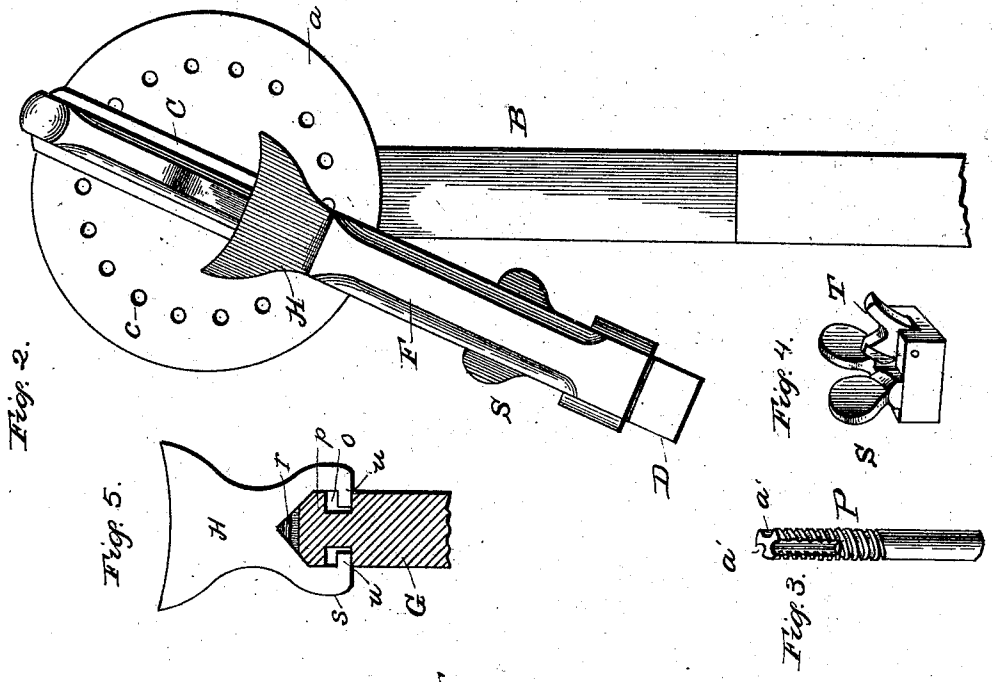
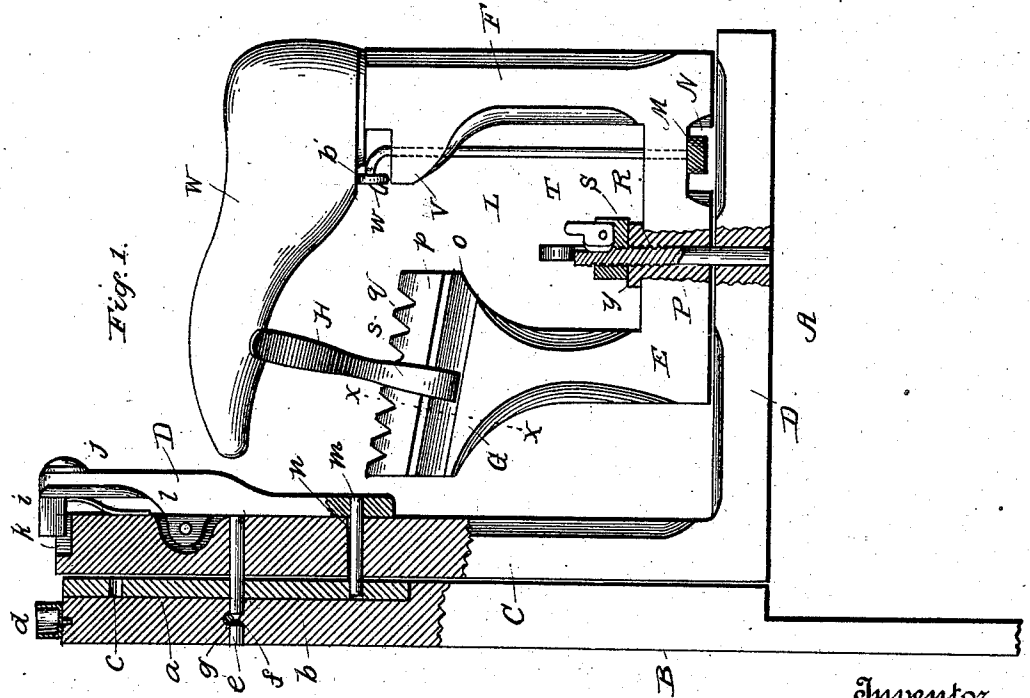
(No Model.)

O. JOHNSON.

BOOT OR SHOE MAKER'S JACK.

No. 555,866. Patented Mar. 3, 1896.





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OTTER JOHNSON, OF SANTA FÉ, TERRITORY OF NEW MEXICO.

BOOT OR SHOE MAKER'S JACK.

SPECIFICATION forming part of Letters Patent No. 555,866, dated March 3, 1896.

Application filed April 18, 1895. Serial No. 546,194. (No model.)

To all whom it may concern:

Be it known that I, OTTER JOHNSON, a citizen of the United States, residing at Santa Fé, in the county of Santa Fé and Territory of New Mexico, have invented certain new and useful Improvements in Boot or Shoe Makers' Jacks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to jacks for boot and shoe makers; and it has for its object to provide a simple, durable, and comparatively inexpensive device, whereby the last may be firmly held in place on the jack and readily adjusted to any position required by the work being done and by the use of which the operator is enabled to stand or sit while at work; and it consists of the parts and combinations of parts hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation of my improved jack, showing a last in position thereon and partly broken away to show underlying parts; Fig. 2, an end elevation with the last removed; Fig. 3, a detail perspective view of the threaded stud-bolt; Fig. 4, a similar view of the adjusting-nut; and Fig. 5, a detail sectional view on the line *x x*, Fig. 1.

