

Walter & Standinger,

Heel Calk.

No. 107,132.

Patented Sept. 6. 1870.

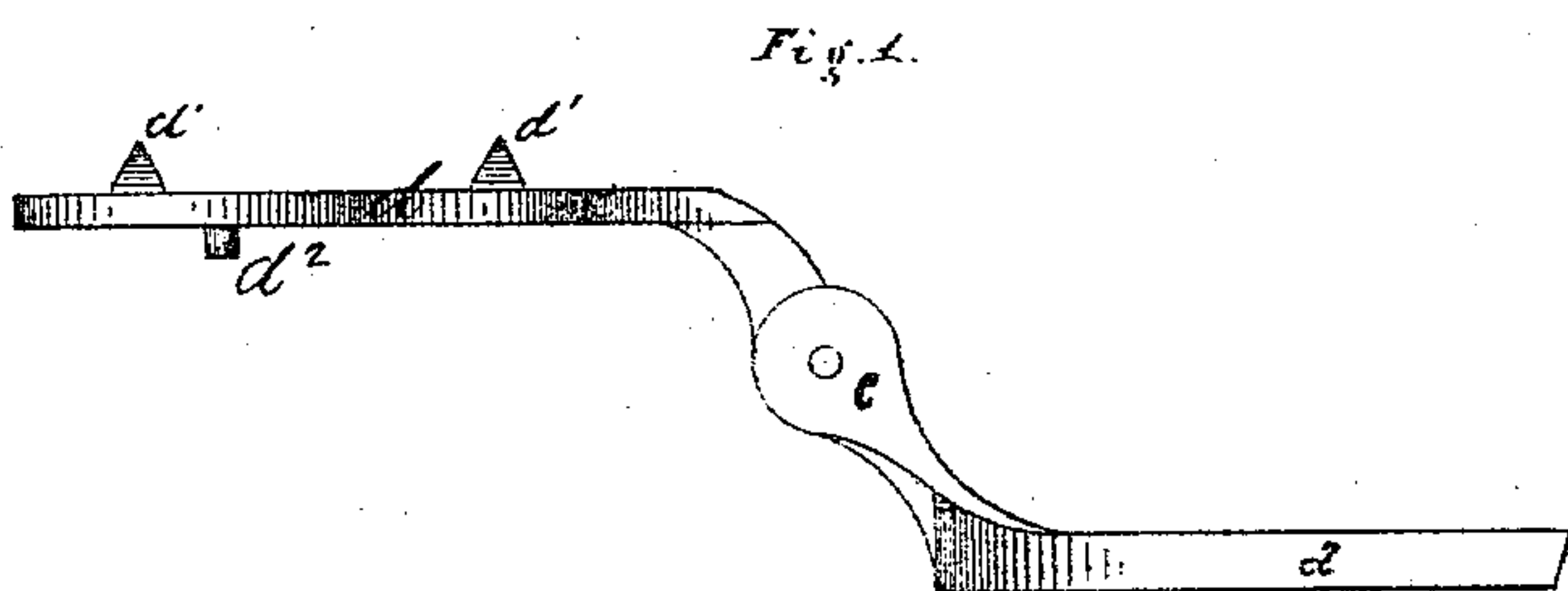


Fig. 2.

