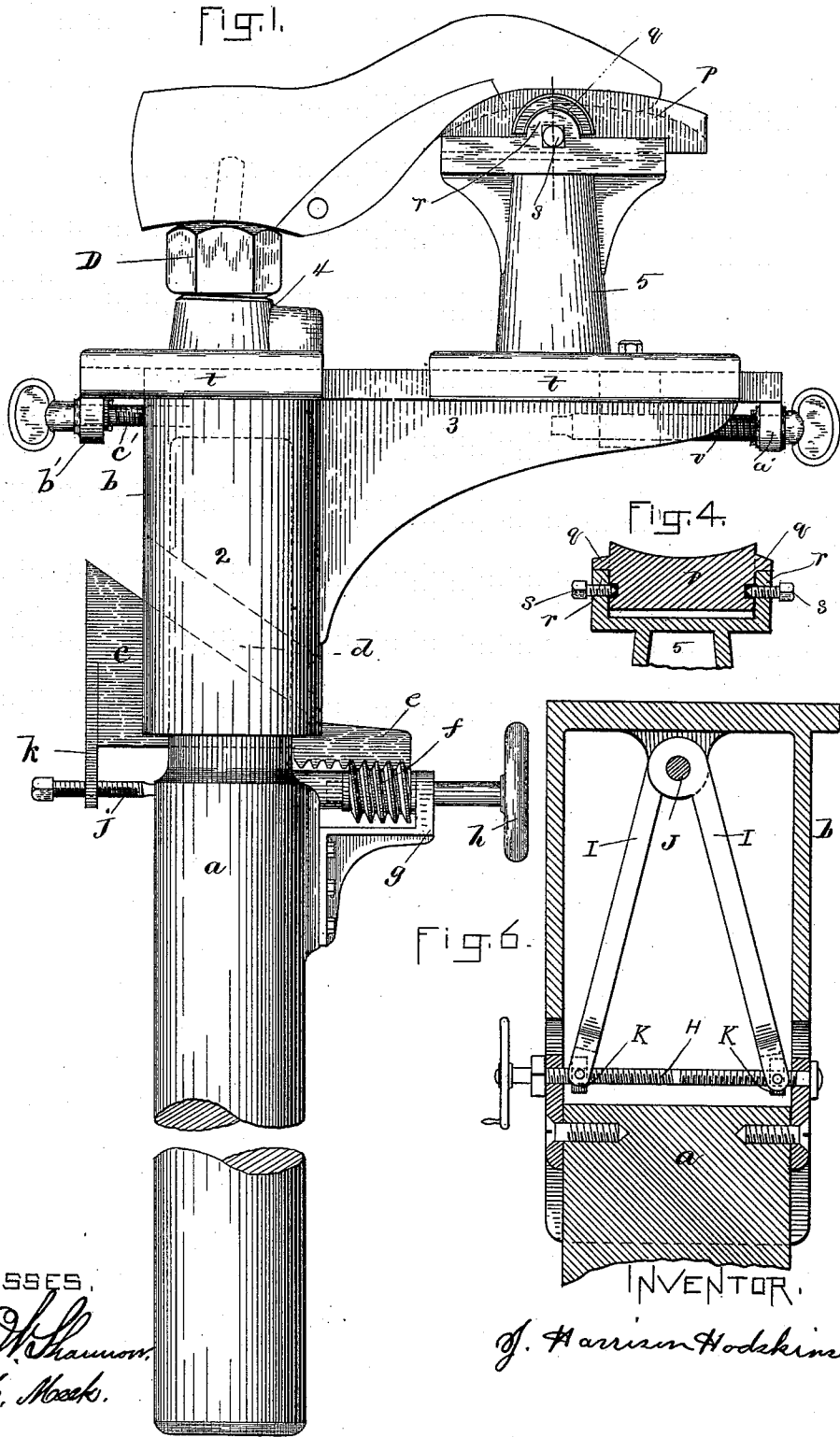


J. H. HODSKINSON.

PEGGING JACK.

