

**CPC****COOPERATIVE PATENT CLASSIFICATION****A63C****SKATES; SKIS; ROLLER SKATES; DESIGN OR LAYOUT OF COURTS, RINKS OR THE LIKE** (devices for underwater sports

[A63B 31/00](#), [A63B 33/00](#), [B63C 11/00](#); devices for gliding on water, e.g. water skis, [B63B 35/79](#), [B63B 35/81](#), [B63B 35/83](#))

**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:

[A63C 5/025](#) covered by [A63C 5/00](#)

[A63C 5/14](#) covered by [A63C 5/12](#)

**Skates; Accessories for skating****A63C 1/00****Skates** (roller skates or skate boards [A63C 17/00](#))

- [A63C 1/02](#) . rigidly mounted on the sole of the boot
- [A63C 1/04](#) . fastened by means of clamps
- [A63C 1/06](#) . . with sole and heel plates each equipped with clamps
- [A63C 1/08](#) . . with simultaneously-tightened sole and heel clamps
- [A63C 1/10](#) . . tightened by the movement of the foot
- [A63C 1/12](#) . . tightened by lateral swinging or shifting of the blade or of the whole skate
- [A63C 1/14](#) . . tightened by means of springs
- [A63C 1/16](#) . . Special structure of the clamp fastening devices
- [A63C 1/18](#) . fastened by means of straps
- [A63C 1/20](#) . with fastening means on special metal parts
- [A63C 1/22](#) . with special foot-plates of the boot
- [A63C 1/24](#) . . Elastic plates
- [A63C 1/26](#) . . divided into two parts permitting adjustment to the size of the foot
- [A63C 1/28](#) . . Pivotaly-mounted plates
- [A63C 1/30](#) . with special blades
- [A63C 1/303](#) . . {removably fastened to the blade holder}
- [A63C 1/306](#) . . {Ice wheels}
- [A63C 1/32](#) . . Special constructions of the simple blade
- [A63C 1/34](#) . . Multi-part blades
- [A63C 1/36](#) . . with several blades
- [A63C 1/38](#) . of the tubular type
- [A63C 1/40](#) . manufactured of one piece of material
- [A63C 1/42](#) . Manufacture of skates

**A63C 3/00****Accessories for skates**

- A63C 3/02 . Supports for the foot-joint ([footwear with foot-supporting parts A43B 7/14](#))
- A63C 3/04 . Supporting frames or gliders for skaters
- A63C 3/06 . Supports for use whilst strapping skates on to boots
- A63C 3/08 . Special spikes for the blades of skates
- A63C 3/10 . Auxiliary devices for sharpening blades
- A63C 3/12 . Guards for skate blades
- A63C 3/14 . Keys for skates

### **Skis; Accessories for skiing**

- A63C 5/00** **Skis or snowboards** ([sledges with runners, e.g. ski-bobs, B62B 13/00](#); [runners for sledges B62B 17/02](#); [runners for carrying wheeled vehicles to facilitate travel on snow or ice B62B 19/00](#))
- A63C 5/003 . {Structure, covering or decoration of the upper ski surface}
  - A63C 5/006 . {Appearance of the ski-tip, the rear end or the upper ski-edge}
  - A63C 5/02 . collapsible; divided
  - A63C 5/03 . Mono skis; Snowboards
  - A63C 5/031 . . {Snow-ski boards with two or more runners or skis connected together by a rider-supporting platform}
  - A63C 5/033 . . {Devices for enabling the use of a normal ski as mono-ski, e.g. platforms fixed on the ski for supporting the ski boots side-by-side}
  - A63C 5/035 . with ground engaging rolls or belts
  - A63C 5/04 . Structure of the surface thereof
  - A63C 5/0405 . . {Shape thereof when projected on a plane, e.g. sidecut, camber, rocker}
  - A63C 5/0411 . . . {asymmetric}
  - A63C 5/0417 . . {with fins or longitudinal protrusions on the running sole}
  - A63C 5/0422 . . {Longitudinal guiding grooves}
  - A63C 5/0428 . . {Other in-relief running soles ([tooth-shaped running sole-plates A63C 7/06](#))}
  - A63C 5/0434 . . {of the side walls}
  - A63C 5/044 . . of the running sole
  - A63C 5/048 . . of the edges
  - A63C 5/0485 . . . {Complementary or supplementary ski edges}
  - A63C 5/052 . . of the tips or rear ends
  - A63C 5/056 . . Materials for the running sole
  - A63C 5/06 . with special devices thereon, e.g. steering devices
  - A63C 5/061 . . {Ski-boot sole-scrapers}
  - A63C 5/062 . . {Protection or reinforcement devices for the ski-tip or the ski rear end}
  - A63C 2005/063 . . {Rolling or like devices}
  - A63C 5/065 . . Anti-crossing devices
  - A63C 5/07 . . comprising means for adjusting stiffness
  - A63C 5/075 . . Vibration dampers ([vibration dampers per se F16F 7/00](#))

