

CPC 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)

A47C CHAIRS; SOFAS; BEDS

WARNING

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

[A47C 23/053](#)

covered by

[A47C 23/05](#), [A47C 23/0507](#), [A47C 23/0515](#)

Chairs; Stools; Benches

1/00 Chairs adapted for special purposes (chairs or personal conveyances specially adapted for patients or disabled persons, e.g. wheelchairs, [A61G 5/00](#); operating chairs or dental chairs [A61G 15/00](#))

- 1/02 . Reclining or easy chairs
- 1/022 . . having independently-adjustable supporting parts
- 1/023 . . . the parts being horizontally-adjustable seats
- 1/024 . . . the parts, being the back-rest, or the back-rest and seat unit, having adjustable inclination
- 1/0242 {by electric motors}
- 1/0244 {by fluid means}
- 1/0246 {by means of screw-and-nut mechanism}
- 1/0248 {by chains, ropes or belts}
- 1/025 by means of a rack-and-pinion or like gearing mechanism
- 1/026 by means of a peg-and-notch or pawl-and-ratchet mechanism
- 1/0265 {positioned under the arm-rests}
- 1/027 by means of clamps or friction locking members
- 1/028 . . . for changing a straight chair into an easy chair {, e.g. by inverting or tilting seat and back-rest in the base frame or by overturning the whole chair}
- 1/029 by changing the length or the inclination of the legs
- 1/03 . . . the parts being arm-rests
- 1/0303 {adjustable rectilinearly in vertical direction}
- 1/0305 {by peg-and-notch or pawl-and-ratchet mechanism}
- 1/0307 {adjustable rectilinearly in horizontal direction}
- 1/0308 {adjustable by rotation}
- 1/031 . . having coupled {concurrently} adjustable supporting parts
- 1/032 . . . the parts being movably-coupled seat and back-rest ([A47C 1/035 takes precedence](#))
- 1/03205 {having adjustable and lockable inclination}
- 1/03211 {by electric motors}
- 1/03216 {by fluid means}
- 1/03222 {by means of screw-and-nut mechanism}

- 1/03227 {by chains, ropes or belts}
- 1/03233 {by means of a rack-and-pinion or like gearing mechanism}
- 1/03238 {by means of peg-and-notch or pawl-and-ratchet mechanism}
- 1/03244 {positioned under the arm-rests}
- 1/0325 {by means of clamps or friction locking members}
- 1/03255 {with a central column, e.g. rocking office chairs}
- 1/03261 {characterised by elastic means}
- 1/03266 {with adjustable elasticity}
- 1/03272 {with coil springs}
- 1/03274 {of torsion type}
- 1/03277 {with bar or leaf springs}
- 1/03279 {of torsion type}
- 1/03283 {with fluid springs}
- 1/03288 {with resilient blocks}
- 1/03294 {slidingly movable in the base frame, e.g. by rollers}
- 1/033 the coupling member being a flexible strip
- 1/034 . . . the parts including a leg-rest or foot-rest ([A47C 1/037 takes precedence](#))
- 1/0342 {in combination with movable backrest-seat unit or back-rest}
- 1/0345 {characterised by foot-rests actuated by lazy-tongs}
- 1/0347 {characterised by the backrest-seat unit or back-rest slidingly movable in the base frame, e.g. by rollers}
- 1/035 in combination with movably-coupled seat and back-rest
- 1/0352 {characterised by coupled seat and back-rest slidingly movable in the base frame, e.g. by rollers}
- 1/0355 actuated by linkages, e.g. lazy-tongs mechanisms
- 1/036 . . . the parts including a head-rest
- 1/037 in combination with a leg-rest or foot-rest
- 1/04 . Hairdressers' or similar chairs
- 1/06 . . adjustable
- 1/08 . . with auxiliary seats
- 1/10 . . with head-rests; with paper holders

