## CPC - 2019.08

### A47B

**COOPERATIVE PATENT CLASSIFICATION**

### A HUMAN NECESSITIES

#### PERSONAL OR DOMESTIC ARTICLES

**A47**  
**FURNITURE; DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL**  
*(NOTE omitted)*

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

**NOTE**  
In this subclass, the following terms are used with the meanings indicated:  
- "tables" covers also tables or underframes therefor for other than domestic use;  
- "cabinets" or "racks" covers also cabinets or racks for storage in general.

**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: A47B 21/013 and subgroups are covered by A47B 21/00 and subgroups  
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.

### Tables or desks characterised by structural features

<table>
<thead>
<tr>
<th>1/00</th>
<th>Extensible tables (extensible shelf units A47B 46/00)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001/005</td>
<td>. (with double drop-leaf with support legs rotating around a vertical axis)</td>
</tr>
<tr>
<td>1/02</td>
<td>. with insertable leaves {arranged in the centre} and fixed frames</td>
</tr>
<tr>
<td>2001/025</td>
<td>. . (the outer leaves moved simultaneously by a pulley and cable system)</td>
</tr>
<tr>
<td>1/03</td>
<td>. . the leaves being foldable or revolvable</td>
</tr>
<tr>
<td>2001/035</td>
<td>. . . (the extension leaves being unfoldable)</td>
</tr>
<tr>
<td>1/04</td>
<td>. with supplementary leaves or drop leaves {arranged at the periphery (A47B 1/08 takes precedence)}</td>
</tr>
<tr>
<td>1/05</td>
<td>. . . the leaves being extensible by drawing-out</td>
</tr>
<tr>
<td>2001/053</td>
<td>. . . [and liftable to the same height as the main table leaf]</td>
</tr>
<tr>
<td>1/056</td>
<td>. . . [the leaves forming an outer ring]</td>
</tr>
<tr>
<td>1/06</td>
<td>. with flexible roll-tops</td>
</tr>
<tr>
<td>1/08</td>
<td>. with extensible frames {or with additional legs}</td>
</tr>
<tr>
<td>2001/085</td>
<td>. . . (with draw-leaf supported by additional legs)</td>
</tr>
<tr>
<td>1/10</td>
<td>. Slide mechanisms</td>
</tr>
<tr>
<td>2001/105</td>
<td>. . . [with rack and pinion gearing]</td>
</tr>
<tr>
<td>3/00</td>
<td>Folding or stowable tables (folded and suspended or hinged, or wall tables A47B 5/04)</td>
</tr>
<tr>
<td>3/002</td>
<td>. (with foldable underframe)</td>
</tr>
<tr>
<td>2003/004</td>
<td>. . . [of the umbrella (type)]</td>
</tr>
<tr>
<td>2003/006</td>
<td>. . . [having X/Y-crossed legs rotating around a central vertical axis]</td>
</tr>
<tr>
<td>2003/008</td>
<td>. . . (the underframe parts being stored in recesses in the underside of the table top)</td>
</tr>
<tr>
<td>3/02</td>
<td>. with foldable cross legs (adjustable for varying height of tops A47B 9/16)</td>
</tr>
<tr>
<td>2003/025</td>
<td>. . . (pivoting to a position underneath the tabletop)</td>
</tr>
<tr>
<td>3/04</td>
<td>. with flexible roll-tops</td>
</tr>
</tbody>
</table>

| 2003/045 | . . (and crossed legs) |
| 3/06 | . with separable parts |

**WARNING**  
Group A47B 3/06 is impacted by reclassification into group A47B 3/063. Groups A47B 3/06 and A47B 3/063 should be considered in order to perform a complete search.

| 3/063 | . . [combined with seats] |

**WARNING**  
Group A47B 3/063 is incomplete pending reclassification of documents from groups A47B 3/06 and A47B 83/02. Groups A47B 3/063, A47B 3/06, and A47B 83/02 should be considered in order to perform a complete search.

| 3/08 | . with legs pivoted to top or underframe |
| 3/0803 | . . (the legs rotating around a vertical axis (A47B 3/083, A47B 3/087 and A47B 3/091 take precedence)) |
| 2003/0806 | . . . [and the table top rotating around a horizontal axis] |
| 3/0809 | . . . (with elastic locking means (A47B 3/083, A47B 3/087 and A47B 3/091 take precedence)) |
| 3/0812 | . . . [the resilient force of the elastic locking means acting in a direction parallel to the axis of rotation of the leg] |
| 3/0815 | . . . [the resilient force of the elastic locking means acting in a direction perpendicular to the axis of rotation of the leg] |
Tables or desks characterised by structural features

3/083 . . . with foldable top leaves
3/083/003 . . . {being superimposed, hinged and foldable}
3/087 . . . with struts supporting the legs
3/091 . . . with struts supporting the legs (in combination with foldable top leaves A47B 3/087)
3/0911 . . . {the struts being permanently connected to top and leg or underframe and leg}
3/0912 . . . {the strut being of two parts foldable relative to one another}
3/0913 . . . {the strut being of two parts slidable relative to one another, e.g. telescopic struts}
3/0915 . . . {the strut having a linear sliding connection with the leg}
3/0916 . . . {the strut having a linear sliding connection with the top or underframe}
3/0917 . . . {the struts being permanently connected by pivots to the top or underframe only}
3/0918 . . . {the struts being permanently connected by pivots to the legs only}
3/10 . Travelling or trunk tables
3/12 . Stowable tables with detachable top leaves
3/14 . Foldable table and seat units

WARNING

Group A47B 3/14 is incomplete pending reclassification of documents from group A47B 83/02. Groups A47B 3/14 and A47B 83/02 should be considered in order to perform a complete search.

3/038/003  . . . {with manually actuated locking means (A47B 3/083; A47B 3/087 and A47B 3/091 take precedence)}
2003/082 . . . {the leg holder being mounted to underside of the table top}
2003/0824 . . . {the table legs being individually collapsible against the underside of the table top}
2003/0827 . . . {having means for holding U-shaped legs in storage position, i.e. parallel to the underside of the table top}
3/083 . . . with foldable top leaves
2003/0835 . . . {being superimposed, hinged and foldable}
3/087 . . . with struts supporting the legs
3/091 . . . with struts supporting the legs (in combination with foldable top leaves A47B 3/087)
3/0911 . . . {the struts being permanently connected to top and leg or underframe and leg}
3/0912 . . . {the strut being of two parts foldable relative to one another}
3/0913 . . . {the strut being of two parts slidable relative to one another, e.g. telescopic struts}
3/0915 . . . {the strut having a linear sliding connection with the leg}
3/0916 . . . {the strut having a linear sliding connection with the top or underframe}
3/0917 . . . {the struts being permanently connected by pivots to the top or underframe only}
3/0918 . . . {the struts being permanently connected by pivots to the legs only}
3/10 . Travelling or trunk tables
3/12 . Stowable tables with detachable top leaves
3/14 . Foldable table and seat units

WARNING

Group A47B 3/14 is incomplete pending reclassification of documents from group A47B 83/02. Groups A47B 3/14 and A47B 83/02 should be considered in order to perform a complete search.