- A63C 5/08 . motor-driven ([A63C 5/035](#) takes precedence; {apparatus for towing skis [A63C 11/10](#)})
- A63C 5/085 . . {with rolling or like devices}
- A63C 5/11 . combined with sails or the like; {Accessories specially adapted for sail-skiing}
- A63C 5/12 . Making thereof; Selection of particular materials ([materials for the running sole A63C 5/056](#))
- A63C 5/122 . . {Selection of particular materials for damping purposes, e.g. rubber or the like}
- A63C 5/124 . . {Selection of particular materials for the upper ski surface}
- A63C 5/126 . . {Structure of the core}
- A63C 5/128 . . {A part for the binding being integrated within the board structure, e.g. plate, rail, insert}
- A63C 5/16 . Devices enabling skis to be used whilst held in a particular configuration with respect to each other, e.g. for training purposes

**A63C 7/00****Devices preventing skis from slipping back; Ski-stoppers or ski-brakes**

- A63C 7/005 . {Devices preventing skis from slipping back, actuated by the boot}
- A63C 7/02 . Skins; Substitutes for skins
- A63C 7/04 . Fastening-devices for skins
- A63C 7/06 . Tooth-shaped running sole-plates
- A63C 7/08 . Stoppage blades attachable to the skis in such manner that these blades are permanently in the operative position
- A63C 7/10 . Hinged stoppage blades attachable to the skis in such manner that these blades can be moved out of the operative position {(not used, see subgroups)}
- A63C 7/1006 . . {Ski-stoppers (not used, see subgroups)}
- A63C 7/1013 . . . {actuated by the boot ([A63C 7/106](#) takes precedence; not used, see subgroups)}
- A63C 7/102 . . . . {articulated about one transverse axis}
- A63C 7/1026 . . . . . {laterally retractable above the ski surface}
- A63C 7/1033 . . . . {articulated about at least two transverse axes}
- A63C 7/104 . . . . . {laterally retractable above the ski surface}
- A63C 7/1046 . . . {actuated by the ski-binding ([A63C 7/106](#) takes precedence)}
- A63C 7/1053 . . . . {laterally retractable above the ski surface}
- A63C 7/106 . . . {articulated about a longitudinal axis}
- A63C 7/1066 . . . {for mono-skis or snow-ski boards}
- A63C 7/1073 . . {Ski-brakes (not used, see subgroups)}
- A63C 7/108 . . . {operated by hand, e.g. using a stick, by leg or by boot}
- A63C 7/1086 . . . {operated by other means, e.g. by electric, pneumatic or hydraulic means}
- A63C 7/1093 . . {Details}
- A63C 7/12 . Ski crampons preventing lateral slipping