- 1/11 . . Accessories not otherwise provided for, e.g. seats for children
- 1/12 . Theatre, auditorium or similar chairs ([detachable seats for mounting on stadium benches A47C 1/16](#))
- 1/121 . . having tipping-up seats
- 1/122 . . . tipping-up sideways
- 1/124 . . Separate chairs, connectible together into a row
- 1/126 . . stowable in floor or wall
- 1/13 . . Indicators; Devices for reserving or the like
- 1/14 . Beach chairs {; Chairs for outdoor use, e.g. chairs for relaxation or sun-tanning}
- 1/143 . . {Chaise lounges}
- 1/146 . . {of legless type}
- 1/16 . Seats detachably mounted on stadium benches
- 3/00 Chairs characterised by structural features; Chairs or stools with rotatable or vertically-adjustable seats ([A47C 1/00](#), [A47C 4/00](#) take precedence)**
- 3/02 . Rocking chairs
- 3/021 . . having elastic frames
- 3/023 . . . made of tubular material
- 3/025 . . with seat, or seat and back-rest unit, elastically mounted in a rigid frame
- 3/0251 . . . {driven by electric motors}
- 3/0252 . . . {connected only by an elastic member positioned between seat and base frame}
- 3/0255 . . . {pivotally mounted in the base frame, e.g. swings}
- 3/0257 . . . {slidingly movable in the base frame, e.g. by rollers}
- 3/026 . . . with a central column, e.g. rocking office chairs; Tilting chairs
- 3/027 . . . with curved rocking members between seat and frame
- 3/029 . . with curved rocking members resting on the floor
- 3/03 . . Locking members ([A47C 3/027](#) takes precedence)
- 3/04 . Stackable chairs or nesting chairs
- 3/045 . . {with tipping-up seats}
- 3/12 . with shell-shaped seat and back-rest unit, e.g. having arm-rests
- 3/14 . of asymmetrical shape
- 3/16 . of legless type, e.g. with seat directly resting on the floor ([A47C 3/14](#) takes precedence); Hassocks; Pouffes
- 3/18 . Chairs or stools with rotatable seat ([adjustable in height by rotation A47C 3/24](#))
- 3/185 . . {self-returning to the original position}
- 3/20 . Chairs or stools with vertically-adjustable seats
- 3/22 . . with balancing device, e.g. by spring, by weight
- 3/24 . . with vertical spindle
- 3/245 . . . {resiliently supported}
- 3/26 . . with vertical, {or inclined} toothed rack; {with peg-and-notch mechanism}
- 3/265 . . . {with rack-and-pinion gearing}
- 3/28 . . with clamps acting on vertical rods
- 3/285 . . . {with radially expansible clamping elements telescopically engaged in a tube or the like}
- 3/30 . . with vertically-acting fluid cylinder
- 3/32 . . with flexible height-adjusting means, e.g. rope, chain
- 3/34 . . with pins coacting with holes
- 3/36 . . with means, or adapted, for inclining the legs of the chair or stool for varying height of seat
- 3/38 . . with additional seat or additional legs for varying height of seat
- 3/40 . . Telescopic guides
- 4/00 Foldable, collapsible or dismantlable chairs (of tubular metal type [A47C 5/10](#))**
- 4/02 . Dismantlable chairs
- 4/021 . . {connected by slotted joints}
- 4/022 . . {connected by bars or wires}
- 4/024 . . {having integral back-rest and rear leg}
- 4/025 . . {having integral back-rest and front leg}
- 4/027 . . {having integral seat and rear leg}
- 4/028 . . {Upholstered chairs, e.g. metal, plastic or wooden chairs}
- 4/03 . . Non-upholstered {chairs, e.g. metal, plastic or} wooden chairs
- 4/04 . Folding chairs with inflexible seats
- 4/045 . . {foldable side to side only}
- 4/06 . . Attachment of upholstery or fabric to frames
- 4/08 . . having a frame made of wood or plastics
- 4/10 . . . with legs pivotably connected to seat or underframe
- 4/12 of adjustable type ([A47C 4/14](#) takes precedence)
- 4/14 with cross legs
- 4/16 of adjustable type
- 4/18 . . having a frame made of metal
- 4/20 . . . with legs pivotably connected to seat or underframe
- 4/22 of adjustable type ([A47C 4/24](#) takes precedence)
- 4/24 with cross legs
- 4/26 of adjustable type
- 4/28 . Folding chairs with flexible coverings for the seat or back elements
- 4/283 . . {foldable side to side only}
- 4/286 . . {foldable side to side and front to back, e.g. umbrella type}
- 4/30 . . Attachment of upholstery or fabric to frames
- 4/32 . . having a frame made of wood or plastics
- 4/34 . . . with legs pivotably connected to seat or underframe
- 4/36 of adjustable type ([A47C 4/38](#) takes precedence)
- 4/38 with cross legs
- 4/40 of adjustable type
- 4/42 . . having a frame made of metal
- 4/44 . . . with legs pivotably connected to seat or underframe
- 4/46 of adjustable type ([A47C 4/48](#) takes precedence)
- 4/48 with cross legs
- 4/50 of adjustable type
- 4/52 . Trunk chairs, i.e. chairs collapsible to trunk shape
- 4/54 . Inflatable chairs
- 5/00 Chairs of special materials**
- 5/005 . {of paper, cardboard or similar pliable material}
- 5/02 . {of woven material, e.g.} basket chairs
- 5/04 . Metal chairs, e.g. tubular ([rocking chairs having elastic frames made of tubular material A47C 3/023](#))

