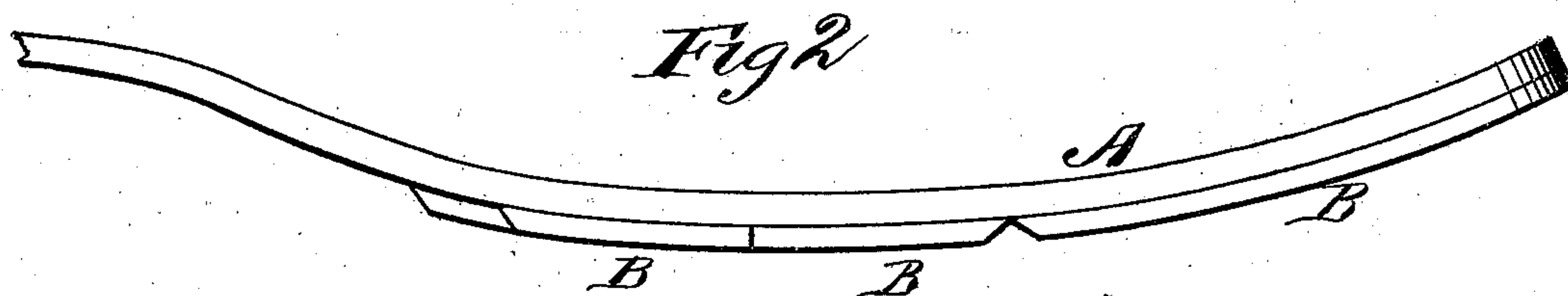
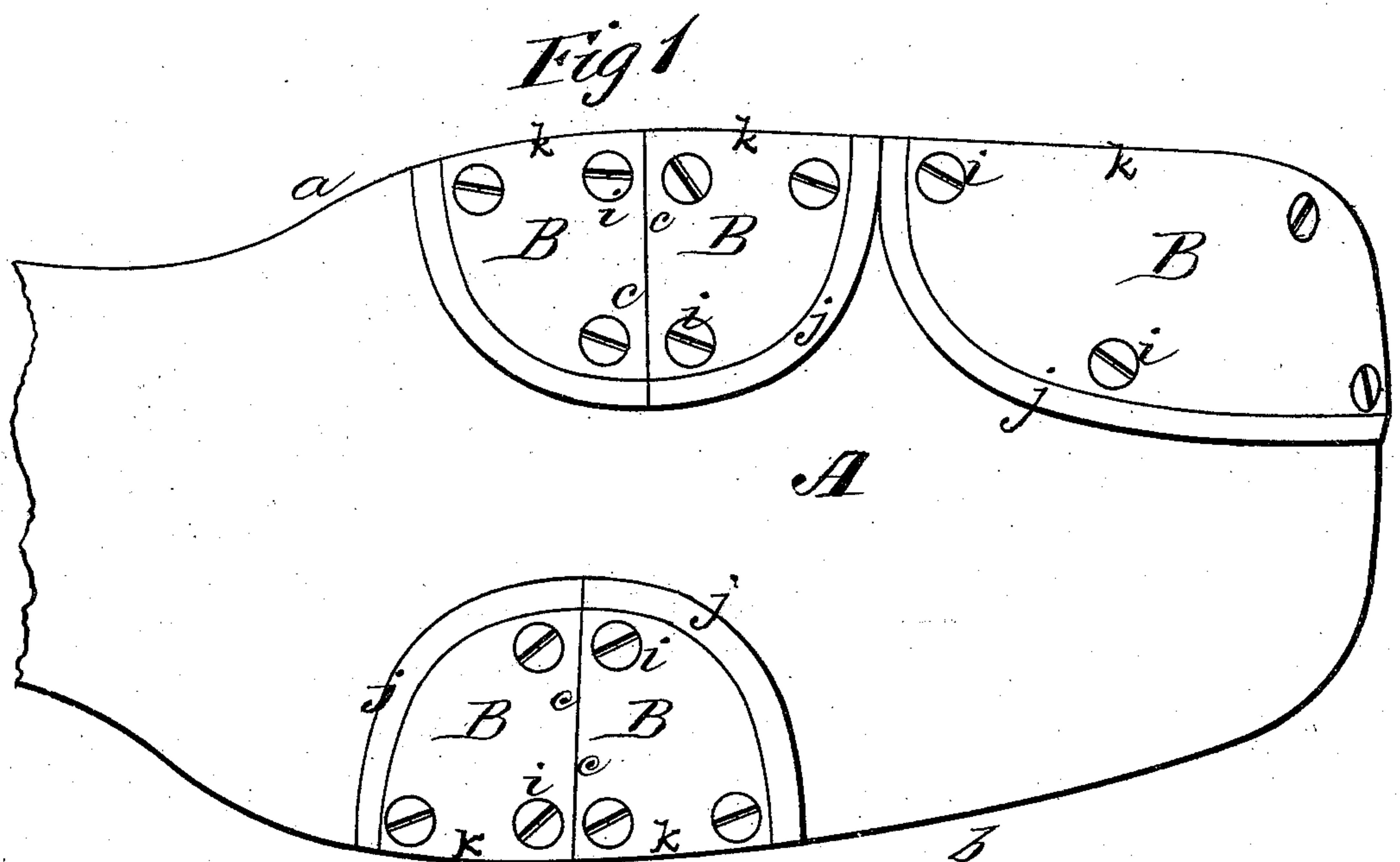


