p>



		Groups <u>G06Q 30/0609</u> and <u>G06Q 20/401</u> should be considered in order to perform a complete search.
T	G06Q 30/0613	<ul style="list-style-type: none"> <li>• • • {<del>Third-party assisted</del>using intermediate agents}</li> </ul> <p><u>WARNING</u> Group <u>G06Q 30/0613</u> is incomplete pending reclassification of documents from group <u>G06Q 30/0615</u>. Groups <u>G06Q 30/0615</u> and <u>G06Q 30/0613</u> should be considered in order to perform a complete search.</p>
F	G06Q 30/0615 (Frozen)	<ul style="list-style-type: none"> <li>• • • {Anonymizing}</li> </ul> <p><u>WARNING</u> Group <u>G06Q 30/0615</u> is no longer used for the classification of documents as of August 1, 2025. The content of this group is being reclassified into groups <u>G06F 21/6254</u> and <u>G06Q 30/0613</u>. Groups <u>G06Q 30/0615</u>, <u>G06F 21/6254</u> and <u>G06Q 30/0613</u> should be considered in order to perform a complete search.</p>
C	G06Q 30/0621	<ul style="list-style-type: none"> <li>• • • {<del>Item configuration or customization</del>by configuring or customising goods or services}</li> </ul> <p><u>WARNING</u> Group <u>G06Q 30/0621</u> is impacted by reclassification into groups <u>G06Q 30/06211</u> and <u>G06Q 30/06212</u>. Groups <u>G06Q 30/0621</u>, <u>G06Q 30/06211</u> and <u>G06Q 30/06212</u> should be considered in order to perform a complete search.</p>
N	G06Q 30/06211	<ul style="list-style-type: none"> <li>• • • {using personal content of shoppers, e.g. personal photographs}</li> </ul> <p><u>WARNING</u> Group <u>G06Q 30/06211</u> is incomplete pending reclassification of documents from group <u>G06Q 30/0621</u>. Groups <u>G06Q 30/0621</u> and <u>G06Q 30/06211</u> should be considered in order to perform a complete search.</p>
N	G06Q 30/06212	<ul style="list-style-type: none"> <li>• • • {using seller-selected customisations}</li> </ul> <p><u>WARNING</u> Group <u>G06Q 30/06212</u> is incomplete pending reclassification of documents from group <u>G06Q 30/0621</u>. Groups <u>G06Q 30/0621</u> and <u>G06Q 30/06212</u> should be considered in order to perform a complete search.</p>
C	G06Q 30/0623	<ul style="list-style-type: none"> <li>• • • {<del>Item investigation</del>by investigating goods or services}</li> </ul> <p><u>WARNING</u> Group <u>G06Q 30/0623</u> is impacted by reclassification into group <u>G06Q 30/0624</u>. Groups <u>G06Q 30/0623</u> and <u>G06Q 30/0624</u> should be considered in order to perform a complete search.</p>
N	G06Q 30/0624	<ul style="list-style-type: none"> <li>• • • {using guided investigation, e.g. hierarchical browsing of shopping information}</li> </ul> <p><u>WARNING</u> Group <u>G06Q 30/0624</u> is incomplete pending reclassification of documents from group <u>G06Q 30/0623</u>. Groups <u>G06Q 30/0623</u> and <u>G06Q 30/0624</u> should be considered in order to perform a complete search.</p>

- C G06Q 30/0625 . . . . {~~Directed, with specific intent or strategy~~by formulating product or service queries, e.g. using keywords or predefined options}
- WARNING  
Group G06Q 30/0625 is impacted by reclassification into group G06Q 30/0629.  
Groups G06Q 30/0625 and G06Q 30/0629 should be considered in order to perform a complete search.
- C G06Q 30/0627 . . . . {~~using item specifications~~by specifying product or service characteristics, e.g. product dimensions}
- WARNING  
Group G06Q 30/0627 is impacted by reclassification into group G06Q 30/0629.  
Groups G06Q 30/0627 and G06Q 30/0629 should be considered in order to perform a complete search.
- C G06Q 30/0629 . . . . {~~for generating comparisons~~by pre-processing results, e.g. ranking or ordering results}
- WARNING  
Group G06Q 30/0629 is incomplete pending reclassification of documents from groups G06Q 30/0625 and G06Q 30/0627. Group G06Q 30/0629 is also impacted by reclassification into group G06Q 30/06291.  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 30/06291 . . . . {for generating comparative results}
- WARNING  
Group G06Q 30/06291 is incomplete pending reclassification of documents from group G06Q 30/0629.  
Groups G06Q 30/0629 and G06Q 30/06291 should be considered in order to perform a complete search.
- C G06Q 30/0631 . . . {~~Item recommendations~~Recommending goods or services}
- WARNING  
Group G06Q 30/0631 is impacted by reclassification into groups G06Q 30/06311, G06Q 30/06312, G06Q 30/06313, G06Q 30/06314 and G06Q 30/06315.  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 30/06311 . . . . {based on purchase or browsing history}
- WARNING  
Group G06Q 30/06311 is incomplete pending reclassification of documents from group G06Q 30/0631.  
Groups G06Q 30/0631 and G06Q 30/06311 should be considered in order to perform a complete search.
- N G06Q 30/06312 . . . . {based on similarity with other shoppers}
- WARNING  
Group G06Q 30/06312 is incomplete pending reclassification of documents from group G06Q 30/0631.  
Groups G06Q 30/0631 and G06Q 30/06312 should be considered in order to perform a complete search.

- N G06Q 30/06313 . . . {based on similarity of goods or services, e.g. substitute or alternate goods or services}
- WARNING  
Group [G06Q 30/06313](#) is incomplete pending reclassification of documents from group [G06Q 30/0631](#).  
Groups [G06Q 30/0631](#) and [G06Q 30/06313](#) should be considered in order to perform a complete search.
- N G06Q 30/06314 . . . {by determining complementary or compatible goods or services, e.g. accessory goods}
- WARNING  
Group [G06Q 30/06314](#) is incomplete pending reclassification of documents from group [G06Q 30/0631](#).  
Groups [G06Q 30/0631](#) and [G06Q 30/06314](#) should be considered in order to perform a complete search.
- N G06Q 30/06315 . . . {gift recommendations, e.g. for a specific gift recipient}
- WARNING  
Group [G06Q 30/06315](#) is incomplete pending reclassification of documents from group [G06Q 30/0631](#).  
Groups [G06Q 30/0631](#) and [G06Q 30/06315](#) should be considered in order to perform a complete search.
- C G06Q 30/0633 . . . {~~Lists~~Managing shopping lists, e.g. ~~purchase orders, compilation or processing~~compiling or processing purchase lists (shipping orders [G06Q 10/083](#); order filling [G06Q 10/087](#))}
- WARNING  
Group [G06Q 30/0633](#) is incomplete pending reclassification of documents from group [G06Q 30/0635](#). Group [G06Q 30/0633](#) is also impacted by reclassification into groups [G06Q 30/06331](#), [G06Q 30/06332](#), [G06Q 30/06333](#), [G06Q 30/06334](#), [G06Q 30/0635](#), [G06Q 30/0637](#), [G06Q 10/083](#) and [G06Q 10/087](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 30/06331 . . . {wish lists; gift lists; product registries, e.g. wedding registries}
- WARNING  
Groups [G06Q 30/06331](#) and [G06Q 30/06332](#) are incomplete pending reclassification of documents from groups [G06Q 30/0633](#) and [G06Q 30/0635](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 30/06332 . . . {comprising goods or services offered by multiple providers, e.g. multiple merchants}
- N G06Q 30/06333 . . . {virtual shopping carts}
- WARNING  
Groups [G06Q 30/06333](#) and [G06Q 30/06334](#) are incomplete pending reclassification of documents from groups [G06Q 30/0633](#) and [G06Q 30/0635](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 30/06334 . . . {comprising goods or services offered by multiple providers, e.g. multiple merchants}

- C G06Q 30/0635 . . . . {~~Processing of requisition or of purchase orders~~replenishment orders;  
recurring orders}
- WARNING  
Group G06Q 30/0635 is incomplete pending reclassification of documents from group G06Q 30/0633. Group G06Q 30/0635 is also impacted by reclassification into groups G06Q 30/0633, G06Q 30/06331, G06Q 30/06332, G06Q 30/06333, G06Q 30/06334, G06Q 30/0637, G06Q 10/083 and G06Q 10/087. All groups listed in this Warning should be considered in order to perform a complete search.
- T G06Q 30/0637 . . . . {~~Approvals~~requiring approval before final submission, e.g. parental approval}
- WARNING  
Group G06Q 30/0637 is incomplete pending reclassification of documents from groups G06Q 30/0633 and G06Q 30/0635. Groups G06Q 30/0633, G06Q 30/0635 and G06Q 30/0637 should be considered in order to perform a complete search.
- M G06Q 30/0639 . . . {~~Item locations~~Locating goods or services, e.g. based on physical position of the goods or services within a shopping facility}
- C G06Q 30/0641 . . . {~~Shopping interfaces~~utilising user interfaces specially adapted for shopping}
- WARNING  
Group G06Q 30/0641 is impacted by reclassification into groups G06Q 30/0643, G06Q 30/06431, G06Q 30/06432, G06Q 30/06433, G06Q 30/06434, G06Q 30/06435, G06Q 30/0644, G06Q 30/06442 and G06Q 30/06444. All groups listed in this Warning should be considered in order to perform a complete search.
- C G06Q 30/0643 . . . . {~~Graphical representation of items or shoppers~~graphically representing goods, e.g. 3D product representation}
- WARNING  
Group G06Q 30/0643 is incomplete pending reclassification of documents from group G06Q 30/0641. Group G06Q 30/0643 is also impacted by reclassification into groups G06Q 30/06431, G06Q 30/06432, G06Q 30/06433, G06Q 30/06434, G06Q 30/06435, G06Q 30/0644, G06Q 30/06442, G06Q 30/06443 and G06Q 30/06444. All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 30/06431 . . . . {relative to a shopper model}
- WARNING  
Groups G06Q 30/06431 and G06Q 30/06432 are incomplete pending reclassification of documents from groups G06Q 30/0641 and G06Q 30/0643. All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 30/06432 . . . . . {by virtually fitting wearable articles}
- N G06Q 30/06433 . . . . . {relative to real-world environments}
- WARNING  
Group G06Q 30/06433 is incomplete pending reclassification of documents from groups G06Q 30/0641 and G06Q 30/0643.

