

# CPC COOPERATIVE PATENT CLASSIFICATION

## A HUMAN NECESSITIES

### PERSONAL OR DOMESTIC ARTICLES

#### A43 FOOTWEAR

#### A43B CHARACTERISTIC FEATURES OF FOOTWEAR; PARTS OF FOOTWEAR

##### WARNINGS

- The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:  

<a href="#">A43B 21/10</a> - <a href="#">A43B 21/16</a>	covered by	<a href="#">A43B 21/06</a>
<a href="#">A43B 21/34</a>	covered by	<a href="#">A43B 21/24</a>
- In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

##### Characteristic features of footwear

- |             |  |        |   |
|-------------|--|--------|---|
| <b>1/00</b> | <b>Footwear characterised by the material (layered products <a href="#">B32B</a>)</b>  | 3/0026 | . {Footwear for use in minefields; Footwear protecting from landmine blast; Footwear preventing landmines from being triggered}   |
| 1/0009      | . {Footwear made at least partially of alveolar or honeycomb material}   | 3/0031 | . {Footwear provided with a pocket, e.g. for keys or a card}  |
| 1/0018      | . {Footwear made at least partially of flexible, bellow-like shaped material}  | 3/0036 | . {Footwear characterised by a special shape or design}   |
| 1/0027      | . {Footwear made at least partially from a material having special colours}  | 3/0042 | . . {with circular or circle shaped parts}  |
| 1/0036      | . . {with fluorescent or phosphorescent parts}   | 3/0047 | . . {Footwear parts having a male and corresponding female profile to fit together, e.g. form-fit}  |
| 1/0045      | . {Footwear made at least partially of deodorant means}  | 3/0052 | . . {X-shaped or cross-shaped}  |
| 1/0054      | . {Footwear provided with magnets, magnetic parts or magnetic substances}  | 3/0057 | . . {S-shaped}  |
| 1/0063      | . {Footwear made at least partially of material that can be recycled}  | 3/0063 | . . {U-shaped}  |
| 1/0072      | . {Footwear made at least partially of transparent or translucent materials}   | 3/0068 | . . {V-shaped}  |
| 1/0081      | . {Footwear made at least partially of hook-and-loop type material (hook and loop-type straps for fastening purpose <a href="#">A43C 11/1493</a> )}              | 3/0073 | . . {Y-shaped}  |
| 1/009       | . {Footwear made at least partially of washable material}  | 3/0078 | . . {Footwear provided with logos, letters, signatures or the like decoration ( <a href="#">A43B 23/24</a> takes precedence)}   |
| 1/02        | . Footwear made of animal or plant fibres or fabrics made therefrom  | 3/0084 | . . . {Arrangement of flocked decoration on shoes}  |
| 1/04        | . . Braided, knotted, knitted, or crocheted footwear   | 3/0089 | . . . {with means to identify the size of the shoe}   |
| 1/06        | . Footwear made of wood, cork, card-board, paper or like fibrous material (soles <a href="#">A43B 13/00</a> ; making of wooden shoes <a href="#">B27M 3/20</a> ) | 3/0094 | . . {with means to differentiate between right and left shoe}   |
| 1/08        | . Footwear made of metal (soles <a href="#">A43B 13/10</a> )   | 3/02   | . Top-boots; Leg-boots; Shoes with batwing tabs   |
| 1/10        | . Footwear made of rubber  | 3/04   | . . with rubber or elastic insertions or gussets  |
| 1/12        | . . of rubber waste  | 3/06   | . Shoes with flaps; Footwear with divided uppers  |
| 1/14        | . Footwear made of gutta-percha, celluloid, or plastics  | 3/08   | . . with rubber or elastic insertions or gussets  |
| <b>3/00</b> | <b>Footwear characterised by the shape or the use</b>  | 3/10   | . Low shoes; Slippers ( <a href="#">sandals <a href="#">A43B 3/12</a></a> )   |
| 3/0005      | . {Footwear provided with electrical or electronic systems}  | 3/101  | . . {Slippers}  |
| 3/001       | . . {Footwear provided with light source}  | 3/102  | . . . {Slippers leaving the heel of the foot bare ( <a href="#">A43B 3/106</a> takes precedence; slippers with an anklestrap. sling type shoes <a href="#">A43B 3/12</a> )} |
| 3/0015      | . . {Footwear provided with generator}   | 3/103  | . . . . {characterised by the attachment of the toestrap}   |
| 3/0021      | . . {Footwear provided with sound or music source}   | 3/105  | . . . . {characterised by the shape or layout of the toestrap}  |
|             |  | 3/106  | . . {Disposable slippers; One piece slippers}   |
|             |  | 3/107  | . . {characterised by the material}   |
|             |  | 3/108  | . . {characterised by the sole}   |
|             |  | 3/12   | . Sandals {provided with an anklestrap}; Strap guides thereon {(footwear having only a toestrap, thong sandals <a href="#">A43B 3/10</a> )}                                 |
|             |  | 3/122  | . . {characterised by the attachment of the straps}   |

