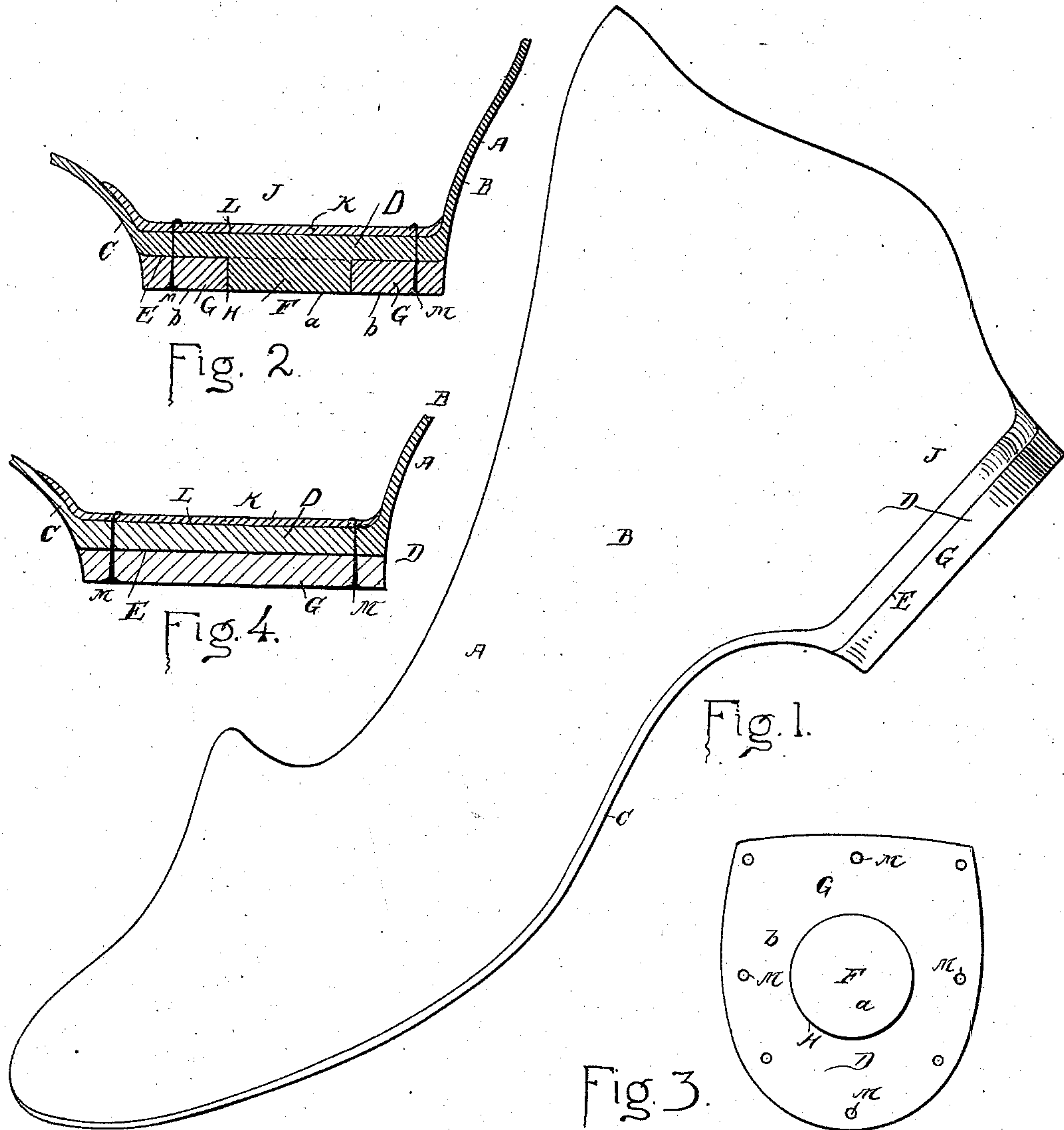


(No Model.)

