(No Model.)

H. V. DEEMAR.

RUBBER HEEL.

No. 313,291. Patented Mar. 3, 1885.

Fig. 1.

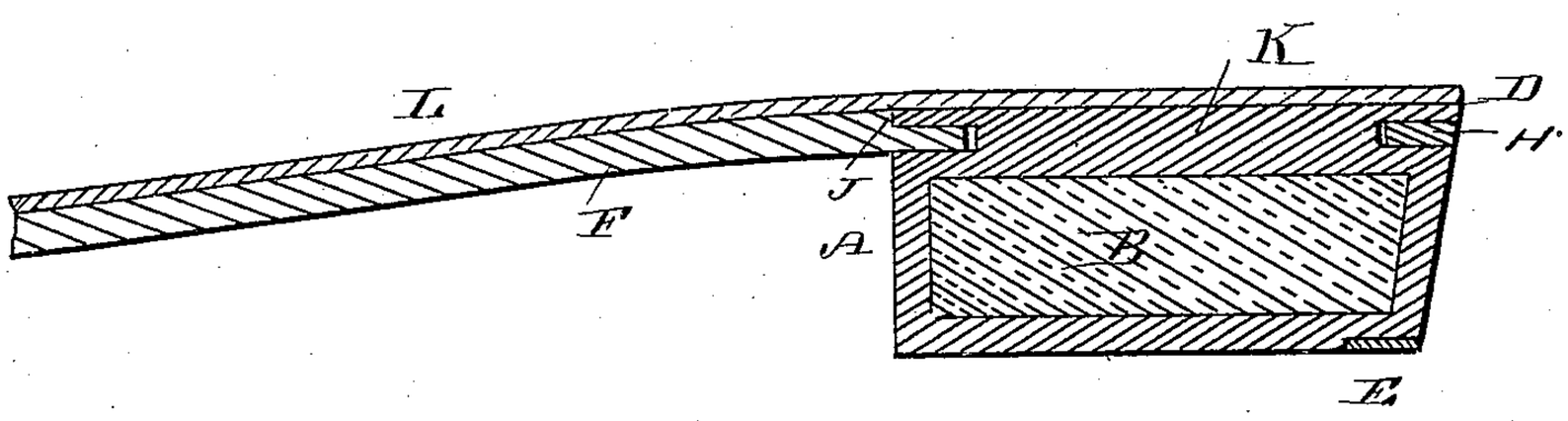


Fig. 2.

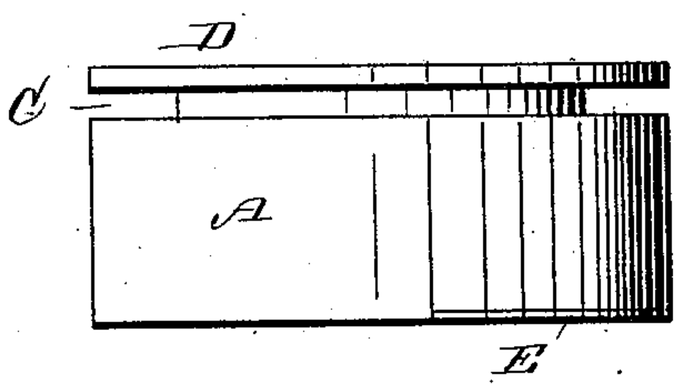


Fig. 3.