No. 392,121.

Patented Oct. 30, 1888.



WITNESSES,
Edwin Shannon
Henry M. Meeks

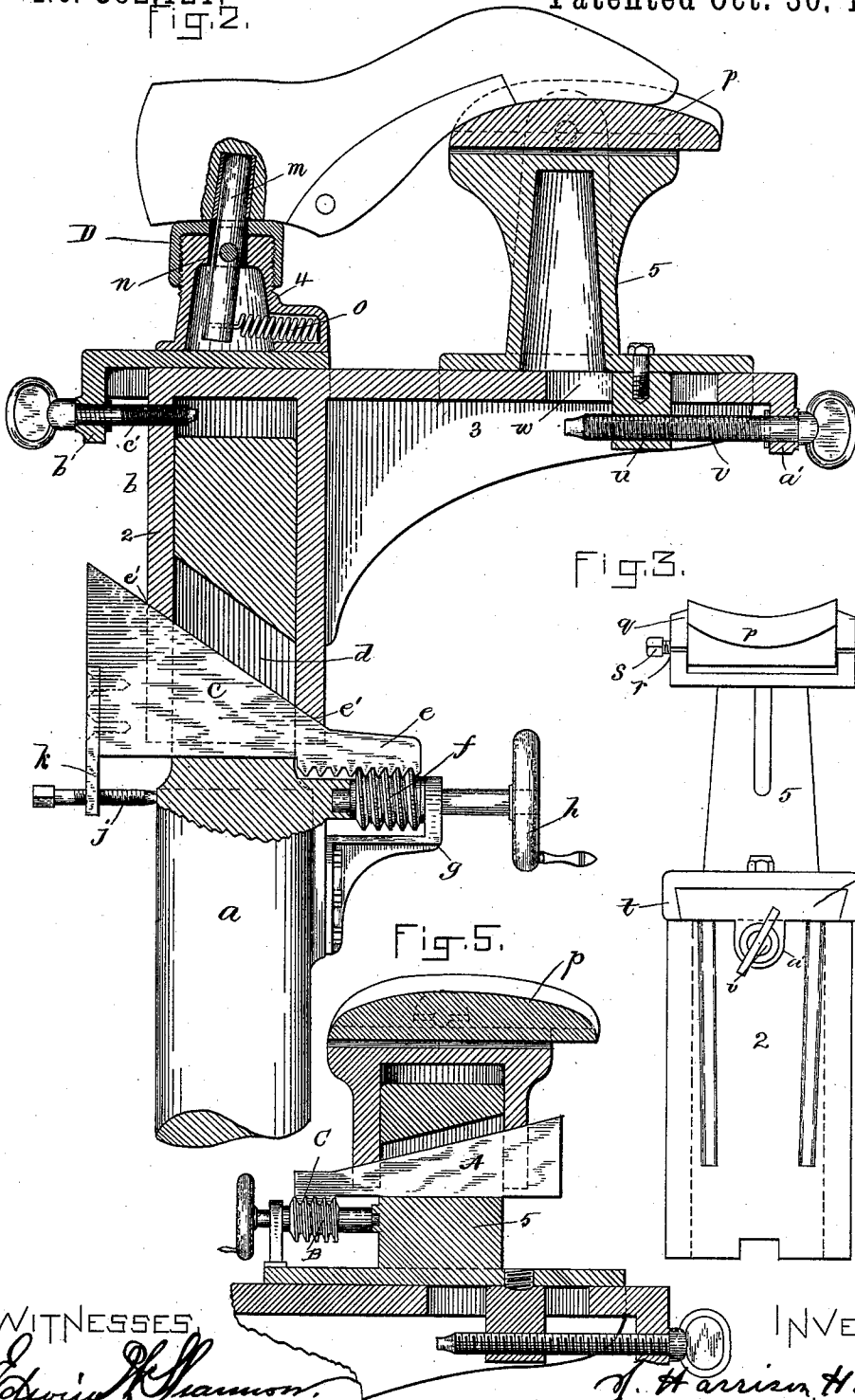
INVENTOR,
J. Harrison Hodkinson

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Fig. 2.

