(No Model.) 3 Sheets—Sheet 1.

M. PISANO.

JACK FOR HOLDING BOOTS OR SHOES.

No. 346,772. Patented Aug. 3, 1886.

Fig 2.

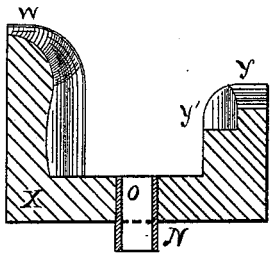


Fig 3.

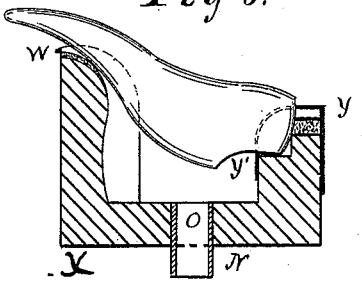


Fig 4.

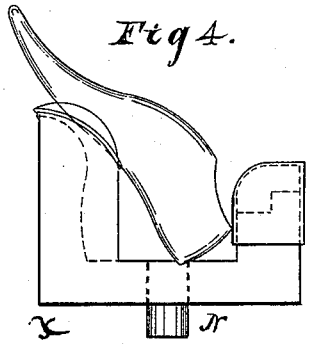


Fig 5.

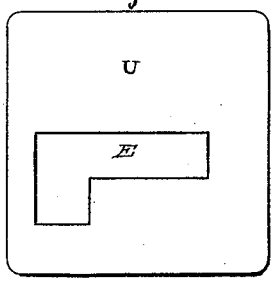
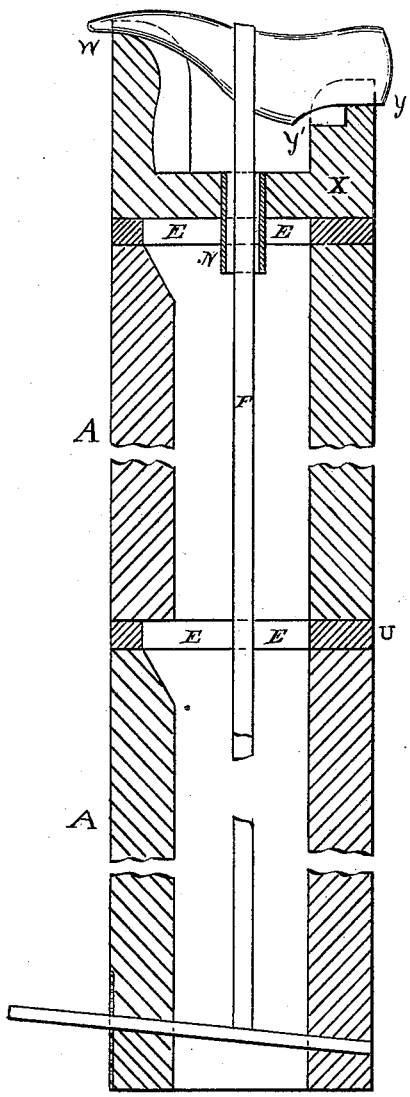


Fig 1.



WITNESSES

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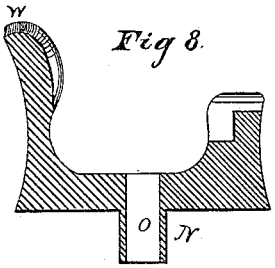

Fig 8.