Groups [G06Q 30/0641](#), [G06Q 30/0643](#) and [G06Q 30/06433](#) should be considered in order to perform a complete search.

- N G06Q 30/06434 . . . . {by previewing changes to the physical appearance of goods, e.g. altering colour}

WARNING

Group [G06Q 30/06434](#) is incomplete pending reclassification of documents from groups [G06Q 30/0641](#) and [G06Q 30/0643](#). Groups [G06Q 30/0641](#), [G06Q 30/0643](#) and [G06Q 30/06434](#) should be considered in order to perform a complete search.

- N G06Q 30/06435 . . . . {by generating side-by-side comparisons of goods or services}

WARNING

Group [G06Q 30/06435](#) is incomplete pending reclassification of documents from groups [G06Q 30/0641](#) and [G06Q 30/0643](#). Groups [G06Q 30/0641](#), [G06Q 30/0643](#) and [G06Q 30/06435](#) should be considered in order to perform a complete search.

- N G06Q 30/0644 . . . . {by graphically simulating physical shopping environments, e.g. virtual malls}

WARNING

Groups [G06Q 30/0644](#) and [G06Q 30/06442](#) are incomplete pending reclassification of documents from groups [G06Q 30/0641](#) and [G06Q 30/0643](#). All groups listed in this Warning should be considered in order to perform a complete search.

- N G06Q 30/06442 . . . . {by representing shoppers within virtual shopping environments, e.g. using shopper avatars}

- N G06Q 30/06443 . . . . {by displaying shopping information with special effects, e.g. highlighting items in view}

WARNING

Group [G06Q 30/06443](#) is incomplete pending reclassification of documents from group [G06Q 30/0643](#). Groups [G06Q 30/0643](#) and [G06Q 30/06443](#) should be considered in order to perform a complete search.

- N G06Q 30/06444 . . . . {for multi-user collaboration}

WARNING

Group [G06Q 30/06444](#) is incomplete pending reclassification of documents from groups [G06Q 30/0641](#) and [G06Q 30/0643](#). Groups [G06Q 30/0641](#), [G06Q 30/0643](#) and [G06Q 30/06444](#) should be considered in order to perform a complete search.

**Project: RP11982 (G06Q)**

- U G06Q 40/00 **Finance; Insurance; Tax strategies; Processing of corporate or income taxes**

- C G06Q 40/02 . Banking, e.g. interest calculation or account maintenance (credit or loans [G06Q 40/03](#))

WARNING

Group [G06Q 40/02](#) is impacted by reclassification into groups [G06Q 40/022](#), [G06Q 40/0221](#), [G06Q 40/0222](#), [G06Q 40/0223](#), [G06Q 40/0225](#), [G06Q 40/023](#), [G06Q 40/024](#), [G06Q 40/026](#), [G06Q 40/028](#), [G06Q 40/029](#), [G06Q 40/04](#), [G06Q 40/042](#), [G06Q 40/043](#), [G06Q 40/044](#) and [G06Q 40/045](#).

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

- N G06Q 40/022
- {Management of bank accounts, e.g. opening or closing of bank accounts, new customer bank accounts}
- WARNING  
Groups [G06Q 40/022](#), [G06Q 40/0221](#), [G06Q 40/0222](#), [G06Q 40/0223](#) and [G06Q 40/0225](#) are incomplete pending reclassification of documents from group [G06Q 40/02](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 40/0221
- • {Intra-bank account relationships, e.g. sub-accounts, linked or joint accounts}
- N G06Q 40/0222
- • {Monitoring, detecting or alert notifications of bank account events}
- N G06Q 40/0223
- • {For planning or pre-staging a bank account transaction}
- N G06Q 40/0225
- • {Bank transfers not related to payment transactions}
- N G06Q 40/023
- {specially adapted for online banking}
- WARNING  
Group [G06Q 40/023](#) is incomplete pending reclassification of documents from group [G06Q 40/02](#).  
Groups [G06Q 40/02](#) and [G06Q 40/023](#) should be considered in order to perform a complete search.
- N G06Q 40/024
- {Anti-fraud, anti-money laundering or know-your-customer}
- WARNING  
Group [G06Q 40/024](#) is incomplete pending reclassification of documents from group [G06Q 40/02](#).  
Groups [G06Q 40/02](#) and [G06Q 40/024](#) should be considered in order to perform a complete search.
- N G06Q 40/026
- • {Banking interfaces}
- WARNING  
Group [G06Q 40/026](#) is incomplete pending reclassification of documents from group [G06Q 40/02](#).  
Groups [G06Q 40/02](#) and [G06Q 40/026](#) should be considered in order to perform a complete search.
- N G06Q 40/028
- • {Processing paper cheques}
- WARNING  
Group [G06Q 40/028](#) is incomplete pending reclassification of documents from group [G06Q 40/02](#).  
Groups [G06Q 40/02](#) and [G06Q 40/028](#) should be considered in order to perform a complete search.
- N G06Q 40/029
- • {Banking at kiosks, computers, point of sale [POS] terminals or automated teller machines [ATM]}
- WARNING  
Group [G06Q 40/029](#) is incomplete pending reclassification of documents from group [G06Q 40/02](#).  
Groups [G06Q 40/02](#) and [G06Q 40/029](#) should be considered in order to perform a complete search.



C	G06Q 40/03	<ul style="list-style-type: none"> <li>• Credit; Loans; Processing thereof</li> </ul> <p><u>WARNING</u>  Group <a href="#">G06Q 40/03</a> is impacted by reclassification into groups <a href="#">G06Q 40/0305</a>, <a href="#">G06Q 40/03055</a>, <a href="#">G06Q 40/031</a>, <a href="#">G06Q 40/032</a>, <a href="#">G06Q 40/0325</a>, <a href="#">G06Q 40/03251</a>, <a href="#">G06Q 40/033</a>, <a href="#">G06Q 40/034</a>, <a href="#">G06Q 40/035</a>, <a href="#">G06Q 40/036</a>, <a href="#">G06Q 40/037</a>, <a href="#">G06Q 40/038</a> and <a href="#">G06Q 40/039</a>.  All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	G06Q 40/0305	<ul style="list-style-type: none"> <li>• {Platforms for credit or lending product research, comparison or matching}</li> </ul> <p><u>WARNING</u>  Group s <a href="#">G06Q 40/0305</a> and <a href="#">G06Q 40/03055</a> are incomplete pending reclassification of documents from group <a href="#">G06Q 40/03</a>.  Groups <a href="#">G06Q 40/03</a>, <a href="#">G06Q 40/0305</a> and <a href="#">G06Q 40/03055</a> should be considered in order to perform a complete search.</p>
N	G06Q 40/03055	<ul style="list-style-type: none"> <li>• • {using artificial intelligence, machine learning or neural networks}</li> </ul>
N	G06Q 40/031	<ul style="list-style-type: none"> <li>• {Credit restrictions on particular classes of purchases or children accounts}</li> </ul> <p><u>WARNING</u>  Group <a href="#">G06Q 40/031</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 40/03</a>.  Groups <a href="#">G06Q 40/03</a> and <a href="#">G06Q 40/031</a> should be considered in order to perform a complete search.</p>
N	G06Q 40/032	<ul style="list-style-type: none"> <li>• • {Account notification, monitoring, detecting, or reporting therefor}</li> </ul> <p><u>WARNING</u>  Groups <a href="#">G06Q 40/032</a>, <a href="#">G06Q 40/0325</a> and <a href="#">G06Q 40/03251</a> are incomplete pending reclassification of documents from group <a href="#">G06Q 40/03</a>.  All groups listed in this Warning should be considered in order to perform a complete search.</p>
N	G06Q 40/0325	<ul style="list-style-type: none"> <li>• • • {specially adapted for detecting or preventing credit or loan fraud}</li> </ul>
N	G06Q 40/03251	<ul style="list-style-type: none"> <li>• • • {using artificial intelligence, machine learning or neural networks}</li> </ul>
N	G06Q 40/033	<ul style="list-style-type: none"> <li>• {Analysing or forecasting financial condition of borrowers}</li> </ul> <p><u>WARNING</u>  Group <a href="#">G06Q 40/033</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 40/03</a>.  Groups <a href="#">G06Q 40/03</a> and <a href="#">G06Q 40/033</a> should be considered in order to perform a complete search.</p>
N	G06Q 40/034	<ul style="list-style-type: none"> <li>• • {Loan servicing}</li> </ul> <p><u>WARNING</u>  Group <a href="#">G06Q 40/034</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 40/03</a>.  Groups <a href="#">G06Q 40/03</a> and <a href="#">G06Q 40/034</a> should be considered in order to perform a complete search.</p>
N	G06Q 40/035	<ul style="list-style-type: none"> <li>• {using financial equations or formulas}</li> </ul> <p><u>WARNING</u>  Group <a href="#">G06Q 40/035</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 40/03</a>.  Groups <a href="#">G06Q 40/03</a> and <a href="#">G06Q 40/035</a> should be considered in order to perform a complete search.</p>