**A63C 9/00****Ski bindings**

- A63C 9/001 . {Anti-friction devices}
- A63C 9/002 . {Strap closures or latches; Leashes}
- A63C 9/003 . {Non-swivel sole plate fixed on the ski}
- A63C 9/005 . {adjustable in length or height}
- A63C 9/006 . {with a climbing wedge}
- A63C 9/007 . {Systems preventing accumulation of forces on the binding when the ski is bending}
- A63C 2009/008 . {with a binding element sliding along an rail during use or setting}
- A63C 9/02 . Non-self-releasing bindings with swivel sole-plate or swivel parts, i.e. Ellefsen-type
- A63C 9/04 . Non-self-releasing long strap bindings
- A63C 9/06 . Non-self-releasing heel-engaging cable bindings fastened to the front end of the ski
- A63C 9/065 . . {Details, e.g. cables, guides for cables, sockets, hooks, claws or stretchers}
- A63C 9/08 . yieldable or self-releasing in the event of an accident, i.e. safety bindings
- A63C 9/0802 . . {other than mechanically controlled, e.g. electric, electronic, hydraulic, pneumatic, magnetic, pyrotechnic devices; Remote control ([A63C 9/0885](#) takes precedence)}
- A63C 9/0805 . . {Adjustment of the toe or heel holders; Indicators therefor ([adjusting toe-clamps](#) [A63C 9/22](#))}
- A63C 9/0807 . . {for both towing and downhill skiing}
- A63C 9/081 . . with swivel sole-plate
- A63C 9/082 . . with swivel heel-plate
- A63C 9/083 . . with loosenable cable strap
- A63C 9/084 . . with heel hold-downs, e.g. swingable
- A63C 9/0841 . . . {with a single jaw}
- A63C 9/0842 . . . . {the jaw pivoting on the body or base about a transverse axis}
- A63C 9/0843 . . . {with a plurality of mobile jaws}
- A63C 9/0844 . . . {the body pivoting about a transverse axis}
- A63C 9/0845 . . . {the body or base or a jaw pivoting about a vertical axis, i.e. side release}
- A63C 9/0846 . . . {Details of the release or step-in mechanism}
- A63C 9/0847 . . . {Details of the manual release}
- A63C 9/0848 . . . {Structure or making}
- A63C 9/085 . . with sole hold-downs, e.g. swingable
- A63C 9/08507 . . . {with a plurality of mobile jaws}
- A63C 9/08514 . . . . {pivoting about a transversal axis}
- A63C 9/08521 . . . . {pivoting about a vertical axis, e.g. side release}
- A63C 9/08528 . . . . {pivoting about a longitudinal axis}
- A63C 9/08535 . . . {with a mobile body or base or single jaw}
- A63C 9/08542 . . . . {pivoting about a transversal axis}
- A63C 9/0855 . . . . {pivoting about a vertical axis}
- A63C 9/08557 . . . {Details of the release mechanism}

- A63C 9/08564 . . . . {using cam or slide surface}
- A63C 9/08571 . . . . {using axis and lever}
- A63C 9/08578 . . . . {using a plurality of biasing elements}
- A63C 9/08585 . . . . {using transverse biasing element}
- A63C 9/08592 . . . {Structure or making}
- A63C 9/086 . . using parts which are fixed on the shoe of the user and are releasable from the ski binding
- A63C 9/088 . . with electronically controlled locking devices
- A63C 9/0885 . . . {remotely operated, e.g. by the skier}
- A63C 9/10 . Non-self-releasing toe jaw-irons; Non-self-releasing binding hooks made of one piece
- A63C 9/12 . Non-self-releasing elastic heel-straps
- A63C 9/14 . Non-self-releasing bindings without heel-straps, but with both guiding cheeks and toe-straps
- A63C 9/16 . Non-self-releasing bindings without straps, but with guiding cheeks
- A63C 9/18 . Non-self-releasing bindings without heel-straps, but with a clamping device arranged at the front end of, or behind, the binding
- A63C 9/20 . Non-self-releasing bindings with special sole edge holders instead of toe-straps
- A63C 9/22 . Arrangements for adjusting the toe-clamps
- A63C 9/24 . Tighteners for ski bindings ([tighteners for self-releasing ski bindings A63C 9/08](#))
- A63C 9/245 . . {forming part of a cable binding}

**A63C 10/00****Snowboard bindings**

- A63C 10/005 . {of the baseless type, i.e. without structural part under the shoe}
- A63C 10/02 . characterised by details of the shoe holders
- A63C 10/04 . . Shoe holders for passing over the shoe
- A63C 10/045 . . . {with means to ease introduction of the shoe, e.g. by collapsing upstanding shoe holder parts}
- A63C 10/06 . . . Straps therefor, e.g. adjustable straps
- A63C 10/08 . . Toe or heel stirrups; Clamps
- A63C 10/10 . . using parts which are fixed on the shoe, e.g. means to facilitate step-in
- A63C 10/103 . . . {on the sides of the shoe}
- A63C 10/106 . . . {to the front and back of the shoe}
- A63C 10/12 . Yieldable or self-releasing in the event of an accident, i.e. safety bindings
- A63C 10/14 . Interfaces, e.g. in the shape of a plate
- A63C 10/145 . . {between two superimposed binding systems, e.g. cradle}
- A63C 10/16 . Systems for adjusting the direction or position of the bindings
- A63C 10/18 . . about a vertical rotation axis relative to the board
- A63C 10/20 . . in longitudinal or lateral direction relative to the board
- A63C 10/22 . . to fit the size of the shoe ([A63C 10/06 takes precedence](#))
- A63C 10/24 . Calf or heel supports, e.g. adjustable high back or heel loops
- A63C 10/26 . Shock or vibration dampers

