

CPC**COOPERATIVE PATENT CLASSIFICATION****A43B****CHARACTERISTIC FEATURES OF FOOTWEAR; PARTS OF FOOTWEAR****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:

- [A43B 21/10](#)-[A43B 21/16](#) covered by [A43B 21/06](#) - [A43B 21/34](#)
covered by [A43B 21/24](#)

Guidance heading: Characteristic features of footwear

A43B 1/00

Footwear characterised by the material (layered products [B32B](#))

- A43B 1/0009 . { Footwear made at least partially of alveolar or honeycomb material }
- A43B 1/0018 . { Footwear made at least partially of flexible, bellow-like shaped material }
- A43B 1/0027 . { Footwear made at least partially from a material having special colours }
- A43B 1/0036 . . { with fluorescent or phosphorescent parts }
- A43B 1/0045 . { Footwear made at least partially of deodorant means }
- A43B 1/0054 . { Footwear provided with magnets, magnetic parts or magnetic substances }
- A43B 1/0063 . { Footwear made at least partially of material that can be recycled }
- A43B 1/0072 . { Footwear made at least partially of transparent or translucent materials }
- A43B 1/0081 . { Footwear made at least partially of hook-and-loop type material (hook and loop-type straps for fastening purpose [A43C 11/1493](#)) }
- A43B 1/009 . { Footwear made at least partially of washable material }
- A43B 1/02 . Footwear made of animal or plant fibres or fabrics made therefrom
- A43B 1/04 . . Braided, knotted, knitted, or crocheted footwear
- A43B 1/06 . Footwear made of wood, cork, card-board, paper or like fibrous material (soles [A43B 13/00](#); making of wooden shoes [B27M 3/20](#))
- A43B 1/08 . Footwear made of metal (soles [A43B 13/10](#))
- A43B 1/10 . Footwear made of rubber
- A43B 1/12 . . of rubber waste
- A43B 1/14 . Footwear made of gutta-percha, celluloid, or plastics

A43B 3/00**Footwear characterised by the shape or the use**

- A43B 3/0005 . { Footwear provided with electrical or electronic systems }
- A43B 3/001 .. { Footwear provided with light source }
- A43B 3/0015 .. { Footwear provided with generator }
- A43B 3/0021 .. { Footwear provided with sound or music source }
- A43B 3/0026 . { Footwear for use in minefields; Footwear protecting from landmine blast; Footwear preventing landmines from being triggered }
- A43B 3/0031 . { Footwear provided with a pocket, e.g. for keys or a card }
- A43B 3/0036 . { Footwear characterised by a special shape or design }
- A43B 3/0042 .. { with circular or circle shaped parts }
- A43B 3/0047 .. { Footwear parts having a male and corresponding female profile to fit together, e.g. form-fit }
- A43B 3/0052 .. { X-shaped or cross-shaped }
- A43B 3/0057 .. { S-shaped }
- A43B 3/0063 .. { U-shaped }
- A43B 3/0068 .. { V-shaped }
- A43B 3/0073 .. { Y-shaped }
- A43B 3/0078 .. { Footwear provided with logos, letters, signatures or the like decoration ([A43B 23/24](#) takes precedence) }
- A43B 3/0084 ... { Arrangement of flocked decoration on shoes }
- A43B 3/0089 ... { with means to identify the size of the shoe }
- A43B 3/0094 .. { with means to differentiate between right and left shoe }
- A43B 3/02 . Top-boots; Leg-boots; Shoes with batwing tabs
- A43B 3/04 .. with rubber or elastic insertions or gussets
- A43B 3/06 . Shoes with flaps; Footwear with divided uppers
- A43B 3/08 .. with rubber or elastic insertions or gussets
- A43B 3/10 . Low shoes; Slippers ([sandals A43B 3/12](#))
- A43B 3/101 .. { Slippers }
- A43B 3/102 ... { Slippers leaving the heel of the foot bare ([A43B 3/106](#) takes precedence; Slippers with an anklestrap. sling type shoes [A43B 3/12](#)) }
- A43B 3/103 { characterised by the attachment of the toestraps }
- A43B 3/105 { characterised by the shape or layout of the toestraps }
- A43B 3/106 .. { Disposable slippers; One piece slippers }
- A43B 3/107 .. { characterised by the material }
- A43B 3/108 .. { characterised by the sole }
- A43B 3/12 . Sandals { provided with an anklestrap }; Strap guides thereon { ([footwear having only a toestraps, thong sandals A43B 3/10](#)) }