- 3/124 . . {Disposable sandals; One piece sandals}
- 3/126 . . {characterised by the shape or layout of the straps}
- 3/128 . . {characterised by the sole}
- 3/14 . Moccasins, opanken, or like shoes
- 3/16 . Overshoes ([A43B 23/30 takes precedence](#))
- 3/163 . . {Overshoes specially adapted for health or hygienic purposes, e.g. comprising electrically conductive material allowing the discharge of electrostatic charges}
- 3/166 . . {Mud-guards}
- 3/18 . . Devices for holding overshoes in position
- 3/20 . . Heel-less overshoes
- 3/22 . . Protecting sheaths worn between shoe and overshoe
- 3/24 . Collapsible or convertible footwear {(multipurpose skate boots [A43B 5/1633](#); exchangeable soles [A43B 13/36](#))}
- 3/242 . . {characterised by the upper}
- 3/244 . . {characterised by the attachment between upper and sole}
- 3/246 . . {characterised by the sole}
- 3/248 . . {Collapsible or foldable footwear, e.g. for travelling}
- 3/26 . Footwear adjustable as to length or size {(adjustable ski boots or similar boots [A43B 5/0427](#); adjustable skating boots [A43B 5/1608](#))}
- 3/28 . Footwear specially adapted for dolls
- 3/30 . Footwear specially adapted for babies or small children
- 5/00 Footwear for sporting purposes (non-skid devices, e.g. ice-spurs, studs for football shoes, [A43C 15/00](#))**
- 5/001 . {Golf shoes}
- 5/002 . {Mountain boots or shoes}
- 5/003 . . {for free climbing}
- 5/004 . {After-ski boots}
- 5/005 . {for grinding, i.e. sliding on the sole or a part thereof}
- 5/006 . {for horse riding (stirrups [B68C 3/00](#))}
- 5/007 . {Footwear for car driving or racing}
- 5/008 . {Bowling Shoes}
- 5/02 . Football boots {or shoes, i.e. footwear for soccer, football or rugby}
- 5/025 . . {characterised by an element which improves the contact between the ball and the footwear}
- 5/04 . Ski boots; Similar boots
- 5/0401 . . {Snowboard boots}
- 5/0403 . . . {Adaptations for soles or accessories with soles for snowboard bindings}
- 5/0405 . . {Linings, paddings, insertions; Inner boots (in general [A43B 19/00](#))}
- 5/0407 . . . {inflatable}
- 5/0409 . . . {with means for attaching inner boots or parts thereof to shells of ski boots}
- 5/0411 . . {for cross-country}
- 5/0413 . . . {Adaptations for soles or accessories associated with soles for cross-country bindings}
- 5/0415 . . {Accessories ([A43B 5/0403](#), [A43B 5/0413](#), [A43B 5/0494 take precedence](#))}
- 5/0417 . . . {for soles or associated with soles of ski boots; for ski bindings ([A43B 5/0411 takes precedence](#))}
- 5/0419 . . . . {for walking aids}
- 5/0421 . . . . {located underneath the sole}