J. N. V. SWEET.
RUBBER BOOT OR SHOE.

No. 305,407.

Patented Sept. 16, 1884.



Witnesses.

M. S. Bell

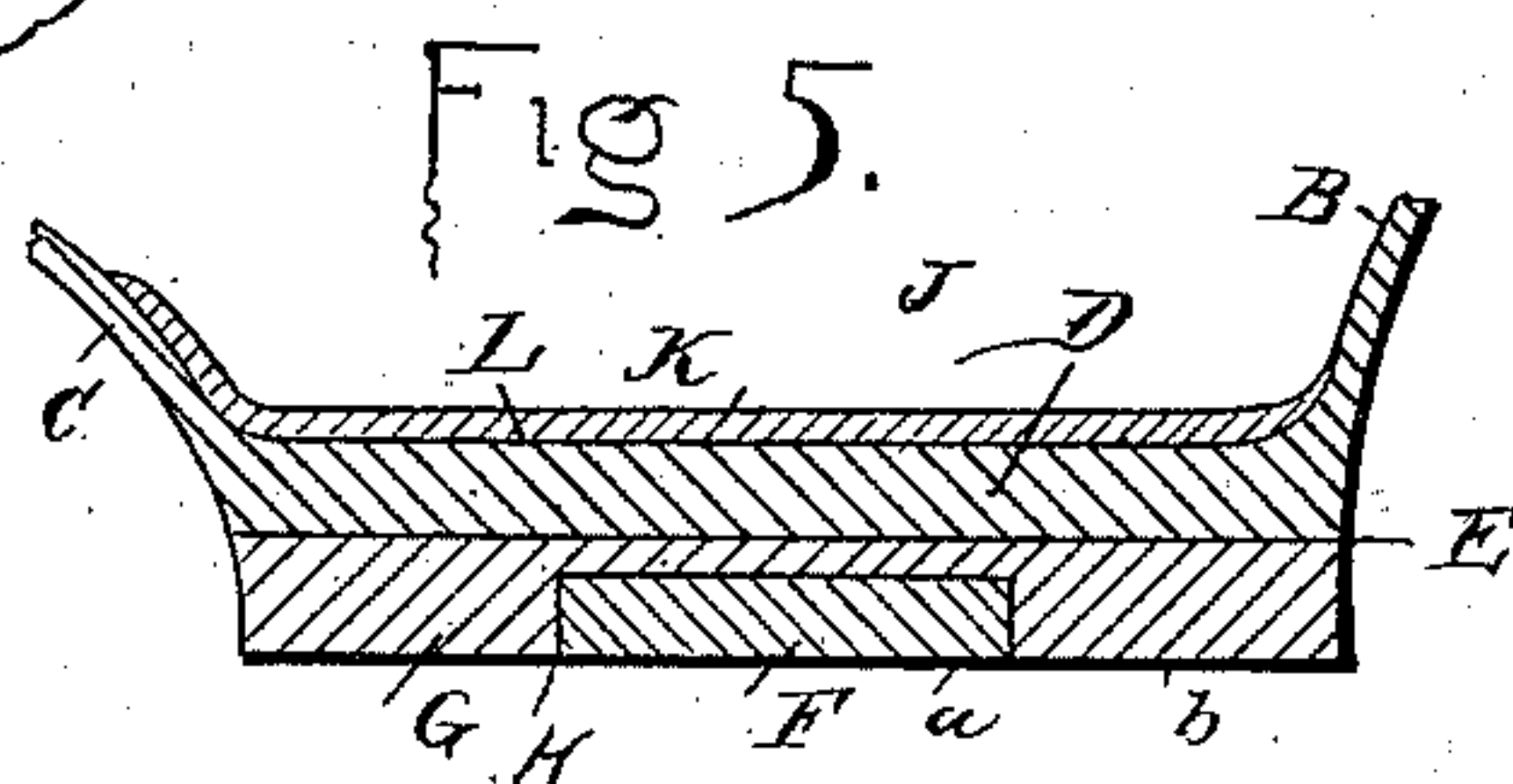
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Inventor. -

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per Brown Bros.

