

## SECTION A — HUMAN NECESSITIES

### A47 FURNITURE; DOMESTIC ARTICLES OR APPLIANCES; COFFEE MILLS; SPICE MILLS; SUCTION CLEANERS IN GENERAL

A47C CHAIRS (seats specially adapted for vehicles B60N 2/00); SOFAS; BEDS (upholstery in general B68G)

#### Subclass index

##### SEATING FURNITURE

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SOFAS, COUCHES, BEDS	
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#### Chairs; Stools, Benches

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|-------|--|-------|--|
| 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 3/00, A61G 5/00; operating chairs, dental chairs A61G 15/00) | 1/04  | • Hairdressers' or similar chairs  |
| 1/02  | • Reclining or easy chairs (supports for parts of body A47C 7/36, A47C 7/50, A47C 7/54)  | 1/06  | • • adjustable   |
| 1/022 | • • having independently-adjustable supporting parts   | 1/08  | • • with auxiliary seats (insertable seats for children A47C 1/11)   |
| 1/023 | • • • the parts being horizontally-adjustable seats  | 1/10  | • • with head-rests; with paper holders  |
| 1/024 | • • • the parts, being the back-rest, or the back-rest and seat unit, having adjustable inclination  | 1/11  | • • Accessories not otherwise provided for, e.g. seats for children  |
| 1/025 | • • • • by means of a toothed rack or like gearing mechanism   | 1/12  | • Theatre, auditorium, or similar chairs (seats for stadium benches A47C 1/16)   |
| 1/026 | • • • • by means of a peg-and-notch or pawl-and-cam mechanism  | 1/121 | • • having tipping-up seats [3]  |
| 1/027 | • • • • by means of clamps or friction locking members   | 1/122 | • • • tipping-up sideways [3]  |
| 1/028 | • • • for changing a straight chair into an easy chair   | 1/124 | • • Separate chairs, connectible together into a row   |
| 1/029 | • • • • by changing the length or the inclination of the legs  | 1/126 | • • stowable in floor or wall  |
| 1/03  | • • • the parts being arm-rests  | 1/13  | • • Indicators; Devices for reserving or the like  |
| 1/031 | • • • having coupled adjustable supporting parts   | 1/14  | • Beach chairs   |
| 1/032 | • • • the parts being movably-coupled seat and back-rest (A47C 1/035 takes precedence)   | 1/16  | • Seats detachably mounted on stadium benches (detachably mounted children's chairs A47D 1/10)   |
| 1/033 | • • • the coupling member being a flexible strip   | 3/00  | Chairs characterised by structural features; Chairs or stools with rotatable or vertically-adjustable seats (A47C 1/00, A47C 4/00 take precedence) |
| 1/034 | • • • the parts including a leg-rest or foot-rest (A47C 1/037, A47C 1/038 take precedence)   | 3/02  | • Rocking chairs (specially for children A47D 13/10)   |
| 1/035 | • • • • in combination with movably-coupled seat and back-rest   | 3/021 | • • having elastic frames  |
| 1/036 | • • • the parts including a head-rest  | 3/023 | • • • made of tubular material   |
| 1/037 | • • • • the combination with a leg-rest or foot-rest   | 3/025 | • • with seat, or seat and back-rest unit, elastically mounted in a rigid frame  |
| 1/038 | • • • with movably-coupled seat and back-rest, actuated by lazy tongs (A47C 1/032, A47C 1/036 take precedence) [2]   | 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; Nesting chairs   |
|       |  | 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; detachably mounted on stadium benches A47C 1/16; children's chairs mounted on back-rest of chair A47D 1/10); Hassocks; Pouffes
- 3/18 • Chairs or stools with rotatable seat (adjustable in height by rotation A47C 3/24)
- 3/20 • Chairs or stools with vertically-adjustable seats (tables with variable height A47B 9/00)
- 3/22 • • with balancing device, e.g. by spring, by weight
- 3/24 • • with vertical spindle
- 3/26 • • with vertical toothed rack
- 3/28 • • with clamps acting on vertical rods
- 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; children's foldable chairs A47D 1/02)**
- 4/02 • Dismantlable chairs
- 4/03 • • Non-upholstered wooden chairs [2]
- 4/04 • Folding chairs with inflexible seats
- 4/06 • • Attachment of upholstery or fabric to frames (in general A47C 31/02)
- 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
- 4/30 • • Attachment of upholstery or fabric to frames (in general A47C 31/02)
- 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 (trunk tables A47B 3/10)
- 4/54 • Inflatable chairs (connection of valves to inflatable elastic bodies B60C 29/00)
- 5/00 Chairs of special materials**
- 5/02 • Basket chairs
- 5/04 • Metal chairs, e.g. tubular (of rocking type A47C 3/023; of non-tubular folding, collapsible, or dismantlable type A47C 4/00)
- 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 dismantlable type
- 5/12 • of plastics, with or without reinforcement
- 5/14 • characterised by the use of laminated wood
- 7/00 Parts, details, or accessories of chairs or stools (attaching to floor A47B 91/08)**
- 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)
- 7/14 • • of adjustable shape; elastically mounted
- 7/16 • • Seats made of wooden, plastics, or metal sheet material; Panel seats
- 7/18 • • having foamed material included in cushioning part (foamed material mattresses A47C 27/14)
- 7/20 • • • with reinforcement
- 7/22 • • Straps or the like for carrying upholstery
- 7/24 • • Upholstered seats (A47C 7/18 takes precedence)
- 7/26 • • • with reinforcement
- 7/28 • • with tensioned springs, e.g. of flat type
- 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
- 7/35 • • Combinations of different types of springs; Adjustable springs; Attachment of springs to other springs or to frame [2]
- 7/36 • Support for the head or the back (for operating or dental chairs A61G 15/00)
- 7/38 • • for the head, e.g. detachable
- 7/40 • • for the back
- 7/42 • • • of detachable type
- 7/44 • • • with elastically-mounted frame
- 7/46 • • • with special, e.g. adjustable, profile; "Ackerblom" profile chairs
- 7/48 • • • of freely-rotatable type
- 7/50 • Supports for the feet or the legs (coupled to other adjustable parts A47C 1/034, A47C 1/037; footstools A47C 16/02)
- 7/52 • • of detachable type
- 7/54 • Supports for the arms
- 7/56 • Parts or details of tipping-up chairs, e.g. of theatre chairs
- 7/58 • • Hinges, e.g. for mounting chairs in a curved row (hinges for wings in general E05D)
- 7/60 • • Use of locks or ledges for limiting the seat movement
- 7/62 • Accessories for chairs
- 7/64 • • Hat or coat holders
- 7/66 • • Means to protect against weather
- 7/68 • • Arm-rest tables
- 7/70 • • • of foldable type

