

M. C. Haight,

Skate.

N<sup>o</sup> 76,324.

Patented Apr. 7, 1868.

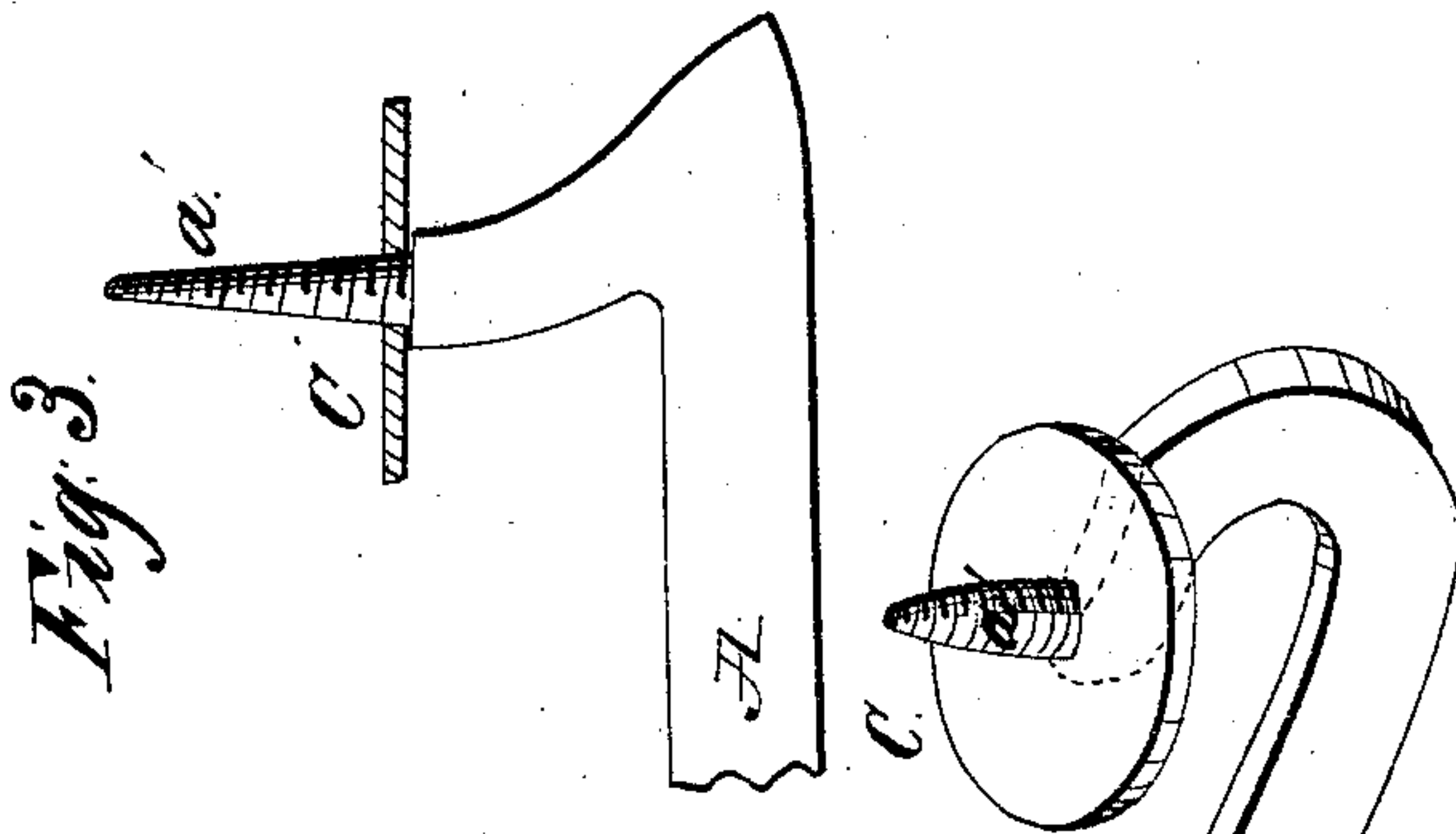