- 5/043 . . {of tubular non-circular cross-section}
- 5/046 . . {of non-tubular cross-section}
- 5/06 . . Special adaptation of seat upholstery or fabric for attachment to tubular chairs
- 5/08 . . Tubular chairs having sheathed tubes; Adaptation of sheathed tubes thereto
- 5/10 . . Tubular chairs of foldable, collapsible, or dismountable type
- 5/12 . . of plastics, with or without reinforcement
- 5/125 . . {completely made of foam material}
- 5/14 . . characterised by the use of laminated wood
- 7/00 Parts, details, or accessories of chairs or stools**
- 7/002 . {Chair or stool bases ([A47C 3/20](#) takes precedence)}
- 7/004 . . {for chairs or stools with central column, e.g. office chairs}
- 7/006 . . {with castors}
- 7/008 . . {for uneven surfaces}
- 7/02 . . Seat parts
- 7/021 . . {Detachable or loose seat cushions}
- 7/0213 . . . {detachably secured to seats, e.g. by ties or hook and loop straps}
- 7/024 . . {with double seats}
- 7/025 . . {Springs not otherwise provided for in [A47C 7/22](#) - [A47C 7/35](#)}
- 7/027 . . . {with elastomeric springs ([A47C 7/282](#) takes precedence)}
- 7/028 . . . {with wooden springs, e.g. slated type}
- 7/029 . . {of non-adjustable shape adapted to a user contour or ergonomic seating positions}
- 7/14 . . of adjustable shape; elastically mounted {; adaptable to a user contour or ergonomic seating positions (movably-coupled seat and backrests with elastic adjustment means [A47C 1/03261](#))}
- 7/142 . . . {by fluid means}
- 7/144 . . . {with array of movable supports}
- 7/16 . . Seats made of wooden, plastics, or metal sheet material; Panel seats
- 7/18 . . having foamed material included in cushioning part
- 7/185 . . . {with a stiff, rigid support}
- 7/20 . . . with reinforcement {in the foam layer}
- 7/22 . . Straps or the like for {direct user support or for} carrying upholstery
- 7/24 . . Upholstered seats ([A47C 7/18](#) takes precedence)
- 7/26 . . . with reinforcement {of the external layer of the upholstery, e.g. vandal resistant}
- 7/28 . . with tensioned springs, e.g. of flat type
- 7/282 . . . {with mesh-like supports, e.g. elastomeric membranes}
- 7/285 . . . {with metal strips or webs}
- 7/287 . . . {with combinations of different types flat type tensioned springs}
- 7/30 . . . with springs meandering in a flat plane
- 7/32 . . . with tensioned cords, e.g. of elastic type, in a flat plane
- 7/34 . . with springs in compression, e.g. coiled
- 7/342 . . . {Edge stiffeners}
- 7/345 . . . {of adjustable resilience}
- 7/347 . . . {with means for connecting springs to each other or to seat frame}
- 7/35 . . Combinations of different types of springs; Adjustable springs; Attachment of springs to other springs or to {the base} frame {; Springs for seat parts not provided for in other groups of this subclass}
- 7/36 . . Supports for the head or the back
- 7/38 . . for the head, e.g. detachable
- 7/383 . . . {Detachable or loose head- or neck-supports, e.g. horse-shoe shaped}
- 7/386 . . . {Detachable covers for headrests}
- 7/40 . . for the back
- 7/402 . . . {adjustable in height}
- 7/405 . . . {with double backrests}
- 7/407 . . . {of collapsible type}
- 7/42 . . . of detachable {or loose} type
- 7/425 {Supplementary back-rests to be positioned on a back-rest or the like}
- 7/44 . . . with elastically-mounted frame
- 7/441 {with adjustable elasticity}
- 7/443 {with coil springs}
- 7/444 {of torsion type}
- 7/445 {with bar or leaf springs}
- 7/4454 {of torsion type}
- 7/446 {with fluid springs}
- 7/448 {with resilient blocks}
- 7/46 . . . with special, e.g. adjustable {, lumbar region support} profile; "Ackerblom" profile chairs
- 7/462 {adjustable by mechanical means}
- 7/465 {by pulling an elastic cable}
- 7/467 {adjustable by fluid means}
- 7/48 . . . of freely-rotatable type
- 7/50 . . Supports for the feet or the legs ([reclining or easy chairs having coupled adjustable supporting parts including a leg-rest or foot-rest \[A47C 1/034\]\(#\); reclining or easy chairs having coupled adjustable supporting parts including a head-rest in combination with a leg-rest or foot-rest \[A47C 1/037\]\(#\)](#))
- 7/503 . . {with double foot-rests or leg-rests}
- 7/506 . . {of adjustable type}
- 7/5062 . . . {rectilinearly}
- 7/5064 {in vertical direction}
- 7/5066 . . . {by rotation}
- 7/5068 {actuated by linkages}
- 7/52 . . of detachable type
- 7/54 . . Supports for the arms
- 7/541 . . {of adjustable type ([adjustable arm-rests of reclining or easy chairs \[A47C 1/03\]\(#\)](#))}
- 7/543 . . {movable to inoperative position}
- 7/546 . . {of detachable type}
- 7/56 . . Parts or details of tipping-up chairs, e.g. of theatre chairs
- 7/563 . . {provided with a back-rest moving with the seat}
- 7/566 . . {Resiliently mounted seat or back-rest}
- 7/58 . . Hinges, e.g. for mounting chairs in a curved row
- 7/60 . . Use of locks or ledges for limiting the seat movement
- 7/62 . . Accessories for chairs
- 7/622 . . {Receptacles, e.g. cup holders, storage containers}
- 7/624 . . . {located on side of seat, e.g. on armrest}
- 7/626 . . . {directly under the seat}
- 7/628 {accessible by displacement of seat}

