

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](#)

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
 - .. {using a temporary protective insole or innersole}
- 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 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

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 13/122 ... {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 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	.	Built-in insoles joined to uppers during the manufacturing process, e.g. structural insoles; Insoles glued to shoes during the manufacturing process
A43B 13/383	..	{pieced}
A43B 13/386	..	{multilayered}

- 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**

{Inserted} insoles, e.g. footbeds or inlays, for attachment to the shoe after the upper has been joined (special medical insertions for shoes [A61F 5/14](#))

- A43B 17/003 . {characterised by the material (made of wood [A43B 17/12](#), made of sponge, rubber or plastic materials [A43B 17/14](#))}
- A43B 17/006 . . {multilayered}
- A43B 17/02 . wedge-like or resilient
- 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 . . filled with a gas, e.g. air
- 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
- A43B 17/10 . specially adapted for sweaty feet; waterproof; Waterproof socks
- A43B 17/102 . . {Moisture absorbing socks; Moisture dissipating socks}
- A43B 17/105 . . . {Disposable}
- A43B 17/107 . . {waterproof}
- A43B 17/12 . made of wood
- A43B 17/14 . made of sponge, rubber, or plastic materials
- A43B 17/16 . with heel or toe caps
- A43B 17/18 . Arrangements for attaching removable insoles to 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