2003/145 . . . {with folding table top}
5/00 Suspended or hinged panels forming a table; Wall tables (bed tables A47B 23/00: adapted for use in vehicles A47B 31/06); in combination with other furniture A47B 83/00; arm-rest tables for chairs A47C)
2005/003 . . . {Ceiling suspended tables}
5/006 . {brought into operative position through a combination of translational and rotational movement}
5/02 . detachable
5/04 . foldable
5/06 . with legs for supporting the table on the floor { (tables combined with cabinets A47B 83/045) }

7/00 Tables of rigid construction
7/02 . Stackable tables; Nesting tables
9/00 Tables with tops of variable height { (lecterns with variable height A47B 19/06; school forms or desks with variable height A47B 39/02; A47B 41/02); seats with variable height A47C 3/20) }
Tables or desks characterised by structural features

19/00 Reading-desks; Lecterns; Pulpits (i.e. freestanding)
19/002 . [Free-standing music stands (leaf turners or devices for holding books open B42D 9/00; movable strip reading apparatus B42D 9/00)]
23/00 Bed-tables; Trays; Reading-racks; Book-rests, (i.e. items used in combination with something else)
23/001 . [Trays, e.g. with foldable legs]
23/002 . [supported only by a person]
23/004 . [Not free-standing music stands]
23/005 . [Laptop cases with folding legs forming a table]
23/007 . [Overhead reading-racks or book-rests]
23/008 . [having a transparent book support]
23/02 . [releasably mounted on the bedstead (or another item of furniture)]
23/025 . [mounted on the bedstead]
23/04 . [supported from table, floor or wall]
23/041 . [with a part resting on the floor and another leaning on the person]
23/042 . [Book-rests or note-book holders resting on tables (releasably mounted A47B 23/02)]
23/043 . [adjustable, foldable]
23/044 . . . [only foldable]
23/045 . [made of metal wires]
23/046 . [C-shaped bed tables, e.g. foldable]
23/047 . . . [with pivoting top plate]
23/048 . [U-shaped bed tables]
23/049 . [Desk stand for laptop computer]
23/06 . characterised by association with auxiliary devices, e.g. line indicators, leaf turners, lamp holders, {book or page holders} (spot indicators, leaf turners, per se B42D 9/00)
25/00 Card tables; Tables for other games
25/003 . [for table tennis]
25/006 . [with retractable wheels]
27/00 Drawing desks or tables; Carriers for drawing-boards (tables convertible to drawing desks A47B 85/02; easels or stands for blackboards or the like A47B 97/04; drawing-boards B43L 5/00)
27/02 . . . [Adjustable drawing desks without balancing means]
27/04 . . . [Adjustable drawing-board carriers with balancing means for the board]
27/06 . . . balancing by means of springs
27/08 . . . with parallel-link guiding
27/10 . . . balancing by means of weights
27/12 . . . with parallel-link guiding
27/14 . . . adjustable underframes
27/16 . . . hydraulically adjustable

Tables or desks characterised by adaptation for particular purposes (flower tables A47G 7/04; operating tables A61G 13/00; laboratory benches or tables B01L 9/02; work benches or tables B25H; switchboards or switch cubicles for the distribution of electric power H02B, e.g. supervisory desks or panels H02B 15/00))

17/00 Writing-tables
17/003 . (made of metal)
17/006 . (made of wood or the like)
17/02 . with vertically-adjustable parts
17/03 . with substantially horizontally extensible or adjustable parts other than drawers, e.g. leaves
17/033 . . . (with parts added to the original furniture to enlarge its surface)
17/036 . . . (with sliding or unfolding parts other than leaves or drawers)
17/04 . with secret or fireproof compartments [; Trays or the like countersunk in the table top and obturable, e.g. by means of a roller or sliding shutter]
17/06 . with parts, e.g. trays, movable on a pivot or by chains or belts (movable-strip writing or reading apparatus B42D 19/00)
17/065 . . . (Pivoting mounted auxiliary tables)
17/07 . . . (with part resting on the floor and another part resting on the floor)
27/02 . . . (having one double articulated arm)
27/03 . . . (having double articulated arms)
27/04 . . . (incorporated in the desktop)
27/06 . . . balancing by means of springs
27/08 . . . with parallel-link guiding
27/10 . . . balancing by means of weights
27/12 . . . with parallel-link guiding
27/14 . . . adjustable underframes
27/16 . . . hydraulically adjustable

13/16 . . . Holders for glasses, ashtrays, lamps, candles or the like forming part of tables
Tables or desks characterised by adaptation for particular purposes

School benches or desks

39/00 School benches; Benches or forms combined with desks ((table supported by the chair, e.g. arm-rest tables A47C 76/81)

**WARNING**
Group A47B 39/00 is incomplete pending reclassification of documents from group A47B 83/02. Groups A47B 39/00 is also impacted by reclassification into group A47C 76/81.

Groups A47B 83/02, A47B 39/00, and A47C 76/81 should be considered in order to perform a complete search.

27/18 . Locking means, e.g. for locking inclination of board (A47B 27/14 takes precedence)

29/00 Sewing-tables (for industrial use D05B 75/00)

31/00 Service or tea tables, trolleys, or wagons ((serving trays A47G 23/06); features relating to running gear or to movement by hand B62B)

32/00 . (with devices for laying, clearing, cleaning, or the like, a table)

2031/001 . [Catering trolleys]

2031/003 . [ with drawers, trays or shelves]

2031/004 . [having four vertical uprights]

2031/005 . . [ with movable trays]

2031/006 . [Medication carts]

2031/007 . [for carrying plates]

2031/008 . [Outdoor serving carts]

31/02 . with heating, cooling or ventilating means

32/001 . . (being dockable to a stationary refrigeration and heating unit)

32/0026 . . . (having warm and cold compartments)

32/004 . foldable

32/006 . adapted to the use in vehicles ((with a set of feet and a part resting on someone’s lap A47B 23/041; arrangements or adaptations of tables in vehicles B60N 3/001)