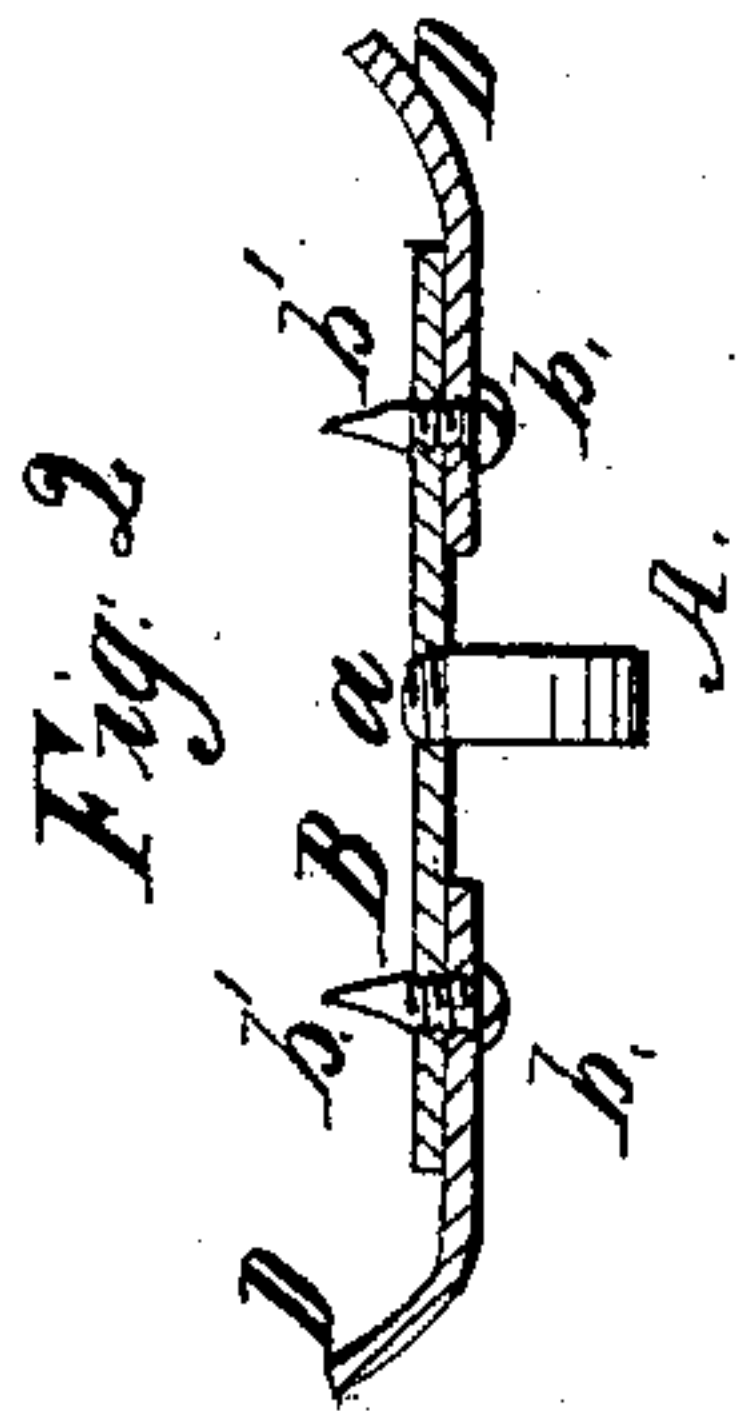
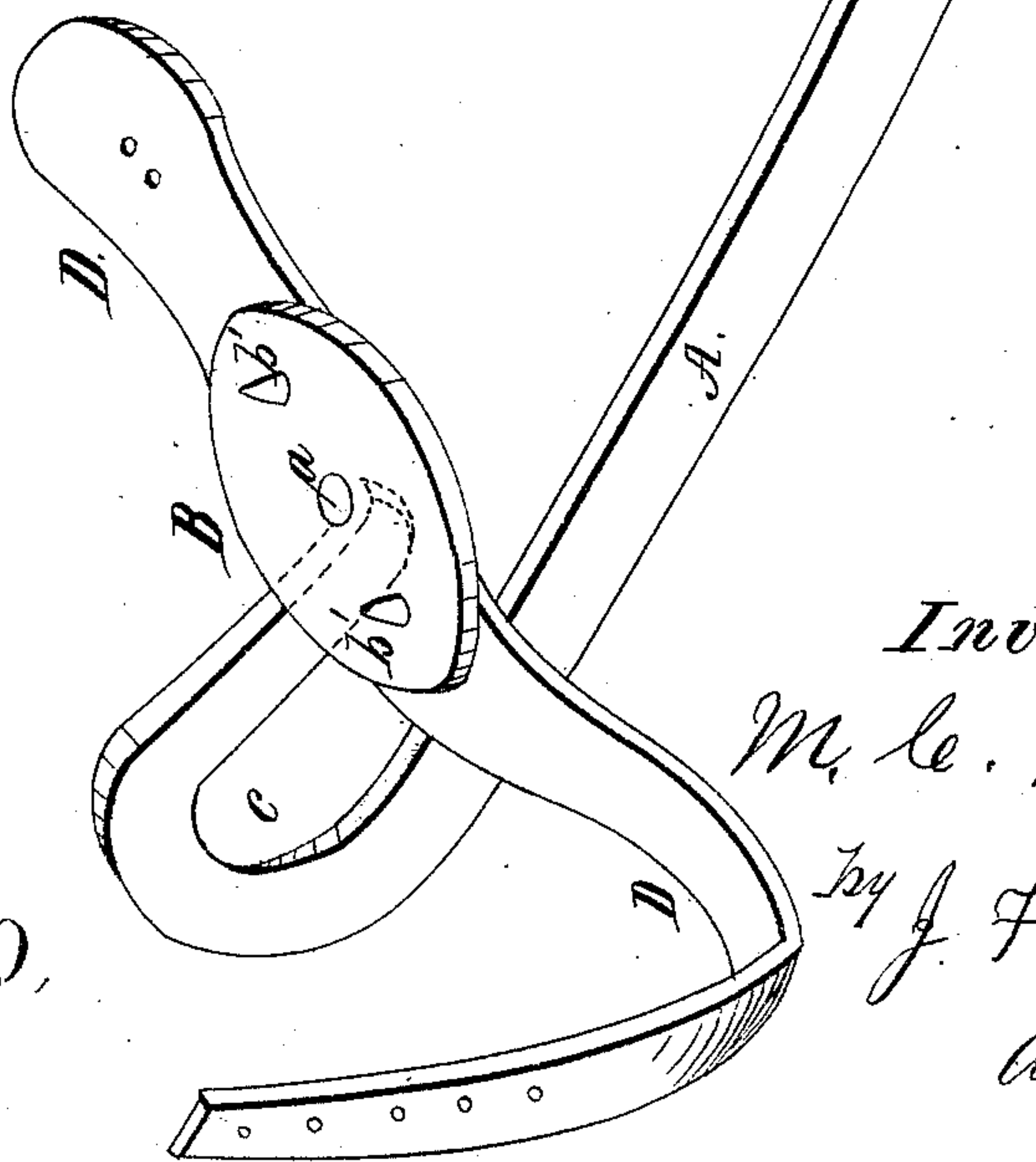