- N G06Q 40/036
- {Mortgages}
- WARNING  
Group [G06Q 40/036](#) is incomplete pending reclassification of documents from group [G06Q 40/03](#).  
Groups [G06Q 40/03](#) and [G06Q 40/036](#) should be considered in order to perform a complete search.
- N G06Q 40/037
- {Revolving line of credit}
- WARNING  
Group [G06Q 40/037](#) is incomplete pending reclassification of documents from group [G06Q 40/03](#).  
Groups [G06Q 40/03](#) and [G06Q 40/037](#) should be considered in order to perform a complete search.
- N G06Q 40/038
- {Car or vehicle loans}
- WARNING  
Group [G06Q 40/038](#) is incomplete pending reclassification of documents from group [G06Q 40/03](#).  
Groups [G06Q 40/03](#) and [G06Q 40/038](#) should be considered in order to perform a complete search.
- N G06Q 40/039
- {Personal or business loans}
- WARNING  
Group [G06Q 40/039](#) is incomplete pending reclassification of documents from group [G06Q 40/03](#).  
Groups [G06Q 40/03](#) and [G06Q 40/039](#) should be considered in order to perform a complete search.
- C G06Q 40/04
- Trading; Exchange, e.g. stocks, commodities, derivatives or currency exchange
- WARNING  
Group [G06Q 40/04](#) is incomplete pending reclassification of documents from group [G06Q 40/02](#).  
Group [G06Q 40/04](#) is also impacted by reclassification into groups [G06Q 40/042](#), [G06Q 40/0421](#), [G06Q 40/043](#), [G06Q 40/0431](#), [G06Q 40/0432](#), [G06Q 40/044](#), [G06Q 40/045](#), [G06Q 40/0451](#), [G06Q 40/046](#), [G06Q 40/047](#), [G06Q 40/048](#), [G06Q 40/049](#), [G06Q 40/05](#), [G06Q 40/051](#), [G06Q 40/052](#), [G06Q 40/0525](#), [G06Q 40/053](#), [G06Q 40/054](#), [G06Q 40/0545](#) and [G06Q 40/055](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 40/042
- {using financial market analysis, e.g. trading predictions, or forecasting}
- WARNING  
Group [G06Q 40/042](#) is incomplete pending reclassification of documents from groups [G06Q 40/02](#) and [G06Q 40/04](#).  
Groups [G06Q 40/02](#), [G06Q 40/04](#) and [G06Q 40/042](#) should be considered in order to perform a complete search.
- N G06Q 40/0421
- {using artificial intelligence, machine learning or neural networks}
- WARNING  
Group [G06Q 40/0421](#) is incomplete pending reclassification of documents from group [G06Q 40/04](#).  
Groups [G06Q 40/04](#) and [G06Q 40/0421](#) should be considered in order to perform a complete search.

- N G06Q 40/043
- • {Tools or interfaces specially adapted for trading or brokering}
- WARNING  
Group [G06Q 40/043](#) is incomplete pending reclassification of documents from groups [G06Q 40/02](#) and [G06Q 40/04](#).  
Groups [G06Q 40/02](#), [G06Q 40/04](#) and [G06Q 40/043](#) should be considered in order to perform a complete search.
- N G06Q 40/0431
- • • {Displaying financial market data}
- WARNING  
Group [G06Q 40/0431](#) is incomplete pending reclassification of documents from group [G06Q 40/04](#).  
Groups [G06Q 40/04](#) and [G06Q 40/0431](#) should be considered in order to perform a complete search.
- N G06Q 40/0432
- • • {using pricing grids or ladders}
- WARNING  
Group [G06Q 40/0432](#) is incomplete pending reclassification of documents from group [G06Q 40/04](#).  
Groups [G06Q 40/04](#) and [G06Q 40/0432](#) should be considered in order to perform a complete search.
- N G06Q 40/044
- • {using tick sizes or order constraints}
- WARNING  
Group [G06Q 40/044](#) is incomplete pending reclassification of documents from groups [G06Q 40/02](#) and [G06Q 40/04](#).  
Groups [G06Q 40/02](#), [G06Q 40/04](#) and [G06Q 40/044](#) should be considered in order to perform a complete search.
- N G06Q 40/045
- • {Accepting or processing orders in an exchange}
- WARNING  
Group [G06Q 40/045](#) is incomplete pending reclassification of documents from groups [G06Q 40/02](#) and [G06Q 40/04](#).  
Groups [G06Q 40/02](#), [G06Q 40/04](#) and [G06Q 40/045](#) should be considered in order to perform a complete search.
- N G06Q 40/0451
- • • {Prioritising, queuing or matching trade orders in an exchange}
- WARNING  
Group [G06Q 40/0451](#) is incomplete pending reclassification of documents from group [G06Q 40/04](#).  
Groups [G06Q 40/04](#) and [G06Q 40/0451](#) should be considered in order to perform a complete search.
- N G06Q 40/046
- • {Trading across multiple trading exchanges or platforms}
- WARNING  
Group [G06Q 40/046](#) is incomplete pending reclassification of documents from group [G06Q 40/04](#).  
Groups [G06Q 40/04](#) and [G06Q 40/046](#) should be considered in order to perform a complete search.
- N G06Q 40/047
- • {including trading crash mitigation or circuit breakers}
- WARNING  
Group [G06Q 40/047](#) is incomplete pending reclassification of documents from group [G06Q 40/04](#).

Groups [G06Q 40/04](#) and [G06Q 40/047](#) should be considered in order to perform a complete search.

- |                   |  |
|-------------------|--|
| N    G06Q 40/048  | <ul style="list-style-type: none"> <li>• {Trading margin, collateral, or credit worthiness of trading partners}</li> </ul> <p><u>WARNING</u><br/>Group <a href="#">G06Q 40/048</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 40/04</a>.<br/>Groups <a href="#">G06Q 40/04</a> and <a href="#">G06Q 40/048</a> should be considered in order to perform a complete search.</p>  |
| N    G06Q 40/049  | <ul style="list-style-type: none"> <li>• {Trading or exchanging carbon credits or renewable energy certificates}</li> </ul> <p><u>WARNING</u><br/>Group <a href="#">G06Q 40/049</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 40/04</a>.<br/>Groups <a href="#">G06Q 40/04</a> and <a href="#">G06Q 40/049</a> should be considered in order to perform a complete search.</p>   |
| N    G06Q 40/05   | <ul style="list-style-type: none"> <li>• {Trading or analysing debt instruments}</li> </ul> <p><u>WARNING</u><br/>Group <a href="#">G06Q 40/05</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 40/04</a>.<br/>Groups <a href="#">G06Q 40/04</a> and <a href="#">G06Q 40/05</a> should be considered in order to perform a complete search.</p>   |
| N    G06Q 40/051  | <ul style="list-style-type: none"> <li>• {Trading or analysing equity instruments}</li> </ul> <p><u>WARNING</u><br/>Group <a href="#">G06Q 40/051</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 40/04</a>.<br/>Groups <a href="#">G06Q 40/04</a> and <a href="#">G06Q 40/051</a> should be considered in order to perform a complete search.</p>   |
| N    G06Q 40/052  | <ul style="list-style-type: none"> <li>• {Trading or analysing derivatives}</li> </ul> <p><u>WARNING</u><br/>Group s <a href="#">G06Q 40/052</a> and <a href="#">G06Q 40/0525</a> are incomplete pending reclassification of documents from group <a href="#">G06Q 40/04</a>.<br/>Groups <a href="#">G06Q 40/04</a>, <a href="#">G06Q 40/052</a> and <a href="#">G06Q 40/0525</a> should be considered in order to perform a complete search.</p>                          |
| N    G06Q 40/0525 | <ul style="list-style-type: none"> <li>• • {using binary options or trading in prediction markets}</li> </ul>  |
| N    G06Q 40/053  | <ul style="list-style-type: none"> <li>• {Trading fiat currency}</li> </ul> <p><u>WARNING</u><br/>Group <a href="#">G06Q 40/053</a> is incomplete pending reclassification of documents from group <a href="#">G06Q 40/04</a>.<br/>Groups <a href="#">G06Q 40/04</a> and <a href="#">G06Q 40/053</a> should be considered in order to perform a complete search.</p>   |
| N    G06Q 40/054  | <ul style="list-style-type: none"> <li>• {Trading investment funds, e.g. mutual funds or hedge funds}</li> </ul> <p><u>WARNING</u><br/>Groups <a href="#">G06Q 40/054</a> and <a href="#">G06Q 40/0545</a> are incomplete pending reclassification of documents from group <a href="#">G06Q 40/04</a>.<br/>Groups <a href="#">G06Q 40/04</a>, <a href="#">G06Q 40/054</a> and <a href="#">G06Q 40/0545</a> should be considered in order to perform a complete search.</p> |
| N    G06Q 40/0545 | <ul style="list-style-type: none"> <li>• • {Trading exchange traded funds}</li> </ul>  |