- A43B 3/122 . . { characterised by the attachment of the straps }
- A43B 3/124 . . { Disposable sandals; One piece sandals }
- A43B 3/126 . . { characterised by the shape or layout of the straps }
- A43B 3/128 . . { characterised by the sole }

- A43B 3/14 . Moccasins, opanken, or like shoes

- A43B 3/16 . Overshoes {([A43B 23/30](#) takes precedence)}
- A43B 3/163 . . { Overshoes specially adapted for health or hygienic purposes, e.g. comprising electrically conductive material allowing the discharge of electrostatic charges }
- A43B 3/166 . . { Mud-guards }
- A43B 3/18 . . Devices for holding overshoes in position
- A43B 3/20 . . Heel-less overshoes
- A43B 3/22 . . Protecting sheaths worn between shoe and overshoe

- A43B 3/24 . Collapsible or convertible footwear {(multipurpose skate boots [A43B 5/1633](#); exchangeable soles [A43B 13/36](#))}
- A43B 3/242 . . { characterised by the upper }
- A43B 3/244 . . { characterised by the attachment between upper and sole }
- A43B 3/246 . . { characterised by the sole }
- A43B 3/248 . . { Collapsible or foldable footwear, e.g. for travelling }

- A43B 3/26 . Footwear adjustable as to length or size {(adjustable ski boots or similar boots [A43B 5/0427](#); adjustable skating boots [A43B 5/1608](#))}

- A43B 3/28 . Footwear specially adapted for dolls

- A43B 3/30 . Footwear specially adapted for babies or small children

- A43B 5/00** **Footwear for sporting purposes (non-skid devices, e.g. ice-spurs, studs for football shoes, [A43C 15/00](#))**

- A43B 5/001 . { Golf shoes }
- A43B 5/002 . { Mountain boots or shoes }
- A43B 5/003 . . { for free climbing }
- A43B 5/004 . { After-ski boots }
- A43B 5/005 . { for grinding, i.e. sliding on the sole or a part thereof }
- A43B 5/006 . { for horse riding (stirrups [B68C 3/00](#))}
- A43B 5/007 . { Footwear for car driving or racing }
- A43B 5/008 . { Bowling Shoes }
- A43B 5/02 . Football boots { or shoes, i.e. footwear for soccer, football or rugby }

- A43B 5/025 .. { characterised by an element which improves the contact between the ball and the footwear }

- A43B 5/04 . Ski boots; Similar boots
- A43B 5/0401 .. { Snowboard boots }
- A43B 5/0403 ... { Adaptations for soles or accessories with soles for snowboard bindings }
- A43B 5/0405 .. { Linings, paddings, insertions; Inner boots (in general [A43B 19/00](#)) }
- A43B 5/0407 ... { inflatable }
- A43B 5/0409 ... { with means for attaching inner boots or parts thereof to shells of skiboats }
- A43B 5/0411 .. { for cross-country }
- A43B 5/0413 ... { Adaptations for soles or accessories associated with soles for cross-country bindings }
- A43B 5/0415 .. { Accessories ([A43B 5/0403](#), [A43B 5/0413](#), [A43B 5/0494](#) take precedence) }
- A43B 5/0417 ... { for soles or associated with soles of ski boots; for ski bindings ([A43B 5/0411](#) takes precedence) }
- A43B 5/0419 { for walking aids }
- A43B 5/0421 { located underneath the sole }
- A43B 5/0423 { located on the sides of the sole }
- A43B 5/0425 ... { Devices for carrying ski-boots or similar boots }
- A43B 5/0427 .. { characterised by type or construction details }
- A43B 5/0429 ... { Adjustment of the boot to calf or shin, i.e. fibula, tibia }
- A43B 5/0431 { to the length of calf or shin, i.e. fibula, tibia }
- A43B 5/0433 { to the width of calf or shin, i.e. fibula, tibia }
- A43B 5/0435 ... { Adjustment of the boot to the foot }
- A43B 5/0437 { to the arch of the foot ([A43B 5/0441](#) takes precedence) }
- A43B 5/0439 { to the heel; Heel clamping devices; Heel supports }
- A43B 5/0441 { by lifting the insole }
- A43B 5/0443 { to the instep of the foot, e.g. metatarsals; Metatarsal clamping devices }
- A43B 5/0445 { directly actuated by non flexible means, e.g. screws, levers }
- A43B 5/0447 { actuated by flexible means, e.g. cables, straps }
- A43B 5/0449 { with the actuator being disposed at the rear side of the boot }
- A43B 5/045 { to the width of the foot }
- A43B 5/0452 ... { Adjustment of the forward inclination of the boot leg }
- A43B 5/0454 { including flex control; Dampening means }
- A43B 5/0456 { with the actuator being disposed at the rear side of the boot ([A43B 5/0464](#) takes precedence) }
- A43B 5/0458 { with the actuator being disposed at the front side of the boot ([A43B 5/0464](#) takes precedence) }
- A43B 5/046 { with the actuator being disposed at the lateral or medial side of the boot ([A43B 5/0464](#) takes precedence) }
- A43B 5/0462 { with the actuator being disposed at the lower side of the boot ([A43B 5/0464](#) takes precedence) }
- A43B 5/0464 { with exchangeable parts }
- A43B 5/0466 ... { Adjustment of the side inclination of the boot leg; Canting }
- A43B 5/0468 ... { Adjustment of the angle of the boot to the ski }