- 7/64 . . Hat or coat holders
- 7/66 . . Means to protect against weather
- 7/664 . . . {of umbrella type}
- 7/666 . . . {of enclosure type with side panels}
- 7/68 . . Arm-rest tables {; or back-rest tables}
- 7/70 . . . of foldable type
- 7/705 . . . {of detachable type}
- 7/72 . . Adaptations for incorporating lamps, radio sets, bars, telephones, ventilation, heating or cooling arrangements or the like
- 7/723 . . . {with display screens}
- 7/725 . . . {for illumination, e.g. lamps}
- 7/727 . . . {with speakers}
- 7/74 . . . for ventilation, heating or cooling
- 7/742 {for ventilating or cooling ([A47C 31/116](#) takes precedence)}
- 7/744 {with active means, e.g. by using air blowers or liquid pumps}
- 7/746 {without active means, e.g. with openings or heat conductors}
- 7/748 {for heating}
- 9/00 Stools for specified purposes**
- 9/002 . {with exercising means or having special therapeutic or ergonomic effects}
- 9/005 . . {with forwardly inclined seat, e.g. with a knee-support}
- 9/007 . {High stools, e.g. bar stools}
- 9/02 . Office stools; Workshop stools
- 9/022 . . {movably mounted on a working-table or the like}
- 9/025 . . {Stools for standing or leaning against, e.g. in a semi-standing or half-seated position}
- 9/027 . . {Stools for work at ground level}
- 9/04 . Milking stools
- 9/06 . Wall stools
- 9/08 . Music stools
- 9/10 . Camp, travelling, or sports stools
- 9/105 . . {having several foldable or detachable legs converging in one point}
- 11/00 Benches not otherwise provided for**
- 11/005 . {having multiple separate seats}
- 11/02 . Church benches; Confessionals
- 12/00 Step-stools**
- NOTE**
- Folding or collapsing actions, of interest apart from any conversion between the step and seat functions, are classified in group [A47C 4/00](#)
- 12/02 . requiring conversion between the step and seat functions
- 13/00 Convertible chairs, stools or benches (step-stools requiring conversion between the step and seat functions [A47C 12/02](#))**
- 13/005 . {Modular seating}
- 15/00 Other seating furniture**
- 15/002 . {Corner seating furniture, e.g. corner sofas}
- 15/004 . {Seating furniture for specified purposes not covered by main groups [A47C 1/00](#) or [A47C 9/00](#)}
- 15/006 . . {Floating seats}