Fig. 1.



Witnesses:

J. H. Davis

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# United States Patent Office.

M. C. HAIGHT, OF GENEVA, NEW YORK.

*Letters Patent No. 76,324, dated April 7, 1868.*

## IMPROVEMENT IN SKATES.

*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, M. C. HAIGHT, of Geneva, in the county of Ontario, and State of New York, have invented a certain new and useful Improvement in Skates; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Figure 1 is a perspective view of my improved skate.

Figures 2 and 3, sections showing the foot and heel-pieces as applied to the screws.

Like letters of reference indicate corresponding parts in all the figures.

My invention consists in combining the foot and heel-pieces or bearings with the skate-runner, by means of screws formed from the runner itself, the rear screw serving as the heel-screw for attaching to the boot; also in making the small screws that attach the straps to the foot-plate serve as the points projecting through for retaining the foot from slipping.

In the drawings, A represents a skate-runner, suitably bent, and having screws *a a'* in front and rear, which form a part of it, the whole constituting a single piece. The foot and heel-plates B C connect with these screws by simply screwing on, having no other attachment, and the heel-screw *a'*, in the rear, projects up through a suitable distance to fasten in the heel of the boot or shoe.

This arrangement insures the minimum of cheapness and efficiency. There are but three parts, each solid and entire, which connect with the greatest facility. The runner is bent from a rod of steel, and the foot and heel-plates are cut from sheet metal by suitable dies. This connecting of the plates with the runner by screws formed from the runner itself, is much simpler and stronger than where the plates have to be riveted or soldered in place, or where separate and detached screws have to be employed, as in ordinary skates, where the runner is formed in a single piece.

The foot-straps D D attach to the under side of the foot-plate *a*, by means of small screws *b b*, which screw through the plate. The upper ends of these screws, projecting above the plate, are made sharp-pointed, as shown at *b' b'*, so as to serve the additional purpose of points or pricks to hold in the sole, to prevent slipping. The object of this arrangement is to insure great simplicity and cheapness, with the necessary strength. By this means I avoid the necessity of using independent screws for attaching the straps, and independent points for holding in the sole. I combine the whole in one device.

I prefer to make the runner a little thicker at the lower than at the upper edge, and I also prefer to form the bend *c* in such a manner as to secure a degree of elasticity under the weight. The rear end may be curved, as in fig. 1, or angular, as in fig. 3, or it may be square.

I am aware that a skate-runner, bent, and formed from a single piece, has before been known; such I do not claim.

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

Combining the foot and heel-plates B C directly with the runner A, by means of the solid screws *a a'*, forming a part of the runner itself and making the screws *b b* that attach the straps to the foot-plate, sharp-pointed to serve as the brads for holding the foot, the whole arranged as described, and operating in the manner and for the purpose specified.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

M. C. HAIGHT.

Witnesses:

J. A. DAVIS,

FRED. A. HATCH.