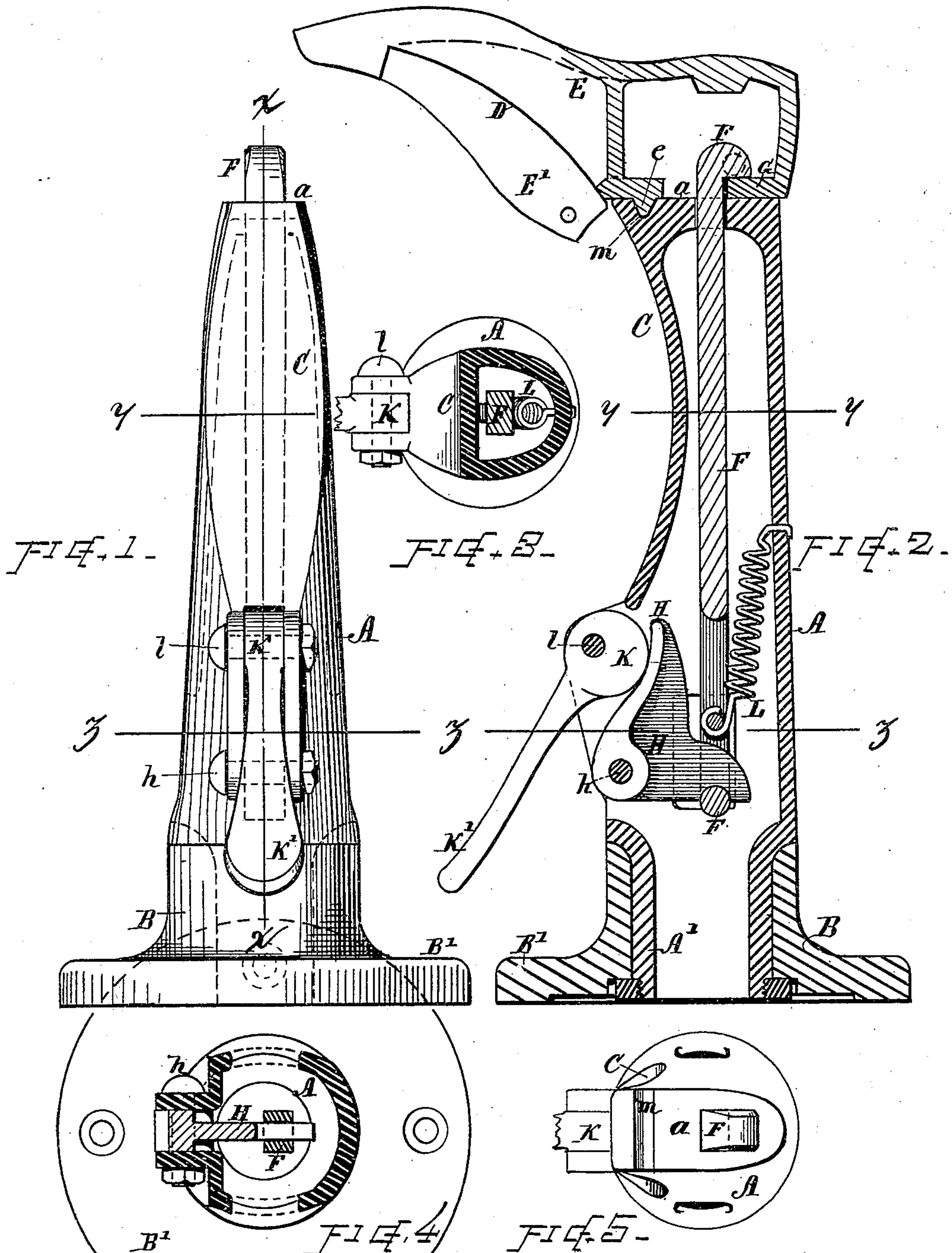


(No Model.)

S. MAWHINNY.  
JACK FOR METAL LASTS.

No. 249,651.

Patented Nov. 15, 1881.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

SAMUEL MAWHINNY, OF WORCESTER, MASSACHUSETTS.

## JACK FOR METAL LASTS.

SPECIFICATION forming part of Letters Patent No. 249,651, dated November 15, 1881.

Application filed March 7, 1881. (No model.)

*To all whom it may concern :*

Be it known that I, SAMUEL MAWHINNY, of Worcester, in the county of Worcester and State of Massachusetts, have invented certain  
5 new and useful Improvements in Jacks for Metal Lasts; and I declare the following to be a description of my said invention sufficiently full, clear, and exact to enable others skilled in the art to which it appertains to make  
10 and use the same, reference being had to the accompanying drawings, which form a part of this specification.