- 5/0423 . . . . {located on the sides of the sole}
- 5/0425 . . . {Devices for carrying ski-boots or similar boots}
- 5/0427 . . {characterised by type or construction details}
- 5/0429 . . . {Adjustment of the boot to calf or shin, i.e. fibula, tibia}
- 5/0431 . . . . {to the length of calf or shin, i.e. fibula, tibia}
- 5/0433 . . . . {to the width of calf or shin, i.e. fibula, tibia}
- 5/0435 . . . {Adjustment of the boot to the foot}
- 5/0437 . . . . {to the arch of the foot ([A43B 5/0441 takes precedence](#))}
- 5/0439 . . . . {to the heel; Heel clamping devices; Heel supports}
- 5/0441 . . . . {by lifting the insole}
- 5/0443 . . . . {to the instep of the foot, e.g. metatarsals; Metatarsal clamping devices}
- 5/0445 . . . . . {directly actuated by non flexible means, e.g. screws, levers}
- 5/0447 . . . . . {actuated by flexible means, e.g. cables, straps}
- 5/0449 . . . . . {with the actuator being disposed at the rear side of the boot}
- 5/045 . . . . {to the width of the foot}
- 5/0452 . . . {Adjustment of the forward inclination of the boot leg}
- 5/0454 . . . . {including flex control; Dampening means}
- 5/0456 . . . . . {with the actuator being disposed at the rear side of the boot ([A43B 5/0464 takes precedence](#))}
- 5/0458 . . . . . {with the actuator being disposed at the front side of the boot ([A43B 5/0464 takes precedence](#))}
- 5/046 . . . . . {with the actuator being disposed at the lateral or medial side of the boot ([A43B 5/0464 takes precedence](#))}
- 5/0462 . . . . . {with the actuator being disposed at the lower side of the boot ([A43B 5/0464 takes precedence](#))}
- 5/0464 . . . . . {with exchangeable parts}
- 5/0466 . . . {Adjustment of the side inclination of the boot leg; Canting}
- 5/0468 . . . {Adjustment of the angle of the boot to the ski}
- 5/047 . . . {provided with means to improve walking with the skiboot}
- 5/0472 . . . . {having a flexible toe portion; provided with a hinge at the ball of the foot}
- 5/0474 . . . . {having a walk/ski position ([A43B 5/0472 takes precedence](#))}
- 5/0476 . . . {Front-entry skiboats}
- 5/0478 . . . {Mid-entry skiboats, hybrid skiboats}
- 5/048 . . . {Rear-entry skiboats}
- 5/0482 . . . {made from materials with different rigidities}
- 5/0484 . . . {permitting easy replacement of parts}
- 5/0486 . . {characterized by the material}
- 5/0488 . . . {with an upper made of flexible material, e.g. leather ([A43B 5/0401](#), [A43B 5/002 take precedence](#))}
- 5/049 . . . {with an upper made of composite material, e.g. fibers or core embedded in a matrix}
- 5/0492 . . {Telemark boots}