33/00 Kitchen or dish-washing tables

35/00 Tables combined with ironing-boards, washers, wringers, or the like (washing machines, ironing boards, wringers per se D06F)

37/00 Tables adapted for other particular purposes ([glass cutting tables C03B 33/03])

2037/005 . [ Tables specially adapted for laboratories]

2037/002 . Tables specially adapted to be used with domestic photographic projectors, e.g. tables with levelling arrangements (tables with adjustable height A47B 9/00); tables with adjustable inclination of the top A47B 13/00, A47B 19/00, A47B 23/00, A47B 27/00)

2037/004 . Tables specially adapted for use in the garden or otherwise in the open air, e.g. with means for holding umbrellas or umbrella-like sunshades

Cabinets; Racks; Shelf units; Similar furniture; Similar features of built-in cupboards (racks for dispensing merchandise A47F 1/00; show-cases or show-cabinets A47F 3/00; racks specially adapted for work-shops B25H 3/04; storing articles in warehouses or magazines B65G 1/00; built-in cupboards as part of a building E04F 19/08; peculiar to housing recording apparatus or records therefor G11B 33/02; (boards or casings for the distribution of electric power H02B 1/26); peculiar to housing electrical apparatus or installations H05K)

43/00 Cabinets, racks or shelf units, characterised by features enabling folding of the cabinet or the like

43/003 . [Suspended shelves, e.g. by means of supple elements]

43/006 . . [fixed on cords, cables, wire or chains]

43/02 . made of cardboard or the like ((travelling wardrobes A47B 61/06; hand-folded from sheet material and specially adapted for display A47F 5/110)

43/04 . made of a rigid frame with walls or door-leaves of textile or the like

45/00 Cabinets, racks or shelf units, characterised by features enabling enlarging in height, length, or depth (sectional furniture A47B 87/00)

46/00 Cabinets, racks or shelf units, having one or more surfaces adapted to be brought into position for use by extending or pivoting (A47B 63/04, A47B 77/10 take precedence; writing tables with extensible leaves A47B 17/03; with extensible garment holders A47B 61/02)
Cabinets, racks or shelf units, characterised by features related to dismountability or building-up from elements (A47F 3/06; A47B 45/00 take precedence; features for adjusting shelves or partitions A47B 57/00)

3. [by displacement in a vertical plane; by rotating about a horizontal axis]

47/00 Cabinets, racks or shelf units, characterised by features related to dismountability or building-up from elements (A47F 3/06; A47B 45/00 take precedence; features for adjusting shelves or partitions A47B 57/00)

47/0008 . [Horizontal connecting members adapted to receive and retain the edges of several panel elements]

47/0016 . [Node corner connectors, e.g. cubic]

47/0025 . [Horizontal connecting members without panels]

47/0033 . . { Corners }

47/0041 . . { Bars }

47/005 . . { Combination of corners and bars }

47/0058 . . { Horizontal connecting members without panels }

47/0066 . . { Formed panels connected without frames (for panels mainly made of wood or plastic A47B 47/042) }

47/0075 . . { Flat or flat-like panels connected without frames (for panels mainly made of wood or plastic A47B 47/042) }

47/0083 . . { with four vertical uprights (for units mainly made of wood or plastic A47B 47/045) }

47/0091 . . { Modular arrangements of similar assemblies of elements (for elements or assemblies mainly made of wood or plastic A47B 47/047, sectional furniture A47B 87/00, stackable furniture A47B 87/02) }

47/02 . made of metal only

47/021 . . . { Racks or shelf units (A47B 47/02 takes precedence) }

47/022 . . . { with cantilever shelves }

47/024 . . . { with shelves between uprights without separate horizontal shelf supports (A47B 47/022 takes precedence) }

47/025 . . . { with panels connected together without three dimensional frames (A47B 47/0025, A47B 47/005, A47B 47/0066, A47B 47/042 takes precedence) }

47/027 . . . { with frames only (A47B 47/0058 takes precedence) }

47/028 . . . . { with crossbars }

47/03 . . . . with panels separate from the frame

47/04 . . made mainly of wood or plastics

47/042 . . . { Panels connected without frames }

47/045 . . . . { with four vertical uprights }

47/047 . . . . { Modular arrangements of similar assemblies of elements }

47/05 . . . with panels on a separate frame, e.g. a metal frame

47/06 . made mainly of cardboard, textile, paper, or the like, e.g. with separate frame of other materials (hand-folded and specially adapted for display A47E 5/116)

49/00 Revolving cabinets or racks; Cabinets or racks with revolving parts ((for show or display A47F 3/06; A47F 3/10; A47F 5/0081; A47F 5/023))

49/002 . . { Cabinets with compartments provided with trays revolving on a horizontal axis }

49/004 . . { Cabinets with compartments provided with trays revolving on a vertical axis }

49/006 . . . { Corner cabinets (without revolving parts A47B 81/002) }

49/008 . . . { with motorisation means }

51/00 Cabinets with means for moving compartments up and down ((for cabinets with parts rotating about a horizontal axis A47B 46/006; for show or display A47F 3/06))

2051/005 . . . { Ceiling mounted containers }

53/00 Cabinets or racks having several sections one behind the other ((for show or display A47F 3/06) )

53/02 . . Cabinet systems, e.g. consisting of cabinets arranged in a row with means to open or close passages between adjacent cabinets

55/00 Cabinets, racks or shelf units, having essential features of rigid construction (safes E05G)

55/02 . . made of wire

55/04 . made of concrete or the like

55/06 . made of cardboard, paper, or the like (( travelling wardrobes A47B 61/006))

57/00 Cabinets, racks or shelf units, characterised by features for adjusting shelves or partitions (shelf units with stackable uprights A47B 87/00; details of cabinets, racks or shelf units in general A47B 96/00; brackets adjustable in themselves A47B 96/07)

57/04 . . with means for adjusting the inclination of the shelves

57/045 . . . { Cantilever shelves }

57/06 . . with means for adjusting the height of the shelves (A47B 57/04, A47B 57/30 take precedence)

57/08 . . . consisting of grooved or notched ledges, uprights or side walls ((A47B 57/265 takes precedence))

57/10 . . . the grooved or notched parts being the side walls or uprights themselves

57/12 . . . consisting of side walls of the ladder type

57/14 . . . with hooks on the shelves to engage the rungs of the ladder

57/16 . . . consisting of hooks coacting with openings (ladder type A47B 57/12)

57/18 . . consisting of screwbolts as connecting members

57/20 . . consisting of tongues, pins or similar projecting means coacting with openings (A47B 57/08, A47B 57/16 take precedence)

