

W. H. ROUNDS.

Lasts for Boots and Shoes.

No. 137,799.

Patented April 15, 1873.

Fig. 1.

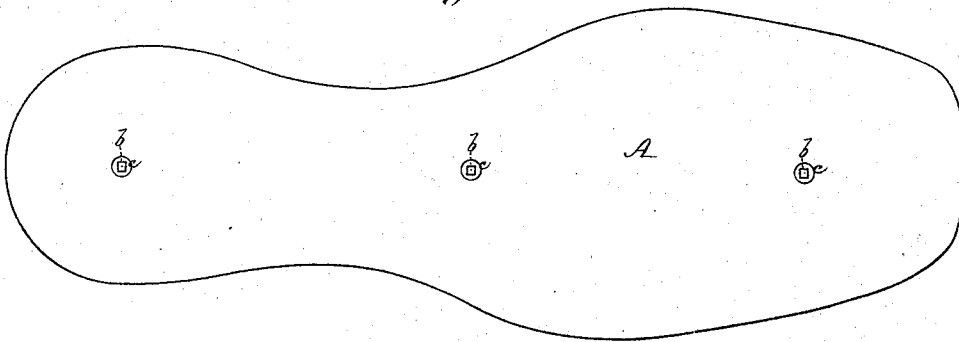


Fig. 2.

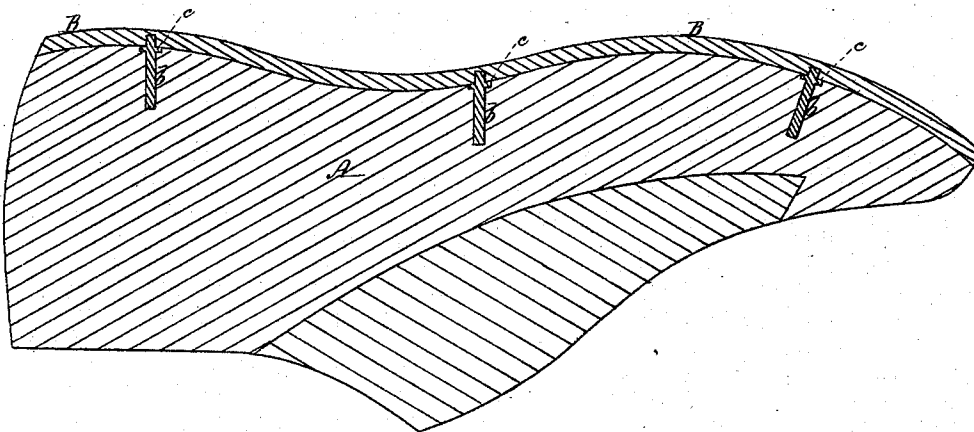


Fig. 3.



Witnesses,
P. C. Steinhilber
N. W. Stearns.

Inventor,
William H. Rounds

UNITED STATES PATENT OFFICE.

WILLIAM H. ROUNDS, OF CAMPELLO, MASSACHUSETTS.

IMPROVEMENT IN LASTS FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. **137,799**, dated April 15, 1873; application filed February 24, 1873.

To all whom it may concern:

Be it known that I, WILLIAM H. ROUNDS, of Campello, in the county of Plymouth and State of Massachusetts, have invented an Improvement in Lasts for Boots and Shoes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a plane of the bottom of a last having my improvement applied thereto. Fig. 2 is a vertical section through the center of the same, with an inner sole secured thereto by my improved device. Fig. 3 is a perspective view (enlarged) of one of the pins by which the sole is secured to the last.

In the operation of "lasting" a boot or shoe, it has heretofore been customary to temporarily fasten the inner sole to the bottom of the last by a few ordinary shoe-pegs driven through the sole into holes in the last previously made by an awl. This necessitated three distinct operations: First, the boring of the hole with the awl through the inner sole and into the bottom of the last; secondly, the picking up of the peg and inserting it into the hole so made; and, lastly, the driving of the peg, which is usually accomplished with the iron handle of the awl. These operations, frequently repeated, consumed considerable time; furthermore, the continual driving of pegs into the bottom of the last frequently causes it to split and become useless, while the portions of the bottom of the last where the pegs are driven become so crowded therewith as to render it extremely difficult to bore a hole with an awl, each peg being broken off and remaining in the last when the latter is withdrawn from the boot or shoe. My invention has for its object to overcome all of these objections, and effect a saving in time and labor; and consists in a last having its bottom provided with permanent metallic pins projecting from its surface, the inner sole being forced onto these pins by striking it with any suitable tool, whereby it is held securely in place without the necessity of driving in wooden pegs, as heretofore.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawing, A represents an ordi-

nary last, into the bottom of which are driven, at suitable points, three steel pins, *b*, which are sharpened at their lower ends to facilitate the operation of driving them, and each one is provided near its top with a projection or flange, *c*, extending entirely around it. When the pins *b* are driven in (which is accomplished by boring a hole with an awl and then forcing them down with a "set" or other suitable tool) the flanges *c* are countersunk, as seen in Fig. 2, so that their upper surfaces will lie flush with the bottom of the last, above which project the portions of the pins above the flanges *c*. These projecting portions I prefer to make square, as shown; but they may be of other form in cross-section. When it is desired to fasten the inner sole B to the bottom of the last it is merely necessary to force it down over the pins *b* by striking it with the awl-handle or other suitable tool, the projecting ends of the pins *b* being of such length that they will pass wholly or partially through the inner sole, and thus hold it securely in place, as required, whereby I am enabled to save the time heretofore required in boring the holes and picking up the pegs, as well as the cost of the latter, and also avoid all liability of splitting the last, as heretofore. The flanges or projections *c* prevent the pins *b* from being forced into the last by the operation of driving the inner sole down thereon.

It will be seen that the portion of each pin above the flange *c*, instead of being brought to a point at its upper end, is of the same size throughout, which gives it a firm hold in the leather, but admits of the sole being easily drawn off when the last is taken out of the boot or shoe.

Claim.

What I claim as my invention, and desire to secure by Letters Patent, is—

A last having its bottom provided with projecting pins *b*, constructed of the same size, above the flange *c*, and over which the inner sole is to be forced or driven, substantially as and for the purpose set forth.

Witness my hand this 20th day of February, A. D. 1873.

WILLIAM H. ROUNDS.

In presence of—

P. E. TESCHEMACHER,
N. W. STEARNS.