- 5/0494 . . . {Adaptations for soles or accessories associated with soles for telemark bindings}
- 5/0496 . . {boots for touring or hiking skis}
- 5/0498 . . {For ski jumping}
- 5/06 . Running boots
- 5/08 . Bathing shoes {; Aquatic sports shoes}
- 5/10 . Tennis shoes
- 5/12 . Dancing shoes
- 5/14 . Shoes for cyclists
- 5/145 . . {Boots for motorcyclists}
- 5/16 . Skating boots
- 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](#))}
- 5/1616 . . {Inner boots}
- 5/1625 . . {made from materials with different rigidities}
- 5/1633 . . {Multipurpose skate boots (roller skates convertible to ice skates [A63C 17/18](#), with fixable wheels permitting walking [A63C 17/20](#))}
- 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](#))}
- 5/165 . . . {with ventilation means in the sole}
- 5/1658 . . . {provided with resilient means in the sole or between the chassis and the sole}
- 5/1666 . . {characterised by the upper}
- 5/1675 . . . {with ventilation means in the upper}
- 5/1683 . . . {characterised by the lower part of the upper or by the shell}
- 5/1691 . . . {characterised by the higher part of the upper, e.g. surrounding the ankle, by the quarter or cuff}
- 5/18 . Attachable overshoes for sporting purposes
- 5/185 . . {with a sole covering spikes or cleats}
- 7/00 Footwear with health or hygienic arrangements**
- 7/005 . {Footwear with cooling arrangements}
- 7/02 . Footwear with heating arrangements (footwarmers [A61F 2007/0045](#); electric heating elements [H05B](#))
- 7/025 . . {heated by an electric current from an external source, e.g. car batteries}
- 7/04 . . Footwear with electric batteries, generators, or the like
- 7/06 . Ventilated footwear {(ventilated skating boots [A43B 5/165](#), [A43B 5/1675](#); ventilated socks or inserts [A43B 17/08](#))}
- 7/08 . . Footwear with air-holes, with or without closures
- 7/081 . . . {the air being forced from outside}
- 7/082 . . . {the air being expelled to the outside}
- 7/084 . . . {characterised by the location of the holes}
- 7/085 . . . . {in the upper}
- 7/087 . . . . {in the bottom of the sole}
- 7/088 . . . . {in the side of the sole}
- 7/10 . . . with closable air-slots near the waist
- 7/105 . . . . {with pumping means or valves}
- 7/12 . Special watertight footwear (overshoes [A43B 3/16](#))
- 7/125 . . {provided with a vapour permeable member, e.g. a membrane ([A43B 23/022](#) takes precedence)}
- 7/14 . Footwear with foot-supporting parts
- 7/1405 . . {provided with pads or holes on one or more locations, or having an anatomical or curved form}
- 7/141 . . . {having an anatomical or curved form}
- 7/1415 . . . {characterised by the location under the foot}
- 7/142 . . . . {situated under the medial arch, i.e. the navicular or cuneiform bones}
- 7/1425 . . . . {situated under the ball of the foot, i.e. the joint between the first metatarsal and first phalange}
- 7/143 . . . . {situated under the lateral arch, i.e. the cuboid bone}
- 7/1435 . . . . {situated under the joint between the fifth phalange and the fifth metatarsal bone}
- 7/144 . . . . {situated under the heel, i.e. the calcaneus bone}
- 7/1445 . . . . {situated under the midfoot, i.e. the metatarsal}
- 7/145 . . . . {situated under the toes, i.e. the phalange}
- 7/1455 . . . {with special properties}
- 7/146 . . . . {provided with acupressure points or means for footmassage}
- 7/1465 . . . . {with removable or adjustable pads to allow custom fit}
- 7/147 . . . . {for sick or disabled persons, e.g. persons having osteoarthritis or diabetes}
- 7/1475 . . . {characterised by the type of support}
- 7/148 . . . . {Recesses or holes filled with a support or pad}
- 7/1485 . . . . {Recesses or holes, traversing partially or completely the thickness of the pad}
- 7/149 . . . . {Pad, e.g. protruding on the foot facing surface}
- 7/1495 . . {Footwear with arch-supports of the bracelet type}
- 7/16 . . Footwear with elevated heel parts inside
- 7/18 . . Joint supports, e.g. instep supports
- 7/19 . . . engaging the ground directly
- 7/20 . . . Ankle-joint supports or holders
- 7/22 . . Footwear with fixed flat-foot insertions, metatarsal supports, ankle flaps, or the like ([orthopaedic insertions A61F 5/14](#))
- 7/223 . . . {characterised by the constructive form}
- 7/226 . . . {characterised by the material}
- 7/24 . . Insertions or cap supports preventing the foot canting to one side {, preventing supination or pronation}
- 7/26 . . Footwear with toe-spacers or toe-spreaders
- 7/28 . . Adapting the inner sole {or the side of the upper} of the shoe to the sole of the foot
- 7/30 . . Protecting the ball-joint against pressure while standing
- 7/32 . Footwear with shock-absorbing means {Safety footwear} ([resilient soles A43B 13/18](#))
- 7/34 . Footwear with protection against heat or cold
- 7/36 . with earthing or grounding means
- 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](#))
- 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](#))}
- 9/02 . Footwear stitched or nailed through
- 9/04 . Welted footwear ([welts A43B 15/00](#))