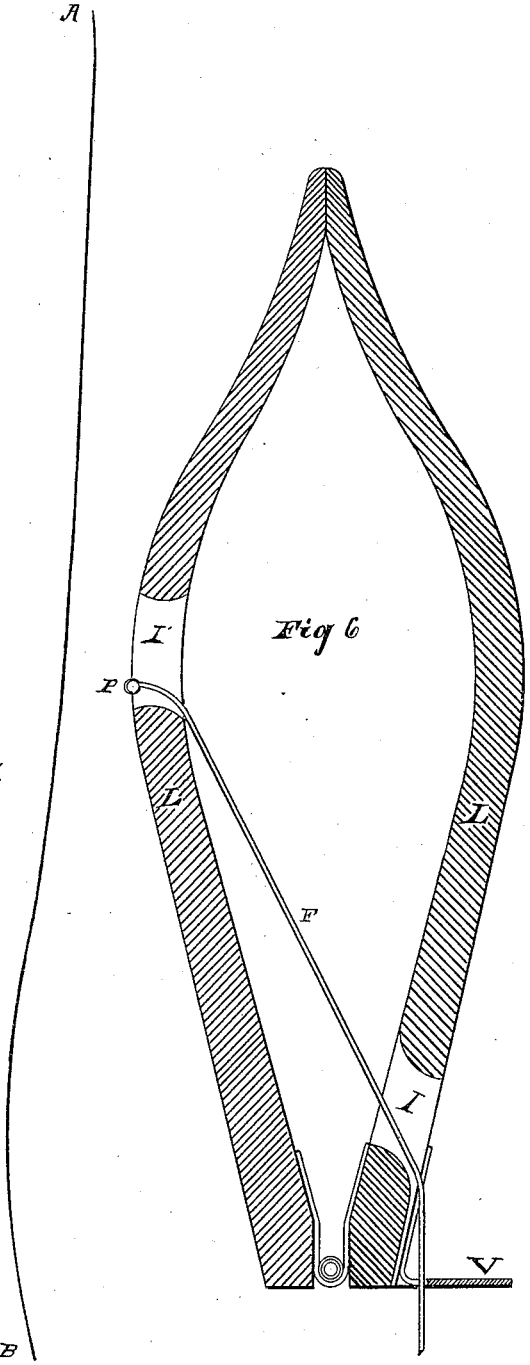

Fig 7.

Fig 6.

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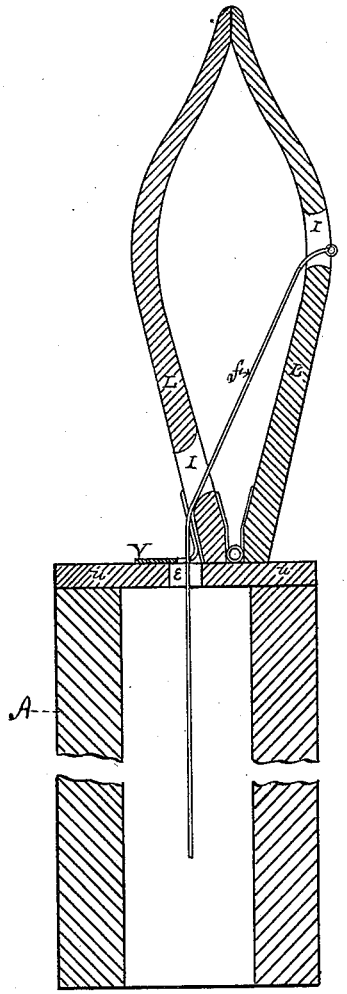
Fig 9.



WITNESSES

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UNITED STATES PATENT OFFICE.

MARTIN PISANO, OF FORT WAYNE, INDIANA, ASSIGNOR OF ONE-HALF TO SAMUEL R. ALDEN, OF SAME PLACE.

JACK FOR HOLDING BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 346,772, dated August 3, 1886.

Application filed April 7, 1886. Serial No. 198,056. (No model.)

To all whom it may concern:

Be it known that I, MARTIN PISANO, residing at Fort Wayne, in the county of Allen and State of Indiana, have invented certain new and useful Improvements in Mechanism for Holding Boots and Shoes and their Parts in the Process of Repair and Manufacture, of which the following is a specification.