57/22 . . . characterised by shape or orientation of opening, e.g. keyhole-shaped

57/26 . . consisting of clamping means, e.g. with sliding bolts or sliding wedges (fixed on cords or the like A47B 43/006)

57/265 . . . [clamped in discrete positions, e.g. on tubes with grooves or holes]

57/30 . . . with means for adjusting the height of detachable shelf supports

57/32 . . . consisting of grooved or notched ledges, uprights or side walls ((A47B 57/545 takes precedence))

57/34 . . . the grooved or notched parts being the side walls or uprights themselves

57/36 . . . consisting of side walls of the ladder type

57/38 . . . with hooks on the shelf supports to engage the rungs of the ladder

57/40 . . . consisting of hooks coacting with openings (ladder type A47B 57/36)
Cabinets; Racks; Shelf units; Similar furniture; Similar features of built-in cupboards

Cabinets, racks or shelf units, specially adapted for storing books, documents, forms, or the like; book-storing, e.g. book-ends

- with a writing surface (surfaces adapted to be brought into position for use by extension or pivoting in general A47B 46/00)
- with parts, e.g. trays, (card containers), movable on pivots or on chains or belts (revolving cabinets in general, cabinets with revolving parts in general A47B 49/00); cabinets with means for moving compartments up and down in general A47B 51/00
- with trays revolving on a vertical axis
- with trays revolving on a horizontal axis
- with a noria lift

Book-troughs; Accessories specially adapted for book-storing, e.g. book-ends

- adjustable
- [Partitions, e.g. dividers]
- [Book-ends]

Chests; Dressing-tables; Medicine cabinets or the like; Cabinets characterised by the arrangement of drawers

- [Mirror cabinets; Dressing-tables]
- Cabinets for shaving tackle, medicines, or the like
- [having safety means]
- with attachment means for fixing in another cupboard or rack

Cocktail cabinets (cabinets or racks for bottles only A47B 73/00)

Cabinets for perishable goods, e.g. meat safes, fly-proof cabinets (fruit or potato storage cabinets, racks or trays A47B 75/00; ice-boxes, refrigerators F25D)

Bottle cupboards; Bottle racks

- [Racks made of wire]
- [holding the bottle by the neck only]
- [with modular arrangements of identical units]
- [attachment means for fixing in another cupboard or rack]

Fruit or potato storage cabinets, racks or trays for domestic use

Kitchen cabinets (tops specially designed for working on A47B 96/18)

- General layout, e.g. relative arrangement of compartments, working surface or surfaces, supports for apparatus (A47B 77/08 takes precedence ; combinable furniture units A47B 87/00)
- [Work tops]
- [Fixing means therefor]
- [with integrated splashback]
- Provision for particular uses of compartments or other parts ; Compartments moving up and down, revolving parts (cabinets in general A47B 49/00, A47B 51/00)
- for incorporating sinks, with or without draining boards, splash-backs, or the like (constructional features of draining boards A47L 19/02; sinks E03C 1/18)
Furniture combinations

83/00  Combinations comprising two or more pieces of furniture of different kinds

83/001  .  [Office desks or work-stations combined with other pieces of furniture, e.g. work space management systems]

2083/003  .  [Table combination having a central power access component]

2083/005  .  [Office wall with desktop function]

2083/006  .  [Having an incorporated display screen]

83/008  .  [Easels combined with seats]

83/02  .  Tables combined with seats { (folding or stowable tables with separable parts combined with seats A47B 3/063; foldable table and seat units A47B 3/14) }

WARNING

Group A47B 83/02 is impacted by reclassification into groups A47B 3/063, A47B 3/14, A47B 39/00, A47B 83/021, A47B 83/023, A47B 83/024, A47B 83/0215, A47B 83/0215, A47B 83/0215, and A47B 83/0215 should be considered in order to perform a complete search.

83/021  .  {with seats stowable beneath table top}

WARNING

Groups A47B 83/021 - A47B 83/0215 are incomplete pending reclassification of documents from group A47B 83/02.

Groups A47B 83/02 and A47B 83/021 - A47B 83/0215 should be considered in order to perform a complete search.

83/0213  .  .  .  {by pivotal movement}

83/0215  .  .  .  {by sliding movement, e.g. on track or guide}

83/023  .  .  .  {Booth-type arrangements}

WARNING

Group A47B 83/023 is incomplete pending reclassification of documents from group A47B 83/02.

Groups A47B 83/02 and A47B 83/023 should be considered in order to perform a complete search.

83/024  .  .  {having opposed benches without backs, e.g. of the picnic type}

WARNING

Group A47B 83/024 is incomplete pending reclassification of documents from group A47B 83/02.

Groups A47B 83/02 and A47B 83/024 should be considered in order to perform a complete search.

2083/025  .  .  {Computer workstation with integrated seat}

83/04  .  Tables combined with other pieces of furniture

83/045  .  {Tables combined with cabinets (wall tables A47B 5/00) }

85/00  Furniture convertible into other kinds of furniture

85/02  .  Tables convertible into drawing-desks

85/04  .  Tables convertible into chairs

85/06  .  Tables convertible otherwise (into beds A47C 17/62; into billiard tables A63D 15/04)

85/08  .  Convertible cupboards

87/00  Sectional furniture, i.e. combinations of complete furniture units, e.g. assemblies of furniture units of the same kind such as linkable cabinets, tables, racks or shelf units (switchboards or switch cubicles for the distribution of electric power H02B)
Details of furniture

Furniture combinations

88/00 Drawers for tables, cabinets or like furniture; Guides for drawers (A47B 63/02 takes precedence; drawers coupled to doors A47B 96/16)

WARNING

Group A47B 88/00 is impacted by reclassification into groups A47B 88/90, A47B 88/969, A47B 88/0981, A47B 88/988, and A47B 88/994.

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

88/04 Sliding drawers; Slides or guides therefor

WARNING


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

88/443 . . . Successive movement of rails within drawer slides, i.e. at least one rail element is not moving during the movement of other elements

88/447 . . . Simultaneous movement of rails within drawer slides, i.e. with a coordination of movement with all rail elements moving at the same time

88/45 . . . Synchronisation of cooperating drawer slides, i.e. with a coordination of the rail movement of different drawer slides

88/453 . . . Actuated drawers

**WARNING**

Groups A47B 88/453 and A47B 88/46 are incomplete pending reclassification of documents from group A47B 88/40.

Groups A47B 88/453, A47B 88/46, and A47B 88/497 should be considered in order to perform a complete search.

