

CPC**COOPERATIVE PATENT CLASSIFICATION****A47C**

CHAIRS (seats specially adapted for vehicles [B60N 2/00](#); { hunting stands, e.g. hunting seats [A01M 31/02](#); seats adapted for angling, e.g. fisherman's seats [A01K 97/22](#); bath seats [A47K 3/12](#); shower seats [A47K 3/282](#); chairs with toilet means [A47K 11/04](#); seats for surgeons, dentists [A61B 19/28](#); chairs for disabled persons [A61G 5/00](#); operating chairs, dental chairs, physiotherapeutic chairs, gynaecological chairs [A61G 15/00](#); chairs with massage means [A61H 2201/0149](#); ski-lift seats [B61B 12/002](#); rail vehicles seats [B61D 33/00](#); vessel furniture, e.g. boat seats [B63B 29/04](#); aircraft seats [B64D 11/06](#) }) ;
SOFAS; BEDS (upholstery in general [B68G](#) ; { beds specially adapted for nursing [A61G 7/00](#); sleeping accommodation for caravans [B60P 3/38](#), sleeping accommodation for rail vehicles [B61D 31/00](#); sleeping accommodation for load-carrying vehicles [B62D 33/0612](#); berths for vessels [B63B 29/10](#) })

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A47C 1/038](#) covered by [A47C 1/0355](#)
[A47C 23/053](#) covered by [A47C 23/05B](#), [A47C 23/05B2](#), [A47C 23/05B3](#)

Guidance heading: **Chairs; Stools; Benches**

A47C 1/00

Chairs adapted for special purposes (features relating to vertical adjustability [A47C 3/20](#); convertible chairs [A47C 13/00](#); chairs or personal conveyances specially adapted for patients or disabled persons [A61G 5/00](#); operating chairs, dental chairs [A61G 15/00](#))

- A47C 1/02 . Reclining or easy chairs (supports for parts of body [A47C 7/36](#), [A47C 7/50](#), [A47C 7/54](#))
- A47C 1/022 .. having independently-adjustable supporting parts
- A47C 1/023 ... the parts being horizontally-adjustable seats; {Expandable seats or the like,e.g. seats with horizontally adjustable parts }
- A47C 1/024 ... the parts, being the back-rest, or the back-rest and seat unit, having adjustable { and lockable } inclination
 - A47C 1/0242 { by electric motors }
 - A47C 1/0244 { by fluid means }
 - A47C 1/0246 { by means of screw-and-nut mechanism }
 - A47C 1/0248 { by chains, ropes or belts }
 - A47C 1/025 by means of a { rack-and-pinion } or like gearing mechanism
 - A47C 1/026 by means of peg-and-notch or { pawl-and-ratchet } mechanism
 - A47C 1/0265 { positioned under the arm-rests }
 - A47C 1/027 by means of clamps or friction locking members
 - A47C 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 }
 - A47C 1/029 by changing the length or the inclination of the legs { (varying the height of a

- seat by inclining the legs [A47C 3/36](#) }
- A47C 1/03 ... the parts being arm-rests { (conversion into a bed [A47C 17/12](#)) }
 - A47C 1/031 .. having coupled adjustable supporting parts
 - A47C 1/032 ... the parts being movably-coupled seat and back-rest ([A47C 1/035](#) takes precedence)
 - A47C 1/03205 { having adjustable and lockable inclination }
 - A47C 1/03211 { by electric motors }
 - A47C 1/03216 { by fluid means }
 - A47C 1/03222 { by means of screw-and-nut mechanism }
 - A47C 1/03227 { by chains, ropes or belts }
 - A47C 1/03233 { by means of a rack-and-pinion or like gearing mechanism }
 - A47C 1/03238 { by means of peg-and-notch or pawl-and-ratchet mechanism }
 - A47C 1/03244 { positioned under the arm-rests }
 - A47C 1/0325 { by means of clamps or friction locking members }
 - A47C 1/03255 {with a central column, e.g. rocking office chairs (seat and back-rest not movably coupled [A47C 3/026](#)) }
 - A47C 1/03261 { characterised by elastic means }
 - A47C 1/03266 { with adjustable elasticity }
 - A47C 1/03272 { with coil springs }
 - A47C 1/03277 { with leaf springs }
 - A47C 1/03283 { with fluid springs }
 - A47C 1/03288 { with resilient blocks }
 - A47C 1/03294 { slidingly movable in the base frame, e.g. by rollers }
 - A47C 1/033 the coupling member being a flexible strip
 - A47C 1/034 ... the parts including a leg-rest or foot-rest ([A47C 1/037](#) takes precedence; { supports for the feet or the legs coupled to fixed parts of the chair [A47C 7/50](#); independent foot-rests or leg-rests [A47C 16/02](#) }
 - A47C 1/0342 { in combination with movable backrest-seat unit or back-rest }
 - A47C 1/0345 { characterised by foot-rests actuated by lazy-tongs }
 - A47C 1/0347 { characterised by the backrest-seat unit or back-rest slidingly movable in the base frame, e.g. by rollers }
 - A47C 1/035 in combination with movably coupled seat and back-rest, { i.e. the seat and back-rest being movably coupled in such a way that the extension mechanism of the foot-rest is actuated at least by the relative movements of seat and backrest }
 - A47C 1/0352 { characterised by coupled seat and back-rest slidingly movable in the base frame. e.g. by rollers }
 - A47C 1/0355 actuated by linkages, e.g. lazy-tongs mechanisms
 - A47C 1/036 ... the parts including a head-rest
 - A47C 1/037 in combination with a leg-rest or foot-rest
 - A47C 1/04 . Hairdressers` or similar chairs, { e.g. beauty salon chairs }
 - A47C 1/06 .. adjustable
 - A47C 1/08 .. with auxiliary seats ([insertable seats for children A47C 1/11](#))
 - A47C 1/10 .. with head-rests; with paper holders

