

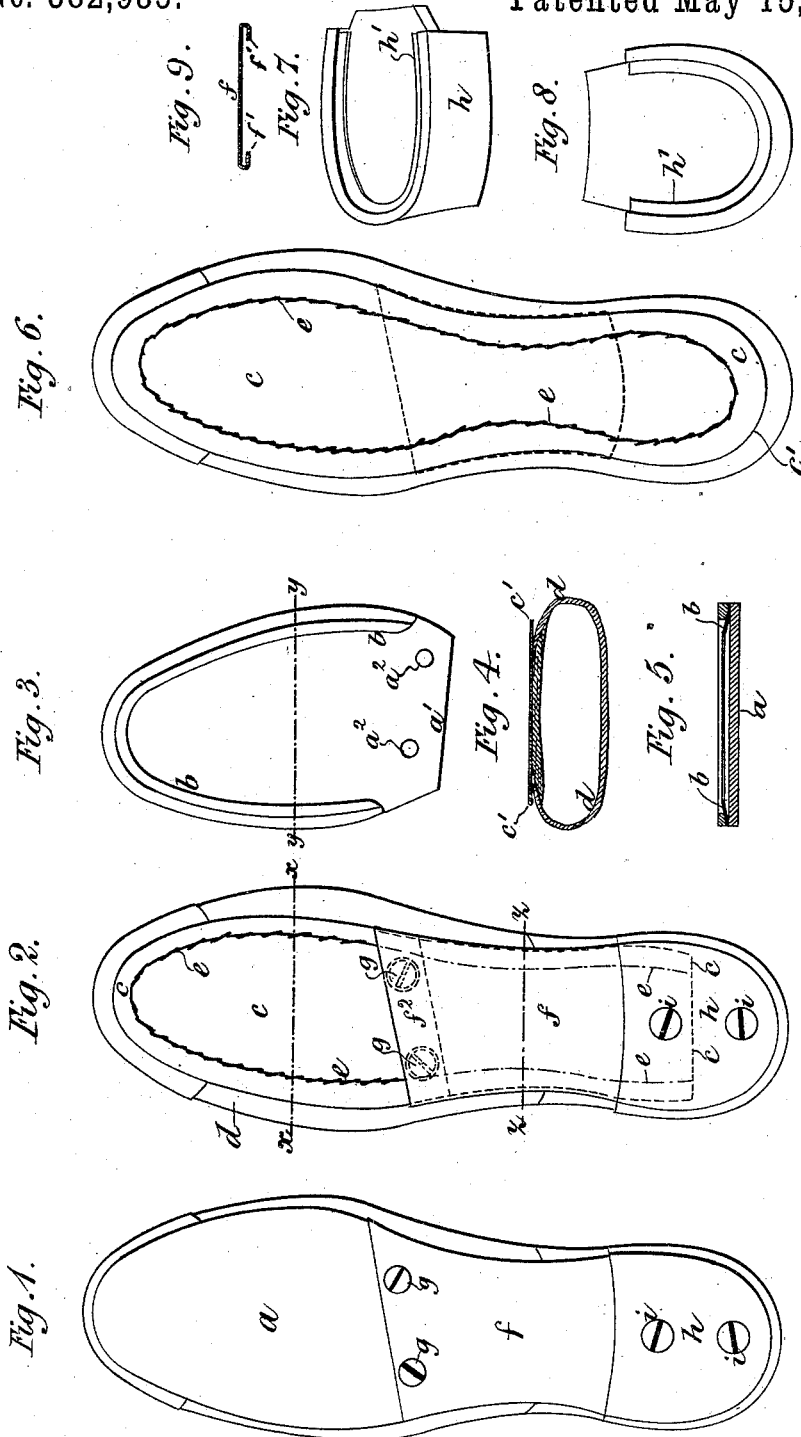
(No Model.)

J. W. JONES & E. K. BRIDGER.

BOOT OR SHOE.

No. 382,985.

Patented May 15, 1888.



Witnesses.

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UNITED STATES PATENT OFFICE.

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BOOT OR SHOE.

SPECIFICATION forming part of Letters Patent No. 382,985, dated May 15, 1888.

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To all whom it may concern:

Be it known that we, JOHN WARD JONES, of 152 High Street, Shoreditch, in the county of Middlesex, England, engineer, and EDWARD KYNASTON BRIDGER, of Temple Chambers, Falcon Court, Fleet Street, in the city of London, England, gentleman, subjects of the Queen of Great Britain, have invented certain new and useful Improvements in the Manufacture of Boots or Shoes, of which the following is a specification.

This invention relates to improvements in the manufacture of boots or shoes; and it consists in so constructing, mounting, and arranging the different parts that boots or shoes can be made according to our present improvements more economically, more durable, and are easier to repair than has hitherto been the case.