- A43B 5/047 . . . { provided with means to improve walking with the skiboot }
- A43B 5/0472 { having a flexible toe portion; provided with a hinge at the ball of the foot }
- A43B 5/0474 { having a walk/ski position ([A43B 5/0472](#) takes precedence) }
- A43B 5/0476 . . . { Front-entry skiboots }
- A43B 5/0478 . . . { Mid-entry skiboots, hybrid skiboots }
- A43B 5/048 . . . { Rear-entry skiboots }
- A43B 5/0482 . . . { made from materials with different rigidities }
- A43B 5/0484 . . . { permitting easy replacement of parts }
- A43B 5/0486 . . { characterized by the material }
- A43B 5/0488 . . . { with an upper made of flexible material, e.g. leather ([A43B 5/0401](#), [A43B 5/002](#) take precedence) }
- A43B 5/049 . . . { with an upper made of composite material, e.g. fibers or core embedded in a matrix }
- A43B 5/0492 . . { Telemark boots }
- A43B 5/0494 . . . { Adaptations for soles or accessories associated with soles for telemark bindings }
- A43B 5/0496 . . { boots for touring or hiking skis }
- A43B 5/0498 . . { For ski jumping }

- A43B 5/06 . Running boots

- A43B 5/08 . Bathing shoes; { Aquatic sports shoes }

- A43B 5/10 . Tennis shoes

- A43B 5/12 . Dancing shoes

- A43B 5/14 . Shoes for cyclists
- A43B 5/145 . . { Boots for motorcyclists }

- A43B 5/16 . Skating boots
- A43B 5/1608 . . { size adjustable (skates with special foot-plates for the boot divided into two parts permitting adjustment to the size of the foot [A63C 1/26](#)) }
- A43B 5/1616 . . { Inner boots }
- A43B 5/1625 . . { made from materials with different rigidities }
- A43B 5/1633 . . { Multipurpose skate boots (roller skates convertible to ice skates [A63C 17/18](#), with fixable wheels permitting walking [A63C 17/20](#)) }
- A43B 5/1641 . . { characterised by the sole (skates with special foot-plates for the boot [A63C 1/22](#)); characterised by the attachment of the skate ([A43B 5/1633](#) takes precedence; skates rigidly mounted to the sole of the boot [A63C 1/02](#)) }
- A43B 5/165 . . . { with ventilation means in the sole }
- A43B 5/1658 . . . { provided with resilient means in the sole or between the chassis and the sole }
- A43B 5/1666 . . { characterised by the upper }
- A43B 5/1675 . . . { with ventilation means in the upper }
- A43B 5/1683 . . . { characterised by the lower part of the upper or by the shell }
- A43B 5/1691 . . . { characterised by the higher part of the upper, e.g. surrounding the ankle, by the quarter or cuff }

- A43B 5/18 . Attachable overshoes for sporting purposes
- A43B 5/185 .. { with a sole covering spikes or cleats }