- A63C 10/28 . characterised by auxiliary devices or arrangements on the bindings
- A63C 10/285 . . {Pads as foot or binding supports, e.g. pads made of foam}
- A63C 11/00** **Accessories for skiing or snowboarding** (fittings on vehicles for carrying skis [B60R 9/12](#))
- A63C 11/001 . {Seats formed of skis or of accessories for skis}
- A63C 11/002 . {Stretchers formed of skis or of accessories for skis}
- A63C 11/003 . {Signalling devices, e.g. acoustical or visual ([A63C 11/225](#) takes precedence; means for indicating the location of accidentally snow-buried persons [A63B 29/021](#))}
- A63C 11/004 . {Anti-theft devices for skis or ski equipment ([A63C 11/003](#) takes precedence)}
- A63C 11/005 . . {on the ski or pole}
- A63C 11/006 . . {Portable locking means}
- A63C 11/007 . . {Lockable ski racks, cupboards or the like}
- A63C 11/008 . . . {coin-operated}
- A63C 11/009 . . {for carrying devices}
- A63C 11/02 . Devices for stretching, clamping or pressing skis or snowboards for transportation or storage
- A63C 11/021 . . {Devices for binding skis in pairs, e.g. straps, clips ([A63C 11/023](#) takes precedence)}
- A63C 11/022 . . . {with magnets}
- A63C 11/023 . . {Carrying-devices}
- A63C 11/025 . . . {for skis or ski-sticks}
- A63C 11/026 . . . . {on wheels}
- A63C 11/027 . . {Protectors for skis, e.g. containers on the roof of cars}
- A63C 11/028 . . {Storage in cupboards or ski-racks, e.g. with clamping devices}
- A63C 11/04 . for treating skis or snowboards
- A63C 11/06 . . Edge-sharpeners
- A63C 11/08 . . Apparatus for waxing or dewaxing (ski waxes [C09G 3/00](#))
- A63C 11/10 . Apparatus for towing skis {(ski-lifts [B61B 11/00](#))}
- A63C 11/12 . Apparatus for hooking the heel part of the boot to the ski
- A63C 11/14 . Apparatus for repairing damaged skis or snowboards
- A63C 11/16 . Special devices on boots for fastening skis thereto ([A63C 9/00](#) takes precedence)
- A63C 11/18 . Devices for removing snow from skis, snowboards, boots or bindings
- A63C 11/20 . Snow protectors on skis or snowboards
- A63C 11/22 . Ski-sticks
- A63C 11/221 . . {telescopic, e.g. for varying the length or for damping shocks}
- A63C 11/222 . . {Ski-stick handles or hand-straps}
- A63C 11/224 . . . {associated with timing devices}
- A63C 11/225 . . {with signalling devices, e.g. acoustical or visual (means for indicating the location of accidentally snow-buried persons [A63B 29/021](#))}

- A63C 11/227 . . {Details; Structure}
- A63C 11/228 . . {Accessories}
- A63C 11/24 . . Rings for ski-sticks
- A63C 11/26 . Devices for use in mounting ski-bindings to skis, e.g. jigs; {Testing or measuring devices specially adapted therefor}
- A63C 11/265 . . {Devices for testing or measuring the release force of safety ski bindings}
  
- A63C 13/00** **Snow shoes**
- A63C 13/001 . {Bindings therefor}
- A63C 13/003 . {Means thereof for preventing slipping, e.g. crampons, e.g. on frame or shoe plate}
- A63C 13/005 . {Frames therefor}
- A63C 13/006 . {Shoe support thereof, e.g. plate, movable relative to the frame}
- A63C 13/008 . {Adjustable heel support therefor, e.g. climbing wedge}
- A63C 13/02 . Snow shoe rings
  