- N G06Q 40/055
- {Trading non-fungible tokens [NFT]}
- WARNING  
Group [G06Q 40/055](#) is incomplete pending reclassification of documents from group [G06Q 40/04](#).  
Groups [G06Q 40/04](#) and [G06Q 40/055](#) should be considered in order to perform a complete search.
- C G06Q 40/06
- Asset management; Financial planning or analysis
- WARNING  
Group [G06Q 40/06](#) is impacted by reclassification into groups [G06Q 40/062](#), [G06Q 40/063](#), [G06Q 40/0631](#), [G06Q 40/064](#), [G06Q 40/065](#), [G06Q 40/066](#), [G06Q 40/067](#) and [G06Q 40/068](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 40/062
- {Investment screening, selection or watchlist}
- WARNING  
Group [G06Q 40/062](#) is incomplete pending reclassification of documents from group [G06Q 40/06](#).  
Groups [G06Q 40/06](#) and [G06Q 40/062](#) should be considered in order to perform a complete search.
- N G06Q 40/063
- {Asset management predictions or forecasting}
- WARNING  
Groups [G06Q 40/063](#) and [G06Q 40/0631](#) are incomplete pending reclassification of documents from group [G06Q 40/06](#).  
Groups [G06Q 40/06](#), [G06Q 40/063](#) and [G06Q 40/0631](#) should be considered in order to perform a complete search.
- N G06Q 40/0631
- • {Asset management predictions or forecasting using artificial intelligence, machine learning or neural networks}
- N G06Q 40/064
- {including visualisation for planning or analysis}
- WARNING  
Group [G06Q 40/064](#) is incomplete pending reclassification of documents from group [G06Q 40/06](#).  
Groups [G06Q 40/06](#) and [G06Q 40/064](#) should be considered in order to perform a complete search.
- N G06Q 40/065
- {Budgeting}
- WARNING  
Group [G06Q 40/065](#) is incomplete pending reclassification of documents from group [G06Q 40/06](#).  
Groups [G06Q 40/06](#) and [G06Q 40/065](#) should be considered in order to perform a complete search.
- N G06Q 40/066
- {Retirement planning}
- WARNING  
Group [G06Q 40/066](#) is incomplete pending reclassification of documents from group [G06Q 40/06](#).  
Groups [G06Q 40/06](#) and [G06Q 40/066](#) should be considered in order to perform a complete search.

- N G06Q 40/067
- {Financial business planning}
- WARNING  
Group [G06Q 40/067](#) is incomplete pending reclassification of documents from group [G06Q 40/06](#).  
Groups [G06Q 40/06](#) and [G06Q 40/067](#) should be considered in order to perform a complete search.
- N G06Q 40/068
- {Investment funding including crowdfunding or crowdlending}
- WARNING  
Group [G06Q 40/068](#) is incomplete pending reclassification of documents from group [G06Q 40/06](#).  
Groups [G06Q 40/06](#) and [G06Q 40/068](#) should be considered in order to perform a complete search.
- C G06Q 40/08
- Insurance
- WARNING  
Group [G06Q 40/08](#) is impacted by reclassification into groups [G06Q 40/082](#), [G06Q 40/0821](#), [G06Q 40/0822](#), [G06Q 40/08221](#), [G06Q 40/08222](#), [G06Q 40/08223](#), [G06Q 40/083](#), [G06Q 40/084](#), [G06Q 40/0841](#), [G06Q 40/0842](#), [G06Q 40/085](#), [G06Q 40/086](#), [G06Q 40/0861](#), [G06Q 40/087](#) and [G06Q 40/09](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 40/082
- {platforms for insurance research, comparison or matching insurance customers and providers using insurance risk factors}
- WARNING  
Groups [G06Q 40/082](#), [G06Q 40/0821](#), [G06Q 40/0822](#), [G06Q 40/08221](#), [G06Q 40/08222](#) and [G06Q 40/08223](#) are incomplete pending reclassification of documents from group [G06Q 40/08](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 40/0821
- • {by recommending insurance products, customers or providers based on risk analysis}
- N G06Q 40/0822
- • {by determining insurance risk or fault}
- N G06Q 40/08221
- • • {using vehicle data and driving data}
- N G06Q 40/08222
- • • {by calculating actual insurance loss value}
- N G06Q 40/08223
- • • {by calculating potential insurance loss value}
- N G06Q 40/083
- {using fraud detection or prevention analysis}
- WARNING  
Group [G06Q 40/083](#) is incomplete pending reclassification of documents from group [G06Q 40/08](#).  
Groups [G06Q 40/08](#) and [G06Q 40/083](#) should be considered in order to perform a complete search.
- N G06Q 40/084
- {by insurance claims processing}
- WARNING  
Groups [G06Q 40/084](#), [G06Q 40/0841](#) and [G06Q 40/0842](#) are incomplete pending reclassification of documents from group [G06Q 40/08](#).  
All groups listed in this Warning should be considered in order to perform a complete search.
- N G06Q 40/0841
- • {using image analysis}
- N G06Q 40/0842
- • {using sensors}

- N G06Q 40/085
- {for coordinating insurance risk prevention measures for insurance policy coverage}
- WARNING  
Group [G06Q 40/085](#) is incomplete pending reclassification of documents from group [G06Q 40/08](#).  
Groups [G06Q 40/08](#) and [G06Q 40/085](#) should be considered in order to perform a complete search.
- N G06Q 40/086
- {by calculating insurance premiums for insurance policies}
- WARNING  
Groups [G06Q 40/086](#) and [G06Q 40/0861](#) are incomplete pending reclassification of documents from group [G06Q 40/08](#).  
Groups [G06Q 40/08](#), [G06Q 40/086](#) and [G06Q 40/0861](#) should be considered in order to perform a complete search.
- N G06Q 40/0861
- • {using sensors}
- N G06Q 40/087
- {using annuities}
- WARNING  
Group [G06Q 40/087](#) is incomplete pending reclassification of documents from group [G06Q 40/08](#).  
Groups [G06Q 40/08](#) and [G06Q 40/087](#) should be considered in order to perform a complete search.
- N G06Q 40/09
- {using artificial intelligence, machine learning or neural networks}
- WARNING  
Group [G06Q 40/09](#) is incomplete pending reclassification of documents from group [G06Q 40/08](#).  
Groups [G06Q 40/08](#) and [G06Q 40/09](#) should be considered in order to perform a complete search.
- U G06Q 40/10
- Tax strategies
- C G06Q 40/12
- Accounting
- WARNING  
Group [G06Q 40/12](#) is impacted by reclassification into groups [G06Q 40/124](#) and [G06Q 40/126](#).  
Groups [G06Q 40/12](#), [G06Q 40/124](#) and [G06Q 40/126](#) should be considered in order to perform a complete search.
- U G06Q 40/123
- {Tax preparation or submission}
- N G06Q 40/124
- {Auditing}
- WARNING  
Group [G06Q 40/124](#) is incomplete pending reclassification of documents from group [G06Q 40/12](#).  
Groups [G06Q 40/12](#) and [G06Q 40/124](#) should be considered in order to perform a complete search.
- U G06Q 40/125
- {Finance or payroll}
- N G06Q 40/126
- {Corporate accounting}
- WARNING  
Group [G06Q 40/126](#) is incomplete pending reclassification of documents from group [G06Q 40/12](#).  
Groups [G06Q 40/12](#) and [G06Q 40/126](#) should be considered in order to perform a complete search.



