

G. DUNLOP.  
Heel-Plate.

No. 166,972.

Patented Aug. 24, 1875.

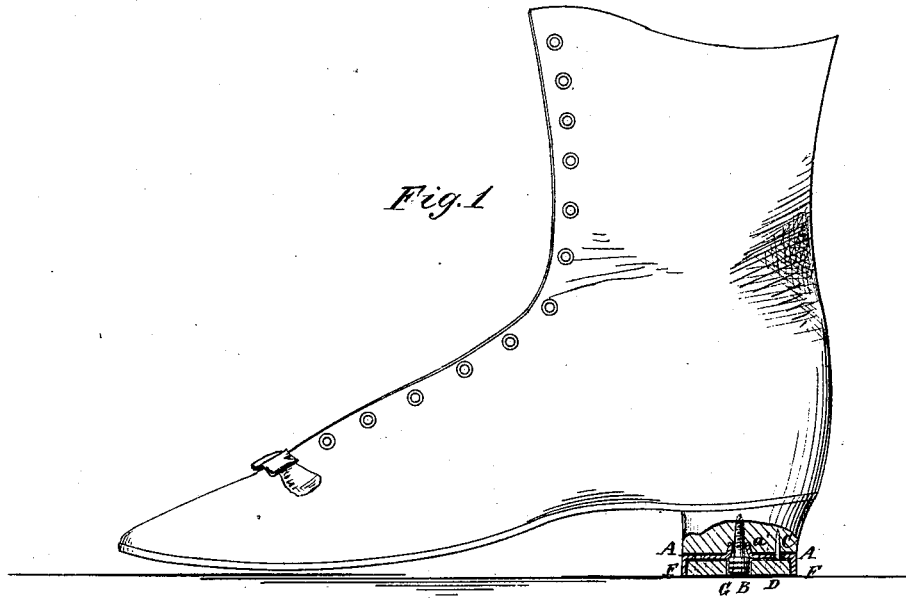


Fig. 2

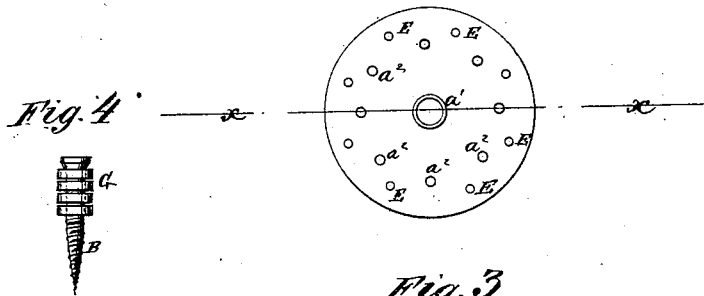


Fig. 4

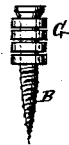
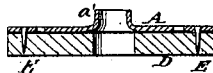


Fig. 3



Witnesses:  
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# UNITED STATES PATENT OFFICE.

GEORGE DUNLOP, OF WILLIAMSBURG, NEW YORK.

## IMPROVEMENT IN HEEL-PLATES.

Specification forming part of Letters Patent No. **166,972**, dated August 24, 1875; application filed December 23, 1874.

*To all whom it may concern:*

Be it known that I, GEORGE DUNLOP, of the city of Williamsburg, in the county of Kings and State of New York, have invented a new and useful Improvement in Detachable and Adjustable Heel-Plate, of which the following is a specification:

Figure 1 is a detail section of my improved heel-plate, shown as applied to a gaiter-heel. Fig. 2 is a detail view of the inner side of the heel-plate. Fig. 3 is a detail section of the same, taken through the line *xx*, Fig. 2, and showing a modification of the plate. Fig. 4 is a detail view of the screw.

Similar letters of reference indicate corresponding parts.

My invention has for its object, to furnish an improved plate for attachment to the heels of gaiters and other boots and shoes, which shall be so constructed that it may be adjusted or turned, as it wears to keep the heel straight.

The invention will first be fully described, and then pointed out in the claim.

A is a metallic plate, which is made circular, and has a hole formed through its center to receive the screw B by which it is secured to the heel. The central hole of the plate A is provided with a tubular projection, *a*<sup>1</sup>, which enters the heel to give the plate A a firmer seat, and keep it exactly in place. In the plate A is formed a circular row of holes, *a*<sup>2</sup>, to receive a pin, C, attached to the heel to prevent the plate from turning upon the screw B, and thereby working loose. If desired, a leather plate, D, may be attached to the plate

A by nails E, as shown in Figs. 2 and 3. Or the plate A may be provided with a rim or flange, F, so as to form a cup to receive the leather plate D. The flange F may be slightly tapering, and may have grooves or corrugations formed upon its inner surface, so that when the leather plate D is driven into its place it may be held securely, whether the nails E be used or not—a little cement will be sufficient. By this construction the use of nails in the heel, so detrimental to carpets and oil-cloths, may be dispensed with, and the leather plate protected and made more durable. G are washers placed upon the screw B, so that as the heel wears down one of the washers G may be removed to prevent the head of the said screw B from being worn.

The object of the washers is to fill up the screw-holes, by raising the head of the screw nearly to a level of the plate to exclude the dirt which would otherwise accumulate in and fill up the necessarily deep countersunk hole.

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

The plate A, provided with a series of holes, E, and a tubular projection, *a*<sup>1</sup>, in combination with the pin C attached to the heel of a boot or shoe, and screw B, substantially as herein described.

GEORGE DUNLOP.

Witnesses:

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