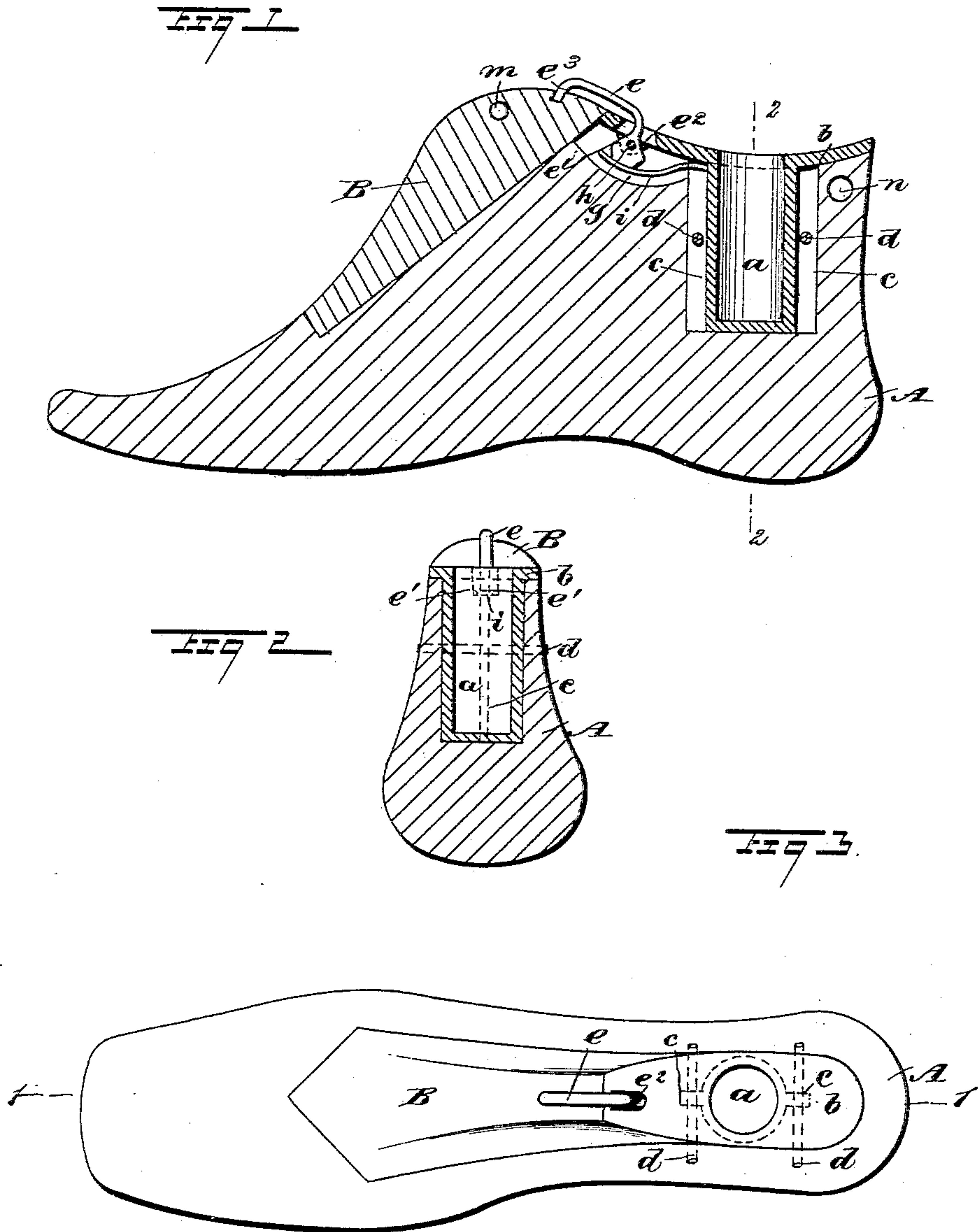


(No Model.)

J. B. CASS.  
LAST.

No. 479,628.

Patented July 26, 1892.



WITNESSES:

*H. Walker*  
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INVENTOR

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# UNITED STATES PATENT OFFICE.

JOHN B. CASS, OF BROOKLYN, NEW YORK.

## LAST.

SPECIFICATION forming part of Letters Patent No. 479,628, dated July 26, 1892.

Application filed February 25, 1892. Serial No. 422,757. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN B. CASS, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Last, of which the following is a full, clear, and exact description.

