

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](#))
 - .. stitched or nailed through
- 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
 - .. moulded {(moulding soles or heels to preformed uppers [B29D 35/06](#))}
 - .. 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
 - ... { characterised by the outsole or external layer}
 - ... { characterised by the midsole or middle layer}
 - { 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 skiboats [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