- U G06Q 40/128      • • {Check-book balancing, updating or printing arrangements}

**Project: MP12697 (H01L)**

- U H01L 25/00      **Assemblies consisting of a plurality of semiconductor or other solid state devices (devices consisting of a plurality of solid-state components formed in or on a common substrate [H10D 89/00](#); photovoltaic modules or arrays of photovoltaic cells [H10F 19/00](#))**

**NOTE**

{Due to the ongoing developments in class [H10](#) and related subclasses, the information displayed in notes, references and definitions of this main group and indents may not be entirely accurate. For each specific subject matter referred to in this main group and indents, users are invited to consult the relevant place in class [H10](#) and to consider the class [H10](#) information as correct, in case of conflict}

- M H01L 25/03      • all the devices being of a type provided for in a single subclass of subclasses [H10B](#), [H10D](#), [H10F](#), [H10H](#), [H10K](#) or [H10N](#), e.g. assemblies of rectifier diodes

**Project: RP10474-F (H01R)**

- U H01R 4/00      **Electrically-conductive connections between two or more conductive members in direct contact, i.e. touching one another; Means for effecting or maintaining such contact; Electrically-conductive connections having two or more spaced connecting locations for conductors and using contact members penetrating insulation**

- U H01R 4/28      • Clamped connections, spring connections (made by means of terminals specially adapted for contact with, or insertion into, printed circuits [H01R 12/00](#))

- U H01R 4/48      • • utilising a spring, clip, or other resilient member ([H01R 4/52](#) takes precedence)

- M H01R 4/4809      • • • {using a leaf spring to bias the conductor toward the busbar}

**WARNING**

Group H01R 4/4809 is impacted by reclassification into groups H01R 4/4811, H01R 4/4814, H01R 4/4816, H01R 4/4819, H01R 4/4821, H01R 4/4823, H01R 4/4826, H01R 4/4828, H01R 4/483, H01R 4/4833, H01R 4/4835, H01R 4/4837, H01R 4/484, H01R 4/4842, H01R 4/4844, H01R 4/4846, H01R 4/4848, H01R 4/485 and H01R 4/4852.

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

- M H01R 4/4811      • • • • {Spring details}

**WARNING**

Groups H01R 4/4811 and H01R 4/4814 are incomplete pending reclassification of documents from groups H01R 4/4809, H01R 4/48185, H01R 4/48275, H01R 4/48365 and H01R 4/48455.

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

- M H01R 4/4816      • • • • • {the spring shape preventing insertion of the conductor end when the spring is unbiased}

**WARNING**

Group H01R 4/4816 is incomplete pending reclassification of documents from groups H01R 4/4809, H01R 4/48275, H01R 4/48365 and H01R 4/48455.

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



- M H01R 4/48185 . . . {adapted for axial insertion of a wire end}

WARNING

Group H01R 4/48185 is impacted by reclassification into groups H01R 4/4811, H01R 4/4814, H01R 4/4819, H01R 4/4821, H01R 4/4823, H01R 4/4826, H01R 4/4828, H01R 4/483, H01R 4/4833, H01R 4/4835, H01R 4/4837, H01R 4/484, H01R 4/4842, H01R 4/4844, H01R 4/4846, H01R 4/4848, H01R 4/485 and H01R 4/4852.

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

- M H01R 4/4819 . . . {the spring shape allowing insertion of the conductor end when the spring is unbiased}

WARNING

Group H01R 4/4819 is incomplete pending reclassification of documents from groups H01R 4/4809, H01R 4/48185, H01R 4/48275 and H01R 4/48365.

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

- M H01R 4/4821 . . . {Single-blade spring}

WARNING

Group H01R 4/4821 is incomplete pending reclassification of documents from groups H01R 4/4809, H01R 4/48185, H01R 4/48275, H01R 4/48365 and H01R 4/48455.

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

- M H01R 4/4823 . . . {Multiblade spring}

WARNING

Group H01R 4/4823 is incomplete pending reclassification of documents from groups H01R 4/4809, H01R 4/48185, H01R 4/48275, H01R 4/48365 and H01R 4/48455.

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

- M H01R 4/4826 . . . {and having a hole for the conductor, e.g. a wire, passing through}

WARNING

Group H01R 4/4826 is incomplete pending reclassification of documents from groups H01R 4/4809, H01R 4/48185, H01R 4/48275, H01R 4/48365 and H01R 4/48455.

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

- M H01R 4/48275 . . . {with an opening in the housing for insertion of a release tool}

WARNING

Group H01R 4/48275 is impacted by reclassification into groups H01R 4/4811, H01R 4/4814, H01R 4/4816, H01R 4/4819, H01R 4/4821, H01R 4/4823, H01R 4/4826, H01R 4/4828, H01R 4/483, H01R 4/4833, H01R 4/4835, H01R 4/4837, H01R 4/484, H01R 4/4842, H01R 4/4844, H01R 4/4846, H01R 4/4848, H01R 4/485 and H01R 4/4852.

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

- M H01R 4/4828      . . . {Spring-activating arrangements mounted on or integrally formed with the spring housing}
- WARNING  
Groups H01R 4/4828, H01R 4/483, H01R 4/4833, H01R 4/4835 and H01R 4/4837 are incomplete pending reclassification of documents from groups H01R 4/4809, H01R 4/48185, H01R 4/48275, H01R 4/48365 and H01R 4/48455.  
All groups listed in this Warning should be considered in order to perform a complete search.
- M H01R 4/48365      . . . {with integral release means}
- WARNING  
Group H01R 4/48365 is impacted by reclassification into groups H01R 4/4811, H01R 4/4814, H01R 4/4816, H01R 4/4819, H01R 4/4821, H01R 4/4823, H01R 4/4826, H01R 4/4828, H01R 4/483, H01R 4/4833, H01R 4/4835, H01R 4/4837, H01R 4/484, H01R 4/4842, H01R 4/4844, H01R 4/4846, H01R 4/4848, H01R 4/485 and H01R 4/4852.  
All groups listed in this Warning should be considered in order to perform a complete search.
- M H01R 4/484      . . . {Spring housing details}
- WARNING  
Groups H01R 4/484, H01R 4/4842 and H01R 4/4844 are incomplete pending reclassification of documents from groups H01R 4/4809, H01R 4/48185, H01R 4/48275, H01R 4/48365 and H01R 4/48455.  
All groups listed in this Warning should be considered in order to perform a complete search.
- M H01R 4/48455      . . . {insertion of a wire only possible by pressing on the spring}
- WARNING  
Group H01R 4/48455 is impacted by reclassification into groups H01R 4/4811, H01R 4/4814, H01R 4/4816, H01R 4/4821, H01R 4/4823, H01R 4/4826, H01R 4/4828, H01R 4/483, H01R 4/4833, H01R 4/4835, H01R 4/4837, H01R 4/484, H01R 4/4842, H01R 4/4844, H01R 4/4846, H01R 4/4848, H01R 4/485 and H01R 4/4852.  
All groups listed in this Warning should be considered in order to perform a complete search.
- M H01R 4/4846      . . . {Busbar details}
- WARNING  
Groups H01R 4/4846, H01R 4/4848, H01R 4/485 and H01R 4/4852 are incomplete pending reclassification of documents from groups H01R 4/4809, H01R 4/48185, H01R 4/48275, H01R 4/48365 and H01R 4/48455.  
All groups listed in this Warning should be considered in order to perform a complete search.

**Project: MP12729 (H04B)**

**U H04B 1/00** Details of transmission systems, not covered by a single one of groups [H04B 3/00](#) - [H04B 13/00](#); Details of transmission systems not characterised by the medium used for transmission

NOTE

In this group, group [H04B 1/0003](#) takes precedence over groups [H04B 1/005](#) - [H04B 1/76](#)

- U H04B 1/06** • Receivers
- U H04B 1/10** • • Means associated with receiver for limiting or suppressing noise or interference
- M H04B 1/1018** • • {noise filters connected between the power supply and the receiver (~~suppression or limitation of noise from electric apparatus H04B 15/00; demodulation H03D; ripple filters H02M 1/14; filters in general 95G, H03H; power supplies H04B 1/1607~~)}

**Project: RP11902-F (H04N)**

**U H04N 5/00** Details of television systems (scanning details or combination thereof with generation of supply voltages [H04N 3/00](#))

- U H04N 5/14** • Picture signal circuitry for video frequency region (cameras or camera modules comprising electronic image sensors, or control thereof [H04N 23/00](#))
- U H04N 5/20** • • Circuitry for controlling amplitude response
- M H04N 5/202** • • • Gamma control (circuits for controlling camera response irrespective of the scene brightness [H04N 23/82](#))

WARNING

Group H04N 5/202 is impacted by reclassification into group H04N 23/82. Groups H04N 5/202 and H04N 23/82 should be considered in order to perform a complete search.

- M H04N 5/30** • Transforming light or analogous information into electric information (scanning details [H04N 3/00](#); cameras or camera modules comprising electronic image sensors, or control thereof [H04N 23/00](#); circuitry of solid-state image sensors [SSIS] or control thereof [H04N 25/00](#))

WARNING

Group H04N 5/30 is impacted by reclassification into group H04N 25/00. Groups H04N 5/30 and H04N 25/00 should be considered in order to perform a complete search.

- M H04N 5/32** • • Transforming X-rays (cameras or camera modules for generating image signals from X-rays [H04N 23/30](#); circuitry of SSIS for transforming X-rays into image signals [H04N 25/30](#))

WARNING

Group H04N 5/32 is impacted by reclassification into groups H04N 23/30 and H04N 25/30. Groups H04N 5/32, H04N 23/30 and H04N 25/30 should be considered in order to perform a complete search.

- M H04N 5/33** • • Transforming infrared radiation (cameras or camera modules for generating image signals from infrared radiation [H04N 23/20](#); circuitry of SSIS for transforming infrared radiation into image signals [H04N 25/20](#))

WARNING

Group H04N 5/33 is impacted by reclassification into groups H04N 23/20, H04N 23/21, H04N 23/23, H04N 25/20 and H04N 25/21.

