

(No Model.)

J. KIEFFER.  
HEEL FOR BOOTS AND SHOES.

No. 252,474.

Patented Jan. 17, 1882.

Fig. 1

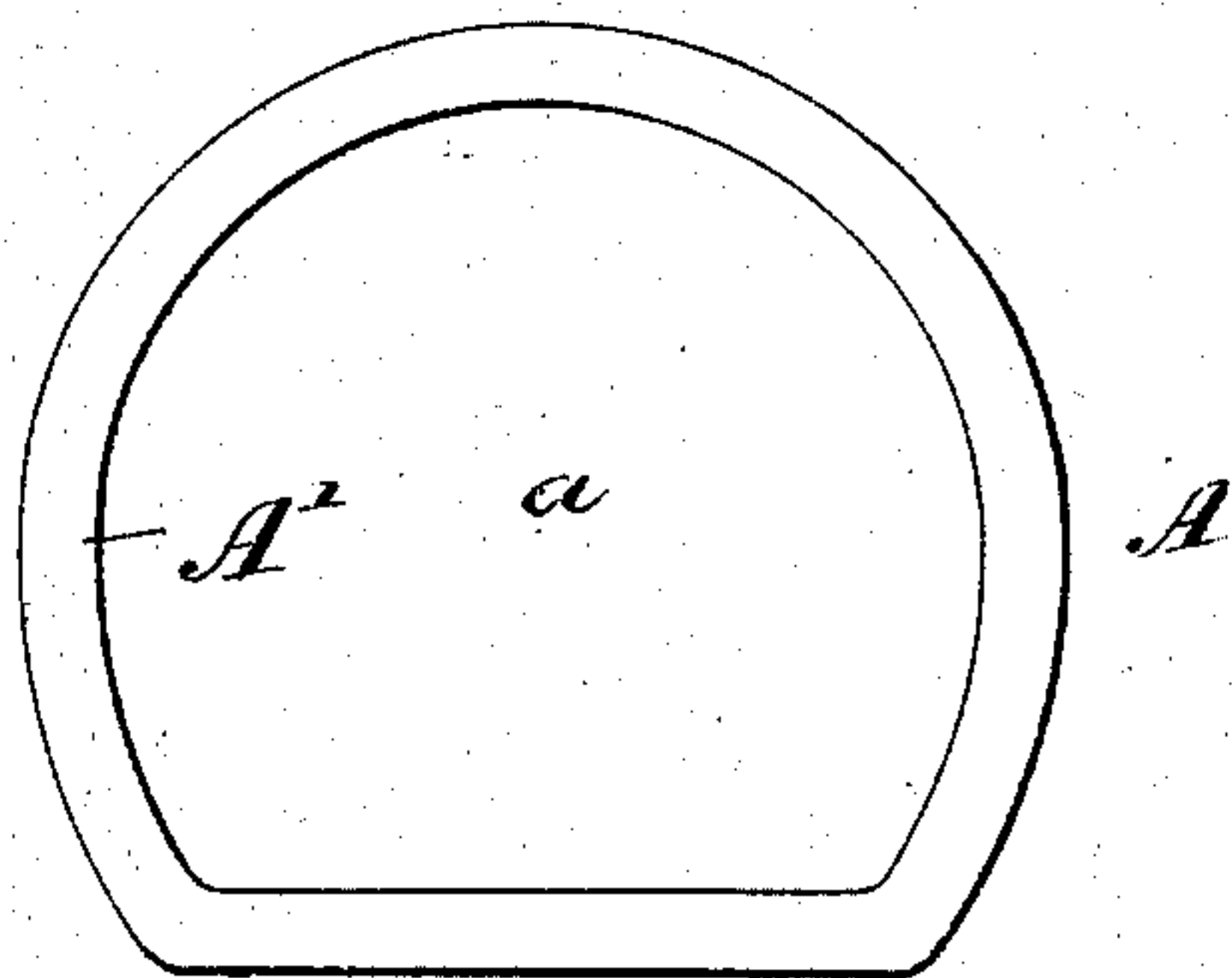


Fig. 2

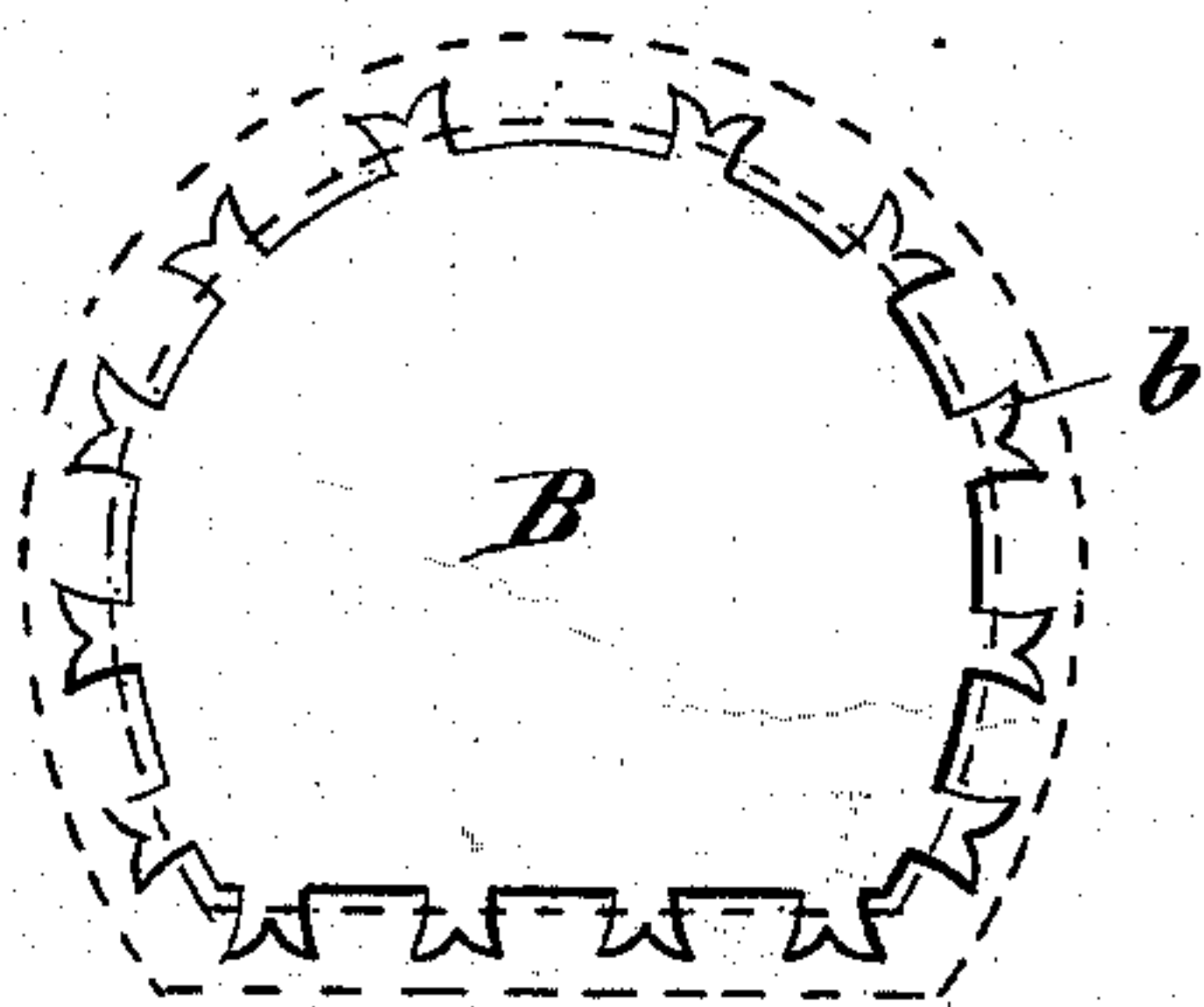
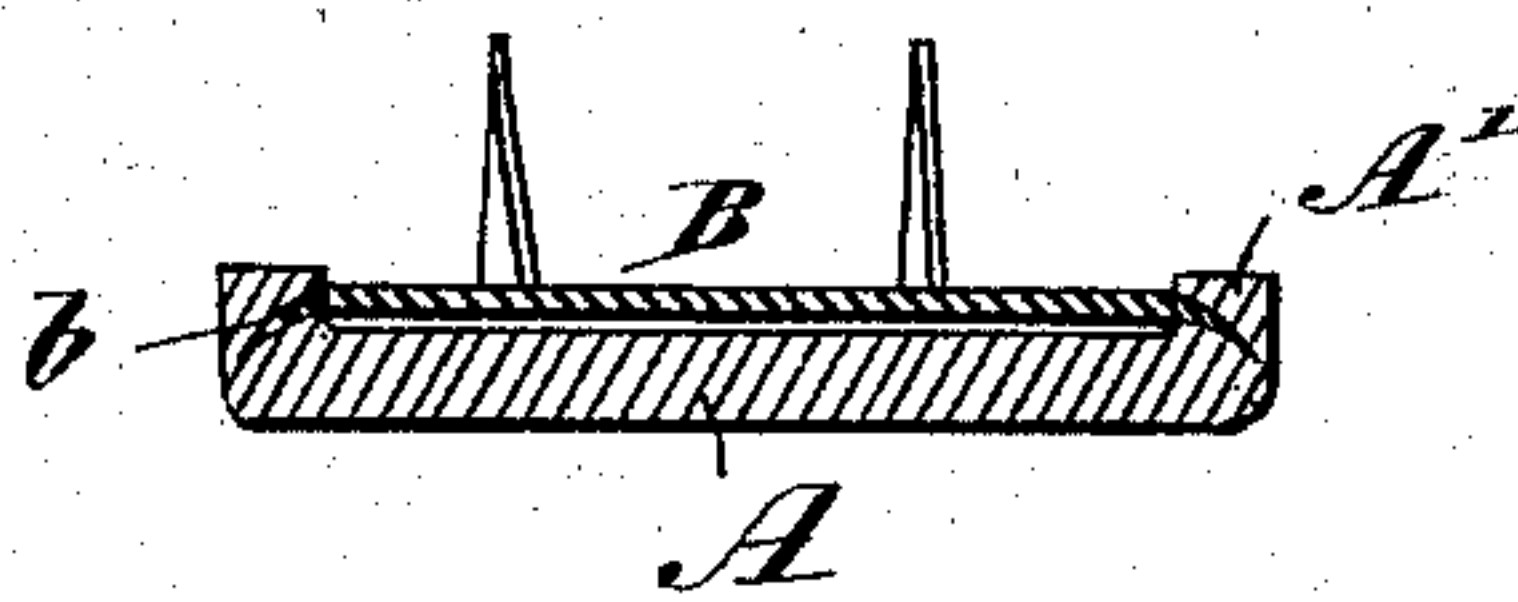


