J. LOWE.

SKATE CLAMP.

APPLICATION FILED MAR. 30, 1917.

1,280,505. Patented Oct. 1, 1918.

Fig. 1.

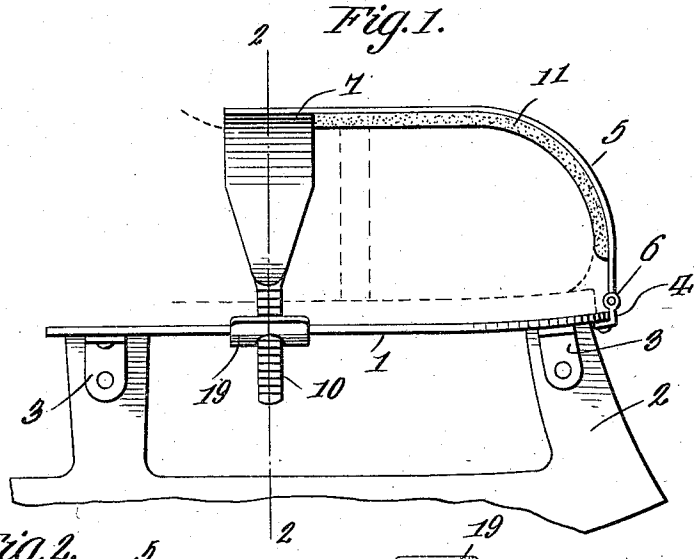


Fig. 2.

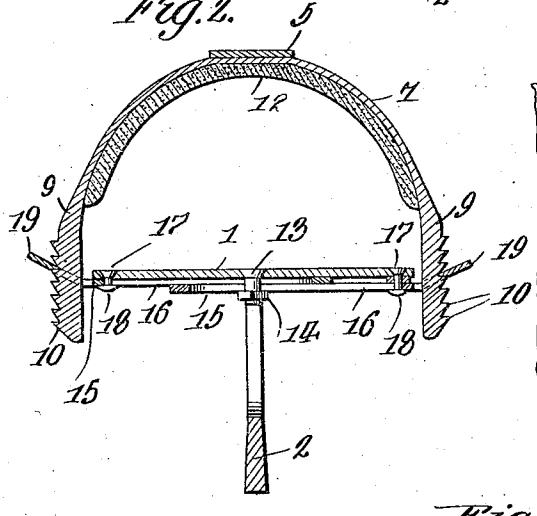


Fig. 3.

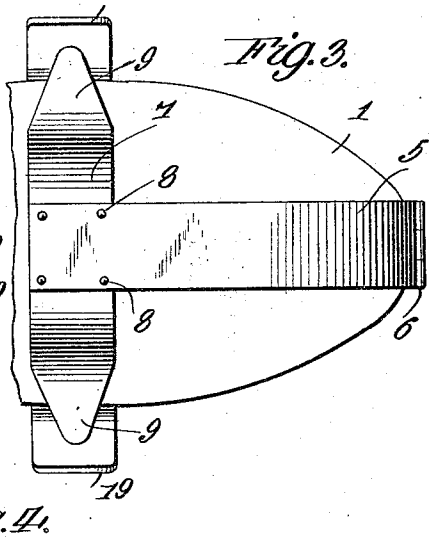
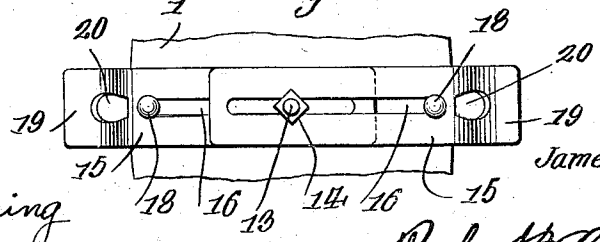


Fig. 4.



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SKATE-CLAMP.

1,280,505. Specification of Letters Patent. Patented Oct. 1, 1918.

Application filed March 30, 1917. Serial No. 158,723.

To all whom it may concern:

Be it known that I, JAMES LOWE, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Skate-Clamps, of which the following is a specification.

My invention relates to new and useful improvements in skates and more particularly to a skate clamp.

The primary object of the invention is the construction of a clamp which is equally as well adapted for ice or roller skates and which may be easily adjusted in position to securely connect the skate to the shoe or disengaged for removing the skate.

Another object of the invention is the construction of such a clamp that it may be adjusted to accommodate itself to shoes of various sizes.

A further object is the provision of pads or cushioning means so that the shoe will not be marred when the clamp is in position.

With these and other objects in view the invention consists in the novel details of construction and arrangement of parts which will be more clearly understood from the following description and drawing in which,—

Figure 1 is a side elevation,

Fig. 2 a transverse vertical section on the line 2—2 of Fig. 1,

Fig. 3 a top plan, and

Fig. 4 a bottom view of the portion of the clamp connected to the underside of the skate top.

In the drawing the numeral 1 indicates the top of the skate, or that portion upon which the sole of the shoe rests, and 2 indicates the blade or runner secured to the top by means of the angle pieces 3. While I have shown, in the drawing, and so far described an ice skate, it will be understood that my clamp might be equally as well used with roller skates and would use rollers and trucks therefor in place of the blade or runner 2.