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UNITED STATES PATENT OFFICE.

J. HARRISON HODSKINSON, OF SALEM, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO JABEZ HODSKINSON, OF SAME PLACE.

PEGGING-JACK.

SPECIFICATION forming part of Letters Patent No. 392,121, dated October 30, 1888.

Application filed March 2, 1888. Serial No. 265,977. (No model.)

To all whom it may concern:

Be it known that I, J. HARRISON HODSKINSON, of Salem, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Jacks, of which the following is a specification.

This invention has for its object to provide an improved jack for use in sole-leveling and other machines in which it is desirable to have the last-holding portion of the jack vertically adjustable, in order that the operator may depress the last before moving it away from the sole-pressing die and raise the last to the proper height for said die to act on it after the boot or shoe is jacked.

The invention has for its object to provide improved means for adjusting the jack vertically and for holding it positively at any position to which it may be adjusted.

The invention also has for its object to provide certain improvements in the last-supporting devices of the jack and in the means for adjusting the same to lasts of different length.

To these ends my invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a side elevation of my improved jack. Fig. 2 represents a longitudinal section of the same. Fig. 3 represents an end elevation of the upper or adjustable portion. Fig. 4 represents a section on line *x x*, Fig. 1. Fig. 5 represents a sectional view of the toe-rest and its holder, with means for adjusting the latter. Fig. 6 represents a modification.

The same letters of reference indicate the same parts in all the figures.

In the drawings, *a* represents a supporting-standard which constitutes the base of the jack, and is in practice suitably mounted on the sole-leveling machine, or other machine with which the jack is used.

b represents the adjustable section of the jack, the same comprising a socket, 2, which receives and is adapted to slide upon the standard *a*, and the horizontal arm 3, on which the spindle-holder 4 and toe-rest holder 5 are adapted to slide.

c represents a wedge, which is adapted to

slide horizontally in a slot, *d*, in the standard *a*, and has a rack, *e*, formed on one of its ends, which rack engages a worm or screw journaled in bearings in the standard *a*, and in a bracket, *g*, attached thereto. Said worm is provided with a crank or handle, *h*, whereby it may be rotated to move the wedge *c* in one direction or the other. The socket *b* rests on the inclined surface of the wedge, and is adjusted vertically by movements of the wedge, as will be readily seen. Provision is thus made for readily varying the height of the last supported by the jack and for holding the same at any point to which it may be adjusted, the engagement of the worm with the rack preventing any movement of the wedge, excepting such as is caused by the rotation of the worm.

To prevent the last from being raised too high by the rotation of the worm, I provide a stop-screw, *j*, which works in a lug, *k*, on the wedge, and may be adjusted to bear on the standard *a*, as shown in Figs. 1 and 2, and thus prevent the wedge from moving in the direction required to raise the upper section of the jack beyond a given point.

The heel-engaging spindle *m* is pivoted at *n* to the holder 4, and is pressed forward by a spring, *o*, within said holder, which presses back the portion of the spindle below the pivot *n*, thus causing the spindle to automatically bind against the surface of the spindle-socket in the last.

The toe-rest *p* is formed with curved lugs or sockets *q q* on its sides, which are adapted to oscillate slightly upon curved bosses *r r* on the holder 5, so that the toe-rest can rock lengthwise of the last and conform to variations in the curvatures of the fore parts of different lasts. Screws *s*, at the center of oscillation of the toe-rest *p*, pass through the lugs *r r* and enter cavities in the sides of the toe-rest, as a means for preventing displacement of the toe-rest.

