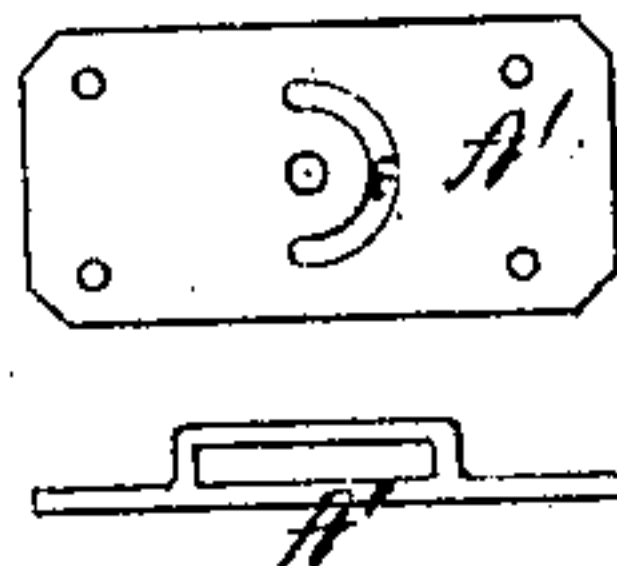
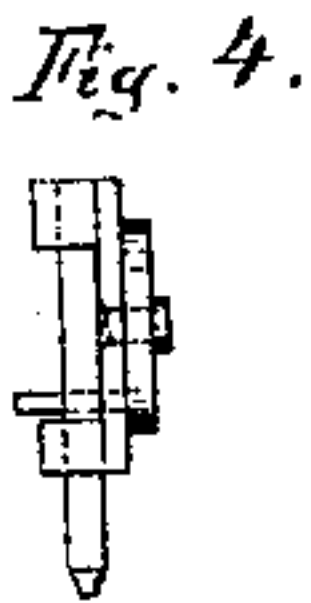
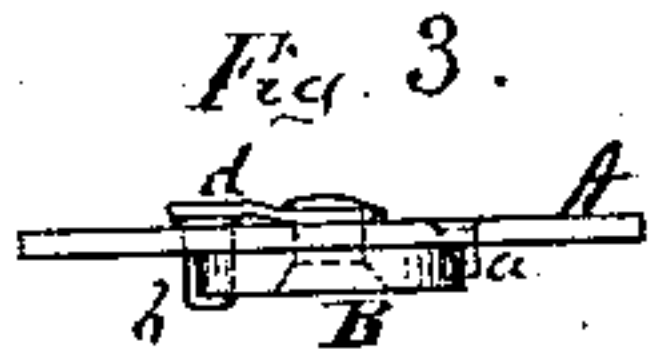