Fig. 3



Witnesses:

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# UNITED STATES PATENT OFFICE.

JOSEPH KIEFFER, OF MONTREAL, QUEBEC, CANADA.

## HEEL FOR BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 252,474, dated January 17, 1882.

Application filed July 25, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH KIEFFER, of the city of Montreal, in the district of Montreal and Province of Quebec, Canada, have invented certain new and useful Improvements in Heels for Boots and Shoes; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention has reference to the manner of forming the top lifts of heels and of attaching them to the body, and affords means whereby such lifts can be secured to the body of the heel without nails being driven through them or appearing on their faces. Its principal object is to provide to heels of cheaply-made boots and shoes a wearing-surface which will be more durable than those of higher-priced boots, and will also prevent uneven wear. It may be thus briefly described: The blank for such a lift is formed of leather of desired thickness, so shaped as to have in it a recess or concavity, in which is laid a metal plate having its edge serrated or with points formed thereon. The lift-blank, with this plate in place, is then placed in a die and pressure exerted all round it, so as to force the edges of the recess in upon the plate and drive its points or serrations into the substance of the leather, the lift being then of the exact size of the heel. The plate may then be attached to the heel by means of points or projections formed on or struck up out of it or in any usual way.

For full comprehension, however, of the invention reference must be had to the annexed drawings, in which Figure 1 shows a plan of the lift-blank, Fig. 2 a view of the metal plate, and Fig. 3 a section of finished lift.

Similar letters of reference indicate like parts.

A is the lift-blank, formed, as shown in Figs. 1 and 3, with raised edges A', so as to leave a recess, *a*.

B is the metal plate, formed, as shown, with serrations or points *b* round its edge. These points are preferably shaped as shown, broadening outwardly, slightly turned down, and

beveled to points. It has also preferably points or projections formed on its upper surface or struck up out of its substance for the purpose of attaching it to the heel-body proper. The plate B is placed in the recess *a*, and the lift A, which has been previously soaked or otherwise treated to soften it, subjected to pressure all round it, thus forcing the edges A' onto the points *b*, and thereby firmly securing the lift to the plate. All that is then needed to complete the heel is to secure this lift in place by driving the points projecting from the upper side of the plate B into the body of the heel.

By my invention is produced a boot having no nails in contact with the ground, and which may be worn down to the metal plate without interfering with the appearance or usefulness of the heel.

Although my invention may be used in connection with all kinds of boot-heels, it is specially applicable when the heel is made of substance other than leather and only provided with a shell or covering.

I am aware that sole-leather struck up round the edge has been used to receive in its recess and protect the insole and upper, and that a corresponding arrangement has been tried for the heel, and therefore lay no claim to either of these.

What I claim as new being—

1. A combined leather and metal lift in which the metal plate is adapted to be fastened to the top lift by means of circumferential edge projections, and is also provided with upward projections adapted to secure the plate to the heel proper, all as herein set forth.

2. The metal plate B, having edge projections or serrations *b*, adapted to be forced laterally into and thereby to hold itself to place to a heel-piece.

JOSEPH KIEFFER.

Witnesses:

JAS. H. REYNOLDS,  
OWEN N. EVANS.