An angle strip or casting 4 is secured to the front part of the top 1, as is more clearly illustrated in Fig. 1 of the drawing, and a flexible strip 5 is hingedly connected thereto, as indicated at 6, and is adapted to extend over the top of the shoe, as illustrated. A flexible strip 7 is secured to the strip 5, at the inner end, by means of rivets 8, more particularly illustrated in Fig. 3 of the drawing, and the strip 7 is adapted to extend across the upper of the shoe and down beneath the sole for the purpose as will be presently described. The ends of the strip 7 are reduced, as indicated at 9 and are preferably rounded and provided with a plurality of vertically spaced notches or teeth, indicated at 10. A cushion or padding 11 is secured to the underside of the strip 5 and a similar cushion or padding 12 is secured to the underside of the strip 7. This cushion, or padding may be of any desired material, but is preferably of felt and will engage the shoe and prevent marring thereof, when the clamp is in position.

A threaded bolt 13 extends through an opening in the top 1 and has a nut 14 threaded thereon for the purpose which will be presently described. Plates 15 having elongated openings 16, therein, are connected to the underside of the top 1 by means of the bolt 13 passing through the slots 16 and as is more clearly illustrated in Figs. 2 and 4 of the drawing, the inner ends of the plates overlap and may be adjusted so as to secure a greater or less width. The plates are held in their adjusted position by the nut 14 threaded upon the bolt 13. Rivets 17 are secured to the top 1 and extend thereunder and through the slots 16 in the plates 15 and the enlarged heads 18 form supports for the plates 15 in addition to the bolt 13 and nut 14. The plates 15 are of spring metal and the outer ends are bent upwardly, as indicated at 19, and have openings 20 formed therein, as more particularly illustrated in Figs. 2 and 4 of the drawing. The ends 9 of the plate 7 are adapted to pass through these openings and the teeth 10 will engage the edges of the opening, as more particularly shown in Figs. 1 and 2 of the drawing.

Having described the detailed construction of my clamp, it is thought that the advantages and mode of operation will be clearly understood. When the skate is in position upon the shoe, the parts will be in the position more particularly illustrated in Figs. 1, 2 and 3 of the drawing. When it is desired to remove the skate, pressure is applied against the end of the plate 7 and the teeth 10 disengaged from the edges of the openings 20. When this has been done the strip 5 is swung upon the hinge 6 and the skate may then be removed. When the skate

is to be again adjusted in position upon the shoe, the strip 5 is swung upon the hinge 6 until the strips 5 and 7 are across the top of the shoe and then the reduced ends of the strip 7 pass through the openings 20 in the plate 15 and the teeth will engage the edges of the openings. By having the strips 7 and the plates 5 of spring metal, it will be seen that the parts will be securely held in position. The cushion or padding 11 and 12 will prevent marring of the top of the shoe. By having the plates 15 adjustable and the plurality of vertically spaced teeth 10 it will be seen that the clamp may be adjusted for shoes of various characters.

As has been previously stated, although my clamp has been illustrated upon an ice skate, it will be understood that it could equally as well be used upon a roller skate.

Having fully described my invention what I claim as new and desire to secure by Letters Patent is:

1. A skate having a clamp secured thereto, said clamp comprising a strip extending longitudinally of the skate and a transverse strip connected thereto and adjustably engaged at each side of the skate.

2. A skate having a clamp hingedly connected thereto, said clamp comprising a strip extending longitudinally of the skate and a flexible transverse strip adapted to engage both sides of the skate.

3. A skate having a clamp secured thereto, said clamp comprising a plate secured to the skate, and having perforations at the ends thereof at both sides of the skate, a flexible strip secured to the skate and extending longitudinally thereof, and a transverse strip adapted to extend through the perforations in the plate.

4. A skate having a clamp secured thereto, said clamp comprising adjustable plates connected to the skate, the plates provided with perforations, a strip hingedly connected to the skate and extending longitudinally thereof, and a flexible strip connected transversely of the first mentioned strip and adapted to extend through the perforations in the plates.

5. A skate having a clamp, said clamp comprising adjustable plates provided with perforations, a strip hinged to the skate, and extensions formed on the strip and adapted to extend through the perforations of the plates.

6. A skate having a clamp secured thereto, said clamp comprising plates connected to the skate and having perforations therein at the sides of the skate, a strip hingedly connected to the skate at the tip thereof for movement toward and away from the tip of a shoe, and toothed extensions on the strip adapted to pass through the perforations of the plates.

7. A skate having a clamp secured thereto, said clamp comprising plates adjustably connected to the skate, said plates having the outer ends extending upwardly and provided with openings therein, a strip secured to the skate and extending longitudinally thereof, a flexible strip secured transversely of the first mentioned strip, and toothed extensions on said flexible strip adapted to enter the perforations in the plates.

8. A skate having a clamp secured thereto, said clamp comprising plates having openings therein and adjustable upon the skate, a flexible strip hingedly connected to the skate, a flexible strip secured to the first mentioned strip and extending transversely thereof, toothed extensions on said second mentioned flexible strip adapted to pass through the openings in the plate, and cushions secured to the flexible strips.

9. A skate having a clamp connected thereto, said clamp comprising a plate secured to the skate and having openings therein, a strip connected to the skate and extending longitudinally thereof, a flexible strip secured transversely of the first mentioned strip, and reduced toothed extensions on the transverse strip, said teeth adapted to engage the edges of the openings in the plate.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES LOWE.

Witnesses:
JOHN LOWE, JR.,
E. WILDGRUBE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."