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

**U H04N 9/00**

**Details of colour television systems**

M H04N 9/64

- Circuits for processing colour signals ([H04N 9/77](#) takes precedence; camera processing pipelines for processing colour signals [H04N 23/84](#))

**WARNING**

Group H04N 9/64 is impacted by reclassification into group H04N 23/84. Groups H04N 9/64 and H04N 23/84 should be considered in order to perform a complete search.

M H04N 9/67

- • for matrixing (camera processing pipelines for matrixing of colour signals [H04N 23/85](#))

**WARNING**

Group H04N 9/67 is impacted by reclassification into group H04N 23/85. Groups H04N 9/67 and H04N 23/85 should be considered in order to perform a complete search.

M H04N 9/68

- • for controlling the amplitude of colour signals, e.g. automatic chroma control circuits ([H04N 9/71](#), [H04N 9/73](#) take precedence; camera processing pipelines for controlling the colour saturation of colour signals [H04N 23/86](#))

**WARNING**

Group H04N 9/68 is impacted by reclassification into group H04N 23/86. Groups H04N 9/68 and H04N 23/86 should be considered in order to perform a complete search.

M H04N 9/69

- • for modifying the colour signals by gamma correction (controlling camera response for colour signals [H04N 23/83](#))

**WARNING**

Group H04N 9/69 is impacted by reclassification into group H04N 23/83. Groups H04N 9/69 and H04N 23/83 should be considered in order to perform a complete search.

M H04N 9/72

- • for reinsertion of DC and slowly varying components of colour signals (camera processing pipelines for reinsertion of DC or slowly varying components of colour signals [H04N 23/87](#))

**WARNING**

Group H04N 9/72 is impacted by reclassification into group H04N 23/87. Groups H04N 9/72 and H04N 23/87 should be considered in order to perform a complete search.

M H04N 9/73

- • Colour balance circuits, e.g. white balance circuits or colour temperature control (camera processing pipelines for colour balance [H04N 23/88](#))

**WARNING**

Group H04N 9/73 is impacted by reclassification into group H04N 23/88. Groups H04N 9/73 and H04N 23/88 should be considered in order to perform a complete search.

**M H04N 23/00**

**Cameras or camera modules comprising electronic image sensors; Control thereof**

**WARNING**

Group H04N 23/00 is impacted by reclassification into groups H04N 23/95, H04N 23/955 and H04N 23/958.

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

M H04N 23/10

- for generating image signals from different wavelengths

WARNING

Group H04N 23/10 is impacted by reclassification into groups H04N 23/11, H04N 25/10 and H04N 25/17.

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

M H04N 23/11

- • for generating image signals from visible and infrared light wavelengths

WARNING

Group H04N 23/11 is incomplete pending reclassification of documents from group H04N 23/10.

Group H04N 23/11 is also impacted by reclassification into group H04N 25/131.

Groups H04N 23/10, H04N 23/11 and H04N 25/131 should be considered in order to perform a complete search.

M H04N 23/20

- for generating image signals from infrared radiation only

WARNING

Groups H04N 23/20, H04N 23/21 and H04N 23/23 are incomplete pending reclassification of documents from group H04N 5/33.

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

M H04N 23/30

- for generating image signals from X-rays

WARNING

Group H04N 23/30 is incomplete pending reclassification of documents from group H04N 5/32.

Groups H04N 5/32 and H04N 23/30 should be considered in order to perform a complete search.

M H04N 23/80

- Camera processing pipelines; Components thereof

WARNING

Group H04N 23/80 is impacted by reclassification into groups H04N 23/90, H04N 23/95, H04N 23/951, H04N 23/955, H04N 23/957, H04N 23/958 and H04N 23/959.

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

M H04N 23/82

- • for controlling camera response irrespective of the scene brightness, e.g. gamma correction

WARNING

Group H04N 23/82 is incomplete pending reclassification of documents from group H04N 5/202.

Groups H04N 5/202 and H04N 23/82 should be considered in order to perform a complete search.

M H04N 23/83

- • specially adapted for colour signals

WARNING

Group H04N 23/83 is incomplete pending reclassification of documents from group H04N 9/69.

Groups H04N 9/69 and H04N 23/83 should be considered in order to perform a complete search.

M	H04N 23/84	<ul style="list-style-type: none"> <li>• for processing colour signals</li> </ul> <p><u>WARNING</u> Group H04N 23/84 is incomplete pending reclassification of documents from group H04N 9/64. Groups H04N 9/64 and H04N 23/84 should be considered in order to perform a complete search.</p>
M	H04N 23/85	<ul style="list-style-type: none"> <li>• for matrixing</li> </ul> <p><u>WARNING</u> Group H04N 23/85 is incomplete pending reclassification of documents from group H04N 9/67. Groups H04N 9/67 and H04N 23/85 should be considered in order to perform a complete search.</p>
M	H04N 23/86	<ul style="list-style-type: none"> <li>• for controlling the colour saturation of colour signals, e.g. automatic chroma control circuits</li> </ul> <p><u>WARNING</u> Group H04N 23/86 is incomplete pending reclassification of documents from group H04N 9/68. Groups H04N 9/68 and H04N 23/86 should be considered in order to perform a complete search.</p>
M	H04N 23/87	<ul style="list-style-type: none"> <li>• for reinsertion of DC or slowly varying components of colour signals</li> </ul> <p><u>WARNING</u> Group H04N 23/87 is incomplete pending reclassification of documents from group H04N 9/72. Groups H04N 9/72 and H04N 23/87 should be considered in order to perform a complete search.</p>
M	H04N 23/88	<ul style="list-style-type: none"> <li>• for colour balance, e.g. white-balance circuits or colour temperature control</li> </ul> <p><u>WARNING</u> Group H04N 23/88 is incomplete pending reclassification of documents from group H04N 9/73. Groups H04N 9/73 and H04N 23/88 should be considered in order to perform a complete search.</p>
M	H04N 23/90	<ul style="list-style-type: none"> <li>• Arrangement of cameras or camera modules, e.g. multiple cameras in TV studios or sports stadiums</li> </ul> <p><u>WARNING</u> Group H04N 23/90 is incomplete pending reclassification of documents from group H04N 23/80. Groups H04N 23/80 and H04N 23/90 should be considered in order to perform a complete search.</p>
M	H04N 23/95	<ul style="list-style-type: none"> <li>• Computational photography systems, e.g. light-field imaging systems</li> </ul> <p><u>WARNING</u> Groups H04N 23/95, H04N 23/955 and H04N 23/958 are incomplete pending reclassification of documents from groups H04N 23/00 and H04N 23/80. All groups listed in this Warning should be considered in order to perform a complete search.</p>

M	H04N 23/951	<ul style="list-style-type: none"> <li>• by using two or more images to influence resolution, frame rate or aspect ratio</li> </ul> <p><u>WARNING</u> Group H04N 23/951 is incomplete pending reclassification of documents from group H04N 23/80. Groups H04N 23/80 and H04N 23/951 should be considered in order to perform a complete search.</p>
M	H04N 23/955	<ul style="list-style-type: none"> <li>• for lensless imaging</li> </ul> <p><u>WARNING</u> Group H04N 23/955 is incomplete pending reclassification of documents from group H04N 23/00. Groups H04N 23/00 and H04N 23/955 should be considered in order to perform a complete search.</p>
M	H04N 23/957	<ul style="list-style-type: none"> <li>• Light-field or plenoptic cameras or camera modules</li> </ul> <p><u>WARNING</u> Group H04N 23/957 is incomplete pending reclassification of documents from group H04N 23/80. Groups H04N 23/80 and H04N 23/957 should be considered in order to perform a complete search.</p>
M	H04N 23/958	<ul style="list-style-type: none"> <li>• for extended depth of field imaging</li> </ul> <p><u>WARNING</u> Group H04N 23/958 is incomplete pending reclassification of documents from group H04N 23/00. Groups H04N 23/00 and H04N 23/958 should be considered in order to perform a complete search.</p>
M	H04N 23/959	<ul style="list-style-type: none"> <li>• by adjusting depth of field during image capture, e.g. maximising or setting range based on scene characteristics</li> </ul> <p><u>WARNING</u> Group H04N 23/959 is incomplete pending reclassification of documents from group H04N 23/80. Groups H04N 23/80 and H04N 23/959 should be considered in order to perform a complete search.</p>
M	H04N 25/00	<p><b>Circuitry of solid-state image sensors [SSIS]; Control thereof</b></p> <p><u>WARNING</u></p> <p>1. Group <del>H04N 25/00</del> is, <del>H04N 25/10, H04N 25/11, H04N 25/13, H04N 25/131, H04N 25/133, H04N 25/134, H04N 25/135, H04N 25/136, H04N 25/17, H04N 25/20, H04N 25/21, H04N 25/30, H04N 25/70, H04N 25/702, H04N 25/703, H04N 25/704, H04N 25/705, H04N 25/706, H04N 25/707, H04N 25/708, H04N 25/709 and H04N 25/79</del> are incomplete pending reclassification of documents from group <del>H04N 5/30</del> <del>H04N 3/15</del>. Groups <del>All H04N 5/30 and groups listed H04N 25/00</del> in this Warning should be considered in order to perform a complete search.</p> <p>2. Groups <del>H04N 25/00, H04N 25/10, H04N 25/11, H04N 25/13, H04N 25/131, H04N 25/133, H04N 25/134, H04N 25/135, H04N 25/136, H04N 25/17, H04N 25/20, H04N 25/21, H04N 25/30, H04N 25/70, H04N 25/702, H04N 25/703, H04N 25/704, H04N 25/705, H04N 25/706, H04N 25/707, H04N 25/708, H04N 25/709 and H04N 25/79</del> are incomplete pending reclassification of documents from group <del>H04N 3/15</del>.</p>



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

M H04N 25/10

- for transforming different wavelengths into image signals

WARNING

Groups H04N 25/10 and H04N 25/17 are incomplete pending reclassification of documents from group H04N 23/10.