My invention relates to devices for holding parts of a boot or shoe for sewing, and the lasted boot or shoe or parts thereof for sewing, pegging, and otherwise manipulating in the process of repair or manufacture; and the chief object of my invention, generally stated, is to present pieces of leather and other material and boots and shoes or their parts, when lasted, to the workman in such manner as to enable him, with the greatest ease, comfort, convenience, and rapidity, to sew, peg, and otherwise manipulate the same. I attain such object by the devices illustrated in the accompanying drawings and hereinafter described.

I use the term "last-block" herein as meaning any device having heel and toe rests rigidly united in use, whether of one or more pieces, for holding a last with boot, shoe, or parts thereof thereon in process of repair or manufacture.

Figure 1 is a vertical section of the double standard A A′, movable last-block X, and surface-plate U of standards A and A′, of wood, showing also a last in position for pegging, the fastening-band F, and a ratchet device for tightening the same, to hold the last-block X or clamp S in a given position. Fig. 2 is a vertical section of a wooden last-block, X, indicating also the depressions for toe-rest *w* and heel-rests *y* and *y′*, and showing opening *o* and hollow cylindrical projection N. Fig. 8 is the same as Fig. 2, except that the last-block is of a thickness and shape more suitable for metal, and better illustrates the necessary character of the depression for toe-rest *w*. Fig. 3 is similar to Fig. 2, and shows packing of *w* and *y* and a last in position for sewing the welt at the toe of a boot or shoe. Fig. 4 is a side view of the last-block X, showing a covering for the heel and toe rests and a last in position for sewing on the sole of a boot or shoe at the toe. Fig. 5 is a top view of the plate U, showing the opening E through the same. Fig. 6 is a vertical cross-section of the clamp S, (wooden jaws.) Fig. 7, line *a b*, is the outline of the upper edge of the jaws of clamp S. Fig. 9 is a vertical section of the upper portion of A with clamp in position for use thereon, formed by a plane at right angles to the longer branch of the opening E.

Similar letters refer to similar parts in all views.

A and A′ are duplicate standards, having a plate, U, attached to the upper end of each, and so fastened together, by hinge at the back, tenon and mortise, or other convenient device, that A′ may be turned down or readily taken off and removed from A, and of such length that A may be used alone by a sitting, and A and A′ together by a standing, workman.

Fig. 1 represents simple wooden box standards, rectangular in form, (transverse break in each;) but the material shape and size may be such as desired, provided only it carry the surface-plate U and have sufficient stability and rigidity to bear the hammering and lateral thrust to which subjected when in use, have the necessary height, and allow for the fastening-band F, and a lever and ratchet or other convenient device for tightening and holding it.

U is a plate, preferably of iron, though any hard solid material may be used, having a plane upper surface of any convenient size and area, provided it be such as to support the movable last-block X or clamp S in any position they may take thereon, while the opening through the base of each is over any part of the opening E through U.

E is an opening through the plate U wide enough to give the band F free play, and of such shape and position as to permit moving the last-block X with its projecting hollow cylinder N inserted therein to and from the workman for a few inches and to the right of such line of motion for a shorter distance as near the workman as possible. An opening having two branches at right angles, as shown in Fig. 5, with its shorter branch as near that side of the surface-plate U (next the workman,) as strength in U and support for the last-block

in all positions will admit, satisfies the necessities of the case. Five inches for the longer and three inches for the shorter branch is sufficient length.

X is a movable last-block consisting of a base having a perforation, *o*, at or near its center, with a short hollow cylinder, N, projecting downward therefrom, and two posts rising one from either end of the base, the one for a toe-rest and the other for a heel-rest, whose relative height is such as to raise the toe of a last placed thereon, as in Fig. 1, a short distance (about an inch) above the heel, and whose actual height above the base is such as to leave room between them for the top or leg of a lasted boot or shoe placed thereon, sole upward.

The concavity *y* of the heel-rest of the last-block X, made to engage the heel of a lasted boot or shoe, is not claimed as novel.

The depression or concavity *y'* of the heel-rest at the inner end of the concavity *y* is cut to engage the upper side of a last-heel, and is enough lower than the concavity *y* (about one and one-half inch) to raise the toe of a lasted shoe to the most convenient position for sewing the welt. (Shown in Fig. 3.)