88/457 . . . operated by electrically-powered actuation means

88/46 . . . operated by mechanically-powered actuation means

88/463 . . . self-opening

88/467 . . . self-closing

2088/4675 . . . . (with detent or emboss on slide)

88/47 . . . . having both self-opening and self-closing mechanisms which interact with each other

88/473 . . . Braking devices, e.g. linear or rotational dampers or friction brakes; Buffers; End stops

**WARNING**

Groups A47B 88/473 and A47B 88/477 are incomplete pending reclassification of documents from groups A47B 88/40 and E05F 5/00.

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

88/477 . . . Buffers; End stops

88/48 . . . Drawers which can be rotated while or after sliding out

88/483 . . . with single extensible guides or parts

**WARNING**

Group A47B 88/483 is impacted by reclassification of documents into group A47B 88/497.

Groups A47B 88/483 and A47B 88/497 should be considered in order to perform a complete search.

88/487 . . . with rollers, ball bearings, wheels, or the like

**WARNING**

Group A47B 88/487 is impacted by reclassification of documents into group A47B 88/497.

Groups A47B 88/487 and A47B 88/497 should be considered in order to perform a complete search.

88/49 . . . . with other guiding mechanisms, e.g. scissor mechanisms

88/497 . . . . with other guiding mechanisms, e.g. scissor mechanisms

88/50 . . . Safety devices or the like for drawers (locks specially adapted for a plurality of drawers)

88/53 . . . preventing unintentional closing, e.g. anti-pinch devices

88/57 . . . preventing complete withdrawal of the drawer

88/60 . . . Tiltably- or pivotally-arranged drawers

88/70 . . . Coupled drawers

88/75 . . . the secondary drawer being in or above the primary drawer

2088/76 . . . . [Coupling means therefor]

88/80 . . . Concealed drawers

88/90 . . . Constructional details of drawers

**WARNING**

Group A47B 88/90 is incomplete pending reclassification of documents from group A47B 88/00. Group A47B 88/90 is also impacted by reclassification into groups A47B 88/969, A47B 88/981, A47B 88/988, and A47B 88/994.

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

2088/901 . . . . [Drawers having a lifting mechanism]

2088/902 . . . . [Corner connectors for drawers]

88/906 . . . Drawers being made of one piece of material, e.g. formed from folded sheet material or moulded

88/913 . . . Drawers in which among the side walls, the rear wall or the bottom panel, at least one is connected to another one of these elements through a living hinge

88/919 . . . Accessories or additional elements for drawers, e.g. drawer lighting (drawers having organising or sorting means A47B 88/969)

88/925 . . . . Additional side walls mountable on existing side walls

88/931 . . . . Rails or rods mounted above the drawer walls, e.g. for stabilisation of the drawer or for suspension of the content

88/938 . . . . . Means for connecting rails or rods to drawers

2088/939 . . . . . [to the front panel of a drawer]

2088/94 . . . . . [to the back wall of a drawer]

88/941 . . . . . [Drawers being constructed from two or more parts]

88/942 . . . . . [with at least two sides foldable or hinged]

88/944 . . . . . [connecting first side panel to bottom panel, back panel to bottom panel and second side panel to bottom by three folding lines]

88/9416 . . . . . [connecting first side panel to back panel and back panel to second side panel by two folding lines]
Details of furniture

88/9418 . . . [connecting first side panel to bottom and second side panel to bottom panel by two folding lines]

88/944 . . . Drawers characterised by the front panel

2088/9441 . . . [the front panel being less wide than the drawer]

88/95 . . . characterised by connection means for the front panel

2088/951 . . . [having male and female interlocking parts]

2088/952 . . . [having two parts and using a screw]

2088/953 . . . [fastening the front panel to a metal sheet side wall]

2088/954 . . . [fastening the front panel by a sprung bolt, latch or lock-bolt]

2088/955 . . . [fastening the front panel using a toggle-lever]

88/956 . . . for enabling adjustment of the front panel

88/963 . . . having sealing means, e.g. gaskets

88/969 . . . Drawers having means for organising or sorting the content

WARNING

Groups A47B 88/969 is incomplete pending reclassification of documents from groups A47B 88/00 and A47B 88/90.

Groups A47B 88/00, A47B 88/90, and A47B 88/969 should be considered in order to perform a complete search.

88/975 . . . in the form of repositionable partition walls

2088/976 . . . [with separate holders]

2088/977 . . . [with stamped sheet metal holding the partition walls]

88/981 . . . in the form of vertical separation posts

WARNING

Groups A47B 88/981 is incomplete pending reclassification of documents from groups A47B 88/00 and A47B 88/90.

Groups A47B 88/00, A47B 88/90, and A47B 88/981 should be considered in order to perform a complete search.

88/988 . . . in the form of holders for positioning specific articles

WARNING

Groups A47B 88/988 is incomplete pending reclassification of documents from groups A47B 88/00 and A47B 88/90.

Groups A47B 88/00, A47B 88/90, and A47B 88/988 should be considered in order to perform a complete search.

88/994 . . . in the form of trays or inserts

WARNING

Groups A47B 88/994 is incomplete pending reclassification of documents from groups A47B 88/00 and A47B 88/90.

Groups A47B 88/00, A47B 88/90, and A47B 88/994 should be considered in order to perform a complete search.

91/00 Feet for furniture in general (castors B60B 33/00)

91/002 . . . [Mechanical means to move furniture easily, e.g. air cushioning means]

91/005 . . . [Support bases]

2091/007 . . . [fixed by a tubular dowel sleeve]

91/002 . . . Adjustable feet (self-levelling A47B 91/16)

91/0022 . . . [using screw means]

91/0024 . . . [Foot attached to a rotating bolt supported in an internal thread]

91/0026 . . . [Foot attached to a rotating nut supported on an external thread]

91/0028 . . . [Means for rotational adjustment on a non-rotational foot]

91/04 . . . Elastic supports

91/06 . . . Gliders or the like

2091/063 . . . [self-adhesive]

91/066 . . . [Swivel gliders]

91/08 . . . connected to the floor

91/10 . . . adapted to mounting on inclined floor

91/12 . . . Leg supports, e.g. cup-shaped [, also under castors]

91/14 . . . Devices on legs preventing ascent of insects

91/16 . . . Self-levelling legs

95/00 Fittings for furniture

95/002 . . . [Plinths, e.g. between furniture and ceiling or wall]

2095/004 . . . [Base plinths]

2095/006 . . . [having dowels and expansion plugs]

95/008 . . . [Suspension fittings for cabinets to be hung on walls]