9/06	. . stitched or nailed through	13/189	. . . {filled with a non-compressible fluid, e.g. gel, water}
9/08	. Turned footwear	13/20	. . . Pneumatic soles {filled with a compressible fluid, e.g. air, gas (inflatable linings for skiboats <a href="#">A43B 5/0407</a> )}
9/10	. Footwear with out-turned uppers	13/203	. . . . {provided with a pump or valve}
9/12	. Stuck or cemented footwear	13/206	. . . . {provided with tubes or pipes or tubular shaped cushioning members}
9/125	. . {using a temporary protective insole or innersole}	13/22	. . Soles made slip-preventing or wear-resisting, e.g. by impregnation or spreading a wear-resisting layer
9/14	. Platform shoes	13/223	. . . {Profiled soles}
9/16	. Footwear with soles moulded on to uppers or welded on to uppers without adhesive	13/226	. . . . {the profile being made in the foot facing surface}
9/18	. . moulded {(moulding soles or heels to preformed uppers <a href="#">B29D 35/06</a> )}	13/24	. . . by use of insertions
9/20	. . welded	13/26	. . . . projecting beyond the sole surface
<b>11/00</b>	<b>Footwear with miscellaneous arrangements to facilitate putting-on or removing, e.g. with straps</b>	13/28	. characterised by their attachment, also attachment of combined soles and heels (attachment of heels <a href="#">A43B 21/36</a> ; attachment of heel parts { <a href="#">A43B 21/42</a> })
11/02	. with built-in shoe-horns	13/30	. . by screws
<b>Parts of footwear</b>		13/32	. . by adhesives
<b>13/00</b>	<b>Soles</b> ({ <a href="#">Skating boots characterised by the sole <a href="#">A43B 5/1641</a>,</a> socks <a href="#">A43B 17/00</a> }); <b>Sole and heel units</b>	13/34	. . Soles also attached to the inner side of the heels
13/02	. characterised by the material	13/36	. . Easily-exchangeable soles (of metal <a href="#">A43B 13/10</a> ; <a href="#">protecting-soles <a href="#">A43C 13/12</a></a> )
13/023	. . {Soles with several layers of the same material (soles with several layers of different materials <a href="#">A43B 13/12</a> )}	13/37	. Sole and heel units
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}	13/38	. Built-in insoles joined to uppers during the manufacturing process, e.g. structural insoles; Insoles glued to shoes during the manufacturing process
13/04	. . plastics, rubber or vulcanised fibre	13/383	. . {pieced}
13/08	. . wood	13/386	. . {multilayered}
13/10	. . metal	13/39	. . with upset sewing ribs
13/12	. . Soles with several layers of different materials	13/40	. . with cushions
13/122	. . . {characterised by the outsole or external layer}	13/41	. . combined with heel stiffener, toe stiffener, or shank stiffener
13/125	. . . {characterised by the midsole or middle layer}	13/42	. Filling materials located between the insole and outer sole; Stiffening materials
13/127	. . . . {the midsole being multilayer}	<b>15/00</b>	<b>Welts for footwear</b>
13/14	. characterised by the constructive form	<b>17/00</b>	<b>Insoles for insertion, e.g. footbeds or inlays, for attachment to the shoe after the upper has been joined</b> (special medical insertions for shoes <a href="#">A61F 5/14</a> )
13/141	. . {with a part of the sole being flexible, e.g. permitting articulation or torsion}	17/003	. {characterised by the material (made of wood <a href="#">A43B 17/12</a> , made of sponge, rubber or plastic materials <a href="#">A43B 17/14</a> )}
13/143	. . {provided with wedged, concave or convex end portions, e.g. for improving roll-off of the foot}	17/006	. . {multilayered}
13/145	. . . {Convex portions, e.g. with a bump or projection, e.g. 'Masai' type shoes}	17/02	. wedge-like or resilient
13/146	. . . {Concave end portions, e.g. with a cavity or cut-out portion}	17/023	. . {wedge-like ( <a href="#">A43B 17/03</a> takes precedence)}
13/148	. . . . {Wedged end portions}	17/026	. . {filled with a non-compressible fluid, e.g. gel, water}
13/16	. . Pieced soles (with several layers of different material <a href="#">A43B 13/12</a> )	17/03	. . filled with a gas, e.g. air
13/18	. . Resilient soles {(skating boots provided with resilient means <a href="#">A43B 5/1658</a> )}	17/035	. . . {provided with a pump or valve}
13/181	. . . {Resiliency achieved by the structure of the sole}	17/04	. with metal insertions or coverings
13/182	. . . . {Helicoidal springs}	17/06	. with metal springs
13/183	. . . . {Leaf springs}	17/08	. ventilated
13/184	. . . . {the structure protruding from the outsole}	17/10	. specially adapted for sweaty feet; waterproof
13/185	. . . . {Elasticated plates sandwiched between two interlocking components, e.g. thrustors}	17/102	. . {Moisture absorbing socks; Moisture dissipating socks}
13/186	. . . . {Differential cushioning region, e.g. cushioning located under the ball of the foot (resilient heel not included in the sole <a href="#">A43B 21/26</a> ; resilient supports for the heel of the foot <a href="#">A43B 21/32</a> )}	17/105	. . . {Disposable}
13/187	. . . . {Resiliency achieved by the features of the material, e.g. foam, non liquid materials}	17/107	. . {waterproof}
13/188	. . . . {Differential cushioning regions}	17/12	. made of wood



