

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

1/00 Footwear characterised by the material

- 1/0009 . {made at least partially of alveolar or honeycomb material}
- 1/0018 . {made at least partially of flexible, bellow-like shaped material}
- 1/0027 . {made at least partially from a material having special colours}
- 1/0036 . . {with fluorescent or phosphorescent parts}
- 1/0045 . {made at least partially of deodorant means}
- 1/0054 . {provided with magnets, magnetic parts or magnetic substances}
- 1/0063 . {made at least partially of material that can be recycled}
- 1/0072 . {made at least partially of transparent or translucent materials}
- 1/0081 . {made at least partially of hook-and-loop type material (hook and loop-type straps for fastening purpose [A43C 11/1493](#))}
- 1/009 . {made at least partially of washable material}
- 1/02 . made of fibres or fabrics made therefrom
- 1/023 . . Animal fibres
- 1/025 . . Plant fibres
- 1/028 . . Synthetic or artificial fibres
- 1/04 . . braided, knotted, knitted or crocheted
- 1/05 . . woven
- 1/06 . made of wood, cork, card-board, paper or like fibrous material
- 1/08 . made of metal
- 1/10 . made of rubber
- 1/12 . . of rubber waste
- 1/14 . made of plastics ([A43B 1/028](#) takes precedence)

3/00 Footwear characterised by the shape or the use

- 3/0026 . {for use in minefields; protecting from landmine blast; preventing landmines from being triggered}
- 3/0031 . {provided with a pocket, e.g. for keys or a card}
- 3/0036 . {characterised by a special shape or design}
- 3/0042 . . {with circular or circle shaped parts}
- 3/0047 . . {parts having a male and corresponding female profile to fit together, e.g. form-fit}
- 3/0052 . . {X-shaped or cross-shaped}

- 3/0057 . . {S-shaped}
- 3/0063 . . {U-shaped}
- 3/0068 . . {V-shaped}
- 3/0073 . . {Y-shaped}
- 3/0078 . . {provided with logos, letters, signatures or the like decoration ([A43B 23/24](#) takes precedence)}
- 3/0084 . . . {Arrangement of flocked decoration on shoes}
- 3/0089 . . . {with means to identify the size of the shoe}
- 3/0094 . . {with means to differentiate between right and left shoe}
- 3/02 . Boots covering the lower leg
- 3/04 . . with rubber or elastic insertions or gussets
- 3/06 . Shoes with flaps; Footwear with divided uppers
- 3/08 . . with rubber or elastic insertions or gussets
- 3/10 . Low shoes {, e.g. comprising only a front strap}; Slippers
- 3/101 . . {Slippers, e.g. flip-flops or thong sandals}
- 3/102 . . . {leaving the heel of the foot bare ([A43B 3/106](#) takes precedence)}
- 3/103 {characterised by the attachment of the toestrap}
- 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; Strap guides thereon
- 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
- 3/163 . . {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
- 3/24 . Collapsible or convertible