- A43B 7/00 Footwear with health or hygienic arrangements**

- A43B 7/005 . { Footwear with cooling arrangements }

- A43B 7/02 . Footwear with heating arrangements (footwarmers [A61F 2007/0045](#); electric heating elements [H05B](#))
- A43B 7/025 .. { heated by an electric current from an external source, e.g. car batteries }
- A43B 7/04 .. Footwear with electric batteries, generators, or the like

- A43B 7/06 . Ventilated footwear ((ventilated skating boots [A43B 5/165](#), [A43B 5/1675](#); ventilated socks or inserts [A43B 17/08](#)))
- A43B 7/08 .. Footwear with air-holes, with or without closures
- A43B 7/081 ... { the air being forced from outside }
- A43B 7/082 ... { the air being expelled to the outside }
- A43B 7/084 ... { characterised by the location of the holes }
- A43B 7/085 { in the upper }
- A43B 7/087 { in the bottom of the sole }
- A43B 7/088 { in the side of the sole }
- A43B 7/10 ... with closable air-slots near the waist
- A43B 7/105 { with pumping means or valves }

- A43B 7/12 . Special watertight footwear (overshoes [A43B 3/16](#))
- A43B 7/125 .. { provided with a vapour permeable member, e.g. a membrane ([A43B 23/022](#) takes precedence) }

- A43B 7/14 . Footwear with foot-supporting parts
- A43B 7/1405 .. { provided with pads or holes on one or more locations, or having an anatomical or curved form }
- A43B 7/141 ... { having an anatomical or curved form }
- A43B 7/1415 ... { characterised by the location under the foot }
- A43B 7/142 { situated under the medial arch, i.e. the navicular or cuneiform bones }
- A43B 7/1425 { situated under the ball of the foot, i.e. the joint between the first metatarsal and first phalange }
- A43B 7/143 { situated under the lateral arch, i.e. the cuboid bone }
- A43B 7/1435 { situated under the joint between the fifth phalange and the fifth metatarsal bone }
- A43B 7/144 { situated under the heel, i.e. the calcaneus bone }
- A43B 7/1445 { situated under the midfoot, i.e. the metatarsal }
- A43B 7/145 { situated under the toes, i.e. the phalange }
- A43B 7/1455 ... { with special properties }
- A43B 7/146 { provided with acupressure points or means for footmassage }
- A43B 7/1465 { with removable or adjustable pads to allow custom fit }

- A43B 7/147 { for sick or disabled persons, e.g. persons having osteoarthritis or diabetes }
- A43B 7/1475 . . . { characterised by the type of support }
- A43B 7/148 { Recesses or holes filled with a support or pad }
- A43B 7/1485 { Recesses or holes, traversing partially or completely the thickness of the pad }
- A43B 7/149 { Pad, e.g. protruding on the foot facing surface }
- A43B 7/1495 . . { Footwear with arch-supports of the bracelet type }
- A43B 7/16 . . Footwear with elevated heel parts inside
- A43B 7/18 . . Joint supports, e.g. instep supports
- A43B 7/19 . . . engaging the ground directly
- A43B 7/20 . . . Ankle-joint supports or holders
- A43B 7/22 . . Footwear with fixed flat-foot insertions, metatarsal supports, ankle flaps, or the like (orthopaedic insertions [A61F 5/14](#))
- A43B 7/223 . . . { characterised by the constructive form }
- A43B 7/226 . . . { characterised by the material }
- A43B 7/24 . . Insertions or cap supports preventing the foot canting to one side, { preventing supination or pronation }
- A43B 7/26 . . Footwear with toe-spacers or toe-spreaders
- A43B 7/28 . . Adapting the inner sole { or the side of the upper } of the shoe to the sole of the foot
- A43B 7/30 . . Protecting the ball-joint against pressure while standing
- A43B 7/32 . Footwear with shock-absorbing means { Safety footwear } (resilient soles [A43B 13/18](#))
- A43B 7/34 . Footwear with protection against heat or cold
- A43B 7/36 . with earthing or grounding means
- A43B 7/38 . Elevating, i.e. height increasing, footwear (with elevated heel parts inside { [A43B 7/14](#) }; lengthening pieces for natural legs [A61F 3/00](#); orthopaedic insertions for conventional shoes [A61F 5/14](#))
- A43B 9/00** **Footwear characterised by the assembling of the individual parts** {(assembling parts of upper together [A43B 23/0245](#); assembling sole parts together [A43B 13/12](#))}
- A43B 9/02 . Footwear stitched or nailed through
- A43B 9/04 . Welted footwear (welts [A43B 15/00](#))
- A43B 9/06 . . stitched or nailed through
- A43B 9/08 . Turned footwear
- A43B 9/10 . Footwear with out-turned uppers
- A43B 9/12 . Stuck or cemented footwear
- A43B 9/125 . . { using a temporary protective insole or innersole }