- A63C 17/00** **Roller skates; Skate-boards**
- A63C 17/0006 . {Accessories}
- A63C 17/0013 . . {Devices used in combination with the skate but not fixed to it, e.g. supporting frames, sail, sticks, auxiliary wheel aid ([Uniaxle walk-type tractors B62D 51/06](#))}
- A63C 17/002 . . {Covers; Guards}
- A63C 17/0026 . {Roller skates used otherwise than standing or sitting on them, e.g. body skates}
- A63C 17/0033 . {with a castor wheel, i.e. a swiveling follow-up wheel}
- A63C 17/004 . {with auxiliary wheels not contacting the riding surface during steady riding}
- A63C 17/0046 . {with shock absorption or suspension system}
- A63C 2017/0053 . {with foot plate quick release or shoe binding}
- A63C 17/006 . {with wheels of different size or type}
- A63C 17/0066 . {with inclined wheel, i.e. not perpendicular to the surface it rolls on}
- A63C 17/0073 . {with offset wheel, i.e. wheel contact point to surface offset from other associated wheel}
- A63C 17/008 . {with retractable wheel, i.e. movable relative to the chassis out of contact from surface}
- A63C 17/0086 . {Roller skates adjustable in length to fit the size of the foot}
- A63C 17/0093 . {Mechanisms transforming leaning into steering through an inclined geometrical axis, e.g. truck ([A63C 17/011](#) takes precedence)}
- A63C 17/01 . Skateboards ([A63C 17/02](#) to [A63C 17/28](#) take precedence; {rolling devices on skis [A63C 5/035](#)})
- A63C 17/011 . . {with steering mechanisms}
- A63C 17/012 . . . {with a truck, i.e. with steering mechanism comprising an inclined geometrical axis to convert lateral tilting of the board in steering of the wheel axis}
- A63C 17/013 . . . {with parallelograms, follow up wheels or direct steering action}



- A63C 17/014 . . {Wheel arrangements}
- A63C 17/015 . . . {with wheels arranged in two pairs}
- A63C 17/016 . . . {with wheels arranged in one track}
- A63C 17/017 . . {Production or mounting thereof}
- A63C 17/018 . . {Ice skateboards}
- A63C 17/02 . with wheels arranged in two pairs {(A63C 17/01 takes precedence)}
- A63C 17/04 . with wheels arranged otherwise than in two pairs {(A63C 17/01 takes precedence)}
- A63C 17/045 . . {Roller skis}
- A63C 17/06 . . single-track type
- A63C 17/061 . . . {with relative movement of sub-parts on the chassis}
- A63C 17/062 . . . . {with a pivotal frame or cradle around transversal axis for relative movements of the wheels}
- A63C 17/064 . . . . {comprising steered wheels, i.e. wheels supported on a vertical axis}
- A63C 17/065 . . . {with movements during use of the foot plate or shoe relative to the chassis, e.g. inline clap skate}
- A63C 17/067 . . . {with adjustable position of the foot plate or shoe relative to the chassis}
- A63C 17/068 . . . {Production or mounting thereof}
- A63C 17/08 . . . Single-wheel type {with single axis}
- A63C 17/10 . with endless tracks
- A63C 17/12 . with driving mechanisms
- A63C 17/14 . with brakes, e.g. toe stoppers, freewheel roller clutches
- A63C 17/1409 . . {contacting one or more of the wheels}
- A63C 17/1418 . . . {with radial movement against the roll surface of the wheel}
- A63C 17/1427 . . . {the brake contacting other wheel associated surfaces, e.g. hubs, brake discs or wheel flanks}
- A63C 17/1436 . . {contacting the ground}
- A63C 17/1445 . . {contacting the ground and one or more of the wheels}
- A63C 17/1454 . . {Freewheel roller clutches}
- A63C 2017/1463 . . {Foot or toe operated}
- A63C 2017/1472 . . {Hand operated}
- A63C 2017/1481 . . {Leg or ankle operated}
- A63C 2017/149 . . {Stick operated}
- A63C 17/16 . for use on specially shaped or arranged runways
- A63C 17/18 . convertible into ice or snow-running skates
- A63C 17/20 . with fixable wheels permitting the skates to be used for walking
- A63C 17/22 . Wheels for roller skates
- A63C 17/223 . . {Wheel hubs}
- A63C 17/226 . . {Wheel mounting, i.e. arrangement connecting wheel and axle mount}
- A63C 17/24 . . with ball-shaped or spherical running surfaces



