

(No Model.)

J. FIELDHOUSE.

Protector for the Soles and Heels of Boots and Shoes.
No. 242,906.

Patented June 14, 1881.

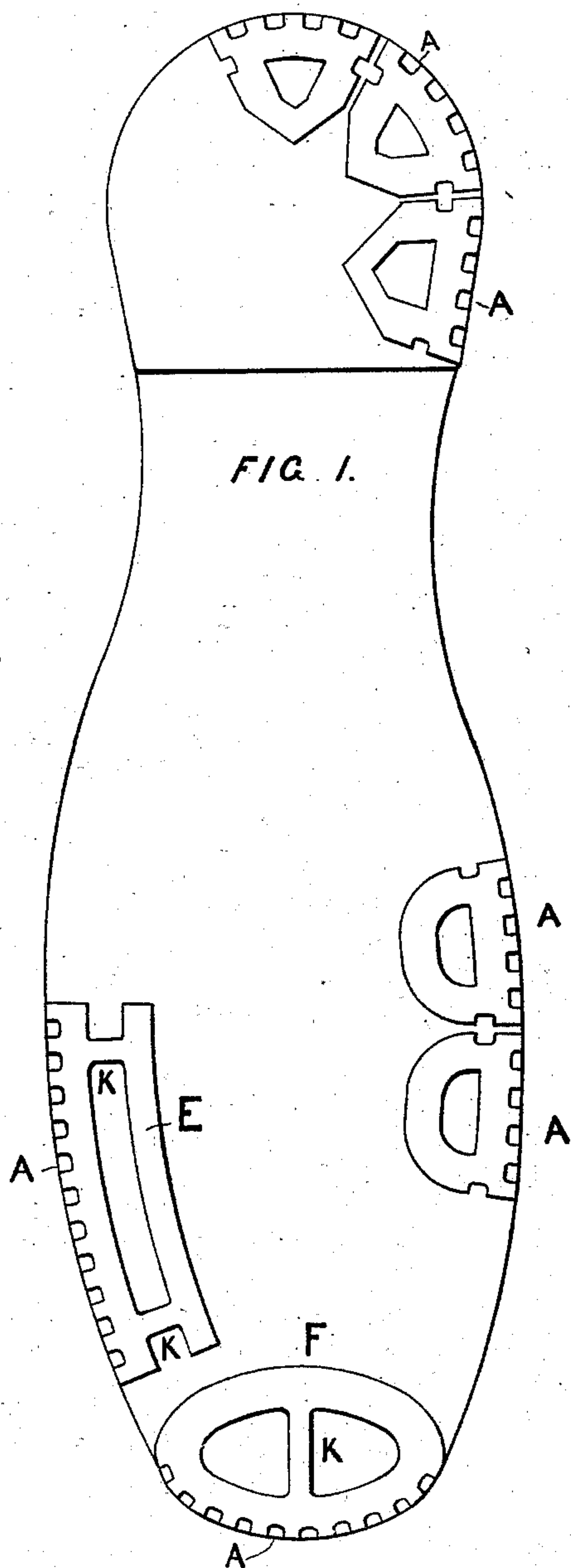


FIG. 2

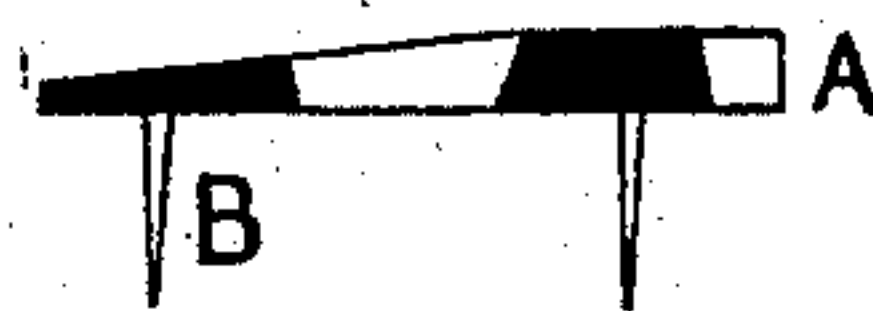
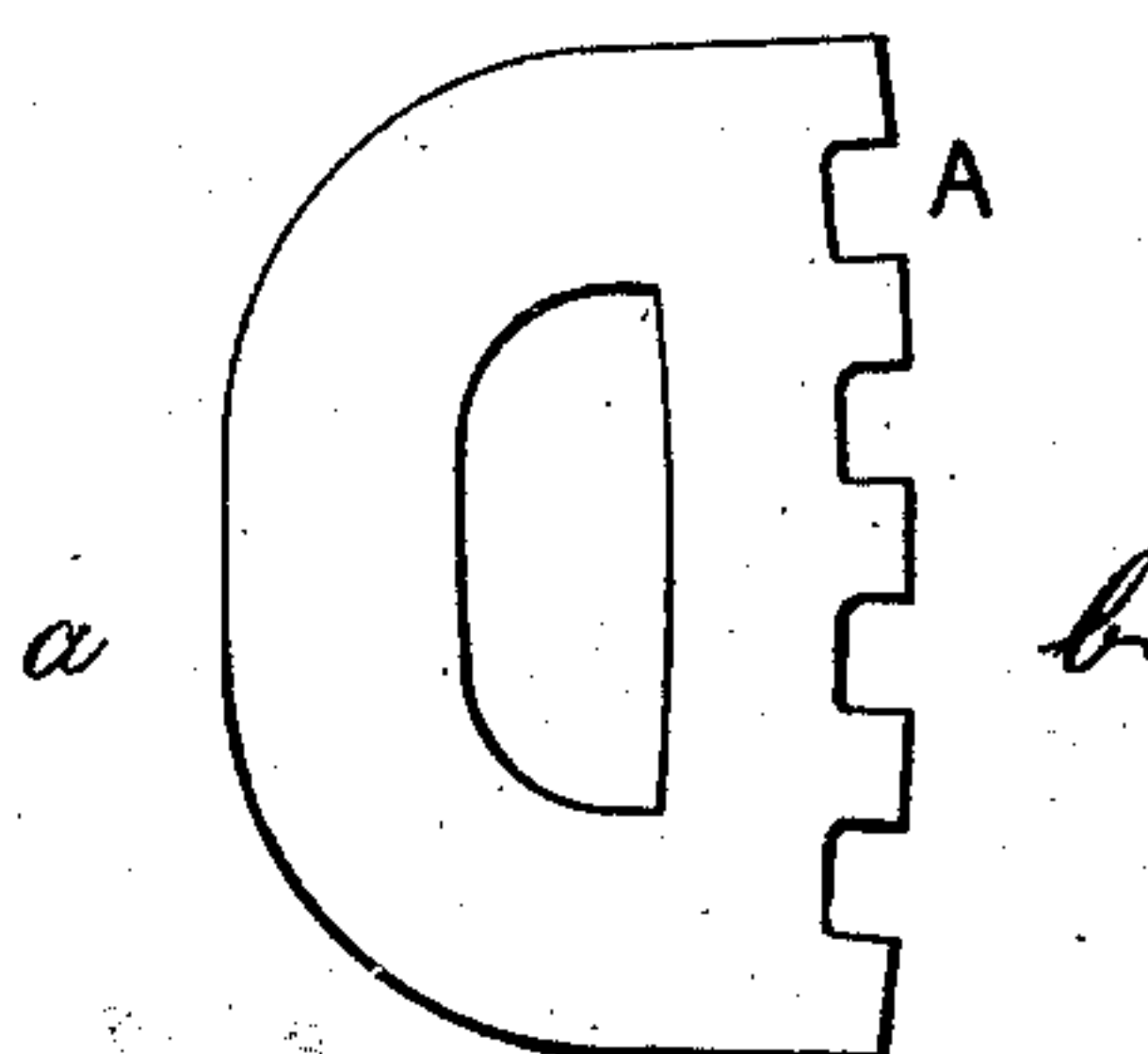


FIG. 3



FIG. 4.

WITNESSES:

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UNITED STATES PATENT OFFICE.

JOSEPH FIELDHOUSE, OF KEIGHLEY, COUNTY OF YORK, ENGLAND.

PROTECTOR FOR THE SOLES AND HEELS OF BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 242,906, dated June 14, 1881.

Application filed April 25, 1881. (No model.) Patented in England March 9, 1881.

To all whom it may concern:

Be it known that I, JOSEPH FIELDHOUSE, a subject of the Queen of Great Britain and Ireland, and residing at Keighley, in the county of York, England, have invented certain Improvements in Boot-Protectors, (for which I have obtained provisional protection in Great Britain, No. 1,007, dated March 9, 1881,) of which the following is a specification.

10 The object of this invention is to produce a metal plate in such a manner that when attached to foot-coverings, such as boots, shoes, and clogs, it will have a firmer gripe upon the ground than boot-protectors now in common
15 use; and it consists in arranging the plate with a perforation in the center, such perforation being parallel to the contour of the outer edge of the plate. The side indentations hitherto very little below the surface of the plate are
20 in my improved plate carried right through the whole thickness of the plate as recesses, so that they (the recesses) remain as long as there is any plate left to wear away, giving to the wearer a firmer gripe upon the ground.