- 7/72 • • Adaptations for incorporating lamps, radio sets, bars, telephones, ventilation, heating or cooling arrangements or the like
- 7/74 • • • for ventilation, heating or cooling
- 9/00 Stools for specified purposes** (with rotatable seats A47C 3/18; with vertically adjustable seats A47C 3/20; step-stools A47C 12/00; footstools A47C 16/02; prayer stools A47C 16/04; platforms or seat-boxes specially adapted for angling A01K 97/22; walking sticks or umbrellas convertible into seats A45B 5/00) [5]
- 9/02 • Office stools; Workshop stools
- 9/04 • Milking stools
- 9/06 • Wall stools
- 9/08 • Music stools
- 9/10 • Camp, travelling, or sports stools
- 11/00 Benches not otherwise provided for** (school forms A47B 39/00)
- 11/02 • Church benches; Confessionals
- 12/00 Step-stools** [5]
- Note(s)**
- 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 [5]
- 13/00 Convertible chairs, stools, or benches** (step-stools requiring conversion between the step and seat functions A47C 12/02; stretchers, for patients or invalids, convertible into chairs A61G 1/017) [5]
- 15/00 Other seating furniture** (school forms A47B 39/00)
- 16/00 Rests or supports for feet, legs, arms, back or head** (associated with chairs A47C 7/00; associated with beds or sofas A47C 20/00) [2]
- 16/02 • Footstools; Foot-rests; Leg-rests [2]
- 16/04 • Prayer stools; Kneeling stools; Kneeling supports (hassocks or pouffes A47C 3/16) [2]
- Sofas; Beds**
- Note(s)**
- In groups A47C 17/00-A47C 27/00, the following terms or expressions are used with the meanings 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.
- 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)
- 17/02 • Sofas, couches, settees, or the like, without movable parts
- 17/04 • Sofas, couches, settees, or the like, with movable parts; Chair beds
- 17/12 • • changeable to beds by tilting or extending the arm-rests
- 17/13 • • changeable by increasing the available part, e.g. by drawing forward
- 17/14 • • changeable to beds by removing parts only
- 17/16 • • changeable to beds by tilting or pivoting the back-rest
- 17/165 • • • with forward tiltable back-rest, e.g. back cushion [2]
- 17/17 • • • with coupled movement of back-rest and seat [2]
- 17/175 • • • with tilting or lifting seat-back-rest pivot [2]
- 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 [2]
- 17/213 • • • • the surface, when used for lying down, consisting of one side of the seat frame and the back-rest frame [2]
- 17/22 • • with means for uncovering a previously hidden mattress or similar bed part
- 17/23 • • • the lying down surface partly consisting of one side of the seat [2]
- 17/24 • • • with only one movable part being tiltable about a horizontal axis
- 17/26 • • • • tiltable to an overturned position
- 17/28 • • • • having means to lift the tilting axis
- 17/30 • • • two or more parts being rotatable about a vertical axis
- 17/32 • • Changing a single bed into a double bed by extending, pivoting, or tilting a previously hidden second mattress or other bed part
- 17/34 • • Joining seats, chairs, or couches to form beds
- 17/36 • • • Changing corner couches into a double bed
- 17/37 • • Changing sofas or the like into beds by means of furniture other than seats or chairs
- 17/38 • Wall beds
- 17/40 • • having balancing members, e.g. weights, springs
- 17/42 • • having supporting legs with fixed position on the floor, e.g. attached thereto
- 17/44 • • • having means on the supporting legs facilitating the removal of the bed from its place
- 17/46 • • characterised by a rigid mattress-supporting member
- 17/48 • • characterised by two or more relatively-movable parts
- 17/50 • • characterised by their shape, e.g. multiple-wall beds
- 17/52 • Cabinet beds; Table beds, or like beds; Wardrobe beds
- 17/54 • • in which the cabinet or the like is tilted with the bed
- 17/56 • • pivotable on both horizontal and vertical axis
- 17/58 • • with extensible mattress support
- 17/60 • • the cabinet being essentially changed in shape in sleeping position of the bed
- 17/62 • • Table beds; Billiard table beds, or like beds
- 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)
- 17/66 • • having specially-adapted body-carrying surfaces
- 17/68 • • only the legs being foldable

