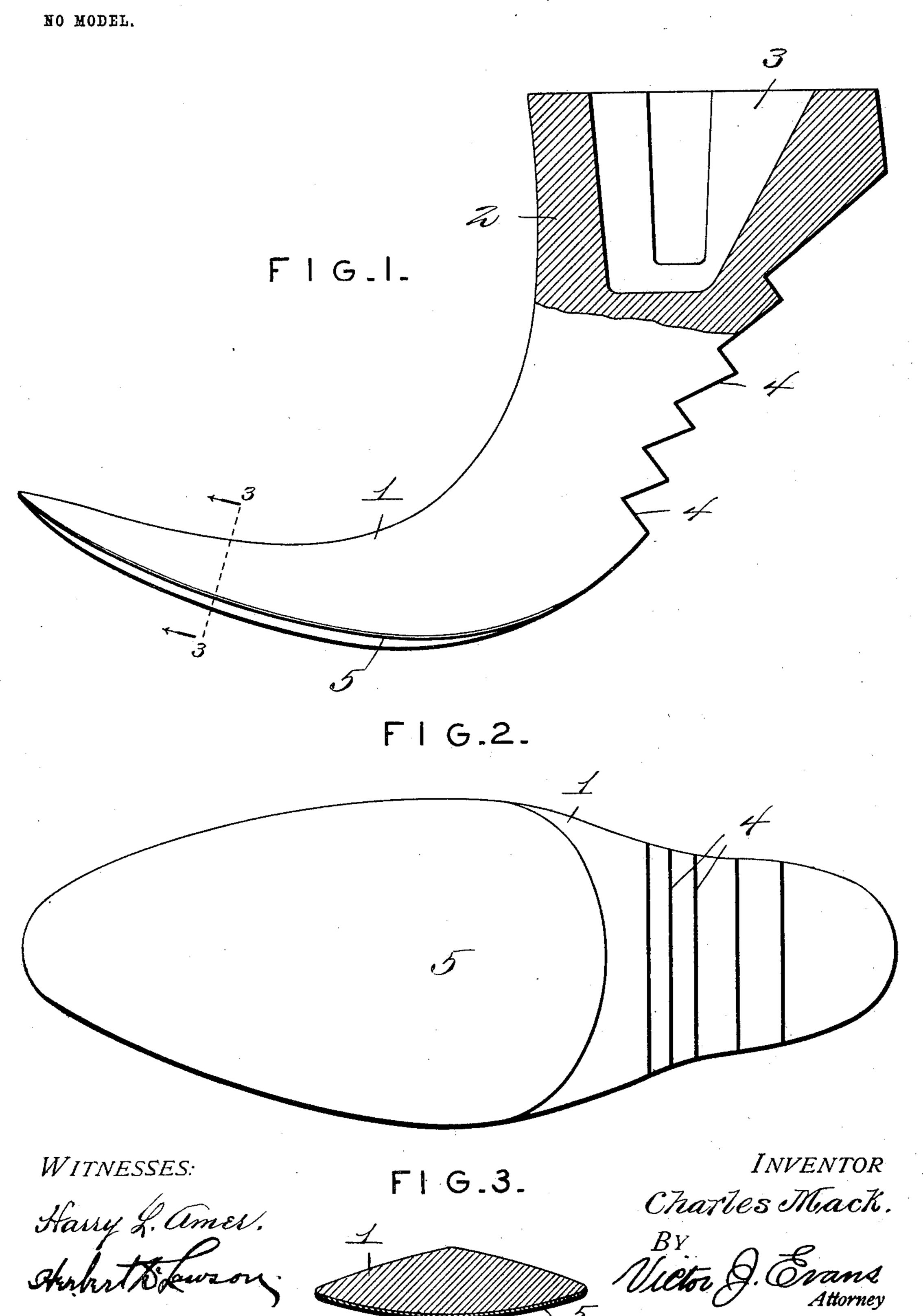
C. MACK.

LAST.

APPLICATION FILED JULY 1, 1903.



United States Patent Office.

CHARLES MACK, OF BUTTE, MONTANA, ASSIGNOR OF ONE-FOURTH TO JOHN A. JOHNSON, OF BUTTE, MONTANA.

LAST.

SPECIFICATION forming part of Letters Patent No. 756,667, dated April 5, 1904.

Application filed July 1, 1903. Serial No. 163,926. (No model.)

To all whom it may concern:

Be it known that I, Charles Mack, a citizen of the United States, residing at Butte, in the county of Silverbow and State of Mon-5 tana, have invented new and useful Improvements in Lasts, of which the following is a specification.

My invention relates to new and useful improvements in lasts especially adapted for use 10 upon shoes capable of being turned inside out.

The object of the invention is to provide a last of simple, inexpensive, and durable construction by means of which the process of 15 resoling or repairing turned shoes is simplified.

A further object is to so construct the last as to adapt it for use on shoes of various sizes, notches being provided for the reception of 20 the shoe-heels according to size.

With the above and other objects in view the invention consists in the novel construction and combinations of parts hereinafter more fully described and claimed, and illus-25 trated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a side elevation of a curved last constructed in accordance with my invention, 30 a portion thereof being shown in section. Fig. 2 is a bottom plan view; and Fig. 3 is a section on line 3 3, Fig. 1.

Referring to the figures by designating-numerals, 1 represents a last, which is dished or 35 concave for the full extent of one of its surfaces, as shown, and convex for a portion of its opposite surface, the convex surface being provided with a leather cover or shield 5. Continuing from the inner extremity of said 4° convex surface the rear surface of the neck of the last is formed with angular grooves 4, the upper wall of each succeeding one of which projects beyond the corresponding wall of the preceding groove. The upper extremity of 45 the neck of the last terminates in the usual head 2, having the recess 3 therein for the in- | for a portion of its opposite side, the remain-

troduction of either a suitable tool or the shank of a standard. By forming the angular grooves 4 in the manner stated means of adjustment are constructed in the rear part 5° of the last having a material scope without detracting from the strength of the last in a transverse direction. It is a well-known fact among shoemakers that turn-shoes when repaired or resoled are difficult to handle with 55 the old form of straight last and in some instances where a last is not used. Frequently this class of shoes had to be soaked in water or the heels removed to permit them to be properly reversed to fit over a last. Lasts have 60 also been made for repairing turn-shoes having a single recess or rabbet to receive the heel; but such lasts were found expensive in view of the fact that each size of shoe required a different last and the heels of different sizes 65 of shoes could not be practically held on the same last. To overcome these disadvantages, the present form of last has been devised and provided with a plurality of grooves 4, varying in dimensions to accommodate turn-shoes 7° of different sizes on the same last.

In use the front portion of the shoe is turned and placed over the last, the heel resting in one of the grooves 4. By providing several grooves the heels of shoes of different sizes 75 can be placed in engagement with the last. The last is preferably formed of metal, and the leather cover serves to prevent the shoe from becoming discolored by the metal.

In the foregoing description I have shown 80 the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and I therefore re- 85 serve the right to make such changes as fairly fall within the scope of my invention.

Having thus described the invention, what is claimed as new is—

A last, having a concave surface for the full 90 extent of one side thereof and a convex surface

ing portion of the convex side named being formed with a plurality of grooves in successive arrangement and varying in size, each wall of each succeeding one of which projects beyond the corresponding wall of the groove next preceding it, whereby turn-shoes of different sizes may be repaired on a single last.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES MACK.

Witnesses:

CHAS. L. SMITH, GEO. W. FARLIN, Jr.