- A47C 1/11 . . Accessories not otherwise provided for, e.g. seats for children
- A47C 1/12 . Theatre, auditorium, or similar chairs (seats { detachably mounted on } stadium benches [A47C 1/16](#))
- A47C 1/121 . . having tipping-up seats
- A47C 1/122 . . . tipping-up sideways
- A47C 1/124 . . Separate chairs, connectible together into a row
- A47C 1/126 . . stowable in floor or wall
- A47C 1/13 . . Indicators; Devices for reserving or the like { (coin-freed apparatus for seats or footstools [G07F 17/08](#)) }
- A47C 1/14 . Beach chairs; {Chairs for outdoor use, e.g. chairs for relaxation or sun-tanning }
- A47C 1/143 . . { Chaise longues }
- A47C 1/146 . . { of legless type }
- A47C 1/16 . {Chairs or } seats detachably mounted on stadium benches (detachably mounted children's chairs [A47D 1/10](#))
- A47C 3/00 Chairs characterised by structural features; Chairs or stools with rotatable or vertically-adjustable seats ([A47C 1/00](#), [A47C 4/00](#) take precedence)**
- A47C 3/02 . Rocking chairs (specially for children [A47D 13/10](#))
- A47C 3/021 . . having elastic frames
- A47C 3/023 . . . made of tubular material
- A47C 3/025 . . with seat, or seat and back-rest unit elastically { or pivotally } mounted in a rigid { base } frame
- A47C 3/0252 . . . { connected only by an elastic member positioned between seat and base frame }
- A47C 3/0255 . . . { pivotally mounted in the base frame, e.g. swings }
- A47C 3/0257 . . . { slidably movable in the base frame, e.g. by rollers }
- A47C 3/026 . . . with central column, e.g. rocking office chairs ; Tilting chairs
- A47C 3/027 . . . with curved rocking members between seat and { base } frame
- A47C 3/029 . . with curved rocking members resting on the floor
- A47C 3/03 . . Locking members ([A47C 3/027](#) takes precedence)
- A47C 3/04 . Stackable chairs; Nesting chairs
- A47C 3/045 . . {with tipping-up seats }
- A47C 3/12 . with shell-shape seat and back-rest unit, e.g. having arm rests
- A47C 3/14 . of asymmetrical shape
- A47C 3/16 . of legless type, e.g. with seat directly resting on the floor ([A47C 3/14](#) takes precedence; detachably mounted on stadium benches [A47C 1/16](#); children's chairs mounted on back-rest of chair [A47D 1/10](#), { legless beach chairs [A47C 1/146](#); inflatable chairs [A7C4/54](#) }) ; Hassocks; Pouffes
- A47C 3/18 . Chairs or stools with rotatable seat (adjustable in height by rotation [A47C 3/24](#))

- A47C 3/185 .. { self-returning to the original position }
- A47C 3/20 . Chairs or stools with vertically-adjustable seats (tables with variable height [A47B 9/00](#); {locking of telescopic systems in general [F16B 7/10](#) })
- A47C 3/22 .. with balancing device, e.g. by spring, by weight
- A47C 3/24 .. with vertical spindle
- A47C 3/245 ... {resiliently supported }
- A47C 3/26 .. with vertical, { or inclined } toothed rack; { with peg-and-notch mechanism }
- A47C 3/265 ... { with rack-and-pinion gearing }
- A47C 3/28 .. with clamps acting on vertical rods
- A47C 3/285 ... {with radially expansible clamping elements telescopically engaged in a tube or the like }
- A47C 3/30 .. with vertically-acting fluid cylinder
- A47C 3/32 .. with flexible height-adjusting means, e.g. rope, chain
- A47C 3/34 .. with pins coacting with holes {or bolt-and-nut adjustment }
- A47C 3/36 .. with means, or adapted, for inclining the legs of the chair or stool for varying height of seat
- A47C 3/38 .. with additional seat or additional legs for varying height of seat
- A47C 3/40 .. Telescopic guides

A47C 4/00 **Foldable, collapsible or dismountable chairs** (of tubular metal type [A47C 5/10](#); children`s foldable chairs [A47D 1/02](#))

- A47C 4/02 . Dismountable chairs
- A47C 4/021 .. { connected by slotted joints }
- A47C 4/022 .. { connected by bars or wires }
- A47C 4/024 .. { having integral back-rest and rear leg }
- A47C 4/025 .. { having integral back-rest and front leg }
- A47C 4/027 .. { having integral seat and rear leg }
- A47C 4/028 .. { Upholstered chairs, e.g. metal, plastic or wooden chairs }
- A47C 4/03 .. Non-upholstered { chairs, e.g. metal, plastic or } wooden chairs
- A47C 4/04 . Folding chairs with inflexible seats
- A47C 4/045 .. { foldable side to side only }
- A47C 4/06 .. Attachment of upholstery or fabric to frames (in general [A47C 31/02](#))
- A47C 4/08 .. having a frame made of wood or plastics
- A47C 4/10 ... with legs pivotably connected to seat or underframe
- A47C 4/12 of adjustable type ([A47C 4/14](#) takes precedence)
- A47C 4/14 with cross legs
- A47C 4/16 of adjustable type
- A47C 4/18 .. having a frame made of metal
- A47C 4/20 ... with legs pivotably connected to seat or underframe
- A47C 4/22 of adjustable type ([A47C 4/24](#) takes precedence)
- A47C 4/24 with cross legs