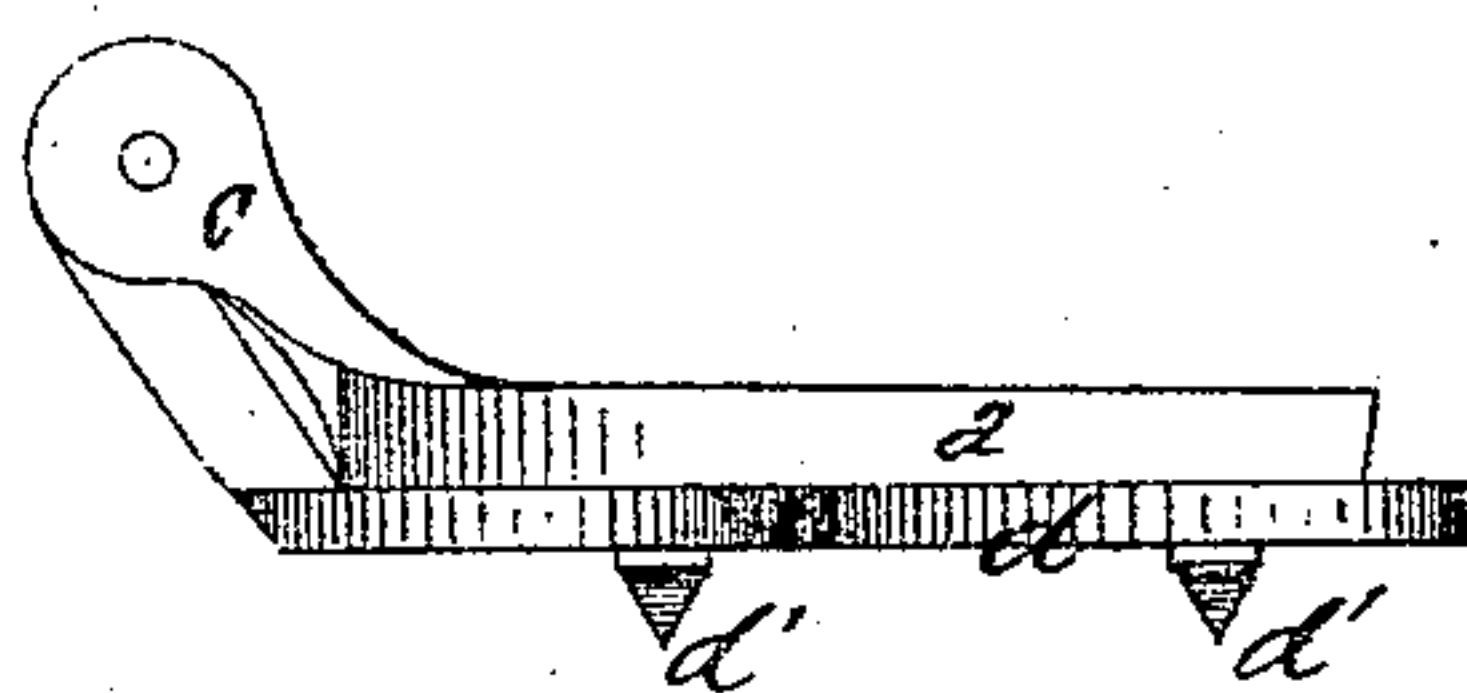
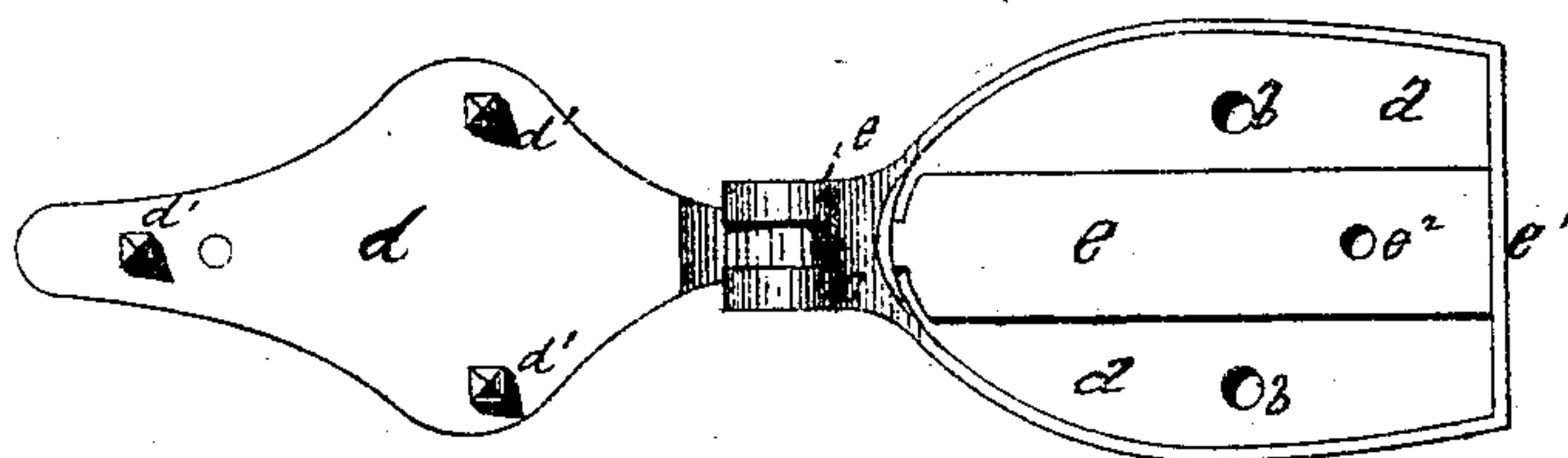