In order that our invention may be the more easily understood and readily carried into practice, we will proceed to describe the same with reference to the accompanying drawings.

In the drawings, Figure 1 shows a plan of the bottom of a boot or shoe manufactured in accordance with our improvements. Fig. 2 is a similar view showing details of the parts with the outer sole removed. Fig. 3 is a plan of the inside of the outer sole. Fig. 4 is a transverse section of Fig. 2 on line *x x*. Fig. 5 is a transverse section of Fig. 3 on line *y y*. Fig. 6 is a similar view to Fig. 1 with outer sole, heel, and waist removed. Figs. 7 and 8 show details of method of mounting the heels; and Fig. 9 is a cross-section of Fig. 2 on line *z z*, showing method of mounting the metal waist.

Similar letters of reference indicate corresponding parts throughout.

a is the outer sole or sliding fore part, having a metal rim or strip, *b*, Figs. 3 and 5, secured thereto on the inner side by nailing, riveting, or machine-sewing.

c is a metal plate, (advantageously formed of thin sheet copper or brass or other malleable metal,) which is nailed, riveted, or machine-sewed to the inner sole and upper, *d*.

e is the sewing or stitching. The edge *c'* of the plate *c* outside the sewing *e* projects or stands out sufficiently to allow the metal strip *b* of the outer sole, *a*, to be passed thereunder,

and the outer sole, *a*, slid on and thus firmly secured to the upper.

The waist *f* is of metal, having its side edges, *f'*, turned under so as to overlap and embrace the edges *c'* of the metal plate *c*. This metal waist *f* (stamped or otherwise formed of tin-plate or other suitable thin sheet-metal plate) is slid onto the edge of the metal plate *c* from the back of the boot, and the heel *h* (which is advantageously hollow and made of metal, and forms no part of our present invention, except so far as arranging and combining it in this novel manner) is then secured to the boot or shoe, thus preventing the waist sliding back or moving at all, as by reason of its shape it cannot slide farther forward than as shown in Figs. 1 and 2.

Now, the sliding metal waist *f* having been slid on from the back and secured, as described, and the sliding fore part or outer sole, *a*, having been slid on from the front, the back end, *a'*, of the latter passes under the front end, *f'*, of the waist, and the two are firmly secured together by screws or nails. In this case two screws, *g g*, are shown, which pass through the metal waist, then through the holes *a''* in the outer sole, and through the metal plate *c* into metal sockets or eyes mounted and arranged for that purpose under the plate *c*. In this manner the two parts *a* and *f* are firmly secured to each other, and when it is desired to renew the outer sole it is only necessary to unscrew these small screws *g g*, draw off the worn or old sole, and slide on a new one. The screws are then replaced, as before described, and the boot or shoe thus resoled in a very little time.

Fig. 6 shows an arrangement in which the metal plate *c* is continued right down to the heel. In this arrangement it is intended to slide on the heel *h* under the edge *c'* of the metal plate *c* in a similar manner to the waist and fore part, the inside edge, *h'*, of the hollow metal heel *h* being turned over for that purpose, (see Figs. 7 and 8,) the waist being first slid on up to its proper position, and then the heel *h*, which is secured in position by the screw *i*, as shown in Figs. 1 and 2.

Having thus fully described our invention, what we claim, and desire to secure by Letters Patent in the United States, is—

1. The combination, in boots or shoes, of a

metal plate, *c*, secured to the "upper" and insole with a sliding fore part, *a*, a sliding metal waist, *f*, and heel *h*, substantially as set forth.

2. A boot or shoe constructed with a malle-
5 able metal plate, *c*, secured to the upper and insole, and having its outer edge, *c'*, projecting, so as to allow the fore part or outer sole, *a*, and metal waist *f* to be slid on the two parts being thus firmly secured to the upper and insole
10 and also firmly secured to each other by the screws *g*, substantially as set forth.

3. A boot or shoe constructed with a malleble metal plate, *c*, sewed all round (to the upper and insole) a short distance from its edge *c'*, upon
15 which are slid the outer sole, *a*, the metal waist *f*, and the heel *h*, these parts being respectively prevented from coming off or apart by screws *g g* and *i i*, substantially as set forth.

4. A boot or shoe having a metal waist, *f*,
20 with edges *f'* turned under to slide under and

embrace a metal plate, such as *c*, secured to the upper and insole, substantially as set forth.

5. A boot or shoe having a sliding fore part or outer sole, *a*, with a projecting metal edge or rim, *b*, on its inside, to slide under and embrace the edge *c'* of a metal plate, such as *c*,
25 secured to the upper and insole, the back edge of the sliding fore part, *a*, passing under the front edge of the metal waist *f*, these two parts being held together by screws, and thereby
30 firmly secured to the upper and insole, all substantially as set forth.

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