A. LANGE.

ICE SKATE.

APPLICATION FILED MAY 5, 1915.

1,206,864. Patented Dec. 5, 1916.

Fig. 1.

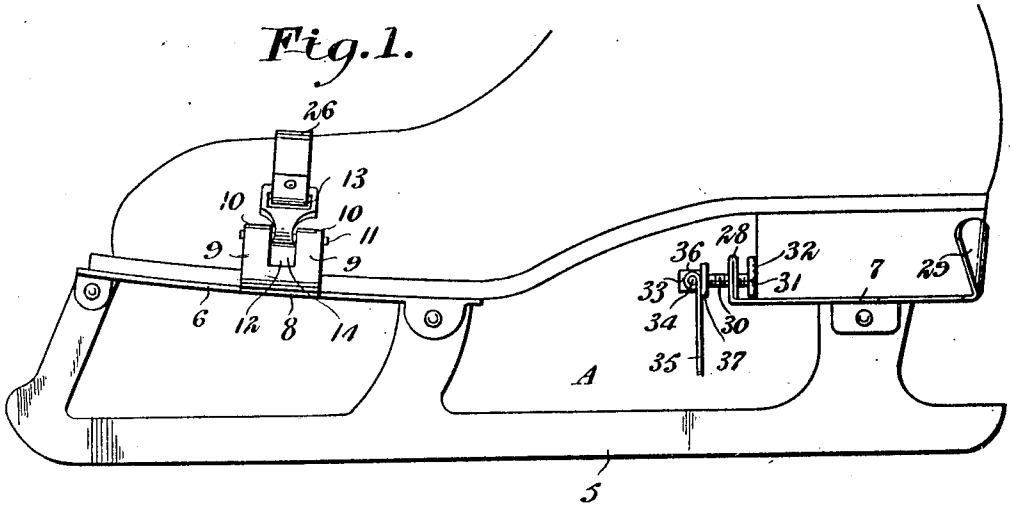


Fig. 2.

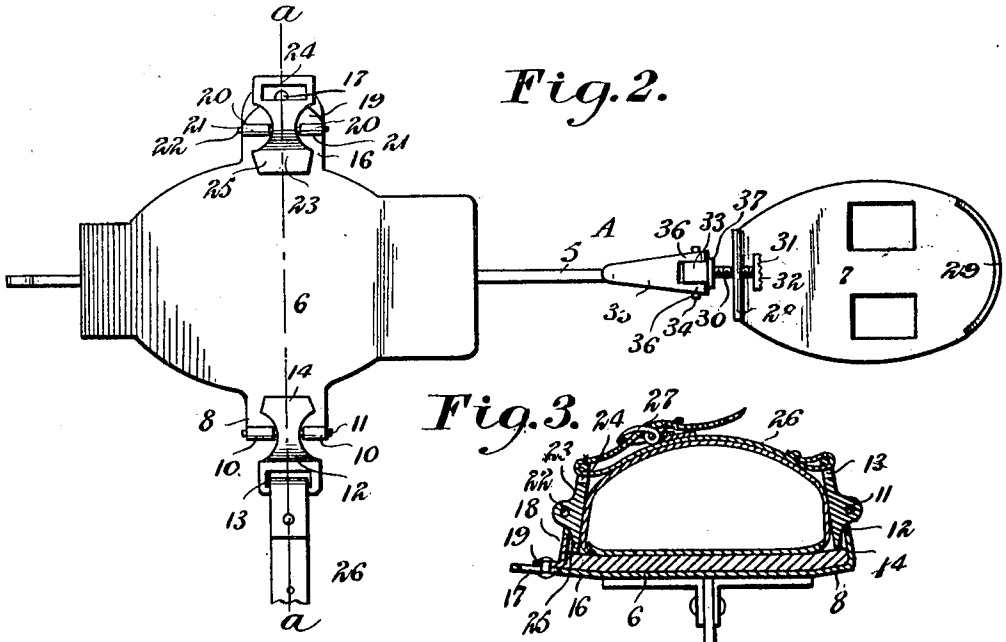
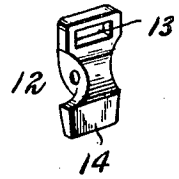


Fig. 3.

Fig. 4.



Witnesses

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AUGUST LANGE, OF MILWAUKEE, WISCONSIN.

ICE-SKATE.

1,206,864. Specification of Letters Patent. Patented Dec. 5, 1916.

Application filed May 5, 1915. Serial No. 26,025.

To all whom it may concern:

Be it known that I, AUGUST LANGE, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented new and useful Improvements in Ice-Skates, of which the following is a specification.