- A63C 17/26
  - with special auxiliary arrangements, e.g. illuminating, marking, or push-off devices
- A63C 17/262
  - . {with foot bindings or supports therefor}
- A63C 17/265
  - . {with handles or hand supports}
- A63C 17/267
  - . {combined with wings or sails}
- A63C 17/28
  - with arrangements for sitting

**A63C 19/00**

**Design or layout of playing courts, rinks, bowling greens or areas for water-skiing; Covers therefor** ({golf courses [A63B 69/3691](#); water roundabouts [A63G 3/00](#); construction of surfaces of foundations [E01C](#); roofs [E04B 7/00](#); buildings or groups of buildings for sports [E04H 3/10](#); swimming or splash baths or pools [E04H 4/00](#); coverings for baths [E04H 4/06](#))

- A63C 19/005
  - {Boxing rings}
- A63C 19/02
  - Shaping of the surface of courts according to the necessities of the different games {(surface construction [E01C](#))}
- A63C 19/04
  - Mats or carpets for courts
- A63C 19/06
  - Apparatus for setting-out or dividing courts
- A63C 19/062
  - . {Slalom gate poles, posts or marking sticks for sport fields}
- A63C 19/065
  - . {Line markings, e.g. tapes; Methods therefor}
- A63C 2019/067
  - . . {Machines for marking}
- A63C 19/08
  - . Mechanical means for marking-out
- A63C 2019/085
  - . . {Fences; Nets; Barriers}
- A63C 19/10
  - Ice-skating or roller-skating rinks; Slopes or trails for skiing, ski-jumping or tobogganing (chutes [A63G 21/00](#); ski-lifts [B61B 11/00](#); making or maintaining surfaces of snow or ice suitable for traffic or sporting purposes [E01H 4/00](#); removing snow or ice [E01H 5/00](#); production of ice or snow [F25C 3/00](#))
- A63C 19/12
  - Removable protective covers for courts, rinks, or game pitches or the like

**A63C 2201/00**

**Use of skates, skis, roller-skates, snowboards and courts**

- A63C 2201/02
  - Aggressive riding, e.g. grinding
- A63C 2201/04
  - Ski jumping
- A63C 2201/06
  - Telemark
- A63C 2201/10
  - for handicapped people
- A63C 2201/12
  - Tandem riding

**Skates; Accessories for skating****A63C 2203/00**

**Special features of skates, skis, roller-skates, snowboards and courts**

- A63C 2203/02
  - enabling transverse riding, i.e. with one runner or skate per foot and direction transverse to the foot
- A63C 2203/06
  - enabling conversion into another device
- A63C 2203/065
  - . replacing in the binding the shoe by another device
- A63C 2203/08
  - Decoration
- A63C 2203/10
  - enabling folding, collapsing

- A63C 2203/12 . Electrically powered or heated
- A63C 2203/14 . Lighting means
- A63C 2203/16 . Inflatable
- A63C 2203/18 . Measuring a physical parameter, e.g. speed, distance
- A63C 2203/20 . Shock or vibration absorbing
- A63C 2203/22 . Radio waves emitting or receiving, e.g. remote control, RFID
- A63C 2203/24 . Processing or storing data, e.g. with electronic chip
- A63C 2203/40 . Runner or deck of boards articulated between both feet
- A63C 2203/42 . Details of chassis of ice or roller skates, of decks of skateboards
- A63C 2203/44 . Storage or transportation means for ice or roller skates
- A63C 2203/46 . Skateboards or boards for snow having superimposed decks
- A63C 2203/48 . Roller or ice skates adjustable in width
- A63C 2203/50 . Skis, skates or boards with shoe-like cradles comprising additional leg support
- A63C 2203/52 . Direct actuation of steering of roller skate or skateboards, e.g. by a foot plate
- A63C 2203/54 . Snowboard or ski binding or interface allowing pivoting motion during riding