- A47C 4/26 of adjustable type
- A47C 4/28 . Folding chairs with flexible coverings for the seat or back elements
- A47C 4/283 . . { foldable side to side only }
- A47C 4/286 . . { foldable side to side and front to back, e.g. umbrella type }
- A47C 4/30 . . Attachment of upholstery or fabric to frames (in general [A47C 31/02](#))
- A47C 4/32 . . having a frame made of wood or plastics
- A47C 4/34 . . . with legs pivotably connected to seat or underframe
- A47C 4/36 of adjustable type ([A47C 4/38](#) takes precedence)
- A47C 4/38 . . . with cross legs
- A47C 4/40 of adjustable type
- A47C 4/42 . . having a frame made of metal
- A47C 4/44 . . . with legs pivotably connected to seat or underframe
- A47C 4/46 of adjustable type ([A47C 4/48](#) takes precedence)
- A47C 4/48 . . . with cross legs
- A47C 4/50 of adjustable type
- A47C 4/52 . Trunk chairs, i.e. chairs collapsible to { self contained carrying case, e.g. } trunk shape (trunk tables [A47B 3/10](#))
- A47C 4/54 . inflatable chairs (connection of valves to inflatable elastic bodies [B60C 29/00](#))
- A47C 5/00 Chairs of special materials**
- A47C 5/005 . { of paper, cardboard or similar pliable material }
- A47C 5/02 . { of woven material, e.g. } basket chairs
- A47C 5/04 . Metal chairs, e.g. tubular (of rocking type [A47C 3/023](#); of non-tubular folding, collapsible, or dismountable type [A47C 4/00](#))
- A47C 5/043 . . { of tubular non-circular cross-section }
- A47C 5/046 . . { of non-tubular cross-section }
- A47C 5/06 . . Special adaptation of seat upholstery or fabric for attachment to tubular chairs
- A47C 5/08 . . Tubular chairs having sheathed tubes; Adaptation of sheathed tubes thereto
- A47C 5/10 . . Tubular chairs of foldable, collapsible, or dismountable type
- A47C 5/12 . of plastics, with or without reinforcement
- A47C 5/125 . . { completely made of foam material }
- A47C 5/14 . characterised by the use of laminated wood
- A47C 7/00 Parts, details, or accessories of chairs or stools ([attaching to floor A47B 91/08](#))**
- A47C 7/002 . { Chair or stool bases ([A47C 3/20](#) takes precedence) }
- A47C 7/004 . . { for chairs or stools with central column, e.g. office chairs }
- A47C 7/006 . . { with castors }

- A47C 7/008 .. { for uneven surfaces }
- A47C 7/02 . Seat parts (adaptation of seats to mounting in tubular chairs [A47C 5/06](#); such parts not restricted to chairs [A47C 23/00](#); removable upholstered units or cushions [A47C 27/00](#))
- A47C 7/021 .. { Detachable or loose seat cushions }
- A47C 7/022 .. {especially profiled for adaptation to body contour }
- A47C 7/024 .. { with double seats }
- A47C 7/025 .. { Springs not otherwise provided for in [A47C 7/22](#) - [A47C 7/35](#) }
- A47C 7/027 ... { with elastomeric springs ([A47C 7/282](#) takes precedence) }
- A47C 7/028 ... { with wooden springs, e.g. slated type }
- A47C 7/14 .. of adjustable shape; elastically mounted
- A47C 7/16 .. Seats made of wooden, plastics, or metal sheet material; Panel seats
- A47C 7/18 .. having foamed material included in cushioning part ([foamed material mattresses A47C 27/14](#))
- A47C 7/185 ... {with a stiff, rigid support }
- A47C 7/20 ... with reinforcement {in the foam layer }
- A47C 7/22 .. Straps or the like for { direct user support or for } carrying upholstery
- A47C 7/24 .. Upholstered seats ([A47C 7/18](#) takes precedence)
- A47C 7/26 ... with reinforcement { of the external layer of the upholstery, e.g. vandal resistant }
- A47C 7/28 .. with tensioned springs, e.g. of flat type
- A47C 7/282 ... { with mesh-like supports, e.g. elastomeric membranes }
- A47C 7/285 ... { with metal strips or webs }
- A47C 7/287 ... { with combinations of different types flat type tensioned springs }
- A47C 7/30 ... with springs meandering in a flat plane
- A47C 7/32 ... with tensioned cords, e.g. of elastic type, in a flat plane
- A47C 7/34 .. with springs in compression, e.g. coiled
- A47C 7/342 ... { Edge stiffeners }
- A47C 7/345 ... {of adjustable resilience} }
- A47C 7/347 ... { with means for connecting springs to each other or to seat frame }
- A47C 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 }
- A47C 7/36 . Support for the head or the back
- A47C 7/38 .. for the head { (adjustable coupled to reclining or easy chairs [A47C 1/036](#); for operating or dental chairs [A61G 15/00](#); for car seats [B60N 2/48](#)) }
- A47C 7/383 ... { Detachable or loose head- or neck-supports, e.g. horse-shoe shaped (detachable head rests for cars [B60N 2/4879](#)) }
- A47C 7/386 ... { Detachable covers for headrests }
- A47C 7/40 .. for the back
- A47C 7/402 ... { adjustable in height }
- A47C 7/405 ... { with double backrests }
- A47C 7/407 ... { of collapsible type }