The concavity *w* of the toe-rest is so cut as to engage not only the toe of a last, as in last-blocks heretofore used, but also the instep and toe in the position shown in Fig. 3 and the under side of the toe, ball, or hollow of the last when in a nearly-vertical position, with the heel resting on or near the medial line lengthwise of the base of the last-block. This end is attained by a continuous concavity, as *w* in Fig. 8, cut from the outer face of the toe-rest over the upper end and a short distance down the inside face thereof. The toe-rest need be no thicker than requisite for strength, and the concavity *w* is curved from the top to the inner face thereof.

For the general purposes in the manufacture of boots and shoes, a last-block eight inches in length having a toe-rest rising four and one-half inches above its base is sufficient, especially with a movable extra heel-rest similar to the fixed one and fitted to be attached firmly to the base of the last-block between the orifice *o* and the fixed heel-rest. The lower part of the inside face of the toe-rest must be far enough from the orifice *o* not to interfere with the heel of a lasted boot or shoe in position for sewing on the sole at the toe. The perforation *o* is of sufficient diameter for the passage through and free play in the same of the ordinary fastening-band, F, which, with the lever and ratchet device for tightening the same, as illustrated in Fig. 1, are not novel.

The last-block may be cast in a single piece of metal, or made in parts of any suitable material, put together in such manner as to have the necessary strength and rigidity, the under surface of the base being of such size and shape as to rest stably and revolve or move back and forth freely on the plate U.

The clamp, Fig. 6, is used in connection with the plate U, fastening-band F, and device for tightening the same, and consists of a fixed jaw, L, to the butt of which is attached the base V, and a movable jaw, L', hinged together at the butt. The fixed jaw L is perforated a short distance above its butt (opening I of Fig. 6) for the passage of the band F, as is also the base, and the upper or holding edges of the clamp are cut on the line of a boot-leg pattern, *a b*, of Fig. 7.

I do not claim as new the fastening-band F, device for tightening the same, the standard A nor A' without the surface-plate U, movable last-blocks generally, nor the concavity *y* of the heel-rest, nor clamps generally, nor the mode of attaching thereto the fastening-band F, but

I do claim as new and desire to secure by Letters Patent—

1. In a last-block, the concavity *w* of the toe-rest, in combination with the base provided with an orifice fitted to support the heel of a last while the forward part is engaged by such concavity, substantially as set forth.

2. In a movable last-block, the hollow cylinder N, substantially as set forth.

3. In a boot or shoe-holding device, a clamp whose jaws at the holding-edge are cut to the line of a boot-leg pattern, substantially as set forth.

4. A clamp having a fixed and a movable jaw hinged together at the butt, the base of which is attached solely to the fixed jaw, substantially as shown and described.

5. In a movable last-block, the combination, with the block provided with an orifice in the base, of a short hollow cylinder, substantially as set forth.

6. In a last-block, the combination of toe-rest having the concavity *w*, and heel-rest having the concavities *y* and *y'*, substantially as set forth.

7. In a last-block, a heel-rest having the concavity *y* and the auxiliary concavity *y'*, substantially as set forth.

8. In combination with a standard or table having a longitudinal opening in its upper surface, a movable last-block having a cylinder projecting from the under surface of its base, fitted to move back and forth and revolve in such opening, substantially as set forth.

9. In a boot or shoe holding device, a movable last-block having a cylindrical projection from its base, in combination with the surface-plate U, or its equivalent, having the L-shaped opening therethrough, substantially as set forth.

10. In a movable last-block, the following features in combination, viz: the opening *o* in its base, the short hollow cylinder N projecting downward therefrom, the concavity *w* of the toe-rest, and the auxiliary concavity *y'* of the heel-rest, substantially as shown and described.

Witnesses: MARTIN PISANO.
WILLIAM H. SHAMBOUGH,
JOHN MCCURDY,