Fig. 3.



Witnesses.

Wm. E. Simonds  
Geo. G. Ellis.

Inventor.

Martin F. Walter  
Ch. Standinger.

# United States Patent Office.

MARTIN F. WALTER AND CHARLES STAUDINGER, OF HARTFORD, CONNECTICUT.

Letters Patent No. 107,132, dated September 6, 1870.

## IMPROVEMENT IN HEEL-CALKS.

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

We, MARTIN F. WALTER and CHARLES STAUDINGER, of Hartford, in the county of Hartford and State of Connecticut, have invented certain Improvements in Heel-Calks, of which the following is a specification.

### *Nature and Objects of the Invention.*

This calk is designed to be worn on the heel of a shoe or boot, to prevent the wearer from slipping on an icy walk, and has a part attached to it with sharp points upon its under side, which part can be swung out from under the foot when the wearer does not wish to make use of the article as a calk.

### *Description of the Accompanying Drawing.*

Figure 1 is a side view, with the swinging part adjusted as when not in use.

Figure 2 is a side view of the calk adjusted for use.

Figure 3 is a plan view of the calk in the position shown in fig. 1.

### *General Description.*

The letter *a* indicates one part of the calk made of a plate of metal. This part is secured to the leather heel of a boot or shoe by screws running through the holes *b b*, or in any other convenient manner.

At the back part of the plate *a* is a projection, *c*, which rises upward and backward. To its extremity is hinged the plate *d*, which has sharp points *d'* upon that surface which is the under surface, when this plate is folded under the heel for use, as shown in fig. 2, which sharp points take hold of the icy walk, and prevent the wearer from slipping.

The letter *e* indicates a flat spring lying in a recess in the upper side of the plate *a*, and fastened to this plate at the end *e'*. The loose end of the spring bears against the hinge part of the plate *d*, in such fashion as to hold the plate *d* firmly against the plate *a*, when the plates occupy the position shown in fig. 2.

The hinge part of the plate *d* is made somewhat cam-shaped, to assist this office of the spring. The spring also holds the plate *d* in position when opened out, as shown in figs. 1 and 3.

Upon that side of the plate *d* opposite from that which bears the sharp points *d'*, is a short spur, *d''*, which, when the plate is folded under the heel, shuts into the orifice *e''*, and thus prevents the plate *d* from slipping sideways upon the plate *a*.

The advantages of this calk are obvious. When it is desired to make use of the article as a calk, it is folded down, as shown in fig. 2; and when the wearer enters a house or other place where it would be undesirable to have the sharp points under the foot, it is only necessary to fold the plate *d* back, as shown in figs. 1 and 3.

### *Claim.*

We claim as our invention—

The part *d*, with its pin *d''*, when employed in connection with the part *e*, having its orifice *e''*, as described.

MARTIN F. WALTER.  
CH. STAUDINGER.

Witnesses:

WM. E. SIMONDS,  
THEO. G. ELLIS.