- A47C 7/42 . . . of detachable { or loose } type { (detachable or loose back supports associated with beds [A47C 20/027](#)) }
- A47C 7/425 { Supplementary back-rests to be positioned on a back-rest or the like }
- A47C 7/44 . . . with elastically-mounted { back-rest or backrest-seat unit in the base } frame
- A47C 7/441 { with adjustable elasticity }
- A47C 7/443 { with coil springs }
- A47C 7/445 { with leaf springs }
- A47C 7/446 { with fluid springs }
- A47C 7/448 { with resilient blocks }
- A47C 7/46 . . . with special, e.g. adjustable, { lumbar region support } profile; "Ackerblom" profile chairs
- A47C 7/462 { adjustable by mechanical means }
- A47C 7/465 { by pulling an elastic cable }
- A47C 7/467 { adjustable by fluid means }
- A47C 7/48 . . . of freely-rotatable type
- A47C 7/50 . Supports for the feet or the legs { coupled to fixed parts of the chair } (coupled to other adjustable parts { of the chair } [A47C 1/034](#), [A47C 1/037](#); { stand-alone rests or supports for the feet or the legs, e.g. } footstools [A47C 16/02](#))
- A47C 7/503 . . { with double foot-rests or leg-rests }
- A47C 7/506 . . { of adjustable type }
- A47C 7/52 . . of detachable type
- A47C 7/54 . Supports for the arms
- A47C 7/543 . . { movable to inoperative position }
- A47C 7/546 . . { of detachable type }
- A47C 7/56 . Parts or details of tipping-up chairs, e.g. of theatre chairs
- A47C 7/563 . . {provided with a back-rest moving with the seat }
- A47C 7/566 . . {Resiliently mounted seat or back-rest }
- A47C 7/58 . . Hinges, e.g. for mounting chairs in a curved row (hinges for wings in general [E05D](#))
- A47C 7/60 . . Use of locks or ledges for limiting the seat movement { (coin-freed apparatus for seats or footstools [G07F 17/08](#)) }
- A47C 7/62 . Accessories for chairs
- A47C 7/64 . . Hat or coat holders
- A47C 7/66 . . Means to protect against weather
- A47C 7/68 . . Arm-rest tables; {or back-rest tables (suspended or hinged panels forming a table [A47B 5/00](#)) ; Cup holders }
- A47C 7/70 . . . of foldable {or detachable } type
- A47C 7/72 . . Adaptations for incorporating lamps, radio sets, bars, telephones, ventilation, heating or cooling arrangements or the like
- A47C 7/725 . . . { for illumination, e.g. lamps }
- A47C 7/74 . . . for ventilation, heating or cooling { (actuated by rocking the chair [A47C 3/02](#)) }
- A47C 7/742 { for ventilating or cooling ([A47C 31/116](#) takes precedence) }

- A47C 7/744 { with active means, e.g. by using air blowers or liquid pumps }
- A47C 7/746 { without active means, e.g. with openings or heat conductors }
- A47C 7/748 {for heating }

A47C 9/00 **Stools for specified purposes** (with rotatable seats [A47C 3/18](#); with vertically adjustable seats [A47C 3/20](#); footstools [A47C 16/02](#); prayer stools [A47C 16/04](#); platforms or seat-boxes specially adapted for angling [A01K 97/22](#)) {other seating furniture for specified purposes [A47C 15/004](#) }

- A47C 9/002 . {with exercising means or having special therapeutic or ergonomic effects }
- A47C 9/005 . . {with forwardly inclined seat, e.g. with a knee-support }
- A47C 9/007 . { High stools, e.g. bar stools (children's high chairs [A47D 1/00](#)) }
- A47C 9/02 . Office stools {not provided for in main groups [A47C 1/00](#), [A47C 3/00](#) or [A47C 7/00](#) }; Workshop stools
- A47C 9/022 . . {movably mounted on a working-table or the like (for hairdressers [A47C 1/08](#)) }
- A47C 9/025 . . {Stools for standing or leaning against, e.g. in a semi-standing or half-seated position }
- A47C 9/027 . . {Stools for work at ground level }
- A47C 9/04 . Milking stools
- A47C 9/06 . Wall stools; {Stools hingedly mounted against the wall }
- A47C 9/08 . Music stools
- A47C 9/10 . Camp, travelling, or sports stools (walking sticks or umbrellas convertible into seats, hunting sticks [A45B 5/00](#))
- A47C 9/105 . . { having several foldable or detachable legs converging in one point }

A47C 11/00 **Benches not otherwise provided for** (school forms [A47B 39/00](#))

- A47C 11/005 . { having multiple separate seats }
- A47C 11/02 . Church benches; Confessionals

A47C 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](#)

- A47C 12/02 . requiring conversion between the step and seat functions

A47C 13/00 **Convertible chairs, stools, or benches** (step-stools requiring conversion between the step and seat functions [A47C 12/02](#); stretchers, for patients or disabled persons, convertible into chairs [A61G 1/017](#))

A47C 13/005 . {Modular seating (chairs connectible into a row [A47C 1/124](#)) }

A47C 15/00 **Other seating furniture** (school forms [A47B 39/00](#))

A47C 15/002 . { Corner seating furniture, e.g. corner sofas (changing corner couches into double bed [A47C 17/36](#)) }

A47C 15/004 . {Seating furniture for specified purposes not covered by main groups [A47C 1/00](#) or [A47C 9/00](#) }

A47C 15/006 . . { Floating seats (floatable vessel furniture for life-saving [B63C 9/30](#)) }

A47C 15/008 . . { for sexual intercourse }

A47C 16/00 { Stand-alone } **rests or supports for feet, legs, arms, back or head** (associated with chairs [A47C 7/00](#); associated with beds or sofas [A47C 20/00](#))

A47C 16/005 . { Back-rests }

A47C 16/02 . Footstools; Foot-rests; Leg-rests

A47C 16/025 . . {adjustable, swivelling, rocking }

A47C 16/04 . Prayer-stools; Kneeling stools; Kneeling supports (hassocks or pouffes [A47C 3/16](#))

Guidance heading: Sofas; Beds

NOTE

In groups [A47C 17/00](#) to [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;
- "spring mattresses" do not include any stuffed material;
- "stuffed mattresses" may include metal springs.