The spindle-holder 4 and toe-rest holder 5 are each provided with dovetail flanges *t t*, which engage the dovetail edges of the arm 3, and are adapted to slide thereon to vary the distance between the toe-rest and spindle, and thus adapt the jack for shorter and longer lasts.

The toe-rest holder has a central nut, *u*, which projects downwardly through a slot, *w*, in the arm 3, and is engaged by a screw, *v*, which is swiveled in an ear, *a'*, on the arm 3. The rotation of said screw moves the nut *u* and holder 5 lengthwise of the arm 3. The spindle-holder has a lug, *U'*, at one end, in which is swiveled a screw, *c'*, which engages a threaded orifice in the socket 2, and by its rotation moves the holder 4 on the arm 3 toward and from the toe-rest holder.

It will be seen that the described improvements enable the jack to be conveniently adjusted not only as to the height of its last-supporting spindle and toe-rest, but also as to the distance of said toe-rest and spindle from each other. The socket 2 of the upper section of the jack, besides resting on the wedge *c*, is engaged therewith by means of slots at *e' e'*, formed in the socket and fitting against the sides of the wedge, so that the socket is prevented from turning on the standard *a* by the wedge.

The toe-rest *p* may be made vertically adjustable by means of a wedge, *A*, operated by a screw or worm, as shown in Fig. 5, the wedge being adapted to slide in a slot in the holder 5, and provided with a worm, *B*, meshing with a rack, *C*, on the wedge, said worm being journaled in bearings on the support 5.

I prefer to provide the spindle-holder *m* with a screw-threaded sleeve, *D*, which furnishes a vertically-adjustable support for the last, said sleeve being raised and lowered by turning it on the holder 4.

In Fig. 6 I have shown as equivalents for the means above described for adjusting the section *b* of the jack a right-and-left screw, *H*, journaled in bearings in the lower section, *a*, and two levers, *I I*, pivoted at *J* to the upper section, *b*, and having nuts *K K* swiveled to its lower ends and engaged with the right-and-left screw. A rotation of said screw will cause the levers *I I* to swing toward or from each other, according to the direction of rotation, and thus raise or lower the section *b*. It will be seen that the right-and-left screw *H* is a full equivalent for the worm *f*, while the levers *I I* and their nuts are equivalents of the wedge

and rack as a means for adjusting and positively holding the section *b* of the jack.

I claim—

1. In a jack, the combination of the supporting section or standard, the wedge, means for moving and holding the wedge, the upper section supported by said wedge and provided with suitable last-supporting devices, and the adjustable stop *f*, whereby the upward motion of the upper section is limited, as set forth.

2. In a jack, the combination of the supporting-section, a wedge, *c*, fitted to a slide in a slot in said section and provided with a rack, *e*, the worm or screw *f*, supported by the standard and engaged with said rack, and the upper section supported by said wedge and provided with last-supporting devices, as set forth.

3. In a jack, the combination of the section *b*, means, as described, for vertically adjusting the same, and the toe-rest and heel-spindle supported by the section *b*, as set forth.

4. The combination of the vertically-movable section *b*, means, substantially as described, for adjusting the same vertically and holding it at any position to which it may be adjusted, and the heel-spindle and toe-rest supported by said section *b*, and the devices for adjusting said spindle and rest toward and from each other, as set forth.

5. The combination, with the vertically-movable section *b*, and means, as described, for adjusting and holding the same, of the holders 4 5, mounted to slide on the section *b*, the spring-pressed spindle *m*, pivoted to the holder 4, the toe-rest supported by the holder 5, and the operating-screws, whereby said holders may be adjusted and held, as set forth.

6. In a jack, the combination, with a toe-rest, of the spindle-holder 4 and a vertically-adjustable collar, *D*, on said holder, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 27th day of February, 1888.

J. HARRISON HODSKINSON.

Witnesses:

EDWIN W. SHANNON,
HENRY M. MEEK.