The objects of my present invention are to provide a serviceable jack or support for use with  
15 metal lasts and to afford facilities for the ready and convenient attachment and detachment of the last to or from the supporting-standard, with means for holding or jacking it firmly thereon. I attain these objects by mechanism  
20 constructed substantially as illustrated in the drawings and hereinafter described, the particular subject-matter claimed being definitely specified.

In the drawings, Figure 1 is a front view of  
25 my improved jack for metal lasts. Fig. 2 is a vertical sectional view at line *x x*, showing the last in position upon the standard. Fig. 3 is a transverse section of the standard at line *y y*. Fig. 4 is a transverse section at line *z z*; and  
30 Fig. 5 is a plan view, showing the top of the standard.

A denotes the standard or column, made from cast metal, formed hollow, and provided at its upper end with a flat or properly-formed seat,  
35 *a*, to receive and support the last E in the required position, as illustrated.

B denotes a base-piece, in which the lower end, A', of the column A is swiveled and supported. Said base is provided with a suitable  
40 flange, B', to permit of its being screwed down upon a bench or table. The forward side of the column A is flattened or formed with an inward curve, as at C, somewhat corresponding to the curve of the joint D between the  
45 body E of the last and the instep-block E', so as to allow space at the front of the standard for said instep-block to be drawn downward and backward, thus permitting of its removal from the boot or shoe, if desired, without de-  
50 taching the last from the jack.

F indicates a tongue or draw-bar, arranged through the interior of the column A, with its upper end projecting through and above the last-supporting seat *a*. Said upper end is so  
55 formed that it will enter the cavity of the last and lock onto the bar or offset-lug G within said cavity.

H indicates an angle-lever for operating the tongue or bar F. Said angle-lever is fulcrumed on the bolt *h* in the lower front part of the  
60 column, with its rear arm passing through and forming a connection with the slotted lower end of the tongue-rod F, while its other arm extends upward and is acted upon by the cam K of the hand-lever K', which is pivoted in  
65 the column at *l*, with its end projecting outward in such a manner that it can be swung up and down by the operator for jacking and unjacking the mechanism at will.

L indicates a spring for raising the tongue-  
70 bar F when the cam K is released.

*m* indicates a recess or depression, formed in the top of the standard or last-seat, for the reception of a flange or lug, *e*, which serves to  
75 retain the last E from slipping horizontally on the seat *a*, and also assists in properly placing the last in position on the jack.

In the operation of the jacking mechanism the movement of the tongue is up and down by the action of the spring and angle-lever.  
80 The operator places the last in position by passing its cavity over the tongue F and entering the projection *e* into the recess *m*. Then, by pressing down the cam-lever K', he actuates the tongue F, causing it to lock onto the lug  
85 G and draw the last down upon the seat *a*, where it is supported securely and firmly in position.

If desired, the tongue-bar F can be made double, or so as to take a lock or gripe at both  
90 the front and rear or at the sides of the cavity within the last; or it may be furnished with a hook to lock over a bar passed through the cavity of the last from side to side, as indicated by dotted line, Fig. 2.

The cam and lever mechanism or devices  
95 for actuating the tongue-bar may be modified in their construction and arrangement for effecting the operation of jacking a metal last to the standard in the manner substantially as  
100

shown without departing from the nature of my invention.

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

5 1. In a jack mechanism for hollow metal lasts, the combination of a support or standard provided with a last-supporting seat at its top end, a reciprocating draw-bar or tongue projecting through said seat with its end adapted  
10 to enter the cavity of and form a lock-connection with the last, and mechanism for depressing said tongue and jacking the last against said seat, as hereinbefore set forth.

15 2. The combination, substantially as hereinbefore described, of the supporting-column having the top seat or last-bearing surface provided with a recess or depression, as set forth,

the tongue or bar adapted to lock onto an offset or lug within the cavity of the last, and mechanism for depressing said tongue, for the 20 purposes stated.

3. The combination, with the standard or column swiveled in the base-piece, and having its upper end fitted to receive the last in the manner described, of the tongue-bar, the angle-lever, and the cam-lever or hand-piece, arranged for operation as and for the purposes 25 set forth.

Witness my hand this 3d day of March, A. D. 1881.

SAMUEL MAWHINNY.

Witnesses:

CHAS. H. BURLEIGH,  
S. R. BARTON.