A47C 17/00 **Sofas; Couches; Beds** (bedsteads [19/00](#); spring mattresses [A47C 23/00](#); divan bases [A47C 23/00](#); stuffed mattresses [A47C 27/00](#); beds with special provisions for nursing [A61G 7/00](#))

A47C 17/02 . Sofas, couches, settees, or the like, without movable parts

A47C 17/04 . { Seating furniture, e.g. } sofas, couches, settees, or the like, with movable parts [changeable to beds]; Chair beds

A47C 17/045 . . { Seating furniture having loose or by fabric hinge connected cushions changeable to beds }

A47C 17/12 . . changeable to beds by tilting or extending the arm-rests

A47C 17/13 . . { Seating furniture having non-movable backrest } changeable { to beds } by increasing the available { seat } part, e.g. by drawing { seat cushion } forward

- A47C 17/132 ... { with multiple seat cushions }
- A47C 17/134 { by lifting or tilting }
- A47C 17/136 ... { with a single seat cushion }
- A47C 17/138 { by lifting or tilting }
- A47C 17/14 .. changeable to beds by removing parts only
- A47C 17/16 .. { Seating furniture } changeable to beds by tilting or pivoting the back-rest
- A47C 17/161 ... { with back-rest made of multiple movable cushions }
- A47C 17/162 ... { with adjustable back-rest }
- A47C 17/163 ... { and a foot-rest }
- A47C 17/165 ... with forward tiltable back-rest, e.g. back cushion
- A47C 17/1655 { forming top surface of the bed with non-rotatable seat cushion }
- A47C 17/17 ... with coupled movement of back-rest and seat
- A47C 17/175 with tilting or lifting seat-back-rest pivot
- A47C 17/1753 { by sliding, e.g. by rollers }
- A47C 17/1756 { by pivoted linkages }
- A47C 17/18 ... and tilting or pivoting the arm-rest
- A47C 17/20 ... thereby uncovering one or more auxiliary parts previously hidden ([A47C 17/22](#) takes precedence)
- A47C 17/207 with seat cushion consisting of { multiple } superposed parts, at least one lower { hidden } part being used to form part of the { bed } surface
- A47C 17/2073 { by sliding forward }
- A47C 17/2076 { by lifting or tilting }
- A47C 17/213 the surface, when used for lying down { in a bed position }, consisting of one side of the { seating furniture } seat frame and the back-rest frame
- A47C 17/22 .. { Seating furniture having non-movable back-rest changeable to beds } with means for uncovering a previously hidden mattress or similar bed part
- A47C 17/225 ... { with hidden separate full size mattress frame unfolded out of the base frame }
- A47C 17/23 ... the lying down { bed } surface partly consisting of one side of the seat
- A47C 17/24 ... with only one movable part being tiltable about a horizontal axis
- A47C 17/26 tiltable to an overturned position
- A47C 17/28 having means to lift the tilting axis
- A47C 17/30 ... two or more parts being rotatable about a vertical axis
- A47C 17/32 .. Changing a single bed into a double bed by extending, pivoting, or tilting a previously hidden second mattress or other bed part
- A47C 17/34 .. Joining seats, chairs, or couches to form beds
- A47C 17/36 ... Changing corner couches into a double bed
- A47C 17/37 .. Changing sofas or the like into beds by means of furniture other than seats or chairs
- A47C 17/38 . Wall beds
- A47C 17/40 .. having balancing members, e.g. weights, springs
- A47C 17/42 .. having supporting legs with fixed position on the floor, e.g. attached thereto
- A47C 17/44 ... having means on the supporting legs facilitating the removal of the bed from its place
- A47C 17/46 .. characterised by a rigid mattress-supporting member