Groups H04N 23/10, H04N 25/10 and H04N 25/17 should be considered in order to perform a complete search.

U H04N 25/11

- • Arrangement of colour filter arrays [CFA]; Filter mosaics

U H04N 25/13

- • • characterised by the spectral characteristics of the filter elements

M H04N 25/131

- • • including elements passing infrared wavelengths

WARNING

Group H04N 25/131 is incomplete pending reclassification of documents from group H04N 23/11.

Groups H04N 23/11 and H04N 25/131 should be considered in order to perform a complete search.

M H04N 25/20

- for transforming only infrared radiation into image signals

WARNING

Groups H04N 25/20 and H04N 25/21 are incomplete pending reclassification of documents from group H04N 5/33.

Groups H04N 5/33, H04N 25/20 and H04N 25/21 should be considered in order to perform a complete search.

M H04N 25/30

- for transforming X-rays into image signals

WARNING

Group H04N 25/30 is incomplete pending reclassification of documents from group H04N 5/32.

Groups H04N 5/32 and H04N 25/30 should be considered in order to perform a complete search.

M H04N 25/40

- Extracting pixel data from image sensors by controlling scanning circuits, e.g. by modifying the number of pixels sampled or to be sampled

WARNING

1. Group H04N 25/40 is impacted by reclassification into group H04N 25/47.

Groups H04N 25/40 and H04N 25/47 should be considered in order to perform a complete search.

2. 1. Groups [H04N 25/40](#), [H04N 25/41](#), [H04N 25/42](#), [H04N 25/44](#), [H04N 25/441](#), [H04N 25/443](#), [H04N 25/445](#), [H04N 25/447](#) and [H04N 25/46](#) are incomplete pending reclassification of documents from groups [H04N 3/155](#) and [H04N 3/1562](#).

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

M H04N 25/47

- Image sensors with pixel address output; Event-driven image sensors; Selection of pixels to be read out based on image data

WARNING

Group [H04N 25/47](#) is incomplete pending reclassification of documents from ~~groups~~[group H04N 3/155](#) and ~~H04N 25/40~~.

Groups [H04N 3/155](#), ~~H04N 25/40~~ and [H04N 25/47](#) should be considered in order to perform a complete search.

M	H04N 25/50	<ul style="list-style-type: none"> <li>Control of the SSIS exposure</li> </ul> <p><u>WARNING</u></p> <p><del>1. Group H04N 25/50 is impacted by reclassification into group H04N 25/51. Groups H04N 25/50 and H04N 25/51 should be considered in order to perform a complete search.</del></p> <p><del>2.</del> <u>1. Groups <a href="#">H04N 25/50</a>, <a href="#">H04N 25/51</a>, <a href="#">H04N 25/53</a>, <a href="#">H04N 25/531</a>, <a href="#">H04N 25/532</a>, <a href="#">H04N 25/533</a>, <a href="#">H04N 25/534</a>, <a href="#">H04N 25/535</a>, <a href="#">H04N 25/57</a>, <a href="#">H04N 25/571</a>, <a href="#">H04N 25/573</a>, <a href="#">H04N 25/575</a>, <a href="#">H04N 25/58</a>, <a href="#">H04N 25/581</a>, <a href="#">H04N 25/583</a>, <a href="#">H04N 25/585</a>, <a href="#">H04N 25/587</a>, <a href="#">H04N 25/589</a> and <a href="#">H04N 25/59</a> are incomplete pending reclassification of documents from groups <a href="#">H04N 3/155</a> and <a href="#">H04N 3/1556</a>.</u></p> <p>All groups listed in this Warning should be considered in order to perform a complete search.</p>
M	H04N 25/51	<ul style="list-style-type: none"> <li>Control of the gain</li> </ul> <p><u>WARNING</u></p> <p><del>Group H04N 25/51 is incomplete pending reclassification of documents from group H04N 25/50. Groups H04N 25/50 and H04N 25/51 should be considered in order to perform a complete search.</del></p>
M	H04N 25/53	<ul style="list-style-type: none"> <li>Control of the integration time</li> </ul> <p><u>WARNING</u></p> <p><del>Group H04N 25/53 is impacted by reclassification into group H04N 25/532. Groups H04N 25/53 and H04N 25/532 should be considered in order to perform a complete search.</del></p>
M	H04N 25/532	<ul style="list-style-type: none"> <li>by controlling global shutters in CMOS SSIS</li> </ul> <p><u>WARNING</u></p> <p><del>Group H04N 25/532 is incomplete pending reclassification of documents from group H04N 25/53. Groups H04N 25/53 and H04N 25/532 should be considered in order to perform a complete search.</del></p>
M	H04N 25/533	<ul style="list-style-type: none"> <li>by using differing integration times for different sensor regions</li> </ul> <p><u>WARNING</u></p> <p><del>Group H04N 25/533 is impacted by reclassification into group H04N 25/535. Groups H04N 25/533 and H04N 25/535 should be considered in order to perform a complete search.</del></p>
M	H04N 25/535	<ul style="list-style-type: none"> <li>by dynamic region selection</li> </ul> <p><u>WARNING</u></p> <p><del>Group H04N 25/535 is incomplete pending reclassification of documents from group H04N 25/533. Groups H04N 25/533 and H04N 25/535 should be considered in order to perform a complete search.</del></p>
M	H04N 25/60	<ul style="list-style-type: none"> <li>Noise processing, e.g. detecting, correcting, reducing or removing noise</li> </ul> <p><u>WARNING</u></p> <p><del>1. Group H04N 25/60 is impacted by reclassification into groups H04N 25/61–H04N 25/69.</del></p>

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

2.-1. Groups H04N 25/60 - H04N 25/69 are incomplete pending reclassification of documents from group H04N 3/1568.

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

- M H04N 25/61
- the noise originating only from the lens unit, e.g. flare, shading, vignetting or "cos4"

WARNING

Groups H04N 25/61, H04N 25/611, H04N 25/615 and H04N 25/6153 are incomplete pending reclassification of documents from group H04N 25/60. All groups listed in this Warning should be considered in order to perform a complete search.

- M H04N 25/616
- involving a correlated sampling function, e.g. correlated double sampling [CDS] or triple sampling

WARNING

Group H04N 25/616 is incomplete pending reclassification of documents from group H04N 25/60. Groups H04N 25/60 and H04N 25/616 should be considered in order to perform a complete search.

- M H04N 25/617
- for reducing electromagnetic interference, e.g. clocking noise

WARNING

Group H04N 25/617 is incomplete pending reclassification of documents from group H04N 25/60. Groups H04N 25/60 and H04N 25/617 should be considered in order to perform a complete search.

- M H04N 25/618
- for random or high-frequency noise

WARNING

Group H04N 25/618 is incomplete pending reclassification of documents from group H04N 25/60. Groups H04N 25/60 and H04N 25/618 should be considered in order to perform a complete search.

- M H04N 25/62
- Detection or reduction of noise due to excess charges produced by the exposure, e.g. smear, blooming, ghost image, crosstalk or leakage between pixels

WARNING

Group H04N 25/62 is incomplete pending reclassification of documents from group H04N 25/60. Group H04N 25/62 is also impacted by reclassification into groups H04N 25/621, H04N 25/622, H04N 25/623, H04N 25/625, H04N 25/626, H04N 25/627 and H04N 25/628. All groups listed in this Warning should be considered in order to perform a complete search.

- M H04N 25/621
- for the control of blooming

WARNING

Groups H04N 25/621, H04N 25/622 and H04N 25/623 are incomplete pending reclassification of documents from groups H04N 25/60 and H04N 25/62.

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

- M H04N 25/625
- • for the control of smear

WARNING

Group H04N 25/625 is incomplete pending reclassification of documents from groups H04N 25/60 and H04N 25/62.  
Groups H04N 25/60, H04N 25/62 and H04N 25/625 should be considered in order to perform a complete search.

- M H04N 25/626
- • Reduction of noise due to residual charges remaining after image readout, e.g. to remove ghost images or afterimages

WARNING

Group H04N 25/626 is incomplete pending reclassification of documents from groups H04N 25/60 and H04N 25/62.  
Groups H04N 25/60, H04N 25/62 and H04N 25/626 should be considered in order to perform a complete search.

- M H04N 25/627
- • Detection or reduction of inverted contrast or eclipsing effects

WARNING

Group H04N 25/627 is incomplete pending reclassification of documents from groups H04N 25/60 and H04N 25/62.  
Groups H04N 25/60, H04N 25/62 and H04N 25/627 should be considered in order to perform a complete search.