95/02 . . . Handles [(similar handles for doors in general E05B 1/0015)]

2095/021 . . . [Pivoting handles with one socket]

2095/022 . . . [Pivoting handles with two sockets]

2095/023 . . . [having blind holes at both end sections]

2095/024 . . . [Drawer handles]

2095/025 . . . [with integrated label]

2095/026 . . . [built-in]

2095/027 . . . [being recessed or flush in sheet metal panel]

2095/028 . . . [Knobs]

95/04 . . . Keyplates; Ornaments or the like (rims specially adapted to mounting on inclined floor)

2095/029 . . . [of the snap-on type]

95/043 . . . [Protecting rims, buffers or the like]

2095/046 . . . [of the snap-on type]

96/00 Details of cabinets, racks or shelf units not covered by a single one of groups A47B 43/00 - A47B 95/00; General details of furniture (doors E06B)

96/002 . . . Shelves (movable shelves coupled to doors A47B 96/16)

96/021 . . . [Structural features of shelf bases]

96/022 . . . [Single-corner shelves; Brackets therefor]

96/024 . . . [characterised by support bracket location means, e.g. fixing means between support bracket and shelf (A47B 96/028 takes precedence)]

96/025 . . . [Shelves with moving elements, e.g. movable extensions or link elements (cabinets, racks or shelf units enabling enlargement in height, length or depth A47B 45/00)]

96/027 . . . [Cantilever shelves]

96/028 . . . [characterised by support bracket location means, e.g. fixing means between support bracket and shelf]

96/004 . . . Partition walls [(adjustable A47B 57/58)]
Details of furniture

96/06 . Brackets or similar supporting means for cabinets, racks or shelves { (A47B 96/022 takes precedence; aspects of adjusting height or inclination A47B 57/00 ; brackets for the display of articles A47F 5/08) }

96/061 . [Cantilever brackets]
96/062 . [for glass shelves]
96/063 . [C-shaped brackets for gripping the shelf edge]
96/065 . [adjustable to the thickness of the shelf]
96/066 . [Supporting means received within an edge of the shelf]
96/067 . [Horizontal rails as suspension means in a cantilever arrangement (suspension fittings for cabinets to be hung on walls A47B 95/008)]
96/068 . [Very short brackets, quickly attachable or detachable to a vertical support surface]
96/07 . [adjustable in themselves]
96/14 . Bars, uprights, struts, or like supports, for cabinets, brackets, or the like (aspects of adjusting height or inclination of shelves or brackets A47B 57/00)
96/1408 . [regularly perforated]
96/1416 . [Uprights receiving panels and brackets (for show stands A47F 5/10; for partitions E04B 2/78)]
96/1425 . [Uprights secured to ceiling and floor]
96/1433 . [Hollow members]
96/1441 . [Horizontal struts]
96/145 . [Composite members, i.e. made up of several elements joined together]
96/1458 . [with perforations]
96/1466 . [with longitudinal grooves]
96/1475 . [and perforations]
96/1483 . [and radial arms]
96/1491 . [having a T-section]
96/16 . Drawers or movable shelves coupled to doors
96/18 . Tops specially designed for working on (table tops A47B 13/08)
96/20 . Furniture panels or like furniture elements
96/201 . [Edge features]
96/202 . [with a continuous layer allowing folding (foldable cabinets A47B 43/00; foldable drawers A47B 88/9412)]
96/203 . [Profiled sections]
96/204 . [with an insert]
96/205 . [Composite panels, comprising several elements joined together]
96/206 . [with laminates comprising planar, continuous or separate layers]
96/207 . [Furniture panels consisting of a frame with interchangeable insertable panel]
96/208 . [Decorative panels for household appliances]
96/209 . [Magnetic decorative panels]

97/00 Miscellaneous furniture; Miscellaneous accessories for furniture

97/001 . [Wall mounting or suspension arrangements for blackboards or the like (easels or stands A47B 97/04)]

97/003 . [Cable holders; cable organisers]
97/005 . [Monitor mounted supports or stands]
97/006 . [Computer holding devices]
97/008 . [Anti-tip devices]
97/02 . Devices for holding or supporting maps, drawings, or the like, including means for preventing rolling-up

97/04 . Easels or stands for blackboards or the like { (easels combined with seats A47B 83/008) }
97/06 . [with means for balancing weight of blackboards or the like, e.g. connected to wall (means for balancing weight of drawing boards A47B 27/00)]
97/08 . [foldable]

2200/00 General construction of tables or desks

2200/0001 . Tops
2200/0002 . Corner desk
2200/0003 . Triangular or trapezoidal desk surface to join desks
2200/0004 . Two-piece protecting frame for worktops
2200/0005 . Removable or adjustable front edges for desktop
2200/0006 . Storage channel at table edge
2200/0007 . Dip-off edge
2200/0008 . Pop-up keyboard tray incorporated into a desktop
2200/0009 . Plate and dish warming plates embedded in table top
2200/001 . Manufacture of table tops
2200/0011 . Underframes
2200/0012 . Lateral beams for tables or desks
2200/0013 . Desks with central bearing beams
2200/0014 . Disassemblable central or lateral longitudinal members linking two pairs of legs to frame
2200/0015 . Table underframe adjustable in depth and in width
2200/0016 . Trestles or trestle tables
2200/0017 . Nodal leg assembly for table
2200/0018 . . in two parts
2200/0019 . Auxiliary use of table underframes, e.g. incorporating: cooling, drainage, air supply or wires
2200/002 . Legs
2200/0021 . Tables or desks of the single column type
2200/0022 . . Central column leg assembly composed of several segments
2200/0023 . . Columnar component for computer, stand or trolley
2200/0025 . . Hinge for pivotable, single column table top
2200/0026 . Desks with C-shaped leg
2200/0027 . Desks with I-shaped leg
2200/0028 . . Attachment of desk lateral uprights
2200/0029 . Desks with reversed T-leg
2200/003 . Assembly of tables or desks with a common leg
2200/0031 . Table with knee type tubular leg
2200/0032 . . Triple or quadruple leg assembly with intermediary node, e.g. retained by a ring
2200/0033 . . Securing a U-shaped table leg under the table top
2200/0034 . . Spring loaded "push-push" latch assembly for table leg
2200/0035 . Tables or desks with features relating to adjustability or folding
2200/0036 . Table tops pivotable around longitudinal axis
2200/0037 . Folding tables whereby each pair of legs and modesty panel are swung against the underside of the desktop
2200/0038 . . Office equipment platform moving on rollers on desktop
2200/0039 . . Two position height adjustable table
A47B