E. S. PERRY.

SOLES AND HEEL-PLATES FOR BOOTS AND SHOES.

No. 174,290.

Patented Feb. 29, 1876.



WITNESSES

Robert Everett
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ELKANAH S. PERRY, OF CLAY LICK, OHIO.

IMPROVEMENT IN SOLE AND HEEL PLATES FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. **174,290**, dated February 29, 1876; application filed August 7, 1875.

To all whom it may concern:

Be it known that I, ELKANAH S. PERRY, of Clay Lick, in the county of Licking and State of Ohio, have invented a new and valuable Improvement in Boot and Shoe Sole Protectors; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my sole-protector; and Fig. 2 is an edge view of the same.

This invention has relation to improvements in boot and shoe soles; and the novelty consists in a sectional plate, as will be hereinafter more fully set forth.

In the annexed drawings, A designates a leather shoe-sole of the usual well-known form, wherein the letter *a* indicates the inner and the letter *b* the outer edge. B represents metallic plates, which may be made of malleable cast or wrought iron, steel, or any other suitable metal, which plates are provided with counter-sunken perforations adapted to receive screws or rivets *i*, by means of which they are attached to the sole, and of which the outer edges *k* conform to the shape of that portion of the edge of the sole upon which the said plates are designed to be applied. They are also longitudinally curved to correspond to the natural curvature taken by the sole in walking.

In practice I propose to use these plates upon the sole or heel of a boot or shoe for the purpose of projecting the surface to meet certain tendencies to wear upon either edge or at the toe. Where the wear is upon the outer edge I shall use two of these plates placed

side by side, with the rectilinear edges *c* in contact, covering that portion of the sole directly under the outer portion of the ball of the foot. These plates being separate the one from the other will allow the sole to flex naturally in the act of walking or running, and will consequently fail to cramp the foot. If the wear is upon the inner edge, or upon the toe of the sole, or upon the heel, similar plates will be applied at these points for their protection, and where the line of wear is diagonally across the sole—as, for instance, from the outer edge to the great toe—two contracting plates will be applied upon the edge, and another, which may, however, be sectional, at the toe, thus protecting these points.

In practice the inner edges of these plates will be rounded and beveled, as shown at *j*, Fig. 1, thus preventing them from coming in contact with objects fixed in the soil in such a manner as to produce stumbling.

I am aware that a rubber sole, provided with parts projecting up between metallic plates attached to the sole, has heretofore been employed, and I therefore lay no claim to such invention.

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

The metallic wear-plates B, having the circular beveled edge *j*, and the straight edges *c* *k*, and adapted to be applied to either the sole or heel of a shoe or boot, in the manner as described, and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ELKANAH S. PERRY.

Witnesses:

JOEL M. DENNIS,

ROBERT H. DOWLING.