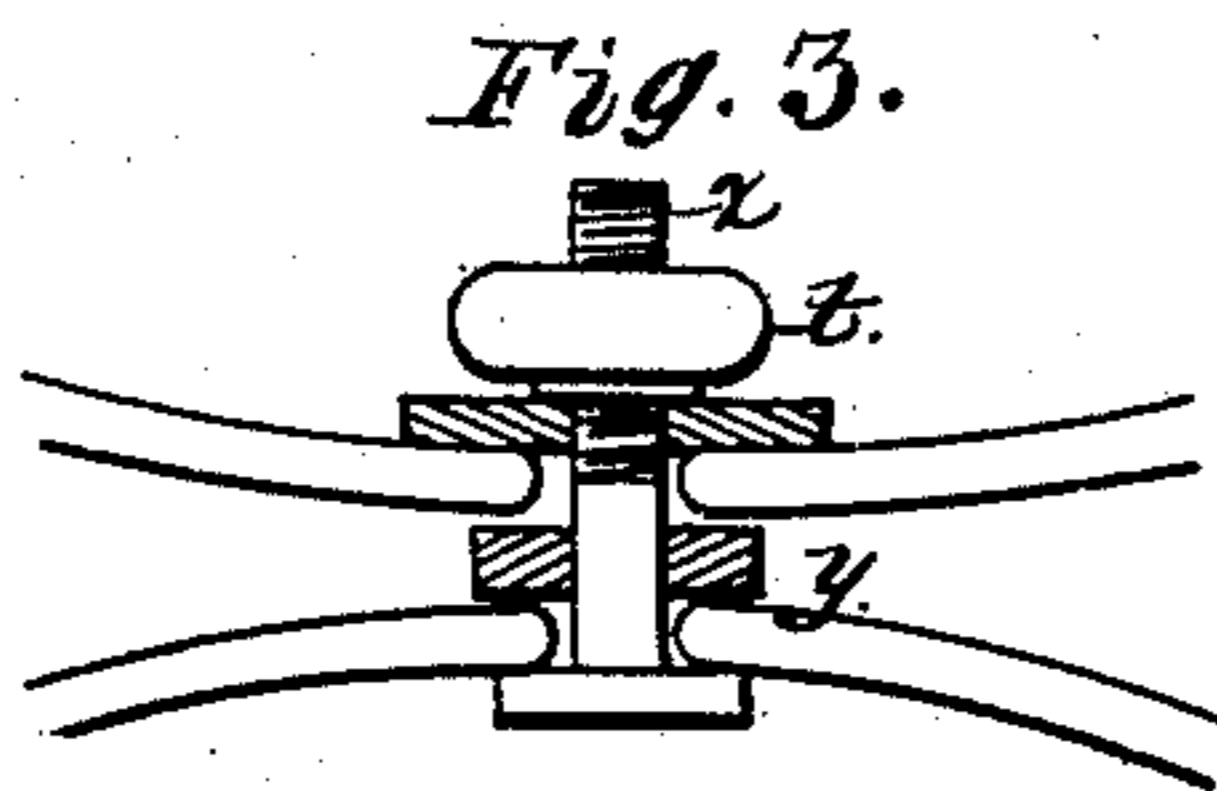
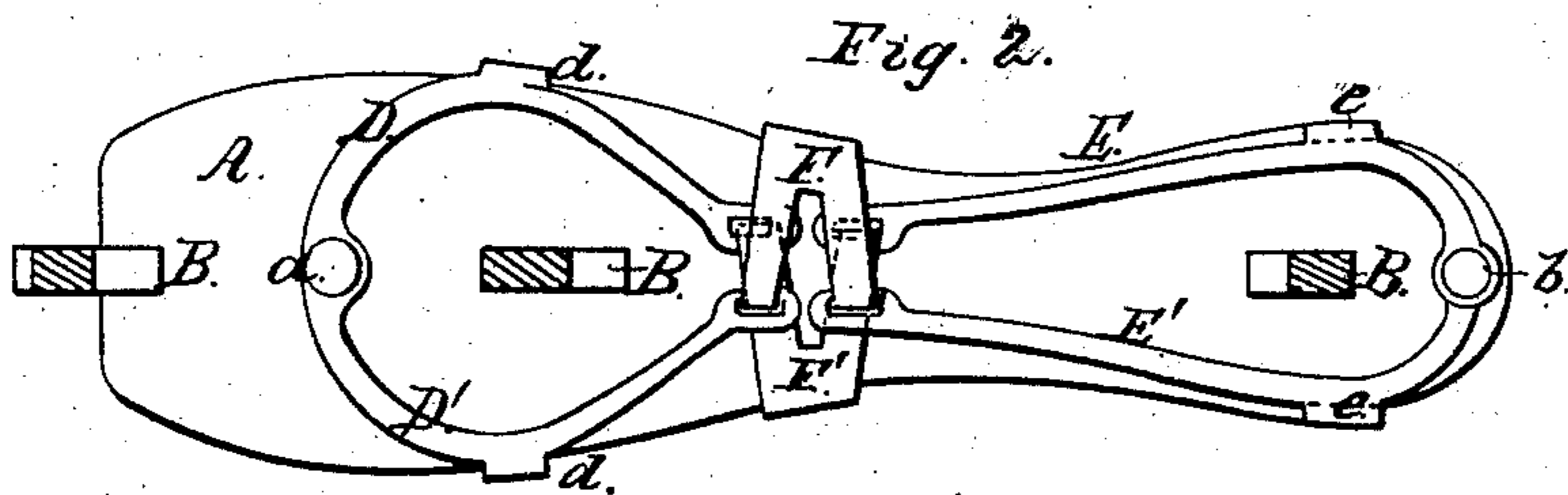