- 15/008 . . {for sexual intercourse}
- 16/00 Stand-alone rests or supports for feet, legs, arms, back or head**
- 16/005 . {Back-rests}
- 16/02 . Footstools; Foot-rests; Leg-rests
- 16/025 . . {adjustable, swivelling, rocking}
- 16/04 . Prayer stools; Kneeling stools; Kneeling supports

Sofas; Beds**NOTE**

In groups [A47C 17/00](#) - [A47C 27/00](#), the following terms or expressions are used with the meaning indicated:

- "bedstead" is used only for the frame of a bed;
- "bed" includes bedsteads combined with spring mattresses, stuffed mattresses or similar means to enable the lying of persons thereon;
- "stuffed mattresses" may include metal springs;
- {"spring mattresses" do not include any stuffed material.}

17/00 Sofas; Couches; Beds

- 17/02 . Sofas, couches, settees, or the like, without movable parts
- 17/04 . {Seating furniture, e.g.} sofas, couches, settees, or the like, with movable parts {changeable to beds}; Chair beds
- 17/045 . . {Seating furniture having loose or by fabric hinge connected cushions changeable to beds}
- 17/12 . . changeable to beds by tilting or extending the arm-rests
- 17/13 . . {Seating furniture having non-movable backrest} changeable {to beds} by increasing the available {seat} part, e.g. by drawing {seat cushion} forward
- 17/132 . . . {with multiple seat cushions}
- 17/134 {by lifting or tilting}
- 17/136 . . . {with a single seat cushion}
- 17/138 {by lifting or tilting}
- 17/14 . . changeable to beds by removing parts only
- 17/16 . . {Seating furniture} changeable to beds by tilting or pivoting the back-rest
- 17/161 . . . {with back-rest made of multiple movable cushions}
- 17/162 . . . {with adjustable back-rest}
- 17/163 . . . {and a foot-rest}
- 17/165 . . . with forward tiltable back-rest, e.g. back cushion
- 17/1655 {forming top surface of the bed with non-rotatable seat cushion}
- 17/17 . . . with coupled movement of back-rest and seat
- 17/175 with tilting or lifting seat-back-rest pivot
- 17/1753 {by sliding, e.g. by rollers}
- 17/1756 {by pivoted linkages}
- 17/18 . . . and tilting or pivoting the arm-rest
- 17/20 . . . thereby uncovering one or more auxiliary parts previously hidden ([A47C 17/22](#) takes precedence)
- 17/207 with seat cushion consisting of superposed parts, at least one lower part being used to form part of the surface
- 17/2073 {by sliding forward}
- 17/2076 {by lifting or tilting}