- A47C 17/48 . . characterised by two or more relatively-movable { [mattress-support](#) } parts
- A47C 17/50 . . characterised by their shape, e.g. multiple-wall beds
- A47C 17/52 . Cabinet beds; Table beds, or like beds; Wardrobe beds
- A47C 17/54 . . in which the cabinet or the like is tilted with the bed
- A47C 17/56 . . pivotable on both horizontal and vertical axis
- A47C 17/58 . . with extensible mattress support
- A47C 17/60 . . the cabinet being essentially changed in shape in sleeping position of the bed
- A47C 17/62 . . Table beds; Billard table beds, or like beds { [\(convertible tables A47B 85/06\)](#) }
- A47C 17/64 . Travelling or camp beds ([adjusting members for rests A47C 20/00](#); [travelling or camp sacks or packs convertible into beds or mattresses A45F 4/06](#); [stretchers A61G 1/00](#))
- A47C 17/645 . . { [dismountable](#) }
- A47C 17/66 . . having specially-adapted body-carrying surfaces
- A47C 17/68 . . only the legs being foldable
- A47C 17/70 . . the bed frame being foldable about a horizontal axis
- A47C 17/705 . . . { [with detachable legs](#) }
- A47C 17/72 . . . having cross legs ([A47C 17/82 takes precedence](#))
- A47C 17/74 . . the bed being foldable about a vertical axis
- A47C 17/76 . . having extensible, e.g. telescopic parts
- A47C 17/78 . . held in shape by stressed cords
- A47C 17/80 . . adapted to be used in or connected to vehicles
- A47C 17/82 . . Trunk beds; Travelling-case or like beds
- A47C 17/84 . Suspended beds, e.g. suspended from ceiling ([hammocks A45F 3/22](#))
- A47C 17/86 . Parts or details for beds, sofas or couches only not fully covered in a single one of the sub-groups [A47C 17/02](#), [A47C 17/04](#), [A47C 17/38](#), [A47C 17/52](#), [A47C 17/64](#), or [A47C 17/84](#); { [Drawers in or under beds](#) }
- A47C 19/00** **Bedsteads** ([spring mattresses with rigid frame or forming part of the bedstead A47C 23/00](#); [bed jointing members or fittings for bedsteads F16B](#))
- A47C 19/005 . . { [dismountable](#) }
- A47C 19/02 . Parts or details of bedsteads not fully covered in a single one of the following sub-groups, e.g. bed rails, post rails
- A47C 19/021 . . { [Bedstead frames](#) }
- A47C 19/022 . . . { [Head or foot boards](#) }
- A47C 19/024 . . . { [Legs](#) }
- A47C 19/025 . . . { [Direct mattress support frames, Cross-bars](#) }
- A47C 19/027 { [with means for preventing frame from sagging](#) }
- A47C 19/028 . . { [for joining separate bedsteads](#) }
- A47C 19/04 . Extensible bedsteads, e.g. with adjustment of length, width, height ([for children`s beds A47D 7/00](#))

- A47C 19/045 . . { with entire frame height or inclination adjustments }
- A47C 19/12 . Folding bedsteads (travelling or camp beds [A47C 17/64](#))
- A47C 19/122 . . { foldable head to foot only }
- A47C 19/124 . . { foldable side to side only }
- A47C 19/126 . . { foldable side to side and head to foot, e.g. umbrella type }
- A47C 19/128 . . { only legs being foldable }
- A47C 19/14 . . of the lazy-tongs type
- A47C 19/20 . Multi-stage bedsteads; { e.g. bunk beds } (multiple-wall beds [A47C 17/50](#); suspended beds [A47C 17/84](#)) ; Bedsteads stackable to multi-stage bedsteads
- A47C 19/202 . . { Stacking or nesting bedsteads }
- A47C 19/205 . . { convertible, e.g. from single bed or sofa }
- A47C 19/207 . . { Mezzanine beds }
- A47C 19/22 . Combinations of bedsteads with other furniture or with accessories, e.g. with bedside cabinets (bed-tables [A47B 23/00](#); { bedside cabinets [A47B 79/00](#) })
- A47C 20/00** **Head -, foot -, or like rests for beds, sofas or the like** (book rests or bed tables [A47B 23/00](#); bed-rests specially adapted for nursing [A61G 7/065](#))
- A47C 20/02 . of detachable { or loose } type ([A47C 20/04](#), [A47C 20/08](#) take precedence; { for chairs [A47C 7/00](#); pillows [A47G 9/10](#) })
- A47C 20/021 . . { Foot or leg supports }
- A47C 20/022 . . . { for preventing the user from slipping down }
- A47C 20/023 . . { Arm supports }
- A47C 20/025 . . { Supports specially adapted for pregnant women }
- A47C 20/026 . . { Supports for lying in a prone position ([A47C 20/025](#) takes precedence) }
- A47C 20/027 . . { Back supports, e.g. for sitting in bed }
- A47C 20/028 . . . { with a table attached thereto }
- A47C 20/04 . with adjustable inclination ([A47C 20/08](#) takes precedence)
- A47C 20/041 . . { by electric motors }
- A47C 20/042 . . { by means of screw-and-nut mechanism }
- A47C 20/043 . . { by means of peg-and-notch or pawl-and-ratchet mechanism }
- A47C 20/045 . . . { urged into an operative or non-operative position at an end of stretch }
- A47C 20/046 . . { by means of a rack-and-pinion or like gearing mechanism }
- A47C 20/047 . . { by friction locking means }
- A47C 20/048 . . { by fluid means }
- A47C 20/06 . . the adjustable part immobilising foldable legs
- A47C 20/08 . with means for adjusting two or more rests simultaneously
- A47C 20/10 . . using rods
- A47C 20/12 . . . using telescopic rods
- A47C 20/14 . . using plate and catch

- A47C 20/16 . . . using toothed parts, e.g. racks
- A47C 20/18 . . . using friction gearing

A47C 21/00 **Attachments for beds, e.g. sheet holders, bed-cover holders** (bed tables supported on the bedstead [A47B 23/02](#); for children`s beds {[A47D 7/00](#) }, [A47D 15/00](#)) ;
Ventilating, cooling or heating means in connection with bedsteads or mattresses