This invention relates to improvements in the construction of lasts used in the manufacture of shoes, and has for its object to provide a last that will have increased durability and which will have its instep-block detachably connected to the last-stock by novel means, whereby the last is rendered more convenient in use.

To these ends my invention consists in the construction and combination of parts, as is hereinafter described and claimed.

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

Figure 1 is a longitudinal section of the last and improvements thereon on the line 1 1 in Fig. 3. Fig. 2 is a transverse section on the line 2 2 in Fig. 1 of a complete last and attachments, and Fig. 3 is a plan view of parts shown in Fig. 1.

The last-stock A may be of any pattern. That shown is provided with a detachable instep-block B, part of the improvement consisting in novel means for retaining the stock and block in connection, as will be further mentioned.

In use it is of advantage to support the last with work on it in an inverted position upon a standard of proper height, technically known as a "jack," (not shown,) which latter is provided with a vertical pin on top that enters a socket in the comb of the last when the sole of the shoe is to be operated upon in process of manufacture or repair.

To strengthen the parts of the last at the rear, where the socket is formed, an improved socket-tube *a* is provided, that projects from the lower side of a cap-plate *b*, which is of such a curvature and contour as will adapt it to fit upon the comb of the last-stock, the tubular projection being integral with the cap-plate.

Opposite wings *c* are formed upon the ex-

terior of the socket-tube *a* at such points as will locate them in a longitudinal median line when the tube is introduced within the last-stock A, which is apertured from above to neatly fit the tube and wings. After the socket-tube *a* has been fully inserted within the last-stock A transverse pins or screws *d* are driven or screwed into perforations made through the stock and wings *c*, which will retain the cap-plate *b* in contact with the comb of the last-stock and also prevent the rear walls of the stock from spreading when the last is hammered upon. The instep-block B can be retained from lateral displacement at its lower end by any preferred means. As shown, it is cut V-shaped below and fits into a mating notch in the last-stock A, which will hold the block true if the upper end portion is properly secured to the stock.

The improved device provided to secure the last stock and block B together consists of a latch-dog *e*, that is pivoted between ears *e'* and projects through a slot *e''* in the cap-plate *b*, and the projecting portion that is forwardly bent and is furnished with a depending toe *e'''* engages said toe with a close-fitting recess in the top of the block, as shown in Fig. 1. The portion of the dog *e* which lies within a longitudinal slot *g*, formed in the comb of the last-stock A, is enlarged and flattened on the edge below the pivot *h*, so as to be adapted to receive pressure from a plate-spring *i*, that may be secured to the cap-plate, as shown, or be attached to the stock A, so as to engage its free end with the dog and cause it to interlock with the recess in the block B. When the last is within a shoe and is to be removed, the instep-block B is first released by using the ordinary last-hook to tilt the dog *e* rearward and out of the recess in and top of the block, which can then be withdrawn in the usual manner by applying the hook to the transverse hole *m*, the subsequent application of the hook to the hole *n* enabling the operator to pull the last-stock from the work it was used to support.

It is evident that the integral cap-plate *b* and socket-tube *a* may be employed in combination with lasts that are not furnished with detachable instep-blocks and strengthen them



to resist percussive strain. Hence I do not desire to limit the use of this portion of the invention to lasts having an instep-block.

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

1. In a last, the combination, with a vertically-apertured and longitudinally-slotted last-stock, of a cap-plate imposed on the comb of the last-stock, a pendent socket-tube, two longitudinally-extended wings integral therewith, a latch-dog for an instep-block, pivoted to the cap-plate, and transverse pins or screws passing through the stock and both wings, substantially as described.

2. In a last, the combination, with a stock and an instep-block thereon, of a cap-plate on the comb of the stock, a latch-dog pivoted in a slot on the cap-plate and adapted to latch

into a recess in the top of the instep-block, and a spring pressing the dog toward said recess, substantially as described.

3. In a last, the combination, with a last-stock, an instep-block thereon, and a cap-plate held on the comb of the stock by wings on a socket-tube, and pins passing through the stock and wings, of a latch-dog pivoted between depending ears and in a slot in the cap-plate and adapted to enter a recess in the top of the block, and a plate-spring secured by one end in a groove of the last-stock and pressing the heel of the latch-dog, substantially as described.

JOHN B. CASS.

Witnesses:

WM. P. PATTON,  
C. SEDGWICK.