2200/004 . . . Top adjustment
2200/0041 . . . Height adjustable table top with parallel link arms
2200/0042 . . . Height and inclination adjustable desktop, either separately or simultaneously
2200/0043 . . . Inclination adjustable work top
2200/0044 . . . Inclined work surface around a mobile axis
2200/0045 . . . Extensible table surface area with two table tabs - centering the weight of the extended table by translation and rotation of the overlying table tops
2200/0046 . . . Desks with double worktop of which one at least is separately height adjustable
2200/0047 . . . Extension leaf swiveling on two support arms
2200/0048 . . . Concealable top fixed on a bedside table or similar
2200/005 . . . Leg adjustment
2200/0051 . . . Telescopic
2200/0052 . . . . . with two telescopic parts
2200/0053 . . . . . Flat lifting device for desks with two telescopic sections
2200/0054 . . . . . with three telescopic parts
2200/0055 . . . . . with a pair of telescoping legs, having a height-adjustable latching mechanism between the pair of legs
2200/0056 . . . . . with a motor, e.g. an electric motor
2200/0057 . . . . . situated under the worktop
2200/0058 . . . . . with synchronized motors
2200/0059 . . . . . in telescoping table legs
2200/006 . . . . . with table or desk equipped with limit switches
2200/0061 . . . . . Height-adjustable desk, electronically regulated with no mechanical link between the legs
2200/0062 . . . . . Electronically user-adaptable, height-adjustable desk or table
2200/0063 . . . . . Table leg assembly horizontally displaceable along a longitudinal groove with adaptable attachment
2200/0064 . . . . . Table leg assembly held in folded position by tension means
2200/0065 . . . . . Bellows for desk legs
2200/0066 . . . . Workstations
2200/0067 . . . . Enclosure type with computer
2200/0068 . . . . Cabinet enclosure
2200/0069 . . . . with rack
2200/007 . . . . . with incorporated desk and chair
2200/0071 . . . . . Booth like
2200/0072 . . . . . Computer work stations with integrated seat or chair
2200/0073 . . . . . Desk with integrated computer
2200/0075 . . . . . Computer kiosks or stands
2200/0076 . . . . . Vertical technical column supporting office equipment
2200/0077 . . . . . Tables or desks with drawers supporting portable computers
2200/0078 . . . . . Control consoles or desks
2200/0079 . . . . . Conference or video conference table
2200/008 . . . . . Tables or desks having means for applying electronic or electric devices
2200/0081 . . . . . Auxiliary apparatus with electrical connections for office furniture
2200/0082 . . . . . Cable inlet in worktop or desk, e.g. grommet
2200/0083 . . . . . Cable or current inlet for drawer or shelf
2200/0084 . . . . . Accessories for tables or desks
2200/0085 . . . . . Supplementary support fixed on the edge of a desk or table
2200/0086 . . . . . Supplementary support fixed to the extension of a table leg
2200/0087 . . . . . Additional support mounted on an office desk or table periphery with parts resting on the ground
2200/0088 . . . . . Appliance support having rotary joint or articulated connection
2200/0089 . . . . . Keyboard support on screen
2200/009 . . . . . . Keyboards associated with mousepads
2200/0091 . . . . . Wrist support for movement in the X-Y plane in front of a keyboard
2200/0092 . . . . . . Articulated arm used as wrist support
2200/0093 . . . . . . Wrist pad cover
2200/0094 . . . . . . Copyholder for VDU screen
2200/0095 . . . . . . Computer mouse platform
2200/0096 . . . . . . Workstation with integrated knee-seat
2200/0097 . . . . . . Foot rest being part of desk
2200/0098 . . . . . . Detached foot rests for under desk
2200/0099 . . . . . . Office wall with desktop function
2200/0001 . . . . . . Combined attachment of a frame, a storage tray and a work surface of a desk
2200/0011 . . . . . . Storing chairs in or around tables
2200/0012 . . . . . . Vanity or modesty panels
2200/0013 . . . . . . Table and chair assembly for disabled persons, used as workplace
2200/0014 . . . . . . Aquarium table

Details of furniture (of tables or desks A47B 13/00; furniture joints F16B)

2210/00 . . . . . . General construction of drawers, guides and guide devices
2210/0002 . . . . . . Guide construction for drawers
2210/0005 . . . . . . having a single drawer slide centrally positioned under the drawer bottom
2210/0001 . . . . . . having a roller on an intermediary slide rail between the cabinet rail and the drawer rail
2210/0008 . . . . . . having a roller on the intermediate drawer rail, between the upper and lower rail
2210/0013 . . . . . . having a pinion on the intermediate drawer rail, between the upper and lower rail
2210/0016 . . . . . . Telescopic drawer slide latch device
2210/0018 . . . . . . Buffers, stop blocks or latches for single drawer slides
2210/0021 . . . . . . Slide with punched part
2210/0024 . . . . . . Slides, guides for wire basket or drawer
2210/0027 . . . . . . Drawers with coupled rear wheels
2210/0029 . . . . . . Guide bearing means
2210/0032 . . . . . . Balls
2210/0035 . . . . . . cages therefor, e.g. for telescopic slides
2210/0037 . . . . . . Rollers
2210/004 . . . . . . cages therefor, e.g. for telescopic slides
Details of furniture

2210/0043 . . . Wheels
2210/0045 . . . whereof only one per slide
2210/0048 . . . Pinion
2210/0051 . . . Guide position
2210/0054 . . . Adjustment of position of slides
2210/0056 . . . Guide located at the bottom of the drawer
2210/0059 . . . Guide located at the side of the drawer
2210/0062 . . . Guide located at the top of the drawer
2210/0064 . . . Guide sequencing or synchronisation
2210/0067 . . . Two slide synchronisation
2210/007 . . . Three slide synchronisation
2210/0072 . . . Coordinating mechanisms for sequential drawer slides, e.g. by cable
2210/0075 . . . using gears
2210/0078 . . . Drawers with parallel guidance or synchronization by pinion-shaft linkages
2210/0081 . . . Telescopic drawer rails with stop blocks, e.g. synchronization buffers
2210/0083 . . . Drawer symmetric movement on opposite telescopic rails
2210/0091 . . . Drawer movement damping
2210/0094 . . . Drawer damping device with 2 relatively movable parts to convert kinetic energy
2210/0097 . . . Ball or roller cage incorporating damping means
2210/01 . . . Drawer chassis or frame
2210/02 . . . Drawers with hollow lateral walls in two parts
2210/03 . . . Drawers with profiled bottoms
2210/04 . . . Metal wire drawers
2210/05 . . . Metal wire baskets for vertical drawers
2210/06 . . . Drawer liners
2210/07 . . . Drawers with sliding trays
2210/08 . . . Covers or lids for sliding drawers
2210/09 . . . Attachment means
2210/091 . . . between slides and drawer bottoms
2210/092 . . . between side walls and drawer bottoms
2210/094 . . . the side walls being metal
2210/095 . . . between metal drawer walls or slides and wood bottom using stamped out teeth
2210/097 . . . of drawer bottoms in grooves formed in side walls or combination of side walls and slides
2210/098 . . . of lateral walls or slides in grooves on peripheries of drawer bottoms
2210/15 . . . Keyboard drawers
2210/16 . . . Sliding drawers being part of the furniture base
2210/17 . . . Drawers used in connection with household appliances
2210/175 . . . Refrigerators or freezers
2210/19 . . . Drawers in a casing being stackable in modular arrangements

