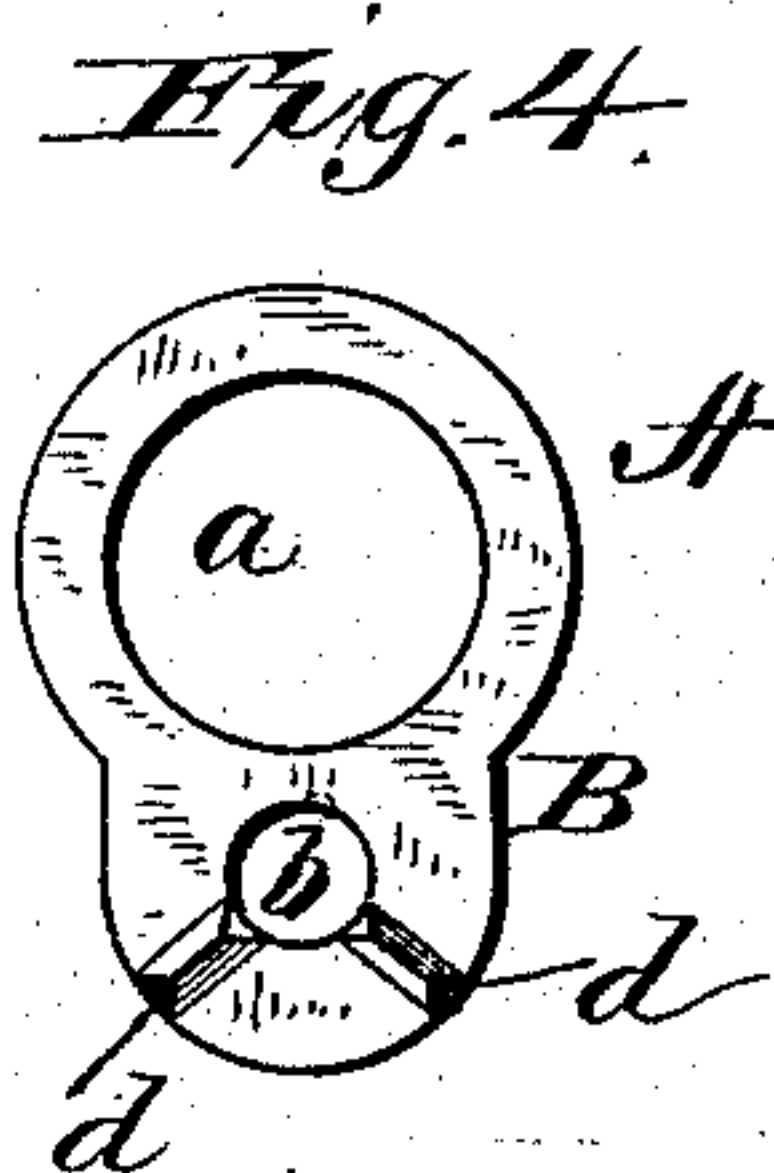
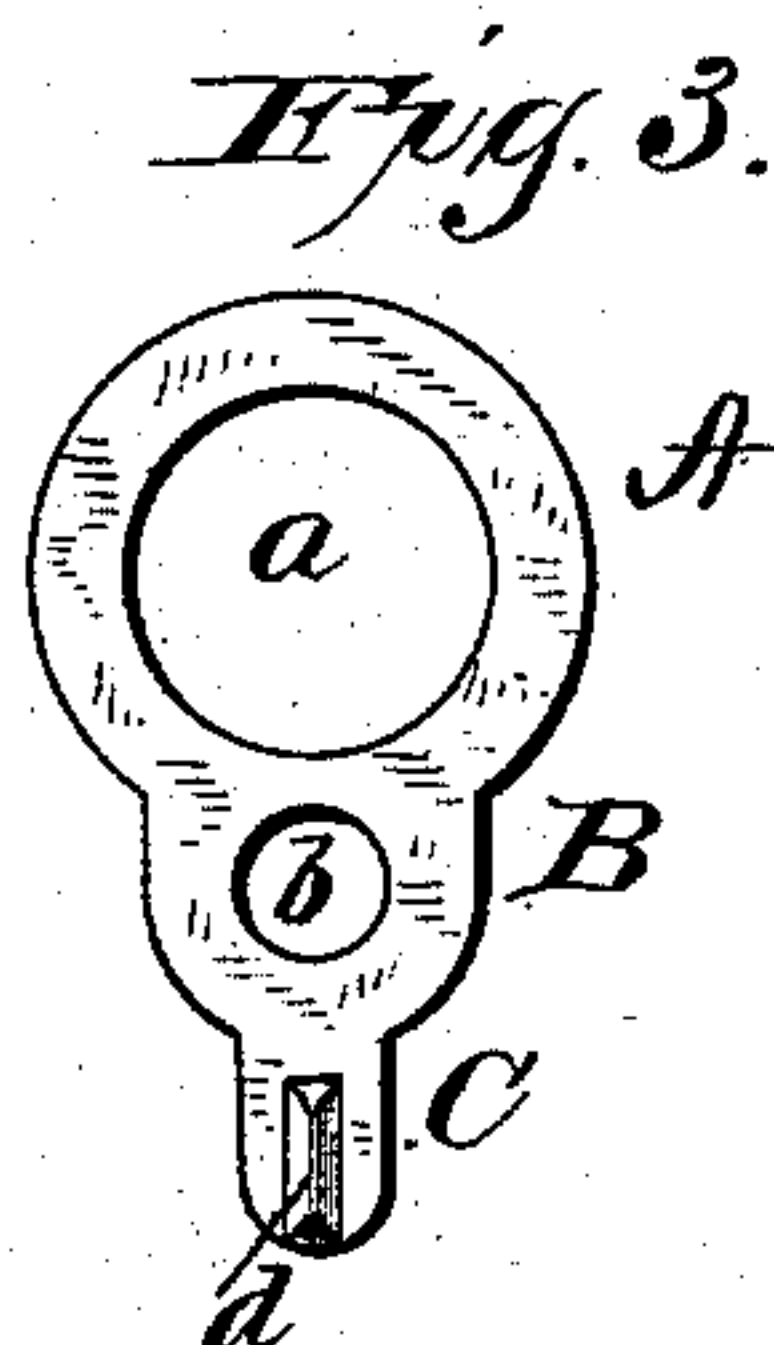
