

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 [[B62D 51/06](#) Uniaxle walk-type tractors]}
- 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