17/213	. . . the surface, when used for lying down, consisting of one side of the seat frame and the back-rest frame	19/00	Bedsteads
17/22	. . with means for uncovering a previously hidden mattress or similar bed part	19/005	. {dismountable}
17/225	. . . {with hidden separate full size mattress frame unfolded out of the base frame}	19/02	. Parts or details of bedsteads not fully covered in a single one of the following subgroups, e.g. bed rails, post rails
17/23	. . . the lying down surface partly consisting of one side of the seat	19/021	. . {Bedstead frames}
17/24	. . . with only one movable part being tiltable about a horizontal axis	19/022	. . . {Head or foot boards}
17/26	. . . . tiltable to an overturned position	19/024	. . . {Legs}
17/28	. . . . having means to lift the tilting axis	19/025	. . . {Direct mattress support frames, Cross-bars}
17/30	. . . two or more parts being rotatable about a vertical axis	19/027	. . . . {with means for preventing frame from sagging}
17/32	. . Changing a single bed into a double bed by extending, pivoting, or tilting a previously hidden second mattress or other bed part	19/028	. . {for joining separate bedsteads}
17/34	. . Joining seats, chairs, or couches to form beds	19/04	. Extensible bedsteads, e.g. with adjustment of length, width, height
17/36	. . . Changing corner couches into a double bed	19/045	. . {with entire frame height or inclination adjustments}
17/37	. . Changing sofas or the like into beds by means of furniture other than seats or chairs	19/12	. Folding bedsteads
17/38	. Wall beds	19/122	. . {foldable head to foot only}
17/40	. . having balancing members, e.g. weights, springs	19/124	. . {foldable side to side only}
17/42	. . having supporting legs with fixed position on the floor, e.g. attached thereto	19/126	. . {foldable side to side and head to foot, e.g. umbrella type}
17/44	. . . having means on the supporting legs facilitating the removal of the bed from its place	19/128	. . {only legs being foldable}
17/46	. . characterised by a rigid mattress-supporting member	19/14	. . of the lazy-tongs type
17/48	. . characterised by two or more relatively-movable parts	19/20	. Multi-stage bedsteads; Bedsteads stackable to multi-stage bedsteads
17/50	. . characterised by their shape, e.g. multiple-wall beds	19/202	. . {Stacking or nesting bedsteads}
17/52	. Cabinet beds; Table beds, or like beds; Wardrobe beds	19/205	. . {convertible, e.g. from single bed or sofa}
17/54	. . in which the cabinet or the like is tilted with the bed	19/207	. . {Mezzanine beds}
17/56	. . pivotable on both horizontal and vertical axis	19/22	. Combinations of bedsteads with other furniture or with accessories, e.g. with bedside cabinets
17/58	. . with extensible mattress support	20/00	Head-, foot- or like rests for beds, sofas or the like
17/60	. . the cabinet being essentially changed in shape in sleeping position of the bed	20/02	. of detachable type (A47C 20/04 , A47C 20/08 take precedence)
17/62	. . Table beds; Billiard table beds, or like beds	20/021	. . {Foot or leg supports}
17/64	. Travelling or camp beds (stretchers A61G 1/00)	20/022	. . . {for preventing the user from slipping down}
17/645	. . {dismountable}	20/023	. . {Arm supports}
17/66	. . having specially-adapted body-carrying surfaces	20/025	. . {Supports specially adapted for pregnant women}
17/68	. . only the legs being foldable	20/026	. . {Supports for lying in a prone position (A47C 20/025 takes precedence)}
17/70	. . the bed frame being foldable about a horizontal axis	20/027	. . {Back supports, e.g. for sitting in bed}
17/705	. . . {with detachable legs}	20/028	. . . {with a table attached thereto}
17/72	. . . having cross legs (A47C 17/82 takes precedence)	20/04	. with adjustable inclination (A47C 20/08 takes precedence)
17/74	. . the bed being foldable about a vertical axis	20/041	. . {by electric motors}
17/76	. . having extensible, e.g. telescopic parts	20/042	. . {by means of screw-and-nut mechanism}
17/78	. . held in shape by stressed cords	20/043	. . {by means of peg-and-notch or pawl-and-ratchet mechanism}
17/80	. . adapted to be used in or connected to vehicles	20/045	. . . {urged into an operative or non-operative position at an end of stretch}
17/82	. . Trunk beds; Travelling-case or like beds	20/046	. . {by means of a rack-and-pinion or like gearing mechanism}
17/84	. Suspended beds, e.g. suspended from ceiling (hammocks A45F 3/22)	20/047	. . {by friction locking means}
17/86	. Parts or details specially adapted for beds, sofas or couches not fully covered by any single one of groups A47C 17/02 - A47C 17/84	20/048	. . {by fluid means}
		20/06	. . the adjustable part immobilising foldable legs
		20/08	. with means for adjusting two or more rests simultaneously
		20/10	. . using rods
		20/12	. . . using telescopic rods
		20/14	. . using plate and catch
		20/16	. . using toothed parts, e.g. racks
		20/18	. . using friction gearing