## A47C

- 17/70 • • the bed frame being foldable about a horizontal axis
- 17/72 • • • having cross legs (A47C 17/82 takes precedence)
- 17/74 • • the bed being foldable about a vertical axis
- 17/76 • • having extensible, e.g. telescopic parts
- 17/78 • • held in shape by stressed cords
- 17/80 • • adapted to be used in or connected to vehicles
- 17/82 • • Trunk beds; Travelling-case or like beds
- 17/84 • Suspended beds, e.g. suspended from ceiling (hammocks A45F 3/22)
- 17/86 • Parts or details for beds, sofas or couches only not fully covered in a single one of the groups A47C 17/02, A47C 17/04, A47C 17/38, A47C 17/52, A47C 17/64, or A47C 17/84
  
- 19/00 Bedsteads** (spring mattresses with rigid frame or forming part of the bedstead A47C 23/00; for children's beds A47D 7/00; bed jointing members or fittings for bedsteads F16B)
- 19/02 • Parts or details of bedsteads not fully covered in a single one of the following subgroups, e.g. bed rails, post rails
- 19/04 • Extensible bedsteads, e.g. with adjustment of length, width, height
- 19/12 • Folding bedsteads (travelling or camp beds A47C 17/64)
- 19/14 • • of the lazy-tongs type
- 19/20 • Multi-stage bedsteads (multiple-wall beds A47C 17/50; suspended beds A47C 17/84); Bedsteads stackable to multi-stage bedsteads
- 19/22 • Combinations of bedsteads with other furniture or with accessories, e.g. with bedside cabinets (bed-tables A47B 23/00)
  