- A43B 9/14 . Platform shoes
- A43B 9/16 . Footwear with soles moulded on to uppers or welded on to uppers without adhesive
- A43B 9/18 .. moulded { (moulding soles or heels to preformed uppers [B29D 35/06](#)) }
- A43B 9/20 .. welded

A43B 11/00 Footwear with miscellaneous arrangements to facilitate putting-on or removing, e.g. with straps

- A43B 11/02 . with built-in shoe-horns

Guidance heading: Parts of footwear

A43B 13/00 Soles ({ Skating boots characterised by the sole [A43B 5/1641](#), } socks [A43B 17/00](#)); Sole and heel units

- A43B 13/02 . characterised by the material
- A43B 13/023 .. { Soles with several layers of the same material (soles with several layers of different materials [A43B 13/12](#)) }
- A43B 13/026 .. { Composites, e.g. carbon fibre or aramid fibre; the sole, one or more sole layers or sole part being made of a composite }
- A43B 13/04 .. plastics, rubber or vulcanised fibre
- A43B 13/08 .. wood
- A43B 13/10 .. metal
- A43B 13/12 .. Soles with several layers of different materials
- A43B 13/122 ... { characterised by the outsole or external layer }
- A43B 13/125 ... { characterised by the midsole or middle layer }
- A43B 13/127 { the midsole being multilayer }
- A43B 13/14 . characterised by the constructive form
- A43B 13/141 .. { with a part of the sole being flexible, e.g. permitting articulation or torsion }
- A43B 13/143 .. { provided with wedged, concave or convex end portions, e.g. for improving roll-off of the foot }
- A43B 13/145 ... { Convex portions, e.g. with a bump or projection, e.g. 'Masai' type shoes }
- A43B 13/146 ... { Concave end portions, e.g. with a cavity or cut-out portion }
- A43B 13/148 ... { Wedged end portions }
- A43B 13/16 .. Pieced soles (with several layers of different material [A43B 13/12](#))
- A43B 13/18 .. Resilient soles ({ skating boots provided with resilient means [A43B 5/1658](#) })
- A43B 13/181 ... { Resiliency achieved by the structure of the sole }
- A43B 13/182 { Helicoidal springs }
- A43B 13/183 { Leaf springs }
- A43B 13/184 { the structure protruding from the outsole }
- A43B 13/185 { Elasticated plates sandwiched between two interlocking components, e.g. thrustors }

- A43B 13/186 { Differential cushioning region, e.g. cushioning located under the ball of the foot (resilient heel not included in the sole [A43B 21/26](#); resilient supports for the heel of the foot [A43B 21/32](#))}
- A43B 13/187 . . . { Resiliency achieved by the features of the material, e.g. foam, non liquid materials }
- A43B 13/188 { Differential cushioning regions }
- A43B 13/189 . . . { filled with a non-compressible fluid, e.g. gel, water }
- A43B 13/20 . . . Pneumatic soles { filled with a compressible fluid, e.g. air, gas (inflatable linings for skiboots [A43B 5/0407](#))}
- A43B 13/203 { provided with a pump or valve }
- A43B 13/206 { provided with tubes or pipes or tubular shaped cushioning members }
- A43B 13/22 . . Soles made slip-preventing or wear-resisting, e.g. by impregnation or spreading a wear-resisting layer
- A43B 13/223 . . . { Profiled soles }
- A43B 13/226 { the profile being made in the foot facing surface }
- A43B 13/24 . . . by use of insertions
- A43B 13/26 projecting beyond the sole surface