21/00	Attachments for beds, e.g. sheet holders or bed-cover holders (bed tables supported on the bedstead A47B 23/02); Ventilating, cooling or heating means in connection with bedsteads or mattresses	23/068	. . . {with additional supports between the ends of the slats}
21/003	. {Lighting, radio, telephone or the like connected to the bedstead}	23/12	. using tensioned springs, e.g. flat type (A47C 23/02 takes precedence)
21/006	. {Oscillating, balancing or vibrating mechanisms connected to the bedstead}	23/125	. . {using vertically mounted tension springs}
21/02	. {Holders for loose bed elements, e.g.} sheet holders; bed cover holders	23/14	. . forming nets; combined with nets
21/022	. . {Sheet holders; Bed cover holders}	23/145	. . . with horizontal interlocking wound springs; Attachment thereof to the frame
21/024	. . . {for holding bed covers above the body of the user}	23/15	. . . with braided or crossed flat springs or cords; with horizontal wound springs (A47C 23/145 takes precedence)
21/026	. . {Pillow holders; Mattress holders}	23/155	. . . with combinations of flat springs or link chains with wound springs
21/028	. . {Holders for facilitating making the bed}	23/16	. . of plane meandering type
21/04	. Devices for ventilating, cooling or heating	23/18	. . of resilient webbing
21/042	. . {for ventilating or cooling (A47C 21/028 and A47C 27/007 take precedence)}	23/20	. . of resilient sheet form
21/044	. . . {with active means, e.g. by using air blowers or liquid pumps}	23/22	. . of tensioned rubber cords or like cords
21/046	. . . {without active means, e.g. with openings or heat conductors}	23/24	. . using tensioned textile or other non-resilient strips
21/048	. . {for heating}	23/26	. . Frames therefor; Connecting the springs to the frame
21/06	. Mattress underlays	23/28	. . Tensioning devices therefor
21/08	. Devices for prevention against falling-out, e.g. detachable side walls	23/30	. using combinations of springs covered by more than one of the groups A47C 23/02 - A47C 23/12 ; Frames therefor
23/00	Spring mattresses with rigid frame or forming part of the bedstead, e.g. box springs; Divan bases; Slatted bed bases	23/32	. . Combinations of nets with springs in compression; Frames therefor
23/002	. {with separate resilient support elements, e.g. elastomeric springs arranged in a two-dimensional matrix pattern}	23/34	. with provisions for giving extra support for the head or the legs
23/005	. {foldable or dismountable}	27/00	Spring, stuffed or fluid mattresses {or cushions} specially adapted for chairs, beds or sofas
23/007	. {Edge stiffeners}	27/001	. {with several cushions, mattresses or the like, to be put together in one cover}
23/02	. using leaf springs, e.g. metal strips (wooden springs A47C 23/06)	27/002	. {Mattress or cushion tickings or covers}
23/04	. using springs in compression, e.g. coiled	27/003	. . {having edge welts or rolls}
23/043	. . using wound springs	27/005	. . {liquid-impermeable}
23/0431	. . . {supporting a flat board or strip}	27/006	. . . {breathable}
23/0433	. . . {of different resilience}	27/007	. . {permeable to liquid or air in a special way (A47C 27/006 takes precedence)}
23/0435	. . . {of adjustable resilience}	27/008	. . {protecting against wear or damage}
23/0436	. . . {made from a single wire}	27/04	. with spring inlays (A47C 27/20 takes precedence)
23/0438	. . . {of special shape}	27/045	. . Attachment of spring inlays to coverings; Use of stiffening sheets, lattices or grids under spring inlays
23/047	. . incorporating inflatable elements	27/0453	. . . {Attachment of spring inlays to outer layers}
23/05	. . Frames therefor; Connecting the springs to the frame {; Interconnection of springs, e.g. in spring units}	27/0456	. . . {Use of stiffening sheets, lattices or grids in, on, or under, spring inlays}
23/0507	. . . {using tensioned spiral springs}	27/05	. . with {padding material, e.g.} foamed material, in top, bottom, or side layers
23/0515	. . . {using clamps or similar connecting means}	27/053	. . . {with only one layer of foamed material}
23/0522	. . . {using metal wires}	27/056	. . . {with different layers of foamed material}
23/055	. . . using cords; using textile or rubber bands	27/06	. . Spring inlays or spring units therefor
23/057	. . . Hangers or supports for fastening spring units to frame	27/061	. . . {of adjustable resiliency}
23/06	. using wooden springs, e.g. of slat type	27/062	. . . {of different resiliencies}
23/061	. . {Slat structures}	27/063	. . . {wrapped or otherwise protected}
23/062	. . {Slat supports}	27/064	. . . . {Pocketed springs}
23/063	. . . {by elastic means, e.g. coil springs}	27/065	. . . {of special shape}
23/064	. . . . {by elastomeric springs}	27/066	. . . {Edge stiffeners}
23/065	. . . {by fluid means}	27/067	. . . {of plane meandering type}
23/066	. . . {by chains, ropes or belts}	27/068	. . . {made from a single wire}
23/067	. . . {adjustable, e.g. in height or elasticity}	27/07	. . . Attaching, or interconnecting of, springs in spring inlays
		27/08	. Fluid mattresses