- M H04N 25/628
- • for reducing horizontal stripes caused by saturated regions of CMOS sensors

WARNING

Group H04N 25/628 is incomplete pending reclassification of documents from groups H04N 25/60 and H04N 25/62.  
Groups H04N 25/60, H04N 25/62 and H04N 25/628 should be considered in order to perform a complete search.

- M H04N 25/63
- • applied to dark current

WARNING

Group H04N 25/63 is incomplete pending reclassification of documents from group H04N 25/60.  
Group H04N 25/63 is also impacted by reclassification into groups H04N 25/633, H04N 25/67, H04N 25/671, H04N 25/672, H04N 25/673, H04N 25/674, H04N 25/677, H04N 25/68 and H04N 25/683.  
All groups listed in this Warning should be considered in order to perform a complete search.

- M H04N 25/633
- • by using optical black pixels

WARNING

Group H04N 25/633 is incomplete pending reclassification of documents from groups H04N 25/60 and H04N 25/63.  
Groups H04N 25/60, H04N 25/63 and H04N 25/633 should be considered in order to perform a complete search.

- M H04N 25/65
- • applied to reset noise, e.g. KTC noise related to CMOS structures by techniques other than CDS

WARNING

Group H04N 25/65 is incomplete pending reclassification of documents from group H04N 25/60.

Groups H04N 25/60 and H04N 25/65 should be considered in order to perform a complete search.

M H04N 25/67

- applied to fixed-pattern noise, e.g. non-uniformity of response

WARNING

Group H04N 25/67 is incomplete pending reclassification of documents from groups H04N 25/60 and H04N 25/63.

Group H04N 25/67 is also impacted by reclassification into groups H04N 25/671, H04N 25/672, H04N 25/673, H04N 25/674, H04N 25/677, H04N 25/68 and H04N 25/683.

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

M H04N 25/671

- for non-uniformity detection or correction

WARNING

Groups H04N 25/671, H04N 25/672, H04N 25/673, H04N 25/674 and H04N 25/677 are incomplete pending reclassification of documents from groups H04N 25/60, H04N 25/63 and H04N 25/67.

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

M H04N 25/68

- applied to defects

WARNING

Group H04N 25/68 is incomplete pending reclassification of documents from groups H04N 25/60, H04N 25/63 and H04N 25/67.

Group H04N 25/68 is also impacted by reclassification into group H04N 25/69.

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

M H04N 25/683

- by defect estimation performed on the scene signal, e.g. real time or on the fly detection

WARNING

Group H04N 25/683 is incomplete pending reclassification of documents from groups H04N 25/60, H04N 25/63 and H04N 25/67.

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

M H04N 25/69

- SSIS comprising testing or correcting structures for circuits other than pixel cells

WARNING

Group H04N 25/69 is incomplete pending reclassification of documents from groups H04N 25/60 and H04N 25/68.

Groups H04N 25/60, H04N 25/68 and H04N 25/69 should be considered in order to perform a complete search.

U H04N 25/70

- SSIS architectures; Circuits associated therewith

M H04N 25/702

- SSIS architectures characterised by non-identical, non-equidistant or non-planar pixel layout

WARNING

Group H04N 25/702 is impacted by reclassification into groups H04N 25/703, H04N 25/706, H04N 25/707 and H04N 25/708.

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

M	H04N 25/703	<ul style="list-style-type: none"> <li>• SSIS architectures incorporating pixels for producing signals other than image signals</li> </ul> <p><u>WARNING</u> Groups H04N 25/703, H04N 25/706, H04N 25/707 and H04N 25/708 are incomplete pending reclassification of documents from group H04N 25/702. All groups listed in this Warning should be considered in order to perform a complete search.</p>
U	H04N 25/71	<ul style="list-style-type: none"> <li>• Charge-coupled device [CCD] sensors; Charge-transfer registers specially adapted for CCD sensors</li> </ul> <p><u>WARNING</u> Group H04N 25/71 is incomplete pending reclassification of documents from group H04N 3/1525. Groups H04N 3/1525 and H04N 25/71 should be considered in order to perform a complete search.</p>
M	H04N 25/74	<ul style="list-style-type: none"> <li>• Circuitry for scanning or addressing the pixel array</li> </ul> <p><u>WARNING</u> Group H04N 25/74 is impacted by reclassification into group H04N 25/779. Groups H04N 25/74 and H04N 25/779 should be considered in order to perform a complete search.</p>
M	H04N 25/745	<ul style="list-style-type: none"> <li>• {Circuitry for generating timing or clock signals}</li> </ul> <p><u>WARNING</u> Group H04N 25/745 is impacted by reclassification into group H04N 25/7795. Groups H04N 25/745 and H04N 25/7795 should be considered in order to perform a complete search.</p>
M	H04N 25/75	<ul style="list-style-type: none"> <li>• Circuitry for providing, modifying or processing image signals from the pixel array</li> </ul> <p><u>WARNING</u> Group H04N 25/75 is impacted by reclassification into group H04N 25/78. Groups H04N 25/75 and H04N 25/78 should be considered in order to perform a complete search.</p>
U	H04N 25/76	<ul style="list-style-type: none"> <li>• Addressed sensors, e.g. MOS or CMOS sensors</li> </ul> <p><u>WARNING</u> Groups H04N 25/76, H04N 25/766, H04N 25/767, H04N 25/768, H04N 25/77, H04N 25/771, H04N 25/772, H04N 25/773, H04N 25/778, H04N 25/779, H04N 25/7795 and H04N 25/78 are incomplete pending reclassification of documents from groups H04N 3/1506 and H04N 3/1512. All groups listed in this Warning should be considered in order to perform a complete search.</p>
U	H04N 25/77	<ul style="list-style-type: none"> <li>• Pixel circuitry, e.g. memories, A/D converters, pixel amplifiers, shared circuits or shared components</li> </ul>
M	H04N 25/772	<ul style="list-style-type: none"> <li>• comprising A/D, V/T, V/F, I/T or I/F converters</li> </ul> <p><u>WARNING</u> Group H04N 25/772 is impacted by reclassification into group H04N 25/773. Groups H04N 25/772 and H04N 25/773 should be considered in order to perform a complete search.</p>

- M H04N 25/773
- • • • comprising photon counting circuits, e.g. single photon detection [SPD] or single photon avalanche diodes [SPAD]
- WARNING  
Group H04N 25/773 is incomplete pending reclassification of documents from group H04N 25/772.  
Groups H04N 25/772 and H04N 25/773 should be considered in order to perform a complete search.
- M H04N 25/779
- • • Circuitry for scanning or addressing the pixel array
- WARNING  
Group H04N 25/779 is incomplete pending reclassification of documents from group H04N 25/74.  
Groups H04N 25/74 and H04N 25/779 should be considered in order to perform a complete search.
- M H04N 25/7795
- • • {Circuitry for generating timing or clock signals}
- WARNING  
Group H04N 25/7795 is incomplete pending reclassification of documents from group H04N 25/745.  
Groups H04N 25/745 and H04N 25/7795 should be considered in order to perform a complete search.
- M H04N 25/78
- • • Readout circuits for addressed sensors, e.g. output amplifiers or A/D converters
- WARNING  
Group H04N 25/78 is incomplete pending reclassification of documents from group H04N 25/75.  
Groups H04N 25/75 and H04N 25/78 should be considered in order to perform a complete search.

## Project: RP11832 (H04W)

- C H04W 60/00
- Affiliation to network, e.g. registration; Terminating affiliation with the network, e.g. de-registration**
- WARNING  
Group H04W 60/00 is impacted by reclassification into groups H04W 60/001 and H04W 60/002.  
Groups H04W 60/00, H04W 60/001 and H04W 60/002 should be considered in order to perform a complete search.
- N H04W 60/001
- {Registration rejection or failure}
- WARNING  
Group H04W 60/001 is incomplete pending reclassification of documents from groups H04W 60/00, H04W 60/005, H04W 60/02 and H04W 60/04.  
All groups listed in this Warning should be considered in order to perform a complete search.
- N H04W 60/002
- {Registration for requesting network slices}
- WARNING  
Group H04W 60/002 is incomplete pending reclassification of documents from groups H04W 60/00, H04W 60/005, H04W 60/02 and H04W 60/04.  
All groups listed in this Warning should be considered in order to perform a complete search.



- C H04W 60/005 • {Multiple registrations, e.g. multihoming}

WARNING

*Group H04W 60/005 is impacted by reclassification into groups H04W 60/001 and H04W 60/002.*

*Groups H04W 60/005, H04W 60/001 and H04W 60/002 should be considered in order to perform a complete search.*

- C H04W 60/02 • by periodical registration

WARNING

*Group H04W 60/02 is impacted by reclassification into groups H04W 60/001 and H04W 60/002.*

*Groups H04W 60/02, H04W 60/001 and H04W 60/002 should be considered in order to perform a complete search.*

- C H04W 60/04 • using triggered events

WARNING

*Group H04W 60/04 is impacted by reclassification into groups H04W 60/001 and H04W 60/002.*

*Groups H04W 60/04, H04W 60/001 and H04W 60/002 should be considered in order to perform a complete search.*