- A43B 13/28 . characterised by their attachment, also attachment of combined soles and heels (attachment of heels [A43B 21/36](#); attachment of heel parts { [A43B 21/42](#) })
- A43B 13/30 . . by screws
- A43B 13/32 . . by adhesives
- A43B 13/34 . . Soles also attached to the inner side of the heels
- A43B 13/36 . . Easily-exchangeable soles (of metal [A43B 13/10](#); protecting-soles [A43C 13/12](#))

- A43B 13/37 . Sole and heel units

- A43B 13/38 . Insoles
- A43B 13/383 . . { Pieced insoles }
- A43B 13/386 . . { Multilayer insoles }
- A43B 13/39 . . with upset sewing ribs
- A43B 13/40 . . with cushions
- A43B 13/41 . . combined with heel stiffener, toe stiffener, or shank stiffener

- A43B 13/42 . Filling materials located between the insole and outer sole; Stiffening materials

- A43B 15/00 Welts for footwear**

- A43B 17/00 Socks (hosiery [A41B 11/00](#); special medical insertions for shoes [A61F 5/14](#))**

- A43B 17/003 . { characterised by the material (wooden socks [A43B 17/12](#), made of sponge, rubber or plastic materials [A43B 17/14](#))}
- A43B 17/006 . . { Multilayerd }

- A43B 17/02 . Wedge-like or resilient socks or sock parts
- A43B 17/023 . . { wedge-like ([A43B 17/03](#) takes precedence)}

- A43B 17/026 . . { filled with a non-compressible fluid, e.g. gel, water }
- A43B 17/03 . . pneumatic { , filled with a compressible fluid, e.g. air, gas (inflatable linings for skiboots [A43B 5/0407](#)) }
- A43B 17/035 . . . { provided with a pump or valve }
- A43B 17/04 . with metal insertions or coverings
- A43B 17/06 . with metal springs
- A43B 17/08 . Ventilated socks
- A43B 17/10 . for sweaty feet; Waterproof socks
- A43B 17/102 . . { Moisture absorbing socks; Moisture dissipating socks }
- A43B 17/105 . . . { Disposable }
- A43B 17/107 . . { Waterproof socks }
- A43B 17/12 . Wooden socks
- A43B 17/14 . made of sponge, rubber, or plastic materials
- A43B 17/16 . with heel or toe caps
- A43B 17/18 . Arrangements for attaching socks to the footwear
- A43B 19/00** **Shoe-shaped inserts; Inserts covering the instep** { (for ski boots or similar boots [A43B 5/0405](#), for skating boots [A43B 5/1616](#)) }
- A43B 19/005 . { Weighted inserts for shoes, i.e. insert comprising an additional weight }
- A43B 21/00** **Heels; Top-pieces,** { e.g. high heels, heel distinct from the sole, high heels monolithic with the sole (sole and heel units [A43B 13/37](#)) }
- A43B 21/02 . characterised by the material
- A43B 21/025 . . { Metal }
- A43B 21/03 . . wood
- A43B 21/04 . . leather
- A43B 21/06 . . rubber
- A43B 21/08 . . . combined hard and soft rubber
- A43B 21/18 . . combined rubber and leather
- A43B 21/20 . . plastics
- A43B 21/22 . Heels or heel attachments specially designed to prevent splashing
- A43B 21/24 . characterised by the constructive form
- A43B 21/26 . . Resilient heels
- A43B 21/265 . . . { filled with a non-compressible fluid, e.g. gel, water }
- A43B 21/28 . . . Pneumatic heels { filled with a compressible fluid, e.g. air, gas }

- A43B 21/285 { provided with a pump or valve }
- A43B 21/30 . . Heels with metal springs
- A43B 21/32 . . Resilient supports for the heel of the foot
- A43B 21/36 . characterised by their attachment; Securing devices for the attaching means
(combined with soles [A43B 13/28](#))
- A43B 21/37 . . by hook-shaped or bent attaching means
- A43B 21/38 . . by screws only
- A43B 21/39 . . by rib groove
- A43B 21/40 . . . by dovetail
- A43B 21/42 . . Heels with replaceable or adjustable parts, { e.g. top lift }
- A43B 21/433 . . . rotatably mounted
- A43B 21/437 . . . with axially-adjustable rod-like top-pieces
- A43B 21/44 . . by claw-like means
- A43B 21/45 . . . with special tensioning means
- A43B 21/46 . . by bolts
- A43B 21/47 . . by resilient means
- A43B 21/48 . . . by press-buttons
- A43B 21/50 . . by bayonet catches or the like
- A43B 21/51 . . with keyhole-shaped opening and pin
- A43B 21/52 . . Interchangeable heel parts without special attachments
- A43B 21/54 . . by adhesion or the like