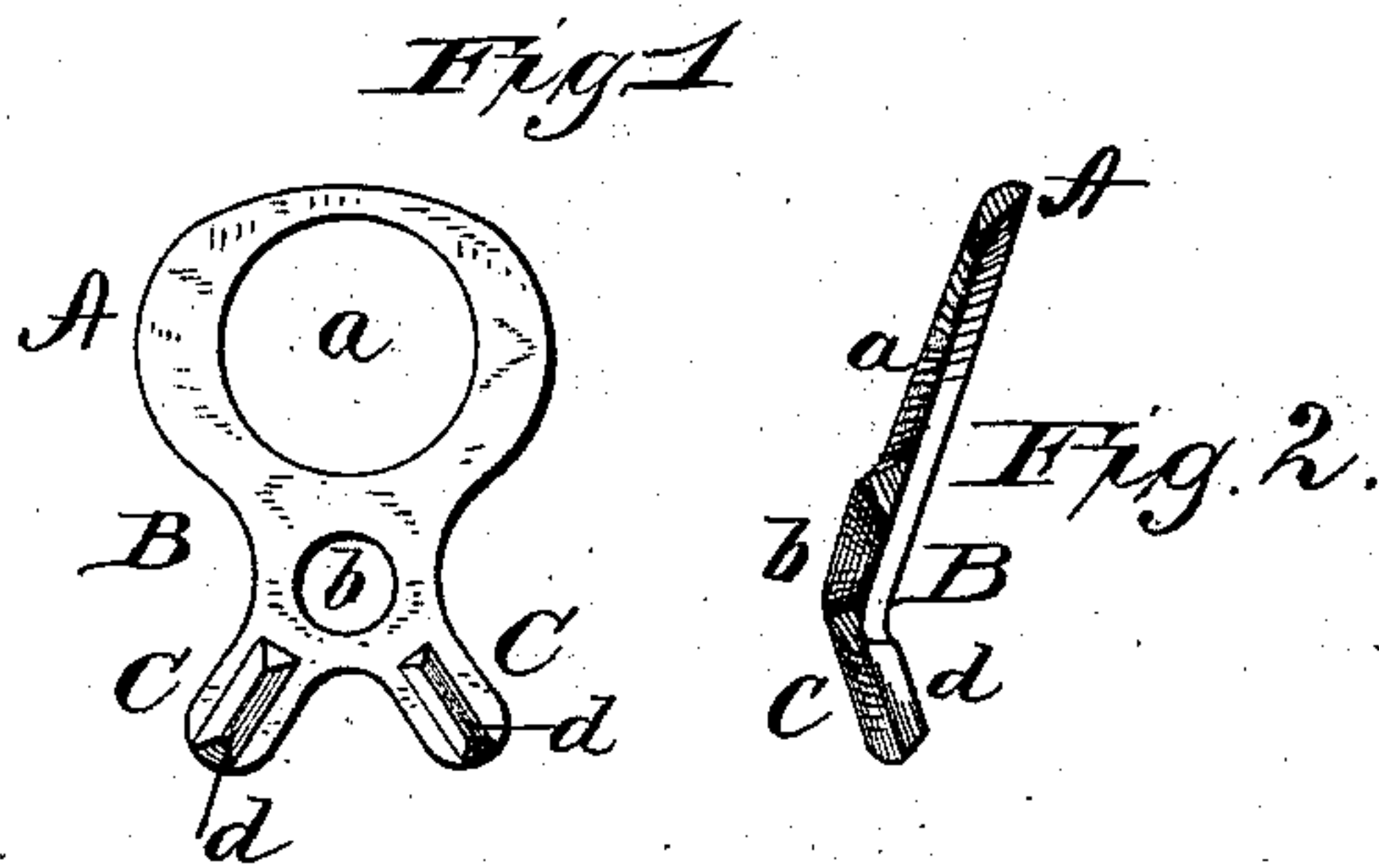


