

D. J. ROGERS.  
BOOTS AND SHOES.

No. 180,376.

Patented July 25, 1876.

Fig. 1

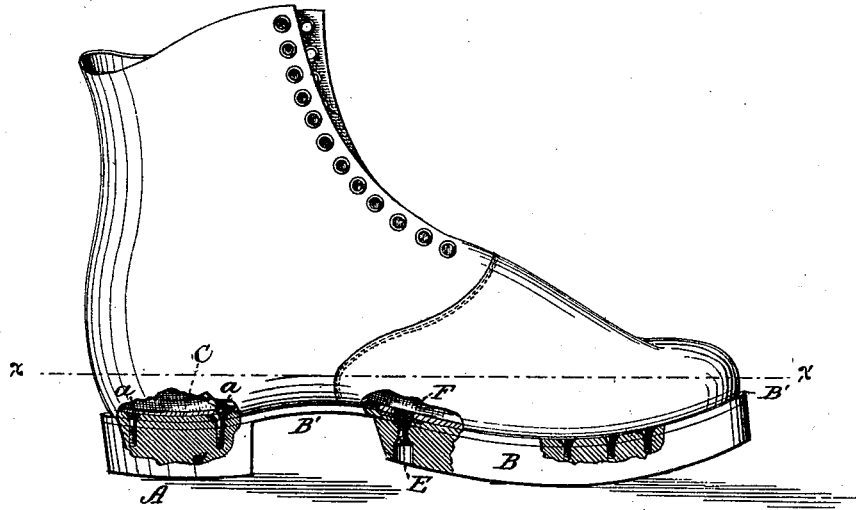
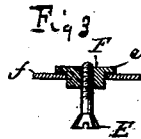
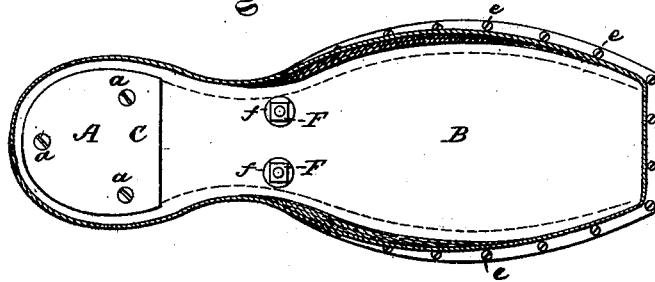


Fig. 2



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# UNITED STATES PATENT OFFICE,

DAVID J. ROGERS, OF BARDSTOWN, KENTUCKY.

## IMPROVEMENT IN BOOTS AND SHOES.

Specification forming part of Letters Patent No. **180,376**, dated July 25, 1876; application filed May 11, 1876.

*To all whom it may concern:*

Be it known that I, DAVID JAMES ROGERS, of Bardstown, in the county of Nelson and State of Kentucky, have invented a new and useful Improvement in Boots and Shoes; and I do hereby declare that the following is a full, clear, and exact description of the same.

The invention relates to an improvement in the class of wooden-soled boots and shoes; and consists in the construction and application, as hereinafter described, of nuts and metal plates, through which are inserted the screws that secure the wooden heel and sole to the leather sole.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of my invention, with portions broken away to show internal construction. Fig. 2 is a horizontal section in line *xx*, Fig. 1. Fig. 3 is a detail view.

According to my invention the boot or shoe is first made up substantially after the usual plan. The wooden heel *A* and sole *B* are then attached directly to the leather sole *B'*. The former is attached by means of screws *a*, which are inserted through a countersunk metal plate, *C*, placed upon the upper side of the sole *B'*. The heel is thereby clamped firmly to the sole *B'*, and yet adapted to be readily removed for the purpose of repair or substitution. The screws are likewise wholly concealed from view. I may in some cases dispense with plate *C* and substitute a smaller separate plate for each of the screws required to secure the heel. The wooden sole *B* is secured to the leather sole *B'* by means of small screws or nails *e*, inserted through the projecting edge of the latter, and by the larger screws *E*, which are countersunk in the face of the sole *C* contiguous to its rear edge, and, passing through the leather sole, screw into nuts *F* upon the upper side of the inner sole. Said nuts are provided with a thin top flange, *e'*, by which they are supported upon metal plates *f*. The bodies of the nuts pass through the plates *f*, which have openings of corresponding form, and are sunk into the inner

sole, so that the flanged portion *e'* and the subjacent plate *f* project but slightly above the surface of the sole. By this construction and arrangement of parts I not only secure the rear edge of the wooden sole firmly to the leather sole, by means of screws whose heads are concealed and countersunk to such depth that the sole may be nearly worn away without causing them to project beyond its surface, but I avoid materially weakening the inner sole, and also any considerable projection of the nuts above the same, by forming a shallow cavity for the body of the nuts, and by supporting the flange thereof upon the broad bearing furnished by the washer-plates, which prevents leather giving way at that point in consequence of the severe strain to which it is constantly subjected in the use of the shoe.

An insole, *G*, is applied in practice to cover the heel-plate *C* and nuts and washers *F f*, as shown.

The washers or plates *f* bear upon a sufficient portion of the surface of the insole to prevent, by friction, the nuts turning with the screws, and thus abrading or tearing the insole.

I am aware of Patent No. 65,247, and claim nothing therein shown or described.

What I claim is—

1. The combination, with the wooden heel *A*, of the countersunk heel-plate *C*, applied upon the upper side of the inner sole of the shoe, and the screws *a* entering the heel, as shown and described, for the purpose specified.

2. The nuts *F*, having flange *e* and the washers or plates *f* applied to the upper side of insole, and having a central hole conforming to the irregular body of the nut, the countersunk screws *E*, and wooden sole *B*, all combined as shown and described, to operate as specified.

D. J. ROGERS.

Witnesses:

C. A. WICKLIFFE,  
R. D. HACKLEY.