- A47C 21/003 . {Lighting, radio, telephone or the like connected to the bedstead }
- A47C 21/006 . {Oscillating, balancing or vibrating mechanisms connected to the bedstead (for children`s beds [A47D 9/02](#)) }
- A47C 21/02 . { Holders for loose bed elements, e.g. } sheet holders; bed cover holders
- A47C 21/022 . . { Sheet holders; Bed cover holders }
- A47C 21/024 . . . { for holding bed covers above the body of the user (bed-clothes supports to alleviate the weight of the bed-clothes on the patient [A61G 7/0501](#)) }
- A47C 21/026 . . {Pillow holders; Mattress holders }
- A47C 21/028 . . { Holders for facilitating making the bed }
- A47C 21/04 . Devices for ventilating, cooling or heating
- A47C 21/042 . . { for ventilating or cooling ([A47C 21/028](#) and [A47C 27/007](#) take precedence) }
- A47C 21/044 . . . { with active means, e.g. by using air blowers or liquid pumps }
- A47C 21/046 . . . { without active means, e.g. with openings or heat conductors }
- A47C 21/048 . . {for heating }
- A47C 21/06 . Mattress underlays { (mattress tickings or covers [A47C 27/002](#)) }
- A47C 21/08 . Devices for prevention against falling-out, e.g. detachable sidewalls (for children`s beds [A47D 7/00](#))

A47C 23/00 **Spring mattresses with rigid frame or forming part of the bedstead; Divan bases;**
{Slatted bed bases } (unframed spring units [A47C 25/00](#); spring units forming part of stuffed mattresses [A47C 27/00](#))

- A47C 23/002 . { with separate support elements, e.g. elastomeric springs arranged in a two-dimensional matrix pattern }
- A47C 23/005 . { foldable or dismountable }
- A47C 23/007 . {Edge stiffeners (for chair seats [A47C 7/342](#); for stuffed mattresses [A47C 27/06](#)) }
- A47C 23/02 . using leaf springs, e.g. metal strips ([wooden springs](#) [A47C 23/06](#))
- A47C 23/04 . using springs in compression, e.g. coiled
- A47C 23/043 . . using wound springs
- A47C 23/0431 . . . { supporting a flat board or strip }
- A47C 23/0433 . . . { of different resilience }
- A47C 23/0435 . . . { of adjustable resilience }

- A47C 23/0436 . . . { made from a single wire }
- A47C 23/0438 . . . { of special shape }
- A47C 23/047 . . incorporating inflatable elements
- A47C 23/05 . . Frames therefor; Connecting the springs to the frame; { Interconnection of springs, e.g. in spring units }
- A47C 23/0507 . . . { using tensioned spiral springs }
- A47C 23/0515 . . . { using clamps or similar connecting means }
- A47C 23/0522 . . . { using metal wires }
- A47C 23/055 . . . using cords; using textile or rubber bands
- A47C 23/057 . . . Hangers or supports for fastening spring units to frame

- A47C 23/06 . using wooden springs, e.g. of slat type; { Slatted bed bases }
- A47C 23/061 . . { Slat structures }
- A47C 23/062 . . { Slat supports }
- A47C 23/063 . . . { by elastic means, e.g. coil springs }
- A47C 23/064 { by elastomeric springs }
- A47C 23/065 . . . { by fluid means }
- A47C 23/066 . . . { by chains, ropes or belts }
- A47C 23/067 . . . { adjustable, e.g. in height or elasticity }
- A47C 23/068 . . . { with additional supports between the ends of the slats }

- A47C 23/12 . using tensioned springs, e.g. flat type ([A47C 23/02](#) takes precedence)
- A47C 23/125 . . { using vertically mounted tension springs }
- A47C 23/14 . . forming nets; combined with nets
- A47C 23/145 . . . with horizontal interlocking wound springs; Attachment thereof to the frame
- A47C 23/15 . . . with braided or crossed flat springs or cords; with horizontal wound springs ([A47C 23/145](#) takes precedence)
- A47C 23/155 . . . with combinations of flat springs or link chains with wound spring
- A47C 23/16 . . of plane meandering type
- A47C 23/18 . . of resilient webbing
- A47C 23/20 . . of resilient sheet form
- A47C 23/22 . . of tensioned rubber cords or like cords
- A47C 23/24 . . using tensioned textile or other non-resilient strips
- A47C 23/26 . . Frames therefor; Connecting the springs to the frame
- A47C 23/28 . . Tensioning devices therefor

- A47C 23/30 . using combinations of springs covered by more than one of the groups [A47C 23/04](#), [A47C 23/06](#) and [A47C 23/12](#); Frames therefor
- A47C 23/32 . . Combinations of nets with springs in compression; Frames therefor

- A47C 23/34 . with provisions for giving extra support for the head or the legs

- A47C 25/00** **Unframed spring units**

WARNING

This group and its subgroup are no longer used for classification of new documents as from October 1, 2012.

The backfile is being continuously reclassified to groups [A47C 23/00](#), [A47C 27/06](#) and subgroups thereof.

[A47C 25/02](#)

- . without additional connecting means between the springs

[A47C 27/00](#)**Stuffed or fluid mattresses specially adapted for chairs, beds or sofas**

(arrangements for preventing bed-sores or for supporting patients with burns, e.g. mattresses specially adapted therefor, [A61G 7/057](#); ready-made upholstery pads in general [B68G 5/00](#); making mattresses [B68G 7/00](#))

[A47C 27/001](#)

- . {with several cushions, mattresses or the like, to be put together in one cover }

[A47C 27/002](#)

- . { Mattress tickings or covers (bed cover holders [A47C 21/02](#); mattress hand-straps [A47C 31/08](#); bed linen or counterpanes [A47G 9/0238](#)) }

[A47C 27/003](#)

- .. { having edge welts or rolls }

[A47C 27/005](#)

- .. { liquid-impermeable }

[A47C 27/006](#)

- ... { breathable }

[A47C 27/007](#)

- .. { permeable to liquid or air in a special way ([A47C 27/006](#) takes precedence) }

[A47C 27/008](#)

- .. { protecting against wear or damage }

[A47C 27/04](#)