- 17/14 . made of sponge, rubber, or plastic materials
- 17/16 . with heel or toe caps
- 17/18 . Arrangements for attaching removable insoles to footwear
- 19/00 Shoe-shaped inserts; Inserts covering the instep**  
{(for ski boots or similar boots [A43B 5/0405](#), for skating boots [A43B 5/1616](#))}
- 19/005 . {Weighted inserts for shoes, i.e. insert comprising an additional weight}
- 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](#))}**
- 21/02 . characterised by the material
- 21/025 . . {Metal}
- 21/03 . . wood
- 21/04 . . leather
- 21/06 . . rubber
- 21/08 . . . combined hard and soft rubber
- 21/18 . . combined rubber and leather
- 21/20 . . plastics
- 21/22 . Heels or heel attachments specially designed to prevent splashing
- 21/24 . characterised by the constructive form
- 21/26 . . Resilient heels
- 21/265 . . . {filled with a non-compressible fluid, e.g. gel, water}
- 21/28 . . . Pneumatic heels {filled with a compressible fluid, e.g. air, gas}
- 21/285 . . . . {provided with a pump or valve}
- 21/30 . . Heels with metal springs
- 21/32 . . Resilient supports for the heel of the foot
- 21/36 . characterised by their attachment; Securing devices for the attaching means (combined with soles [A43B 13/28](#))
- 21/37 . . by hook-shaped or bent attaching means
- 21/38 . . by screws only
- 21/39 . . by rib groove
- 21/40 . . . by dovetail
- 21/42 . . Heels with replaceable or adjustable parts {, e.g. top lift}
- 21/433 . . . rotatably mounted
- 21/437 . . . with axially-adjustable rod-like top-pieces
- 21/44 . . by claw-like means
- 21/45 . . . with special tensioning means
- 21/46 . . by bolts
- 21/47 . . by resilient means
- 21/48 . . . by press-buttons
- 21/50 . . by bayonet catches or the like
- 21/51 . . with keyhole-shaped opening and pin
- 21/52 . . Interchangeable heel parts without special attachments
- 21/54 . . by adhesion or the like
- 23/00 Uppers; Boot legs; Stiffeners; Other single parts of footwear**
- 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](#))}
- 23/0205 . . {characterised by the material (material of the lining [A43B 23/07](#), material of toe stiffeners or heel stiffeners [A43B 23/08](#))}
- 23/021 . . . {Leather}
- 23/0215 . . . {Plastics or artificial leather}
- 23/022 . . . . {with waterproof breathable membranes}
- 23/0225 . . . {Composite materials, e.g. material with a matrix}
- 23/023 . . . {Metal}
- 23/0235 . . . {Different layers of different material}
- 23/024 . . . {Different layers of the same material}