- 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) [2]
- 20/02 • of detachable type (A47C 20/04, A47C 20/08 take precedence) [2]
- 20/04 • with adjustable inclination (A47C 20/08 takes precedence) [2]
- 20/06 • • the adjustable part immobilising foldable legs [2]
- 20/08 • with means for adjusting two or more rests together [2]
- 20/10 • • using rods [2]
- 20/12 • • • using telescopic rods [2]
- 20/14 • • using plate and catch [2]
- 20/16 • • using toothed parts, e.g. racks [2]
- 20/18 • • using friction gearing [2]
  
- 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 15/00); **Ventilating, cooling or heating means in connection with bedsteads or mattresses** [5]
- 21/02 • Sheet holders; Bed-cover holders
- 21/04 • Devices for ventilating, cooling or heating
- 21/06 • Mattress underlays
- 21/08 • Devices for prevention against falling-out, e.g. detachable side walls (for children's beds A47D 7/00)
  
- 23/00 Spring mattresses with rigid frame or forming part of the bedstead; Divan bases** (unframed spring units A47C 25/00; spring units forming part of stuffed mattresses A47C 27/00; bed-rests specially adapted for nursing A61G 7/065)
- 23/02 • using leaf springs, e.g. metal strips (wooden springs A47C 23/06) [2]
- 23/04 • using springs in compression, e.g. coiled
- 23/043 • • using wound springs [2]
- 23/047 • • incorporating inflatable elements [2]
- 23/05 • • Frames therefor; Connecting the springs to the frame
- 23/053 • • • Attachment or interconnection of springs in frames or in spring units [2]
- 23/055 • • • using cords; using textile or rubber bands [2]
- 23/057 • • • Hangers or supports for fastening spring units to frame [2]
- 23/06 • using wooden springs, e.g. of slat type
- 23/12 • using tensioned springs, e.g. of flat type (A47C 23/02 takes precedence) [2]
- 23/14 • • forming nets; combined with nets
- 23/145 • • • with horizontal interlocking wound springs; Attachment thereof to the frame [2]
- 23/15 • • • with braided or crossed flat springs or cords; with horizontal wound springs (A47C 23/145 takes precedence) [2]
- 23/155 • • • with combinations of flat springs or link chains with wound springs [2]
- 23/16 • • of plane meandering type
- 23/18 • • of resilient webbing
- 23/20 • • of resilient sheet form
- 23/22 • • of tensioned rubber cords or like cords
- 23/24 • • using tensioned textile or other non-resilient strips
- 23/26 • • Frames therefor; Connecting the springs to the frame
- 23/28 • • Tensioning devices therefor
- 23/30 • using combinations of springs covered by more than one of the groups A47C 23/02, A47C 23/04, A47C 23/06 and A47C 23/12; Frames therefor
- 23/32 • • Combinations of nets with springs in compression; Frames therefor
- 23/34 • with provisions for giving extra support for the head or the legs
  
- 25/00 Unframed spring units specially adapted for sofas or beds**
- 25/02 • without additional connecting means between the springs
  
- 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) [5]
- 27/04 • with spring inlays (A47C 27/20 takes precedence)
- 27/045 • • Attachment of spring inlays to coverings (upholstery attaching means A47C 31/02); Use of stiffening sheets, lattices or grids under spring inlays [2]
- 27/05 • • with foamed material in top, bottom, or side layers
- 27/06 • • Spring inlays
- 27/07 • • • Attaching, or interconnecting of, springs in spring inlays [2]
- 27/08 • Fluid mattresses (connecting valves to inflatable elastic bodies B60C 29/00) [5]
- 27/10 • • with two or more independently-fillable chambers [5]
- 27/12 • with fibrous inlays, e.g. made of wool, of cotton
- 27/14 • with foamed material inlays
- 27/15 • • consisting of two or more layers (A47C 27/16 takes precedence) [2]

- 27/16 • • reinforced with sheet-like 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
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**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**

- 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**
- 31/02 • Upholstery attaching means (quilting, quilting means, fastening, fixing or finishing upholstery B68G 7/00)
  - 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
  - 31/10 • Loose furniture covers
  - 31/11 • • for chairs **[2]**
  - 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) **[4]**