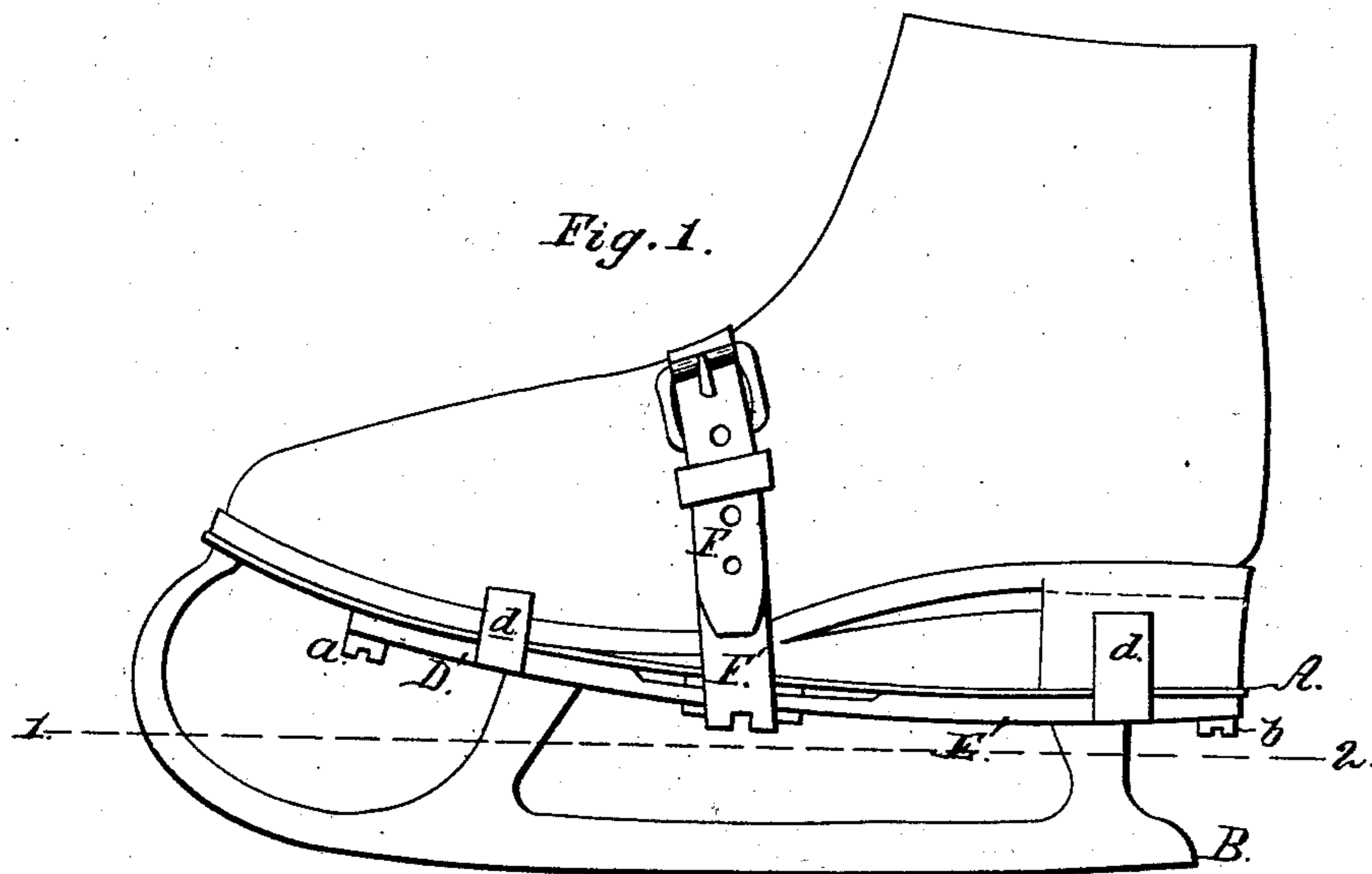


