Feb. 19, 1929. 1,702,695

C. H. HOULT

ICE SKATE

Filed June 4, 1928

Fig. 1.

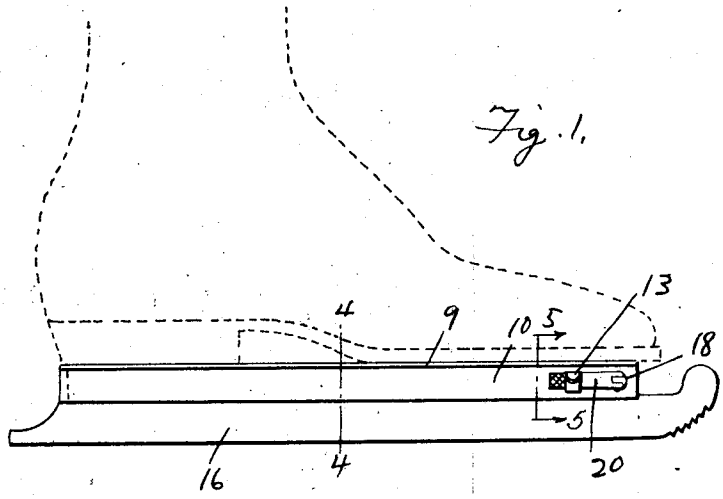


Fig. 2.

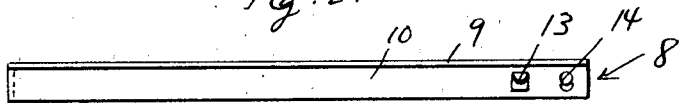


Fig. 3.

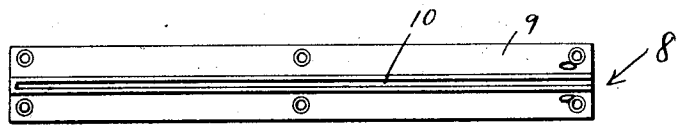


Fig. 4.

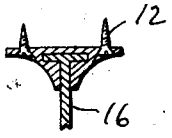


Fig. 6.

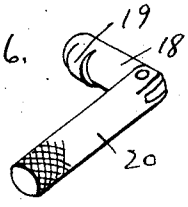


Fig. 5.

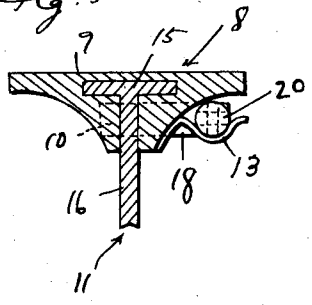
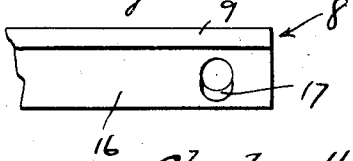


Fig. 7.



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UNITED STATES PATENT OFFICE.

CHARLES HOWARD HOULT, OF SAN ANTONIO, TEXAS.

ICE SKATE.

Application filed June 4, 1928. Serial No. 282,789.

This invention relates to an improved ice skate characterized by the provision of a renewable runner, and novel retaining means therefor.

Heretofore, ice skates have been made in one-piece, and constructed to provide a foot rest and a runner together with suitable attaching means for connecting the foot rest to the shoe of the wearer.

What I propose is a two-part structure, one part being firmly fastened to the shoe, and the other part, the runner, being removably mounted on the first-named part, whereby to permit it to be renewed or replaced, as conditions require.

In the drawings:—

Figure 1 is a side elevational view of an ice skate constructed in accordance with this invention, showing the manner in which the same is attached to the shoe.

Fig. 2 is a side view of the upper part of the device which is attached permanently to the shoe.

Fig. 3 is a bottom plan view of the part shown in Fig. 2.

Fig. 4 is a vertical section taken approximately upon the plane of the line 4—4 of Fig. 1.

Fig. 5 is an enlarged view taken approximately upon the plane of the line 5—5 of Fig. 1.

Fig. 6 is a perspective view of the retaining cam.

Fig. 7 is a fragmentary elevational view of one end portion of the runner.

Referring now to the drawings by numerals, it will be observed that the upper part of the structure is designated generally by the numeral 8. It may be specifically referred to as the attaching member. It comprises a flat top plate 9 and a central depending rib 10, constructed with substantially T-shaped guideways, for reception of the correspondingly shaped runner 11.

As shown in Fig. 3, the guideway is closed at the left hand end and open at the right hand end to permit the runner to be inserted and slipped back, and forced against the left hand end. The top plate 9 is formed with openings for passage of retaining screws 12, which may be employed for fastening this plate firmly to the bottom of the shoe of the wearer. It is not uncommon to permanently attach part of the device to the shoe, special shoes being provided for skating.

On one side and near the front of the ribs 10 is a resilient retaining clip 13, and in advance of this a vertically elongated hole 14 which serves in a manner to be hereinafter described.

The runner 11 comprises a head 15, and a runner 16, and the two are connected together, to provide a body, which is substantially T-shaped in cross section. This is slipped into the forward end of the guideway and back against the closed rear end thereof, as is obvious from the drawing.

Referring to Fig. 7, it will be observed that the runner is formed with an opening 17 adapted to register with the aforesaid opening 14. Passing through these openings, when in registry is a retaining pin 18 having an eccentric or cam 19 on one side and a pivoted operating handle 20 at one end.

The runner is slipped into place in the guideway of the attaching member 8, and after these parts are thus assembled, the pin 18 is slipped through the vertically elongated openings 14 and 17. Then the handle 20 is disposed at right angles to the pin, and engaged with the retaining clip 13, thereby holding the pin 18 in the retaining position. This makes it easy to apply and remove the runner, and is especially adaptable for a structure of this type, being sturdy and dependable.

From the foregoing description and drawing, it will be seen that I have evolved and produced an ice skate, which permits the replacement of the runner when it becomes worn or dull. The structure is such as to promptly fulfill the requirements of a device of this class. It is economical, practicable, and is regarded as a modern advance in the art.

As the distinguishing features and advantages of the invention will be clear after reading the description in connection with the drawings, a more lengthy description is regarded unnecessary.

Minor changes in shape, size, and rearrangement of parts, coming within the field of invention claimed may be resorted to if desired.

Having thus described my invention, what I claim as new is:—

1. An ice skate comprising an attaching member embodying a flat detaching plate having a rib on its bottom provided with a substantially T-shaped guide slot, a substantially T-shaped runner slidably received in said guide slot, said rib and runner being formed

with registering openings, a rotary cam pin located in said openings, and operating means for said pin.

2. An ice skate comprising an attaching member embodying a flat detaching plate having a rib on its bottom provided with a substantially T-shaped guide slot, a substantially T-shaped runner slidably received in said guide slot, said rib and runner being formed with registering openings, a rotary cam pin located in said openings, a retaining clip carried by said rib, and a pivoted operating handle carried by said pin, said operating handle being engageable with said clip for holding said pin in retaining position.

In testimony whereof I affix my signature.

CHARLES HOWARD HOULT.