- 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, e.g. foldable for travelling}
- 3/26 . adjustable as to length or size
- 3/30 . specially adapted for babies or small children
- 3/34 . with electrical or electronic arrangements
- 3/35 . . with electric heating arrangements
- 3/355 . . . {heated by an electric current from an external source, e.g. car batteries}
- 3/36 . . with light sources
- 3/38 . . with power sources
- 3/40 . . . Batteries
- 3/42 . . . where power is generated by conversion of mechanical movement to electricity, e.g. by piezoelectric means
- 3/44 . . with sensors, e.g. for detecting contact or position
- 3/46 . . . Global positioning system [GPS] sensors
- 3/48 . . with transmitting devices, e.g. GSM or Wi-Fi®
- 3/50 . . with sound or music sources
- 5/00 Footwear for sporting purposes (non-skid devices, e.g. ice-spurs or 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}
- 5/007 . {for car driving or racing}
- 5/008 . {Bowling Shoes}
- 5/02 . Football boots {or shoes, i.e. for soccer, football or rugby}
- 5/025 . . {characterised by an element which improves the contact between the ball and the footwear}
- 5/04 . Ski or like boots
- 5/0401 . . {Snowboard boots}
- 5/0403 . . . {Adaptations for soles or accessories with soles for snowboard bindings}
- 5/0405 . . {Linings, paddings or insertions; Inner boots}
- 5/0407 . . . {inflatable}
- 5/0409 . . . {with means for attaching inner boots or parts thereof to shells of skiboots}
- 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 skiboots}
- 5/0478 . . . {Mid-entry skiboots, hybrid skiboots}
- 5/048 . . . {Rear-entry skiboots}
- 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 shoes; Track shoes
- 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 . . . {with cooling arrangements}
- 7/02 . . . with heating arrangements (with electric heating arrangements [A43B 3/35](#))
- 7/06 . . . ventilated
- 7/08 . . . with air-holes, with or without closures
- 7/081 . . . {the air being forced from outside}
- 7/082 . . . {the air being expelled to the outside}
- 7/083 . . . with pumping means or valves
- 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
- 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 . . . with foot-supporting parts
- 7/1405 . . . 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. under 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 second, third or fourth metatarsal
- 7/145 situated under the toes, i.e. the phalanges
- 7/1455 . . . with special properties
- 7/146 {provided with acupressure points or means for foot massage}
- 7/1463 with removable pads to allow custom fit
- 7/1464 with adjustable pads to allow custom fit
- 7/1466 adjustable by screws or threads
- 7/1467 adjustable by resilient members, e.g. springs
- 7/1468 adjustable by shims
- 7/1469 adjustable by selectively fastening or securing into multiple available positions
- 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 supports or pads
- 7/1485 Recesses or holes, traversing partially or completely the thickness of the pad
- 7/149 Pads, e.g. protruding on the foot-facing surface
- 7/1495 . . . {with arch-supports of the bracelet type}
- 7/16 . . . 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 . . . with fixed flat-foot insertions, metatarsal supports, ankle flaps or the like
- 7/223 . . . {characterised by the constructive form}
- 7/226 . . . {characterised by the material}
- 7/24 . . . Insertions or other supports preventing the foot canting to one side {, preventing supination or pronation}
- 7/26 . . . 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 . . . with shock-absorbing means (resilient soles [A43B 13/18](#))
- 7/34 . . . with protection against heat or cold
- 7/36 . . . with earthing or grounding means
- 7/38 . . . Elevating, i.e. height increasing (with elevated heel parts inside [A43B 7/16](#); lengthening pieces for natural legs [A61F 3/00](#))
- 9/00 Footwear characterised by the assembling of the individual parts**
- 9/02 . . . Footwear stitched or nailed through
- 9/04 . . . Welted footwear (welts [A43B 15/00](#))
- 9/06 . . . stitched or nailed through
- 9/08 . . . Turned footwear
- 9/10 . . . Footwear with out-turned uppers
- 9/12 . . . Stuck or cemented footwear
- 9/125 . . . {using a temporary protective insole or innersole}
- 9/14 . . . Platform shoes
- 9/16 . . . Footwear with soles moulded on to uppers or welded on to uppers without adhesive
- 9/18 . . . moulded
- 9/20 . . . welded
- 11/00 Footwear with arrangements to facilitate putting-on or removing, e.g. with straps**
- 11/02 . . . with built-in shoe-horns