A43B 23/00**Uppers; Boot legs; Stiffeners; Other single parts of footwear**

- A43B 23/02 . Uppers; Boot legs {(ski boots with an upper made of flexible material [A43B 5/0486](#);
skating boots characterised by the uppers [A43B 5/1666](#))}
- A43B 23/0205 . . { characterised by the material (material of the lining [A43B 23/07](#), material of toe
stiffeners or heel stiffeners [A43B 23/08](#))}
- A43B 23/021 . . . { Leather }
- A43B 23/0215 . . . { Plastics or artificial leather }
- A43B 23/022 { with waterproof breathable membranes }
- A43B 23/0225 . . . { Composite materials, e.g. material with a matrix }
- A43B 23/023 . . . { Metal }
- A43B 23/0235 . . . { Different layers of different material }
- A43B 23/024 . . . { Different layers of the same material }
- A43B 23/0245 . . { characterised by the constructive form }
- A43B 23/025 . . . { assembled by stitching }
- A43B 23/0255 . . . { assembled by gluing or thermo bonding }
- A43B 23/026 . . . { Laminated layers }
- A43B 23/0265 . . . { having different properties in different directions }
- A43B 23/027 { with a part of the upper particularly flexible, e.g. permitting articulation or
torsion }
- A43B 23/0275 { with a part of the upper particularly rigid, e.g. resisting articulation or

- torsion }
- A43B 23/028 ... { Resilient uppers e.g. shock absorbing }
- A43B 23/0285 { filled with a non-compressible fluid, e.g. gel or water }
- A43B 23/029 { Pneumatic upper, e.g. gas filled }
- A43B 23/0295 ... { Pieced uppers }
- A43B 23/04 .. Uppers made of one piece; Uppers with inserted gussets
- A43B 23/042 ... { Uppers made of one piece (one piece slippers [A43B 3/106](#); one piece sandals [A43B 3/124](#)) }
- A43B 23/045 ... { Uppers with inserted gussets }
- A43B 23/047 { the gusset being elastic }
- A43B 23/06 .. Waterproof legs
- A43B 23/07 . Linings therefor { (for ski boots or similar boots [A43B 5/0405](#), lining laminated with upper [A43B 23/026](#)) }
- A43B 23/08 . Heel stiffeners; Toe stiffeners (footwear with shock-absorbing means [A43B 7/32](#))
- A43B 23/081 .. { Toe stiffeners }
- A43B 23/082 ... { made of metal }
- A43B 23/083 { light-alloys }
- A43B 23/085 ... { made of leather }
- A43B 23/086 ... { made of impregnated fabrics, plastics or the like }
- A43B 23/087 { made of plastics }
- A43B 23/088 .. { Heel stiffeners ([A43B 23/10](#), [A43B 23/14](#), [A43B 23/16](#), [A43B 23/17](#) take precedence) }
- A43B 23/10 .. made of metal { ([A43B 23/082](#) takes precedence) }
- A43B 23/105 ... { light-alloys }
- A43B 23/14 .. made of leather { ([A43B 23/085](#) takes precedence) }
- A43B 23/16 .. made of impregnated fabrics, plastics or the like { ([A43B 23/086](#) takes precedence) }
- A43B 23/17 ... made of plastics
- A43B 23/20 . Nails, pegs, pins, clamps, or tacks, for footwear
- A43B 23/22 . Supports for the shank or arch of the uppers (for health or hygienic purposes [A43B 7/14](#))
- A43B 23/222 .. { characterised by the attachment to the sole }
- A43B 23/225 ... { by integrated teeth }
- A43B 23/227 .. { fixed on the outside of the shoe }
- A43B 23/24 . Ornamental buckles; Other ornaments for shoes without fastening function
- A43B 23/25 .. Arrangement of ribbons on footwear
- A43B 23/26 . Tongues for shoes
- A43B 23/28 . Devices to put in shoes in order to prevent slipping at the heel or to prevent abrading the stockings
- A43B 23/30 . Heel-protectors for car-drivers