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UNITED STATES PATENT OFFICE.

JOHN N. V. SWEET, OF NANTUCKET, MASSACHUSETTS.

RUBBER BOOT OR SHOE.

SPECIFICATION forming part of Letters Patent No. 305,407, dated September 16, 1884.

Application filed April 26, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN N. V. SWEET, of Nantucket, in the county of Nantucket and State of Massachusetts, have invented certain
5 new and useful Improvements in Rubber Boots or Shoes, of which the following is a full, clear, and exact description.

This invention relates to improvements in india-rubber boots or shoes; and it consists
10 in attaching and securing in any suitable manner to the outside or treading surface of the heel of a boot or shoe made of india-rubber, in any of the usual and well-known ways, a piece or sheet of leather of suitable thick-
15 ness, for the protection of the heel against undue wear, all substantially as hereinafter fully described.

In the accompanying plate of drawings is illustrated a shoe made of india-rubber, and
20 otherwise constructed according to this invention.

Figure 1 is a side view of the shoe. Fig. 2 is a longitudinal vertical section at the heel. Fig. 3 is a face view of the bottom of the
25 heel. Fig. 4 is a view similar to Fig. 2 showing a modification; and Fig. 5 is a detail sectional view, to be hereinafter referred to.

In the drawings, A represents a shoe consisting of the upper B, sole C, and heel D, all
30 made of india-rubber in any of the usual and well-known ways of manufacturing india-rubber boots and shoes, and needing no particular description herein, except so far as this invention is concerned.

35 The outer or treading surface, E, of the heel D of the shoe has a central projection, F, preferably round in horizontal section.

G is a piece or sheet of leather of the shape and outline of the treading-face of the heel,
40 and having an opening, H, in its central portion, corresponding in its form, &c., with the projection F of the heel. This leather piece G is placed on the treading-face E of the heel D, the central projection, F, of the heel extending into the opening H of the leather, and
45 having its outer surface *a* slightly projecting or flush, or substantially so, with the outer surface *b* of the leather piece G, and secured in the following manner: In the inside of the
50 shoe, at the portion J over the heel D, is placed a piece of leather, K, fitting the surface L of the shoe at such place. With this

piece K in place, and the leather piece G applied to the outer piece of the heel, as described, pegs, nails, or tacks M are driven
55 from the outside of the leather piece G through it, the rubber heel D, and inside leather piece K, where they are clinched, or not, as desired, thus securing the leather piece G firmly and rigidly to the heel of the shoe, as is obvious. 60
The projection F and corresponding opening in the piece G can be of any desired form in horizontal section, and can be at any place in the heel, and more than one, if desired; also, the leather piece can be secured to the heel in
65 other ways than by nails or pegs—as, for instance, rivets, or other similar fastenings, or by stitches, or by cement, or any suitable adhesive material, or in any suitable manner—it not being intended to limit the invention 70
to any particular way of securing the leather piece G to the heel.

The use of leather for the outside or treading or wearing surface of the heel of a boot or shoe made of india-rubber prevents the heel
75 from wearing away too fast and before the other parts of the boot or shoe become worn, as is often the case where the treading-surface of the heel is of rubber and exposed to wear. Also, having a portion of the tread-
80 ing-surface of such piece G of rubber gives a treading-surface sufficient for the necessary friction to prevent slipping of the shoe when worn, and yet does not retract from the effect resulting from the application of the
85 leather piece, as ordinarily the principal wear of the heel comes upon or near the edges of the heel, and not at the central portion, where it is preferable to have the rubber exposed.

Having thus described my invention, what
90 I claim is—

A rubber boot or shoe having a piece or sheet of leather secured to the outer or treading surface of its heel, having an opening, H,
95 through which extends a portion or projection, F, of the rubber heel, substantially as and for the purpose specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOHN N. V. SWEET.

Witnesses:

THADDEUS C. DEFRIEZ,
SAML. SWAIN.