G. A. Knowlton,

Pegging Jack.

No. 54,369 Patented May 1. 1866.

Fig. 2.

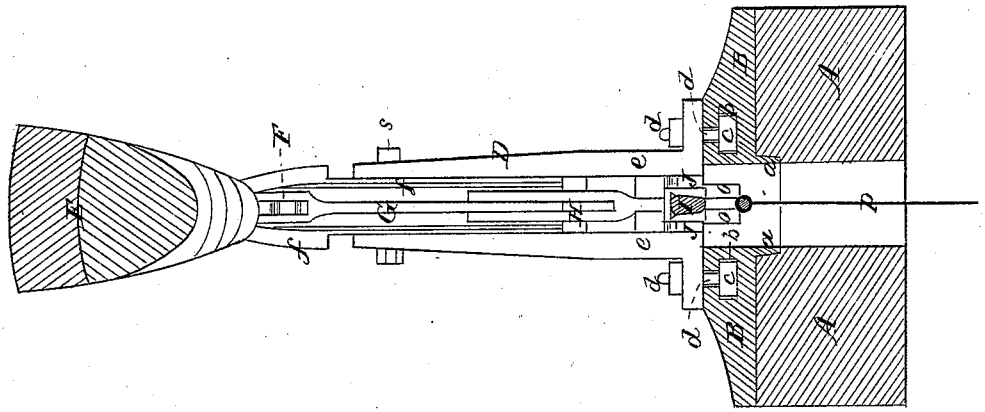


Fig. 3.

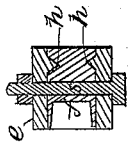
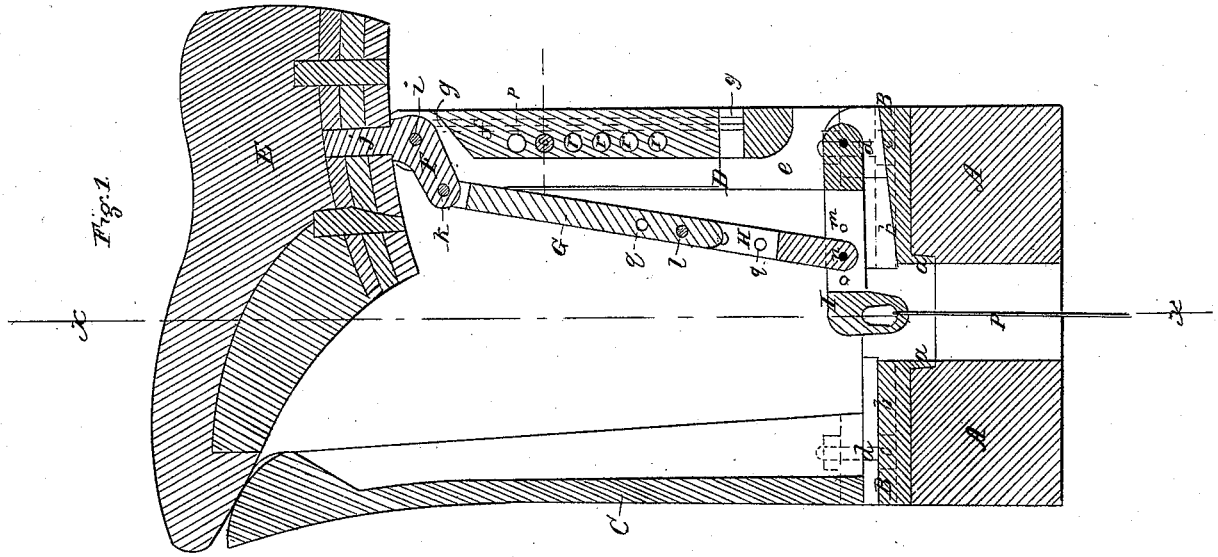


Fig. 1.



Witnesses,

P. Teschemacher

N. W. Stearns,

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UNITED STATES PATENT OFFICE.

GEORGE A. KNOWLTON, OF NATICK, MASSACHUSETTS.

IMPROVEMENT IN PEGGING-JACKS.