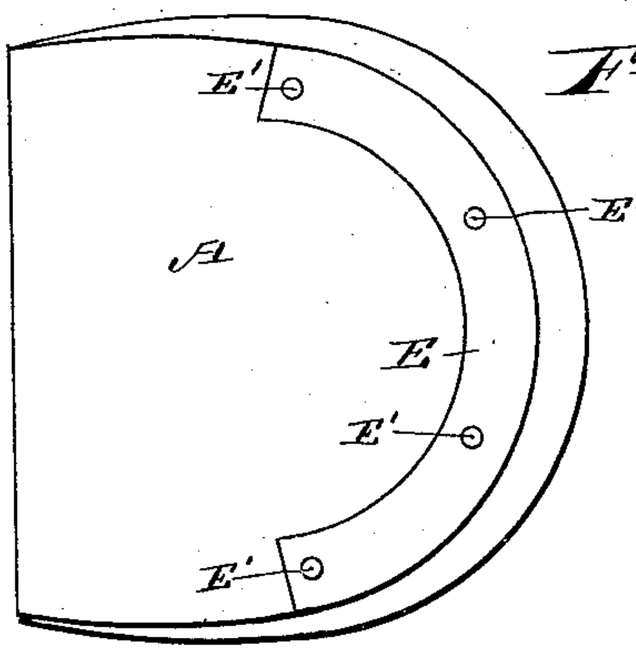
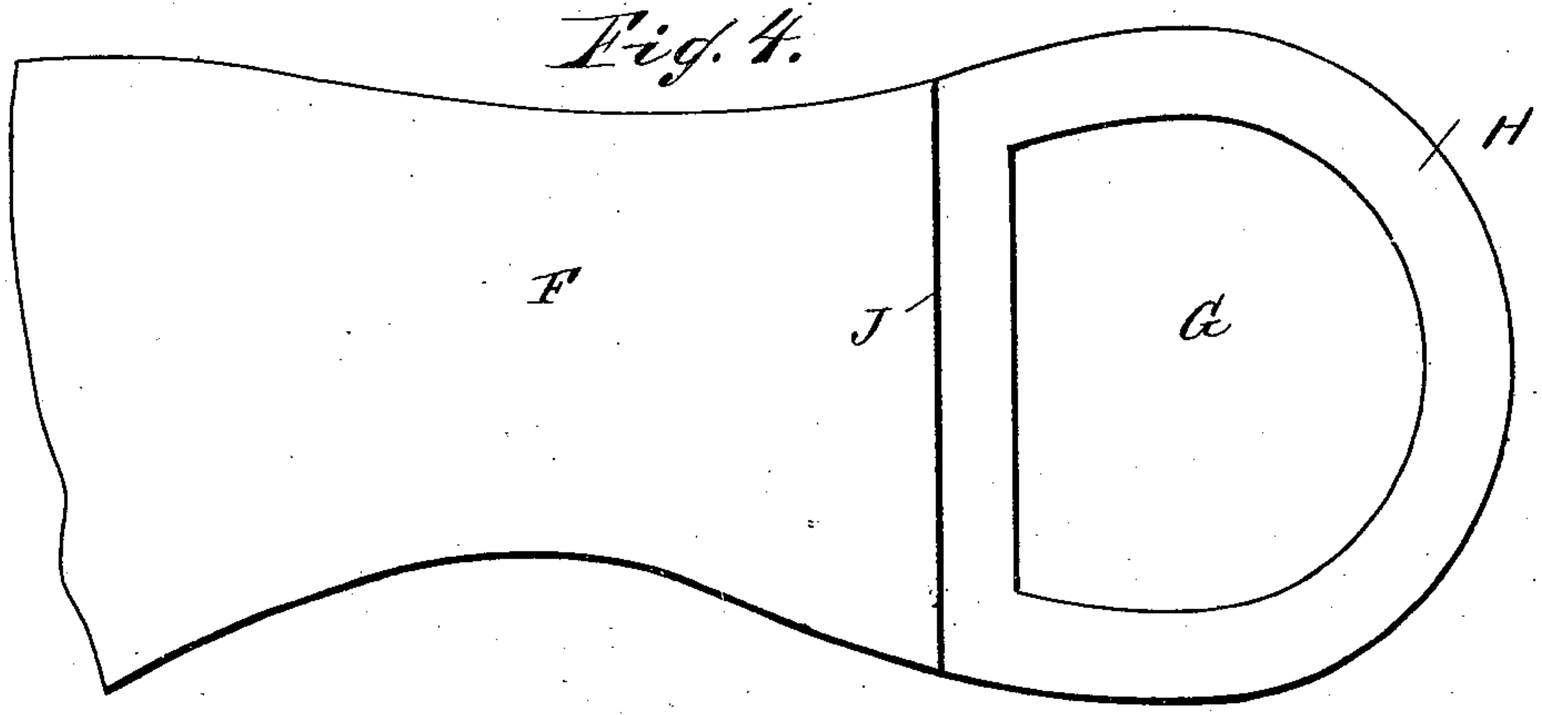


Fig. 4.



WITNESSES:

Theo. G. Hoster.

C. Sedgwick

INVENTOR:

H. V. Deemar

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY V. DEEMAR, OF ST. CHARLES, MISSOURI.

RUBBER HEEL.

SPECIFICATION forming part of Letters Patent No. 313,291, dated March 3, 1885.

Application filed August 9, 1884. (No model.)

To all whom it may concern:

Be it known that I, HENRY V. DEEMAR, of St. Charles, in the county of St. Charles and State of Missouri, have invented a new and Improved Rubber Heel, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved rubber heel for boots or shoes, which heel is very elastic and springy, strong and durable.

The invention consists in a rubber heel provided in its sides near one end with a groove, forming a tongue at the top edge, which heel is passed through an aperture in the heel part of the sole, the tongue of the heel resting on the top of the band formed in the heel part of the sole, all as hereinafter fully described, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal sectional elevation of my improved rubber heel and part of the sole. Fig. 2 is a side view of the heel detached from the shoe. Fig. 3 is a plan view of the under side of the heel. Fig. 4 is a plan view of the sole.

The heel A, made entirely of rubber or of cork, B, cloth, or other light material provided with a thick rubber coating, is provided in its upper part with a groove, C, extending around the entire heel and forming a laterally-projecting tongue, D, at the top of the heel, the said tongue being formed of soft rubber. A U-shaped or curved heel-plate, E, made of metal, hard rubber, vulcanized fiber, or pressed leather, is embedded in the bottom of the heel along the rear edge, and is firmly united with the heel during the vulcanizing process. The heel-plate E, when made of metal or compressed leather, may be provided with inwardly-projecting pins E′, if desired, to give it a better hold on the heel The heel part of the sole F has its upper surface recessed about the thickness of the tongue D, and in the heel part of the sole an aperture, G, is formed, of the same shape as the core K below the tongue D. A transverse shoulder, J, is formed at the front of the heel part, as shown.

To fasten the heel on the sole, the flange or tongue D is bent upward and passed through the aperture G in the heel part of the sole in such a manner that the curved heel-strip H passes into the groove C and surrounds the core K, the tongue D resting on the strip H. The top of the tongue D will be flush with the top of the sole, the straight front edge of the tongue D abutting against the shoulder J. Before inserting the heel rubber-cement or other cement is spread on both surfaces of the strip H and of the groove C. A strip, L, of leather or cloth, is then cemented on the sole F and the heel, as shown in Fig. 1.

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

1. The combination, with the sole F, having the aperture G in its heel portion, of the heel A, provided with the annular groove C, to receive the sole, and the tongue D, resting on the upper surface of the sole, substantially as herein shown and described.

2. The combination, with the sole F, recessed at its heel portion to form the shoulder J, and having the aperture G, of the heel A, grooved to form the tongue D, substantially as shown and described.

3. The combination, with the sole F, having an aperture, G, in its heel part, of the heel A, having a groove, C, forming a tongue, D, and the strip L, cemented on the sole and heel, substantially as herein shown and described.

HENRY V. DEEMAR.

Witnesses:
W. N. FULKERSON,
J. E. SHAW.