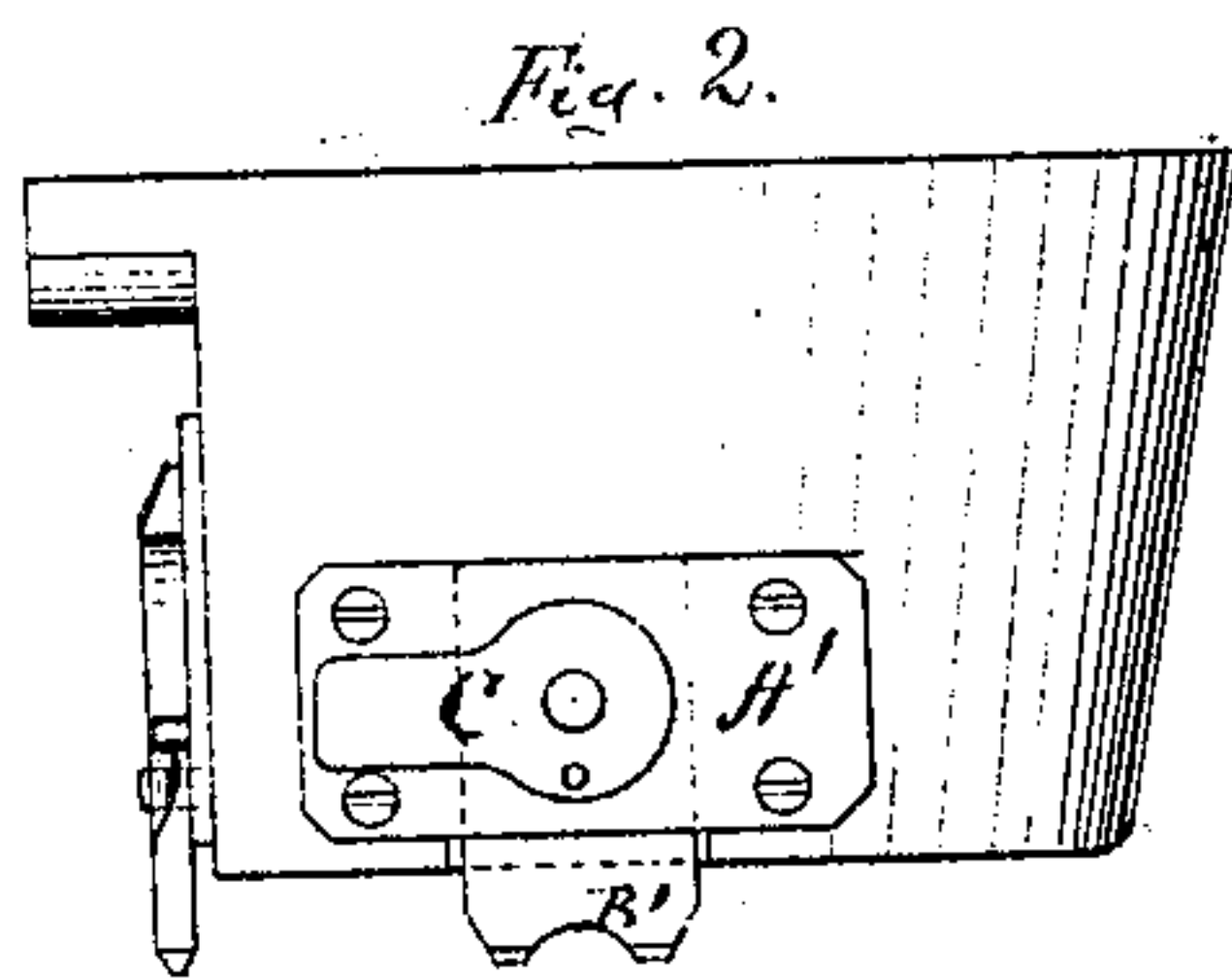
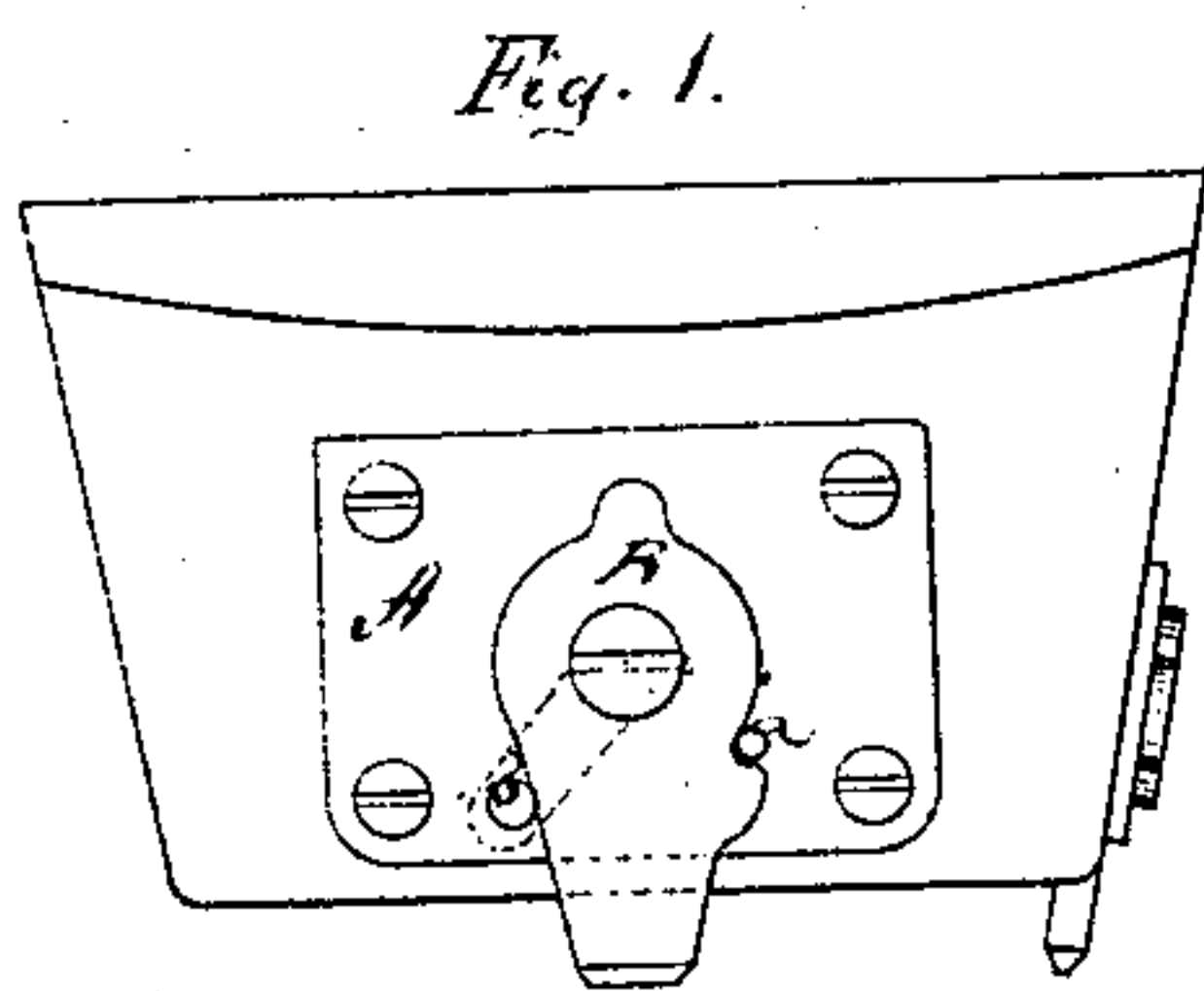


