

(No Model.)

C. T. STETSON.  
LASTING JACK.

No. 436,727.

Patented Sept. 16, 1890.

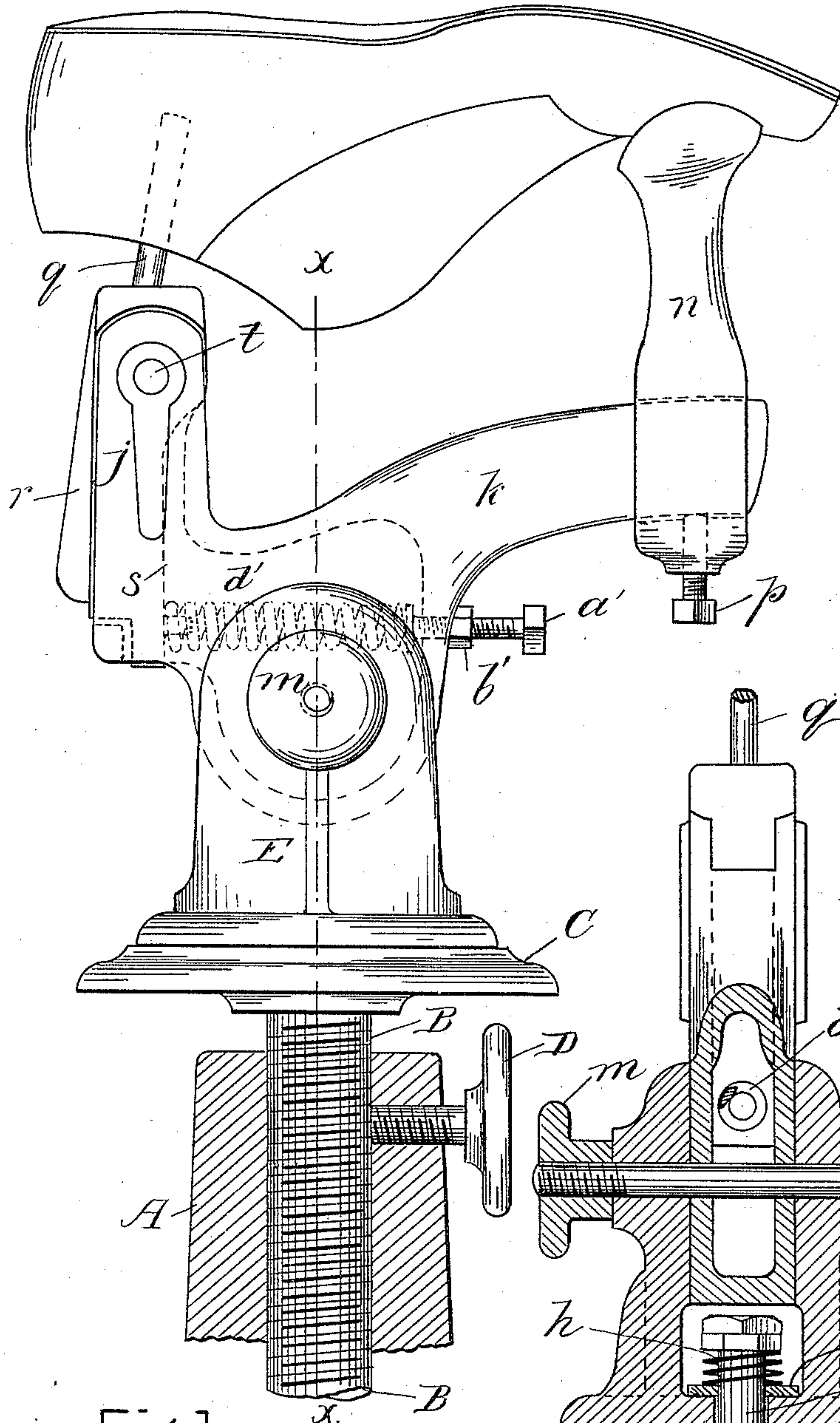


Fig. 1

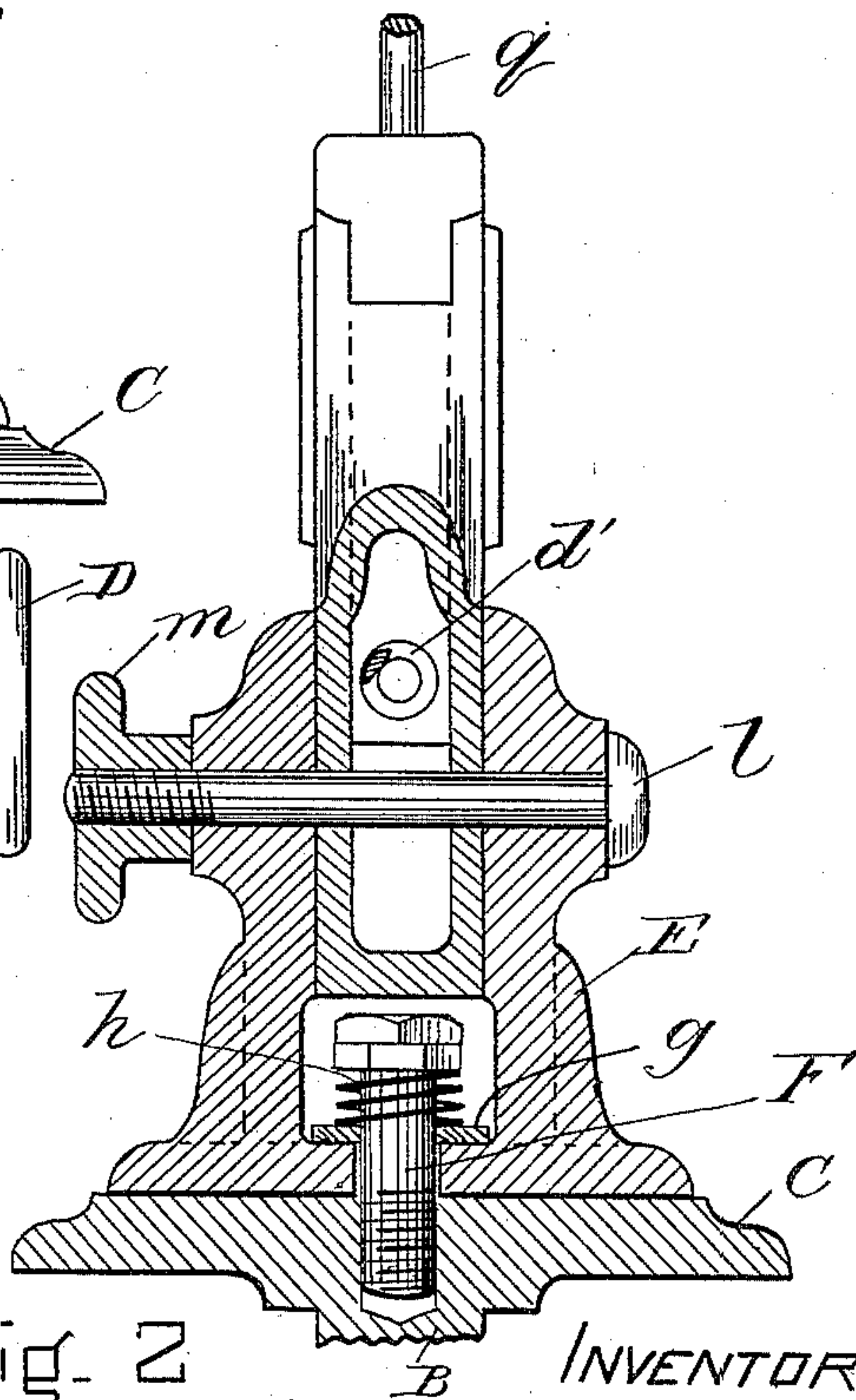


Fig. 2

WITNESSES

Robert Wallaer.  
C. E. Holte.

INVENTOR

Charles T. Stetson  
by Wm. Bellacord  
his atty



# UNITED STATES PATENT OFFICE.

CHARLES T. STETSON, OF HANOVER, ASSIGNOR TO WHITCHER & EMERY,  
OF BOSTON, MASSACHUSETTS.

## LASTING-JACK.

SPECIFICATION forming part of Letters Patent No. 436,727, dated September 16, 1890.

Application filed December 9, 1889. Serial No. 333,048. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES T. STETSON, of Hanover, county of Plymouth, State of Massachusetts, have invented certain new and useful Improvements in Lasting-Jacks, of which the following is a specification, reference being had to the drawings accompanying and forming a part hereof, in which—

Figure 1 is a side elevation of my improved jack, showing the upper part of the standard in section. Fig. 2 is a section on line *xx*, Fig. 1.

The object of my invention is the construction of a lasting-jack so mounted as to be readily adjustable vertically, and which may also be adjusted so as to present the last at any angle to the operator and clamp and hold the same firmly in whatever position it is set.

