

W. J. B. MILLS.

Molds for Boot and Shoe Soles.

No. 126,823.

Patented May 14, 1872.

FIG. 1

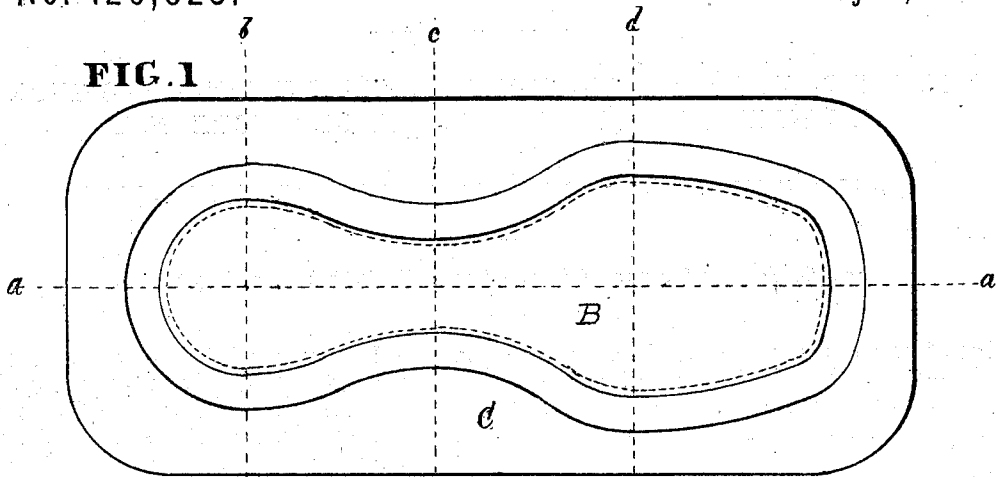


FIG. 2

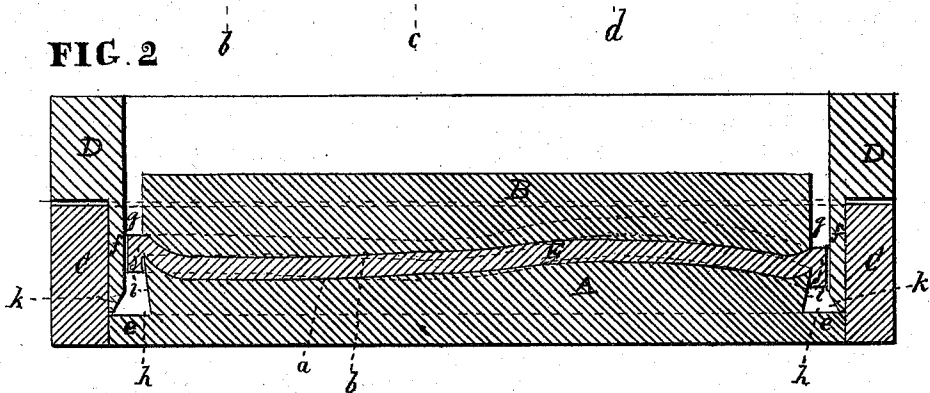


FIG. 3

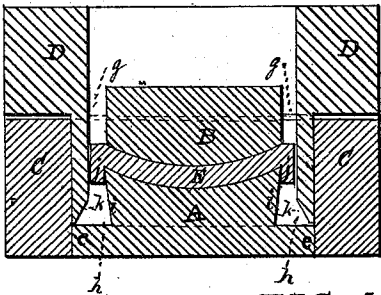


FIG. 5

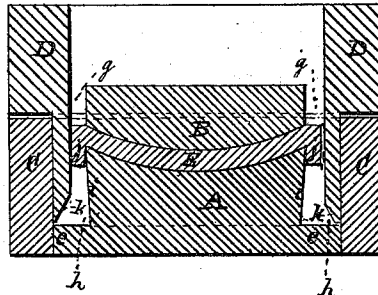
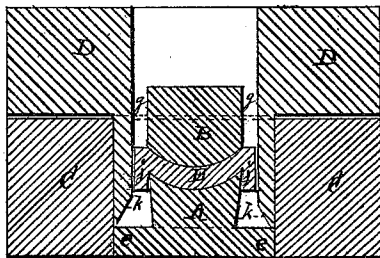


FIG. 4



WITNESSES

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN MOLDS FOR BOOT AND SHOE SOLES.

Specification forming part of Letters Patent No. 126,823, dated May 14, 1872.

Specification describing an Improvement in Shoe-Soles, and in apparatus for making the same, invented by WILLIAM J. B. MILLS, of the city of Philadelphia and State of Pennsylvania.

My invention consists of a shoe-sole, having a body shaped and condensed and a border flanged by molding, as fully described hereafter, so as to be available without the usual preliminary manipulation for immediate application to a last, and for being attached to the upper. My invention further consists of certain devices, too fully explained hereafter to need preliminary description, for molding and flanging the sole.

In the drawing, Figure 1 is a plan view of the mold for forming the shoe-sole; Fig. 2, a longitudinal section on the line *a a*, Fig. 1; and Figs. 3, 4, and 5, transverse sections of the mold and sole on the lines *b b*, *c c*, and *d d*.

A is the base and B the platen of the mold, the former being placed on the bed of any suitable press. The upper face of the base and under face of the platen are made to coincide with the desired shape of the sole. C is a guard, adapted to and entirely surrounding the base, and of such internal shape and dimensions that the edge of the sole will accurately fit into it. D is the follower, having a flange of such shape and dimensions as to exactly fit but slide freely in the guard C.

In using the above-described devices the platen B and follower D are, in the first instance, withdrawn, and the crude sole is placed

grain side downward on the base A, the edge of the sole fitting snugly within the guard C. The platen B is now forced down upon the sole so as to impart the desired shape and density to the same, and the follower D is also depressed, the flange, during its descent, forcing the projecting border of the sole downward into the space *h*, and thereby forming on the edge of the sole and entirely round the same, and at one operation, a lip or flange, which renders the sole available for being applied to a last and stitched to the upper. By this molding of the sole not only is the lower flange formed, but the body has the desired shape given to it by a pressure which imparts such density and stiffness to the leather that the usual rolling and hammering operations may be dispensed with.

I claim—

1. As a new article of manufacture and commerce, a shoe-sole having a body shaped and condensed, and a border flanged by molding, as set forth.
2. The combination of the guard C and follower D with the base A of the mold.
3. The combination of the follower D with the base A and platen B.
4. The combination of the base A, platen B, guard C, and follower D.

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Witnesses:

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