Parts of footwear**13/00 Soles; Sole-and-heel integral units**

- 13/02 . characterised by the material
- 13/023 . . {Soles with several layers of the same material}
- 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}
- 13/04 . . Plastics, rubber or vulcanised fibre
- 13/06 . . Leather
- 13/08 . . Wood
- 13/10 . . Metal
- 13/12 . . Soles with several layers of different materials
- 13/122 . . . {characterised by the outsole or external layer}
- 13/125 . . . {characterised by the midsole or middle layer}
- 13/127 {the midsole being multilayer}
- 13/14 . characterised by the constructive form
- 13/141 . . {with a part of the sole being flexible, e.g. permitting articulation or torsion}
- 13/143 . . {provided with wedged, concave or convex end portions, e.g. for improving roll-off of the foot}
- 13/145 . . . {Convex portions, e.g. with a bump or projection, e.g. 'Masai' type shoes}
- 13/146 . . . {Concave end portions, e.g. with a cavity or cut-out portion}
- 13/148 . . . {Wedged end portions}
- 13/16 . . Pieced soles (with several layers of different material [A43B 13/12](#))
- 13/18 . . Resilient soles {(skating boots provided with resilient means [A43B 5/1658](#))}
- 13/181 . . . {Resiliency achieved by the structure of the sole}
- 13/182 {Helicoidal springs}
- 13/183 {Leaf springs}
- 13/184 {the structure protruding from the outsole}
- 13/185 {Elasticated plates sandwiched between two interlocking components, e.g. thrustors}
- 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](#))}
- 13/187 . . . {Resiliency achieved by the features of the material, e.g. foam, non liquid materials}
- 13/188 {Differential cushioning regions}
- 13/189 . . . {filled with a non-compressible fluid, e.g. gel, water}
- 13/20 . . . Pneumatic soles {filled with a compressible fluid, e.g. air, gas (inflatable linings for skiboats [A43B 5/0407](#))}
- 13/203 {provided with a pump or valve}
- 13/206 {provided with tubes or pipes or tubular shaped cushioning members}
- 13/22 . . Soles made slip-preventing or wear-resisting, e.g. by impregnation or spreading a wear-resisting layer
- 13/223 . . . {Profiled soles}
- 13/226 {the profile being made in the foot facing surface}
- 13/24 . . . by use of insertions
- 13/26 projecting beyond the sole surface
- 13/28 . characterised by their attachment, also attachment of combined soles and heels
- 13/30 . . by screws

- 13/32 . . by adhesives
- 13/34 . . Soles also attached to the inner side of the heels
- 13/36 . . Easily-exchangeable soles (protecting-soles [A43C 13/12](#))
- 13/37 . Sole and heel units
- 13/38 . Built-in insoles joined to uppers during the manufacturing process, e.g. structural insoles; Insoles glued to shoes during the manufacturing process
- 13/383 . . {pieced}
- 13/386 . . {multilayered}
- 13/39 . . with upset sewing ribs
- 13/40 . . with cushions
- 13/41 . . combined with heel stiffener, toe stiffener, or shank stiffener
- 13/42 . Filling materials located between the insole and outer sole; Stiffening materials

15/00 Welts for footwear**17/00 Insoles for insertion, e.g. footbeds or inlays, for attachment to the shoe after the upper has been joined**

- 17/003 . {characterised by the material (made of wood [A43B 17/12](#), made of sponge, rubber or plastic materials [A43B 17/14](#))}
- 17/006 . . {multilayered}
- 17/02 . wedge-like or resilient
- 17/023 . . {wedge-like ([A43B 17/03](#) takes precedence)}
- 17/026 . . {filled with a non-compressible fluid, e.g. gel, water}
- 17/03 . . filled with a gas, e.g. air
- 17/035 . . . {provided with a pump or valve}
- 17/04 . with metal insertions or coverings
- 17/06 . with metal springs
- 17/08 . ventilated
- 17/10 . specially adapted for sweaty feet; waterproof
- 17/102 . . {Moisture absorbing socks; Moisture dissipating socks}
- 17/105 . . . {Disposable}
- 17/107 . . {waterproof}
- 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

- 19/005 . {Weighted inserts for shoes, i.e. insert comprising an additional weight}

21/00 Heels; Top-pieces or top-lifts

- 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
- 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 {(lining laminated with upper [A43B 23/026](#))}
- 23/08 . Heel stiffeners; Toe stiffeners
- 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
- 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