My invention will be readily understood from the following description, in which reference is made to the accompanying drawings, which show my invention as embodied in the best form now known to me, and like parts of which are designated throughout by like letters of reference.

A is the top of the standard, which may rise from the floor or from a bench of any suitable construction. This portion of the standard is preferably of metal, and has a vertical threaded aperture adapted to receive the threaded stem or shank B, which projects downwardly from a supporting-plate C, and is either integral with said plate or firmly secured thereto.

A set-screw D projects horizontally through the upper portion of the standard A and bears against the shank B, so that the shank B may be rigidly held in any given position.

On top of the plate C is mounted a frame E, which consists of a base-plate and two upwardly-projecting lugs or standards. Between these standards is set a vertical bolt F, which passes through a hole in the base of the frame E and is received in a threaded socket in the plate C. (See Fig. 2.) A washer *g* is placed on this bolt F and rests on top of the base of the frame E, and a spiral spring *h* encircles the bolt F between the head thereof and the said washer *g*. This spring *h* serves to regulate the pressure with which the frame E bears on the frame C, and the bolt F, while

it holds the frame E firmly in place, permits it to be revolved relatively to the plate C, so that the operator may turn the jack freely on the pin F as a pivot, and thus bring the toe or heel of the last next his body, as desired. 55

As the last must have a swinging movement to raise or lower the heel or toe and set the sole at any angle relatively to the bench or floor, the following means of mounting it are provided: The last is mounted on a frame 60 consisting substantially of a vertically-projecting arm *j* and a laterally-projecting arm *k*, the latter having an enlarged portion which serves to receive the pin or bolt on which the frame pivots. This frame *j k* is set between 65 the uprights of the frame E, and a pin or bolt *l* is passed through the uprights and through a hole in the boss or enlarged part of the frame. This bolt *l* is headed at one end, and at the other, outside of the frame E, is provided with a screw-nut *m*, by means of which the uprights may be sprung together to firmly clamp the frame *j k* in any given position. 70

To swing the last so as to raise or depress its toe or heel, it is only necessary to loosen the nut *m*, move the last to the desired position, and then set up the nut securely again. In this way the last is very firmly and strongly clamped. 75

A toe-rest *n* is secured by means of a set-screw *p* in any desired position on the arm *k*, the arm passing through an opening in the toe-rest. 80

The heel of the last is provided with an aperture which receives the pin *q*, which projects upwardly from the block *r*, the concealed portion of said block *r* being of the shape shown by the dotted line *s*, Fig. 1. This block is pivoted at *t*, and may be swung on that pivot slightly to adjust it to the last 85 which is used, the adjustment of the block being secured by means of the set-screw *a'*, which projects through the front portion of the arm *k* and is secured by means of a check-nut *b'*. The rear end of the set-screw *a'* is 90 headed and bears against a spiral spring *d'*, (shown in dotted lines, Fig. 1,) the other end of said spring encircling a projection on the lower end of the block *r*, as shown.

By this construction the shoe may be quickly 100



set in any position desired by the operator and firmly held, and it may be turned heel or toe toward the operator and held ready for his manipulation without necessitating his  
5 changing his position at the bench. The jack may also be raised or lowered to accommodate an operator of any height, as has been heretofore described.

What I claim is—

10 1. In a lasting-jack, the combination, with the standard A, of the plate C, supported by said standard and vertically adjustable relative thereto, the frame E, revolvably connected with said plate by a vertical pivot and pro-  
15 vided with uprights, the last-supporting frame *j k*, having an enlarged portion fitting between said uprights, the horizontal bolt *l*, which is transverse to the length of said last-supporting frame and on which the latter is  
20 pivoted so as to rock back and forth lengthwise, and the clamping set-nut *m*, for secur-

ing said last-supporting frame in different angular positions of adjustment.

2. In a lasting-jack, the combination, with the standard A, of the plate C, having screw 25 B, entering a threaded hole in said standard, the frame E, having uprights, the vertical screw or bolt F, by which said frame is revolvably or pivotally connected with said plate, the friction-spring *h* beneath the head of said 30 screw or bolt, the last-supporting frame *j k*, having an enlarged portion pivoted between said uprights, the portion *j* of said frame being provided with the pivoted block *r*, having the pin *q*, the spring *d'*, pressing against 35 the lower end of said block, and the screw *a'*, bearing against said spring and serving to adjust the pressure thereof.

CHAS. T. STETSON.

Witnesses:

WM. A. MACLEOD,  
ROBERT WALLACE.