

**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](#)

**Guidance heading:** **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

### **Guidance heading: 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 . . N: 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

**Guidance heading:** **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