- 23/0245 . . {characterised by the constructive form}
- 23/025 . . . {assembled by stitching}
- 23/0255 . . . {assembled by gluing or thermo bonding}
- 23/026 . . . {Laminated layers}
- 23/0265 . . . {having different properties in different directions}
- 23/027 . . . . {with a part of the upper particularly flexible, e.g. permitting articulation or torsion}
- 23/0275 . . . . {with a part of the upper particularly rigid, e.g. resisting articulation or torsion}
- 23/028 . . . {Resilient uppers, e.g. shock absorbing}
- 23/0285 . . . . {filled with a non-compressible fluid, e.g. gel or water}
- 23/029 . . . . {Pneumatic upper, e.g. gas filled}
- 23/0295 . . . {Pieced uppers}
- 23/04 . . Uppers made of one piece; Uppers with inserted gussets
- 23/042 . . . {Uppers made of one piece (one piece slippers [A43B 3/106](#); one piece sandals [A43B 3/124](#))}
- 23/045 . . . {Uppers with inserted gussets}
- 23/047 . . . . {the gusset being elastic}
- 23/06 . . Waterproof legs
- 23/07 . Linings therefor {(for ski boots or similar boots [A43B 5/0405](#), lining laminated with upper [A43B 23/026](#))}
- 23/08 . Heel stiffeners; Toe stiffeners (footwear with shock-absorbing means [A43B 7/32](#))
- 23/081 . . {Toe stiffeners}
- 23/082 . . . {made of metal}
- 23/083 . . . . {light-alloys}
- 23/085 . . . {made of leather}
- 23/086 . . . {made of impregnated fabrics, plastics or the like}
- 23/087 . . . . {made of plastics}
- 23/088 . . {Heel stiffeners ([A43B 23/10](#), [A43B 23/14](#), [A43B 23/16](#), [A43B 23/17](#) take precedence)}
- 23/10 . . made of metal {( [A43B 23/082](#) takes precedence)}
- 23/105 . . . {light-alloys}
- 23/14 . . made of leather {( [A43B 23/085](#) takes precedence)}
- 23/16 . . made of impregnated fabrics, plastics or the like {( [A43B 23/086](#) takes precedence)}
- 23/17 . . . made of plastics
- 23/20 . Nails, pegs, pins, clamps, or tacks, for footwear
- 23/22 . Supports for the shank or arch of the uppers (for health or hygienic purposes [A43B 7/14](#))
- 23/222 . . {characterised by the attachment to the sole}
- 23/225 . . . {by integrated teeth}
- 23/227 . . {fixed on the outside of the shoe}
- 23/24 . Ornamental buckles; Other ornaments for shoes without fastening function
- 23/25 . . Arrangement of ribbons on footwear
- 23/26 . Tongues for shoes
- 23/28 . Devices to put in shoes in order to prevent slipping at the heel or to prevent abrading the stockings
- 23/30 . Heel-protectors for car-drivers