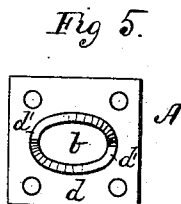
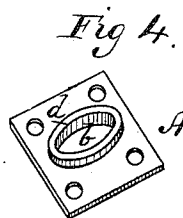
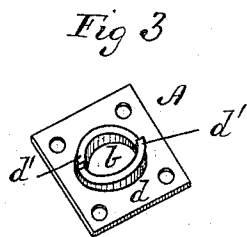
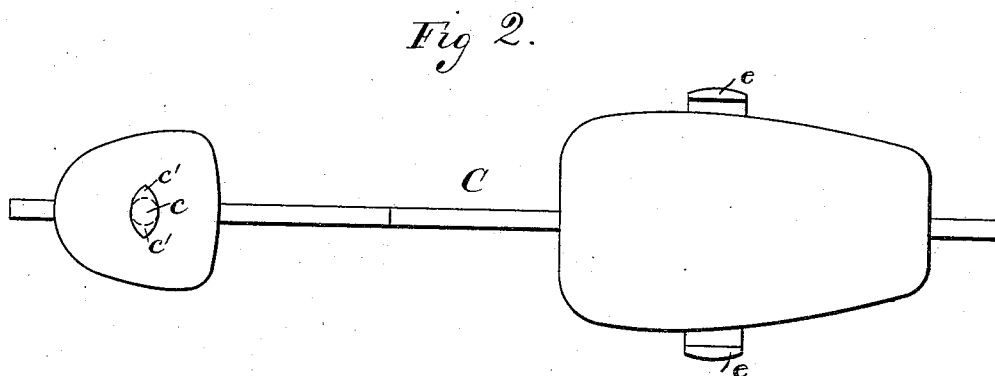
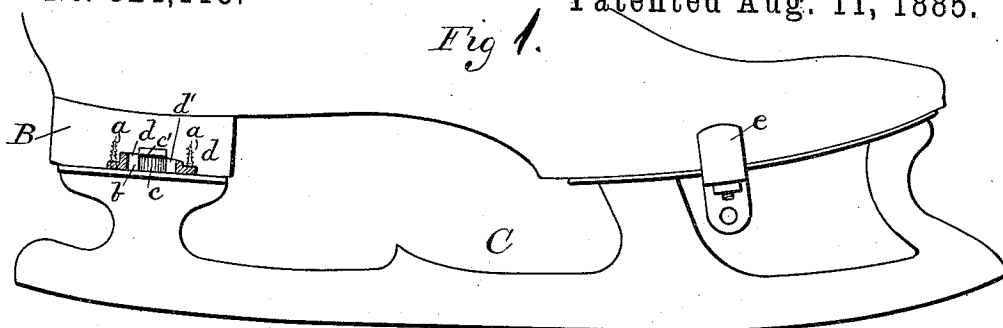


(No Model.)

J. B. JAMES, Jr.
HEEL PLATE FOR SKATES.

No. 324,115.

Patented Aug. 11, 1885.



WITNESSES:

L. Cook.
C. Sedgwick.

INVENTOR:

J. B. James Jr.
BY *Mumford*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN B. JAMES, JR., OF RIVERDALE, NEW YORK.

HEEL-PLATE FOR SKATES.

SPECIFICATION forming part of Letters Patent No. 324,115, dated August 11, 1885.

Application filed October 28, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. JAMES, JR., of Riverdale, in the county of New York and State of New York, have invented a new and Improved Heel-Plate for Skates, of which the following is a full, clear, and exact description.

This invention relates to a heel-plate to be secured to the heel of a boot or shoe for holding skates that fasten at the heel with a flanged elliptical stud; and the invention consists, principally, of a heel-plate having an elliptical aperture made through it, around which is formed a flange or collar to support the flanges of the skate-stud, so that a perfectly tight fastening of the heel of the skate to the heel of the boot or shoe may always be effected.

The invention also consists in forming the opposite sides of the flange or collar of the heel-plate with oppositely-inclined edges that act as cams to draw the heel of the skate firmly against the heel of the boot or shoe.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a skate held at the heel to a boot or shoe by my new heel-plate. Fig. 2 is a plan view of the skate, showing the form of the stud. Figs. 3 and 4 are enlarged perspective views of my new heel-plate, showing, respectively, the cam-edged and plain flange or collar, and Fig. 5 is a plan view of the plate having the cam.

A represents the heel-plate, which is designed to be fitted in a suitable recess made in the heel B of a boot or shoe, and there secured by the screws *a* or otherwise. Through the heel-plate A is made the elliptical aperture *b*, to receive the flanged elliptical heel-stud *c* of the skate C. Upon the inner surface of the

heel-plate A, and around the elliptical opening *b*, is formed the flange *d*, upon which the flanges *c'* of the stud *c* rest when the skate is applied.

The flange *d* may be a plain flange, as shown in Fig. 4, or the edges of the flange may be oppositely inclined to form the side cams, *d'* *d'*, which act, in connection with the flanges *c'* of the stud *c*, (when the skate is applied and turned to position,) to draw the heel of the skate firmly against the heel-plate A and heel B.

With the flanged plate A, even if the lower surface of the heel B becomes worn away above a level with the heel-plate A, a perfectly tight fastening of the skate may still be effected, since the flange *b* acts to fasten the skate against the heel-plate, rather than against the lower surface of the heel of the boot or shoe, which is not the case with the heel-plates of this character in common use.

The toe of the skate may be fastened to the foot by straps, the sliding jaws *e e*, or by any other means.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. As a new and improved article of manufacture, the heel-plate A, formed with an opening, *b*, and shallow flange *d*, surrounding the opening *b*, the said opening and flange being oblong or elliptical in form, substantially as shown and described.

2. The plate A, formed with oblong opening *b*, and flange or collar *d*, inclined to form the side cams, *d'* *d'*, substantially as and for the purposes set forth.

JOHN B. JAMES, JR.

Witnesses:

WM. H. JAMES,
J. B. JAMES.