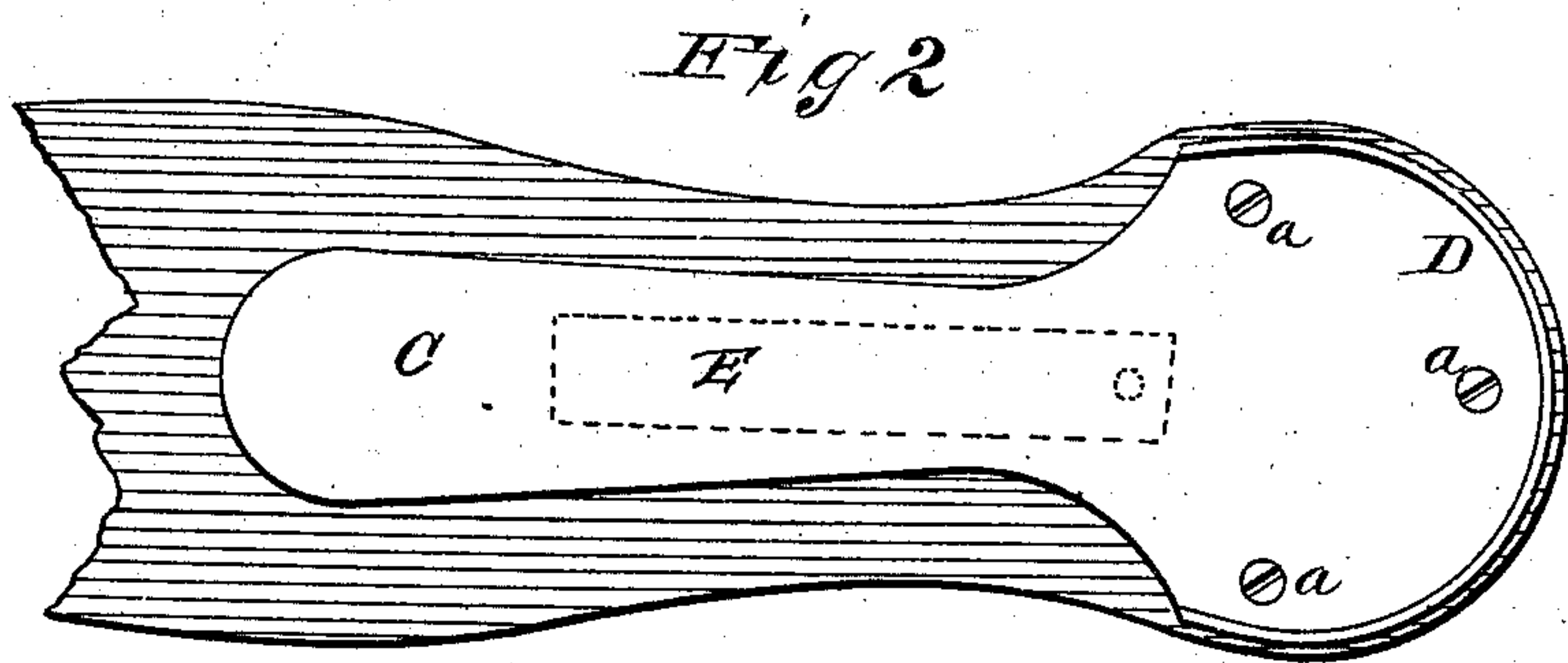
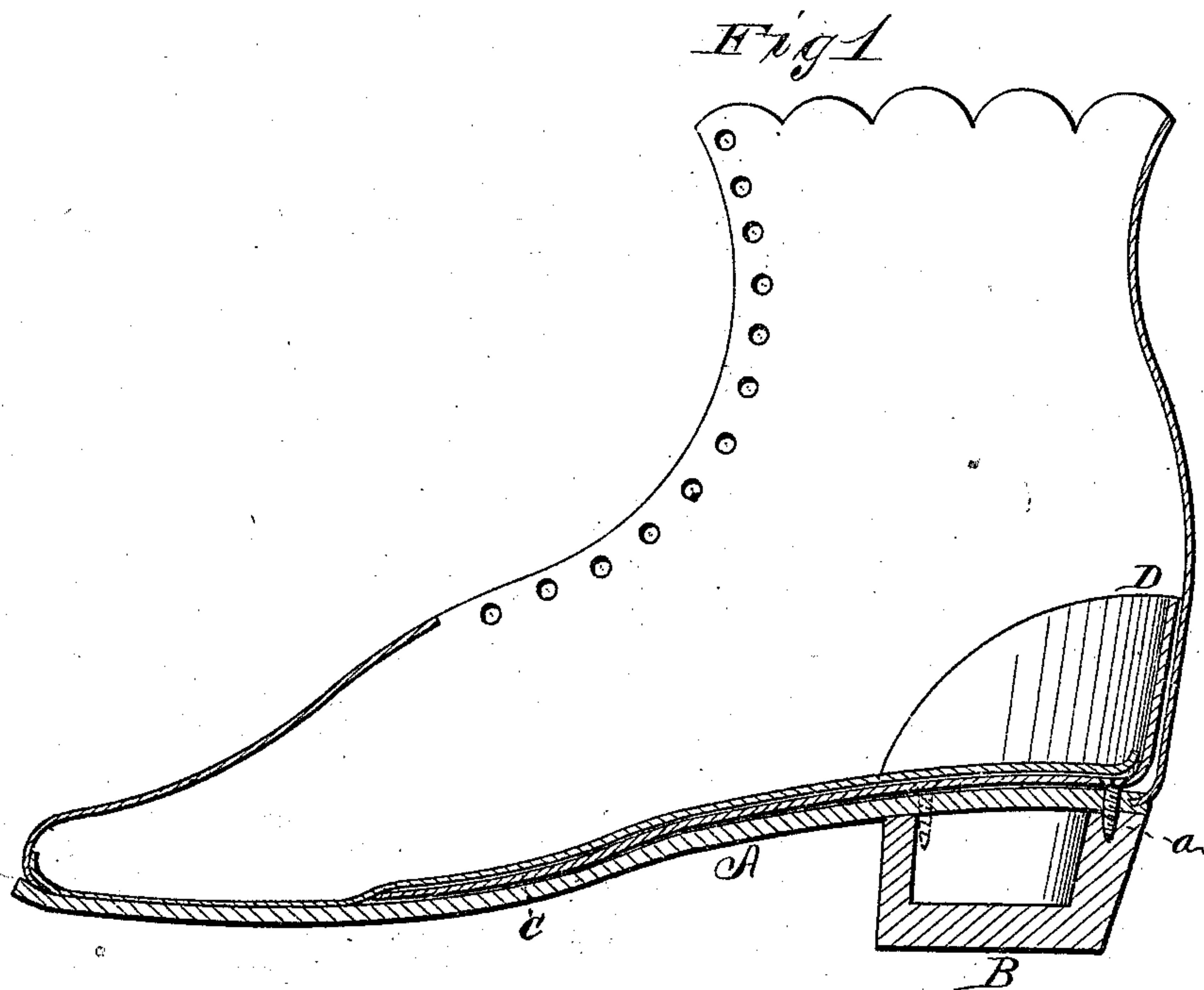