This invention contemplates the provision of a skate having an adjustable fastening means to accommodate the skate to various size shoes, the fastening means being novel in construction so as to effectively clamp the shoe, as well as to permit the skate to be easily applied to or removed from the shoe when desired.

Other objects will appear as the nature of the invention is better understood, the same residing in the specific construction, combination and arrangement of parts hereinafter more fully described.

In the drawing forming part of this application like numerals of reference indicate similar parts in the several views and wherein:—

Figure 1 is a side elevation of a skate constructed in accordance with my invention. Fig. 2 is a top plan view. Fig. 3 is a transverse sectional view taken on line *a*—*a* of Fig. 2. Fig. 4 is a detail perspective view of one of the sole engaging elements.

Referring more particularly to the drawing A designates generally a skate constructed in accordance with the ordinary well known form of ice skate, comprising the runner 5, the toe portion 6 and separate heel portion 7. The toe portion is formed at one side with a substantially L-shaped projection 8 the vertical flange being cut away to provide the separated portions 9 which terminate to provide alined loops 10 for the reception of a bolt 11. Pivoted upon the bolt 11 is a sole engaging element 12 formed at its upper end with an eye 13 and having a relatively wide lower edge portion 14 adapted to engage the upper edge of the sole of the shoe in operative position so as to effectively clamp the skate upon the shoe in the manner to be presently described. The lower edge portion 14 is further adapted to engage the separated portions 9 to limit the inward swinging movement of the sole engaging member between said portions. The opposite side of the toe portion 6 is formed with a lateral extension 16 having an elongated slot 17 in which a clamping plate 18 is adjustably secured. The plate 18 has an angularly disposed attaching portion 19 overlying said slot and loosely riveted or otherwise secured to the extension 16, whereby the clamping plate 18 may be adjusted laterally to accommodate the skate to different width shoes. The plate 18 is cut away to provide the separated portions 20 which latter terminate in alined loops 21 for the reception of a bolt 22 upon which the other of the sole engaging elements 23 is pivotally mounted. The element 23 is constructed similarly with respect to the sole engaging element 12, having an eye 24, and a relatively wide lower portion 25 adapted to bear upon the upper surface of the sole of the shoe in operative position. The lower edge portion 25 is further adapted to engage against the separated portions 20 of the plate 18 to limit the pivotal movement of this element inwardly between said portions. The toe strap 26 carried by the element 12 is adapted to be passed through the eye of the element 23 and have its free end connected with the buckle 27 in the usual manner, whereby the sole engaging elements effectively bear upon the upper edge of the sole of the shoe, thereby holding the skate positively clamped thereon.

The heel portion 7 is provided with front and rear upwardly extending flanges 28 and 29 respectively, the latter being curved to conform to the shape of the shoe. Adjustably mounted on the forward flange 28 is a headed screw 30 carrying at one end a gripping element 31 in the nature of a disk having curved roughened edges 32 whereby an effective purchase on the heel of the shoe is obtained as the screw 30 is adjusted, thereby firmly clamping the heel of the shoe between the flange 28 and disk 31. Passed through the head 33 of the screw is a pin 34 having secured to the projecting end portions thereof a manipulating element 35, the latter comprising a short piece of metal having separated portions 36 looped around the ends of the pin 34 as clearly shown in the drawing. The element 35 serves in the capacity of a wrench for adjusting the screw 30, and normally depends therefrom, but when in use is swung outwardly in a line with the screw 30 as shown in Fig. 2. The screw 30 is provided with a flange 37 against which the element 35 is adapted to bear to prevent forward and backward swinging movement of the latter. The skate is extremely simple in its construction and the

fastening means hereinabove described not only positively clamps the skate upon the shoe, but may also be quickly and easily manipulated.

It is believed that from the foregoing description the nature and advantages of the invention will be readily understood without requiring a more extended explanation and therefore the same has been omitted.

What is claimed is:—

A skate including a frame, a sole engaging element pivoted on one side of the toe portion of the frame, a lateral extension projecting from the opposite side of said portion and having an elongated slot, a substantially L-shaped member slidably fitted on said extension, a bolt passed through one limb of said member and through said slot for guiding said member in its movements and holding the parts associated, a sole engaging element pivoted on said member and adjustable therewith toward and away from the first mentioned sole engaging element, an adjustable strap connecting said elements and holding the latter in operative position, and means for securing the heel portion of the skate to the shoe.

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

AUGUST LANGE.

Witnesses:
JOSEPH SCHWABE,
ROSALIA SCHWABE.

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