Wager & Scudder,

Boot Calk.

No. 106,747.

Patented Aug. 23, 1870.



Witnesses:

Chas. Jacobs.

J. V. White

Inventors:

Wager & Scudder.

Per

T. H. Alexander

Atty.

# United States Patent Office.

JOHN L. WAGER AND ABRAM L. SCUDDER, OF SANFORD, NEW YORK.

*Letters Patent No. 106,747, dated August 23, 1870.*

## IMPROVED CALK FOR BOOTS AND SHOES.

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

*To all whom it may concern:*

Be it known that we, JOHN L. WAGER and ABRAM L. SCUDDER, of Sanford, in the county of Broome and State of New York, have invented certain new and useful Improvements in Adjusting Calks for Boot and Shoe-Heels; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The nature of our invention consists in so constructing calks or spurs on boot-heels that they can be turned up out of the way when not needed, substantially as herein set forth.

In order to enable others skilled in the art to which our invention appertains to make and use same, we will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is front view of a boot-heel, showing one calk or spur on the front side of the heel, and another on the side;

Figure 2 is a side view of the same;

Figure 3 is a detached view of the calk shown on the front side of the heel; and

Figures 4, 5, 6, and 7 are detached views of the calk shown on the side of the heel.

The calk on the front side of the heel is constructed in the following manner:

A is a plate, secured to the heel, and having the calk or spur B pivoted on the outside, as shown in fig. 1.

One side or edge of the spur bears against a stationary pin, *a*, on the plate, while at the other edge is another pin, *b*, projecting through a hole from the inside of the plate A, this pin *b* being attached to a straight spring, *d*, which is secured on the inner end of the pivot for the spur B.

By this means the spur is held in proper position

for service, and, when not needed, the pin *b* is pushed in, when the spur can be turned up out of the way.

There are other methods by which the same result, namely, the turning up of the spur, may be obtained; for instance, by the device shown on the side of the heel. In this case, the spur B' is made to move vertically in guides, on the inside of the plate A', by the following means:

A lever, C, is pivoted on the outside of the plate A'. This lever is, on its inner side, provided with a pin, *i*, which projects inward through a semicircular slot, *e*, on the plate A', and into a horizontal slot, *f*, on the spur B'.

It will readily be seen that by turning the lever C to one side, the spur is thrown down, while, turning it to the other side, the spur is drawn up.

These calks or spurs are to be used on ice, or icy pavements, and are also very useful to wear on steep roofs, &c.

What we claim as new, and desire to secure by Letters Patent, is—

1. The plate A, when secured to the heel of a boot or shoe, and provided with pin or stop *a*, in combination with the adjusting calk B, substantially as and for the purpose set forth.

2. In combination with plate A and calk B, the spring *d*, arranged as and for the purpose described.

3. Spur B', in combination with lever C, arranged to operate substantially as and for the purpose set forth.

In testimony that we claim the foregoing as our own invention, we affix our signatures in presence of two witnesses.

JOHN L. WAGER.  
ABRAM L. SCUDDER.

Witnesses:

JAMES NOBLE,  
A. C. MOSES.