2220/00 General furniture construction, e.g. fittings
2220/0002 . . . Adjustable furniture construction
2220/0005 . . . Concealed shelf fixed on bedside cabinet or the like
2220/0008 . . . Table or tray, height adjustable on parasol pole
2220/0011 . . . Cupboards with horizontally displaceable inserts which can then be pivoted around a vertical axis
2220/0013 . . . Table or cupboards with upwardly concealable compartments
2220/0016 . . . Book stands
2220/0019 . . . One-piece collapsible book stands made of lightweight material, such as cardboard, by stamping or molding
2220/0022 . . . Slides
2220/0025 . . . having telescoping guides with friction reducing pieces, e.g. balls between inner and outer profiles
2220/0027 . . . Feet
2220/003 . . . Height-adjustable feet or gliders for tables or desks
2220/0033 . . . feet or slides for horizontal arms of a table or desk foot assembly
2220/0036 . . . Brackets
2220/0038 . . . Brackets having a pincer shape supporting a cantilever shelf
2220/0041 . . . Short shoulder brackets for shelves
2220/0044 . . . Brackets with frangible elements
2220/0047 . . . Handles
2220/005 . . . Lighting for furniture handles
2220/0052 . . . Panels
2220/0055 . . . Furniture made of several parallel slats, hinged together by transverse rods passed through respective ends of slats
2220/0058 . . . Furniture panels with assembly holes
2220/0061 . . . Accessories
2220/0063 . . . Corner strips for worktops
2220/0066 . . . Glide-shoes for furniture and not for feet
2220/0069 . . . Hinges
2220/0072 . . . Hinges for furniture
2220/0075 . . . Lighting
2220/0077 . . . Lighting for furniture, e.g. cupboards and racks
2220/008 . . . characterised by materials
2220/0083 . . . Furniture made of sheet material
2220/0086 . . . made of cardboard
2220/0088 . . . Furniture made of bamboo or rattan
2220/0091 . . . Electronic or electric devices
2220/0094 . . . Bed, service tables or book-rests with electric items
2220/0097 . . . Remote control for furniture, e.g. tables or shelves
2220/01 . . . Furniture enclosures comprising or containing other furniture
2220/02 . . . Modular elements comprising U C and V sections for furniture
2220/03 . . . Combined cabinets and wash basins
2220/04 . . . Storage space, cupboards, desks or the like to be used under a staircase
2220/05 . . . Furniture provided with a ladder
2220/06 . . . Treadmill combined with furniture
2220/07 . . . Table-chair combinations transformable to benches or chairs with backs
2220/08 . . . Dismountable cupboards with balanced sliding fronts
2220/09 . . . Furniture held together by tension cables
2220/11 . . . Tripod parts
2220/12 . . . Embedded rails
2220/13 . . . Sound or noise reduction or dampening, e.g. built in via the furniture panels

2230/00 Furniture jointing; Furniture with such jointing
2230/0003 . . . Adjustable furniture jointing
2230/0007 . . . Eccentric shelves supports for shelves levelling
2230/0011 . . . Hooks and loops as in hook and look-type fastener
2230/0014 . . . Height or width adjustment using eccenter mechanisms
2230/0018 . . . Screws or bolts sliding in sectional grooves
Details of furniture

2230/0022 . . . with tightening devices
2230/0025 . . . with shoes in said grooves
2230/0029 . Dowels
2230/0033 . Expansible dowels or dowel-pins
2230/0037 . Dowels or dowel-pins
2230/004 . . . with resin or glue
2230/0044 . . . Fastening elements comprising radially expansible plugs by rotation therein of inserted pins
2230/0048 . . . Fastening elements comprising plugs, radially expansible by eccentric pins inserted therein
2230/0051 . . . Two-piece dowels
2230/0055 . Biscuits including formed staples or the like
2230/0059 . . . Biscuits
2230/0062 . . . Connectors for adjacent furniture parts, the mouths of the grooves for said connectors being on the join lines of said furniture parts
2230/0066 . . . said connectors being secured with screws
2230/007 . . . Fastening of two furniture parts with self-cutting connectors, whose respective wings are inserted in grooves, whose mouths are on the join lines of the said furniture parts
2230/0074 . . . Mortise and tenon joints or the like including some general male and female connections
2230/0077 . . . Interlocking assemblies with dovetail mortise grooves
2230/0081 . . . Mortise and tenon type joints with some general male and female joints
2230/0085 . . . Mutually slotted furniture joints
2230/0088 . . . for table frames or frames with cut-out leg sections which retain the slotted joints
2230/0092 . . . Furniture assembled by mutually slotted joints
2230/0096 . . . Assembling sheet parts by male and female parts formed in the sheet thickness
2230/01 . . . Assemblies of strip sections, able to hold panels and corner parts for furniture
2230/02 . . . Assembly systems with separate fixing devices on each corner wall and a common corner joining element
2230/03 . . . Nodal three-dimensional corner pieces for desks
2230/04 . . . Cubic corner parts joining sectional strips for furniture
2230/05 . . . Oblique angled wall or upright mount
2230/06 . . . Furniture rear walls attached in grooves
2230/07 . . . Releasable locking means or connectors for fastening together parts of furniture
2230/08 . . . Clamping of spaced shelves on columns using screw means
2230/09 . . . O-rings or sleeves as connection parts
2230/11 . . . Attachment fittings mounted in blind holes
2230/12 . . . Furniture fittings in two blind holes
2230/13 . . . Toggle or over-center latches for furniture
2230/14 . . . Furniture connections by means of two half-shells
2230/15 . . . Joining of sectional members by means of inner tensioning rods
2230/16 . . . Interlocking or wedging elements making up pieces of furniture without additional fasteners