Similar letters refer to similar parts throughout all the views.

A represents a stand or block, to which the jack is attached by means of screws or otherwise through the reduced end of the upright B. The upright consists, preferably, of a single bar of metal reduced on one side at its upper end, as at *a*, to receive a disk or circular plate *b* of metal, which is securely fastened thereto in any desired manner, said disk being formed with a series of perforations *c* near its periphery, as clearly shown in Fig. 2. At the top of the upright a cup or receptacle *d* is adjustably secured by means of a screw for the purpose of holding wax in a convenient position for the operator.

The jack proper consists of the arm C and the longitudinal base D cast in one piece, the arm C being pivotally secured to the upright B by a stud-shaft *e* entering a perforation in the upright, said shaft having a groove *f* formed therein, into which a pin *g*, passing through a perforation *h* in the upright at right angles to the shaft, extends to hold the shaft in position and prevent longitudinal movement thereof. On the outer face of the arm C a latch-bar D′ is attached by means of a perforated lug or ear *i*, which enters a slot in the arm and is there pivotally secured by a pin, the upper end of said bar being normally held away from the arm by a spring *j* arranged between the arm and latch-bar, as clearly shown. The arm is formed with a slot or short groove *k* at its upper end, into which a projection *l*, formed on or secured to the upper end of the latch-bar, extends, so as to guide the bar and prevent any lateral movement thereof. At the lower end of the latch-bar a pin *m* is secured, which extends through a slightly funnel-shaped or tapering perforation *n* formed in the arm and is adapted to enter the perforations *c* of the disk *b* in order to lock the arm in the position to which it has been adjusted. Thus it will be observed that the arm may be swung to or from the operator and locked in any position to which it may be turned.

On the base D is secured the last-holder, which consists of a base-bar E, provided at one end with an upright standard F, which is preferably cast therewith, of a height sufficient to receive the leg of a boot thereon and with a narrow table G at its other end, said table having an inclined groove *o* at each side and an inclined and beveled upper surface *p*, in which teeth *q* are formed to receive a wedge-shaped tooth *r* formed between the legs *s* of a last-supporting saddle H. The ends of the legs *s* are turned inwardly, as at *u*, to enter the grooves *o*, whereby when the tooth *r* is disengaged from the teeth *q* the saddle may be moved back and forth on the table to accommodate lasts of varying sizes.

The space between the inturned ends of legs *s* and the edge of the tooth *r* is sufficient to permit of the saddle being lifted up and moved along the table without interference with the teeth, but the moment it is released

it will drop on the table and its tooth *r* engage the teeth *q* and hold it in position and against further movement till again lifted up and out of engagement with the teeth *r*. (See Fig. 5.)

The standard F on which the heel of the last rests is formed with a projection *v*, through which a rod L extends, the upper end of said rod being bent to form a hook *w*, and its lower end, which extends through an opening in the base-bar E, is threaded to receive a milled nut M, whereby the rod may be moved vertically. The nut M is located in a recess N formed in the bottom of the base-bar, the sides of which are cut away so as to enable the operator to readily grasp and turn the nut when desired.

The last-holder is pivotally secured to the base D by means of a threaded stud-bolt P secured to said base, which extends through an opening R formed in the base-bar E, the upper end of which is provided (preferably in casting the bar) with a collar *y*, on which the lower side of a thumb-nut S bears. The upper end of the bolt P is formed with any desired number of grooves *a'*, into which a pawl T pivotally secured in the nut may drop or be pushed to lock the nut on the bolt after adjustment of the last-holder to the position desired by the operator.

The lasts W to be used on my improved jack are provided with an eyebolt b^6, into which the hook *w* of the rod L catches in order to hold the last in position.

From the above description it will be understood that the last-holder may be turned or swung freely, so as to bring the toe, side or heel of the last toward him, and when so adjusted may be quickly locked in position by the thumb-nut, and also that the arm C and base D may be readily adjusted on the upright B, and by means of the latch-bar and perforated disk locked in its adjusted position.

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

1. In a jack for boot and shoe makers, the combination, with the last-holder having a standard provided with a projection, the hooked rod inserted through said projection, and through the base-bar of the last-holder, and means for moving said rod vertically, of a last having an eyebolt secured thereto, whereby said last may be secured on said standard, substantially as described.

2. In a jack for boot and shoe makers, the combination, with an adjustable last-holder having a standard to support the heel of a last, a hooked rod extending from the base of said holder, and a nut for adjusting said rod, of a last having an eyebolt secured therein, and means for supporting the toe of said last, substantially as described.

3. In a jack for boot and shoe makers, the combination, of an adjustable base-support for the last-holder, a last-holder pivotally mounted on said support, means for securing the heel of the last to said holder, a toothed table, and a last-supporting saddle having legs embracing on said table and provided with a fixed pawl, between said legs whereby the toe of the last may be supported on and adjusted by said saddle, substantially as described.

4. In a jack for boot and shoe makers, the combination, of an adjustable base-support for the last-holder, a stud-screw having grooves therein, a last-holder pivotally mounted on said screw, a thumb-nut, and a pawl pivotally mounted in said thumb-nut and adapted to engage the grooves in said screw, substantially as described.

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

OTTER JOHNSON.

Witnesses:
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