W. W. Hendricks,

Skate.

N^o 61,193.

Patented Jan. 15, 1867.



Witnesses.
Wm. Albert Steel -
John Parker.

Inventor,
Wm. W. Hendricks
By his Atty
H. H. Howley

United States Patent Office.

WILLIAM W. HENDRICKS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR
TO THE COOPER FIRE-ARMS MANUFACTORY, OF SAME PLACE.

Letters Patent No. 61,193, dated January 15, 1867.

IMPROVED SKATE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM W. HENDRICKS, of Philadelphia, Pennsylvania, have invented an Improvement in Skates; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention consists of certain devices, fully described hereafter, whereby a skate can be readily and firmly secured to its place, and as readily detached therefrom.

In order to enable others to make and apply my invention, I will now proceed to describe its construction and operation. On reference to the accompanying drawing, which forms a part of this specification—

Figure 1 is a side view of my improved skate.

Figure 2 an inverted plan view; and

Figure 3 a modification of part of my invention.

A is a plate, on which the sole of the boot or shoe has to bear, and to this plate is secured the runner B. To the under side of the plate, at the point *a*, are hinged two levers, D and D', each of which has a lug, *d*, projecting above the upper surface of the plate, and so arranged that the edges of the sole of the boot or shoe will be grasped at or near its broadest point by and between the said lugs on drawing the outer ends of the levers toward each other. Two levers, E and E', are also hinged to the under side of the plate A at the point *b*, each of these levers having a lug, *e*, so arranged that the two lugs will grasp the heel of the boot or shoe, on drawing the outer ends of the levers together. As shown in figs. 1 and 2, the movement of the four levers is effected simultaneously by two straps, F and F', each being so forked that one strap shall be connected to eyes in the two levers D and E, and the other to the two levers D' and E'. The two straps are passed over the feet, as shown in the drawing, and secured together by the usual buckle, so that on drawing the end of one strap tightly through the buckle of the other, the whole of the levers will be operated simultaneously, and the sole and heel firmly grasped by and between the several lugs *d d* and *e e*, which are serrated or roughened on the inside to insure a firm hold. As heel fastenings, a multiplicity of straps, and other complex adjuncts to ordinary skates are dispensed with, it will be evident that my improved skate possesses the advantages of greater simplicity and more ready means of adjustment to the boot or shoe than those of ordinary construction; at the same time the force applied to secure the skate is exerted through such a leverage that but little exertion is required to insure a most rigid attachment.

I claim as my invention, and desire to secure by Letters Patent—

The combination and arrangement of the plate A, the lever jaws D D' E and E', with their lugs *d e*, and the straps F and F', or equivalent devices for operating the said levers beneath the plate A, the whole being constructed and operating as and for the purpose described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WM. W. HENDRICKS.

Witnesses:

H. Howson,

JOHN WHITE.