25 I form the protectors in sections of various sizes and configuration suitable for the part of the heel or sole of the foot-covering that requires protection, as it is well known that some persons wear the heels and soles more at some
30 parts than others.

Figure 1 represents the outline of the sole and heel of a foot-covering to which a number of my improved boot-protectors are secured, and shows the indentations or recesses A round
35 the sides of the metal plates. Fig. 2 is an enlarged plan of a boot-protector suitable for the

side of a foot-covering. Fig. 3 is a section of the same through line *a b*, showing the teeth or projections by which the plates are secured to the sole or heel, and the taper of the plate
40 from the out edge toward the center of the sole or heel. Fig. 4 is a cross-section through my heel-protector, which is curved on the side next the heel to fill up the part previously worn away.

45 When the protectors are made long, such as E, or of oval form, as F, I place cross-bars K, connecting the sides together. In every case the perforations are made wider at the outside than at the side next the sole or heel of the
50 foot-covering, by which means the perforations are less liable to fill with foreign matter. These plates are secured, as before mentioned, to the foot-covering by means of teeth or projections B, similar to those described in Eng-
55 lish Specification No. 760, A. D. 1876, and which are driven into holes formed in the heel or other part of the foot-covering requiring protection, thereby securing the plate to the same.

What I claim as my invention is—

60 A boot or shoe sole or heel protector consisting of a metallic plate having internal perforations and edge recesses, each entirely through the plate, substantially as shown and described.

65 In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH FIELDHOUSE.

Witnesses:

JOHN L. FOX,
JOHN GILL.