J. J. ADGATE.  
COUNTER STIFFENER AND SHANK FOR BOOTS AND SHOES.  
No. 174,174. Patented Feb. 29, 1876.



WITNESSES  
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By  
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# UNITED STATES PATENT OFFICE.

JOSEPH J. ADGATE, OF NEW YORK, N. Y.

IMPROVEMENT IN COUNTER-STIFFENERS AND SHANKS FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. 174,174, dated February 29, 1876; application filed January 31, 1876.

*To all whom it may concern:*

Be it known that I, JOSEPH J. ADGATE, of New York city, in the county of New York and in the State of New York, have invented certain new and useful Improvements in Spring-Shanks, Counter-Supports, and Shifting Heels for Boots and Shoes; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in combining in a boot or shoe a detachable heel, a counter-stiffener, and a spring-shank, connected together or formed of one piece, and connected to the heel by screws, to allow of the heel being removed at will, as will be hereinafter more fully set 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 annexed drawing, in which—

Figure 1 is a longitudinal section, showing my invention. Fig. 2 is a plan view of the same.

A represents the sole of a boot or shoe, and B is the heel thereof, said heel being made entirely separate and independent of the sole. C represents the spring-shank, and D is the heel or counter-stiffener. This shank and stiffener are made of a single piece of steel, either struck up or otherwise formed in the desired shape, and placed in the boot or shoe,

when three screws, *a*, are passed down through the heel part of the shank and through the sole A into the heel B, thus securing the latter firmly in its place.

An additional re-enforcing steel plate, E, is attached to the under part of the shank-plate C, as shown in dotted lines in Fig. 2, for the purpose of strengthening the same and to allow more spring to the shank-plate.

By my invention of making the shank and stiffener of one piece they can be manufactured at very little expense, and be easily secured in the boot or shoe, and when the boot is worn out they can be removed and used in another.

Another advantage of my invention is that the heel, while it is firmly held in place, yet can easily be removed, so that, if desired, the heels can be changed from one boot to the other when run over to one side.

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

The counter-stiffener D and spring-shank C, re-enforced by a spring, E, and adapted to be secured to the sole and heel of a boot or shoe, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 29th day of January, 1876.

JOSEPH J. ADGATE.

Witnesses:

H. A. HALL,  
J. M. MASON.