- 27/081 . . {of pneumatic type}
- 27/082 . . . {with non-manual inflation, e.g. with electric pumps}
- 27/083 . . . {with pressure control, e.g. with pressure sensors}
- 27/084 . . . {self inflating}
- 27/085 . . {of liquid type, e.g. filled with water or gel}
- 27/086 . . {with fluid-like particles, e.g. filled with beads}
- 27/087 . . {with means for connecting opposite sides, e.g. internal ties or strips}
- 27/088 . . {incorporating elastic bodies, e.g. foam}
- 27/10 . . with two or more independently-fillable chambers
- 27/12 . with fibrous inlays, e.g. made of wool, of cotton
- 27/121 . . {with different inlays}
- 27/122 . . {with special fibres, such as acrylic thread, coconut, horsehair}
- 27/124 . . {with feathers, down or similar inlays}
- 27/125 . . {with projections, depressions or cavities}
- 27/127 . . {with reinforcement sheets, grids or the like}
- 27/128 . . {with inflatable elements}
- 27/14 . with foamed material inlays
- 27/142 . . {with projections, depressions or cavities}
- 27/144 . . . {inside the mattress or cushion}
- 27/146 . . . {on the outside surface of the mattress or cushion}
- 27/148 . . {of different resilience}
- 27/15 . . consisting of two or more layers ([A47C 27/16 takes precedence](#))
- 27/16 . . reinforced with sheet-like {or rigid} elements, e.g. profiled
- 27/18 . . in combination with inflatable bodies
- 27/20 . . with springs moulded in, or situated in openings in foamed material
- 27/22 . with both fibrous and foamed material inlays
- 31/10 . Loose {or removable} furniture covers
- 31/105 . . {for mattresses}
- 31/11 . . for chairs {(for headrests only [A47C 7/386](#))}
- 31/113 . . . {liquid-impermeable}
- 31/116 . . . {permeable to liquid or air in a special way}
- 31/12 . Means, e.g. measuring means, for adapting chairs, beds or mattresses to the shape or weight of persons
- 31/123 . . {for beds or mattresses}
- 31/126 . . {for chairs}

29/00 Nets for protection against insects in connection with chairs or beds; Bed canopies

- 29/003 . {Bed canopies}
- 29/006 . {Mosquito nets}

31/00 Details or accessories for chairs, beds, or the like, not provided for in other groups of this subclass, e.g. upholstery fasteners, mattress protectors, stretching devices for mattress nets

- 31/001 . {Fireproof means}
- 31/002 . {Anti-earthquake means}
- 31/003 . {Magnets}
- 31/004 . {Means for protecting against undesired influence, e.g. magnetic radiation or static electricity}
- 31/005 . {Use of aromatic materials, e.g. herbs}
- 31/006 . {Use of three-dimensional fabrics}
- 31/007 . {Anti-mite, anti-allergen or anti-bacterial means}
- 31/008 . {Use of remote controls}
- 31/02 . Upholstery attaching means
- 31/023 . . {connecting upholstery to frames, e.g. by hooks, clips, snap fasteners, clamping means or the like}
- 31/026 . . {passing through the upholstery, e.g. upholstery nails or buttons}
- 31/04 . . Clamps for attaching flat elastic strips or flat meandering springs to frames
- 31/06 . . . for attaching flat meandering springs
- 31/08 . Mattress hand-straps