- . with spring inlays ([A47C 27/20](#) takes precedence)

[A47C 27/045](#)

- .. Attachment of spring inlays to coverings (upholstery attaching means [A47C 31/02](#)) ; Use of stiffening sheets, lattices or grids { in, on, or } under spring inlays

[A47C 27/0453](#)

- ... { Attachment of spring inlays to outer layers }

[A47C 27/0456](#)

- ... { Use of stiffening sheets, lattices or grids in, on, or under, spring inlays }

[A47C 27/05](#)

- .. with { padding material, e.g. } foamed material, in top, bottom, or side layers

[A47C 27/053](#)

- ... { with only one layer of foamed material }

[A47C 27/056](#)

- ... { with different layers of foamed material }

[A47C 27/06](#)

- .. Spring inlays

[A47C 27/061](#)

- ... { of adjustable resiliency }

[A47C 27/062](#)

- ... { of different resiliencies }

[A47C 27/063](#)

- ... { wrapped or otherwise protected }

[A47C 27/064](#)

- { Pocketed springs }

[A47C 27/065](#)

- ... { of special shape }

[A47C 27/066](#)

- ... { Edge stiffeners }

[A47C 27/067](#)

- ... { of plane meandering type }

[A47C 27/068](#)

- ... { made from a single wire }

[A47C 27/07](#)

- ... Attaching, or interconnecting of, springs in spring inlays

[A47C 27/08](#)

- . { Fluid mattresses, e.g. } pneumatic mattresses, { Liquid mattresses or mattresses with fluid-like particles } (connecting valves to inflatable elastic bodies [B60C 29/00](#))

- A47C 27/081 . . { Pneumatic mattresses }
- A47C 27/082 . . . { with non-manual inflation, e.g. with electric pumps }
- A47C 27/083 . . . { with pressure control, e.g. with pressure sensors }
- A47C 27/084 . . . { self inflating }
- A47C 27/085 . . { Liquid mattresses, e.g. filled with water or gel }
- A47C 27/086 . . { Fluid-like particles mattresses, e.g. filled with beads }
- A47C 27/087 . . { with means for connecting opposite sides of the mattress, e.g. internal ties or strips }
- A47C 27/088 . . { Fluid mattresses filled with elastic bodies, e.g. foam }
- A47C 27/10 . . with two or more independently-fillable chambers

- A47C 27/12 . with fibrous inlays, e.g. made of wool, of cotton
- A47C 27/121 . . {with different kinds of inlays in one mattress }
- A47C 27/122 . . {with special fibres, such as acrylic thread, coconut, horsehair }
- A47C 27/124 . . {with feathers, down or similar inlays }
- A47C 27/125 . . {Mattresses having upholstery inlays and a special profile, body support or the like }
- A47C 27/127 . . {with reinforcement sheets, grids or the like }
- A47C 27/128 . . {with inflatable elements }

- A47C 27/14 . with foamed material inlays
- A47C 27/142 . . { with projections, depressions or cavities }
- A47C 27/144 . . . { inside the mattress }
- A47C 27/146 . . . { on the outside surface of the mattress }
- A47C 27/148 . . { of different resilience }
- A47C 27/15 . . consisting of two or more layers ([A47C 27/16](#) takes precedence)
- A47C 27/16 . . reinforced with sheet-like { or rigid } elements, e.g. profiled
- A47C 27/18 . . in combination with inflatable bodies
- A47C 27/20 . . with springs moulded in, or situated in { cavities or } openings in foamed material

- A47C 27/22 . with both fibrous and foamed material inlays

- A47C 29/00** **Nets for protection against insects in connection with chairs or beds** ([insect nets for animals A01K 13/00](#); [insect nets as travelling equipment A45F 3/52](#)) ; **Bed canopies**

- A47C 29/003 . {Bed canopies }
- A47C 29/006 . { Mosquito nets }

- A47C 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**

- A47C 31/001 . { Fireproof means }
- A47C 31/002 . { Anti-earthquake means }

- A47C 31/003 . { Magnets }
- A47C 31/004 . { Means for protecting against undesired influence, e.g. magnetic radiation or static electricity }
- A47C 31/005 . { Use of aromatic materials, e.g. herbs }
- A47C 31/006 . { Use of three-dimensional fabrics }
- A47C 31/007 . { Anti-mite, anti-allergen or anti-bacterial means }
- A47C 31/008 . { Use of remote controls }
- A47C 31/02 . Upholstery attaching means (quilting, quilting means, fastening, fixing or finishing upholstery [B68G 7/00](#))
- A47C 31/023 . . { connecting upholstery to frames, e.g. by hooks, clips, snap fasteners, clamping means or the like }
- A47C 31/026 . . { passing through the upholstery, e.g. upholstery nails or buttons }
- A47C 31/04 . . Clamps for attaching flat elastic strips or flat meandering springs to frames
- A47C 31/06 . . . for attaching flat meandering springs
- A47C 31/08 . Mattress hand-straps
- A47C 31/10 . Loose { or removable } furniture covers
- A47C 31/105 . . { for mattresses }
- A47C 31/11 . . for chairs { (for headrests only [A47C 7/386](#); removable protective covers for car seats [B60N 2/60](#)) }
- A47C 31/113 . . . { liquid-impermeable }
- A47C 31/116 . . . { permeable to liquid or air in a special way }
- A47C 31/12 . Means, e.g. measuring means for adapting chairs, beds or mattresses to the shape or weight of persons (body measuring means for clothing manufacture [A41H 1/00](#))
- A47C 31/123 . . { for beds or mattresses }
- A47C 31/126 . . { for chairs }