

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 23/05](#), [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 . . . { slidingly 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}](#)
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- 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}](#)
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- 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}](#)
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- A47C 9/007 . [{ High stools, e.g. bar stools \(children's high chairs A47D 1/00\)}](#)
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- 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}](#)
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- A47C 9/04 . Milking stools
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- A47C 9/06 . Wall stools; [{Stools hingedly mounted against the wall}](#)
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- A47C 9/08 . Music stools
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- 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 A47C 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}