Specification forming part of Letters Patent No. **54,369**, dated May 1, 1866.

To all whom it may concern:

Be it known that I, GEORGE A. KNOWLTON, of Natick, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Pegging-Jacks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a central vertical section through my improved pegging-jack. Fig. 2 is a section on the line *x x* of Fig. 1; Fig. 3, detail to be referred to.

My invention consists in making the heel-standard adjustable vertically for the purpose of accommodating the varying heights of the different styles of lasts, and bringing the heel of any boot or shoe at the same relative height with the the toe, whereby the operator can work to better advantage, and the liability of straining or injuring the last is avoided; and my invention also consists in certain details to be referred to hereafter.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A is the head-block of a pegging-jack, the center of which is bored out to receive the lower or flanged portion, *a*, of a circular bed-piece, B, which is provided with grooves *b*, in which slide the heads *c* of the bolts *d*, which pass through the lower portions of the standards C D, upon which rests the last E with the boot or shoe to be pegged, the toe being supported by the standard C, while the heel is supported by the standard D. The toe-standard C is made in one piece, of the form shown in section, Fig. 1.

The heel-standard D is composed of two pieces, *e f*, the piece *e* moving horizontally to and from the center of the block A, while the piece *f* is provided with a triangular groove, *g*, and is guided vertically up and down within the piece *e* upon ways *h*. (See Fig. 3.)

Near the upper end of the piece *f* of the heel-standard D is pivoted, at *i*, the arm or lever F, which bears the spindle *j* which fits into a hole made in the heel of the last E, and by which it is supported.

G is a rod, the upper end of which is pivoted at *k* to the arm or lever F, while its lower end is pivoted at *l* to a bifurcated rod, H, the lower end of which passes into a slot, *m*, formed in the lever I, and is pivoted thereto by means of the pin *n*.

At one side of the bed-piece B rises two lugs, J, to which is pivoted the outer end of the lever I, while its inner end is bent around, as seen in Fig. 1, and moves in the circular hole formed in the bed-piece B, which is cut away at *o* to admit of the lever I being vibrated up and down by a rod or strap, *p*, for the purpose of bringing the toe of the last containing the boot or shoe snugly upon the toe-standard C during the operation of pegging.

Each of the rods G H is provided with a number of holes, *q*, so that the position of the pin by which they are connected together may be changed to lengthen or shorten the rods when it becomes necessary to raise or lower the sliding piece *f* in order to accommodate the heights of the different styles of lasts, (ordinarily termed boot, brogan, woman's and balmoral lasts,) the piece *f* being provided with a number of circular holes, *r*, so that it may be held at the desired height by means of a pin or bolt, *s*.

I make the length of the lever F, which bears the spindle *j*, shorter than has been the ordinary practice, in order that it may not come in contact with the last or leg of the boot while being pegged. I am enabled, however, to compensate for the loss of leverage thus occasioned by means of the lever I.

Oparation: The lasts with the boot or shoe to be pegged being fitted onto the spindle *j*, the standard C is brought under the toe of the last, and both standards C and D are then adjusted horizontally on the bed-piece B by means of the bolts *d* and grooves *b*, to a position for bringing the work as nearly as practicable over the center of the block A. The piece *f* of the heel-standard D is now raised and held by the pin *s* at such a height that the heel of the last is brought sufficiently below the toe of the same, in order that when the heel of the boot or shoe is secured in place the bottom of the sole and heel will be in the same horizontal plane. The strap *p* is now tightened by

the foot of the operator pressing upon a treadle, or in any other suitable manner, and the boot or shoe is ready to be pegged.

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

1. The heel-standard D, made adjustable vertically, for the purpose set forth.

2. The spindle *j*, substantially as and for the purpose described.

3. The lever I, operating substantially as and for the purpose set forth.

4. Connecting the lever F with the lever I by means of adjustable rods G H, or their equivalents, substantially as and for the purpose specified.

5. A heel-standard made adjustable vertically as well as horizontally, in combination with a toe-standard made adjustable horizontally, substantially as and for the purpose described.

GEORGE A. KNOWLTON.

Witnesses:

ASA BISHOP,

WILLIAM H. BOULTER.