J. G. WHITTIER.
Counter-Brace for Boots and Shoes.

No. 225,201.

Patented Mar. 2, 1880.



Witnesses.
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UNITED STATES PATENT OFFICE.

JOSEPH G. WHITTIER, OF ATTICA, INDIANA.

COUNTER-BRACE FOR BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 225,201, dated March 2, 1880.

Application filed December 11, 1879.

To all whom it may concern:

Be it known that I, JOSEPH G. WHITTIER, of Attica, in the county of Fountain, and in the State of Indiana, have invented certain
5 new and useful Improvements in Counter-Braces for Boots or Shoes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the let-
10 ters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction of a counter-brace for boots and shoes, as will be hereinafter more fully set
15 forth.

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

Figure 1 is a view from the inner side of my counter-brace. Fig. 2 is a central section thereof. Figs. 3 and 4 show modifications of the construction of the same.

25 The entire counter-brace is made of one piece of metal struck up or otherwise made to form an open head, A—that is to say, a head of circular, or nearly circular, form with an opening at *a*, leaving the head somewhat in ring
30 form. At the base the head A is extended, so as to leave sufficient metal at B for the purpose of making a screw-hole, *b*, for the passage of a single screw to fasten the brace to the side of the heel. Below the part B the
35 plate is still further extended to form two arms, C C, on the inner sides of which are formed or attached V-shaped ribs *d d*. These ribs extend in a radial direction from the screw-hole *b*, and when the plate is fastened to the
40 heel the ribs *d* enter the heel sufficiently deep

to hold the plate in position and prevent its turning on the screw.

The entire brace is made in the angular form shown from top to bottom and concave from side to side sufficient to conform to the curve
45 of the counter. The head A of the brace being provided with the opening *a* makes it light, and at the same time it makes additional edges to bind on the boot or shoe to prevent twisting.

It will be noticed that the main brace or
50 plate is concave, so that the edges will take into the leather, and, being in ring form, the leather will, so to speak, protrude into the opening, and the inner edges of the ring will also bind on the leather, and thus form addi-
55 tional security from turning.

In some cases a single arm, C, with rib *d*, may be used, as shown in Fig. 3, instead of two arms; and in still other cases the part B of the plate may be extended without any pro-
60 jecting arms, as shown in Fig. 4, and one or more radial ribs, *d*, formed on or attached thereto.

Having thus fully described my invention, what I claim as new, and desire to secure by
65 Letters Patent, is—

The within-described counter-brace for boots and shoes, consisting of the open or ring-shaped concave head A, part B, with screw-hole *b*, and one or more arms, C, with ribs *d*,
70 substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 2d day of December, 1879.

JOSEPH G. WHITTIER.

Witnesses:

T. M. POWELL,
ORANGE S. TULLIS.