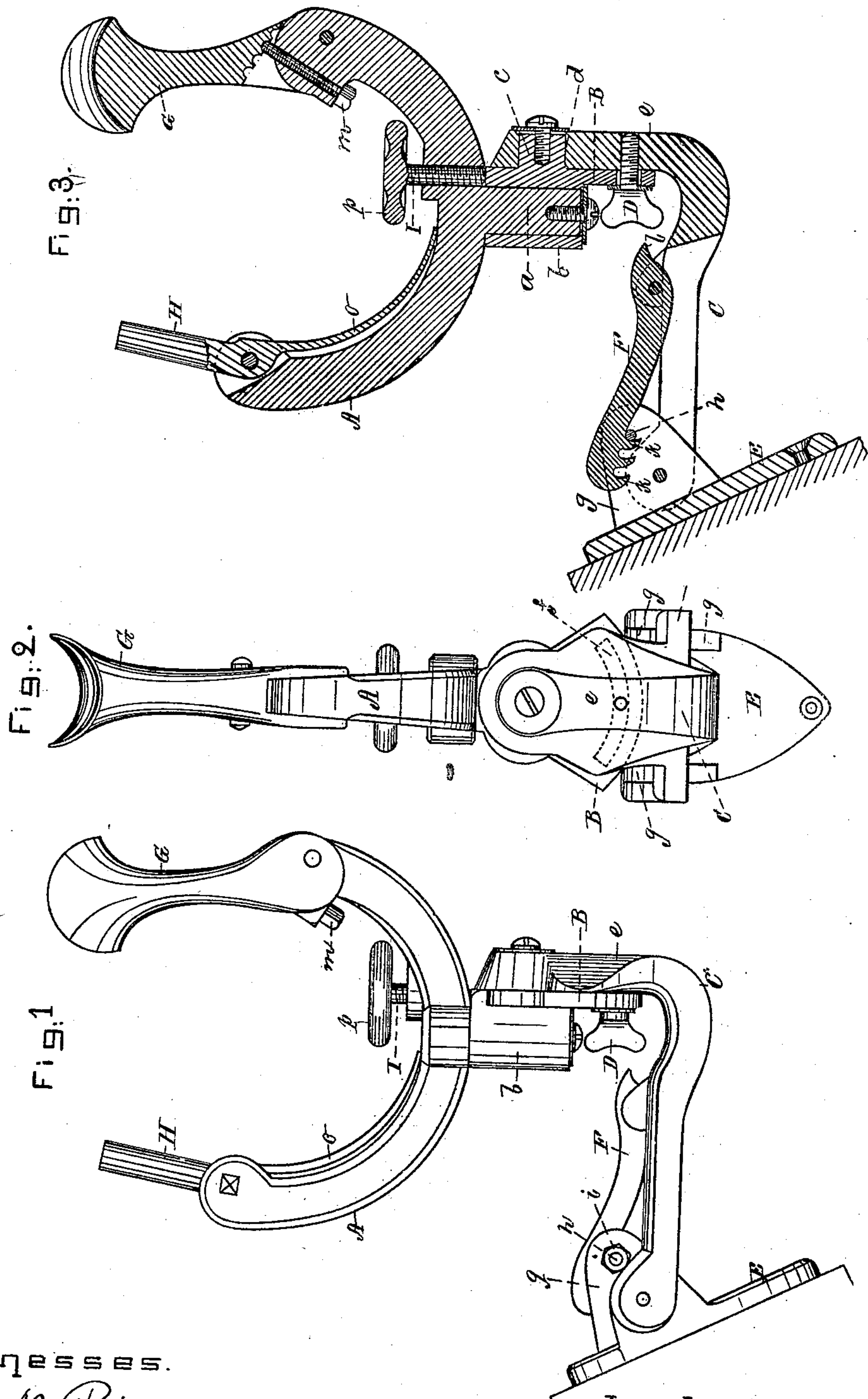


(No Model.)

G. W. HUTCHINS.
SHOE MAKER'S JACK.

No. 254,482.

Patented Mar. 7, 1882.



Witnesses.

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UNITED STATES PATENT OFFICE.

GEORGE W. HUTCHINS, OF DOVER, NEW HAMPSHIRE.

SHOE-MAKER'S JACK.

SPECIFICATION forming part of Letters Patent No. 254,482, dated March 7, 1882.

Application filed January 23, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. HUTCHINS, of Dover, of the county of Strafford, of the State of New Hampshire, have invented a new and useful Improvement in Shoe-Makers' Jacks; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a side elevation, Fig. 2 a front end view, and Fig. 3 a longitudinal and vertical section, of a jack embracing my invention, the nature of which is duly set forth in the claims hereinafter presented.

In such drawings, A denotes the inverted-arched body of the jack, such body at its lower part being provided with a journal, *a*, to enter a bearing or box, *b*, projecting from a slotted sector, B. From such sector a pivot or journal, *c*, extends horizontally into a bearing, *d*, in the upright part *e* of a bent arm, C. A clamp-screw, D, goes through the curved slot *f* of the sector and screws into the said part *e*, such screw being adapted to clamp the sector to the part *e*. The arm C is bifurcated at or near the ends of the prongs, being hinged to a base, E, so as to be capable of being turned from a vertical into a horizontal, or somewhat beyond a horizontal, position relatively to the said base when the latter is fastened to the side of a bench. From the base two standards, *g g*, project, as shown, a screw-bolt, *h*, provided with a nut, *i*, being arranged in such standards, as represented.

Instead of the cross-bolt arranged in and so as to be removable from the standards, there may be attached to them a stationary catch or connection for the catch-leg to hook upon; but it is better to have the bolt either screwed into one of the standards or into a nut, as shown. Furthermore, there is hinged to the bent arm a catch-leg, F, provided, as shown, with a series of hooks or catches, *k*, and also with a back stop, *l*, the latter being to limit the upward movement of the said leg, which it does by abutting against the arm when the latter is in a raised position or turned upward, so that the leg F may be resting at its outer end on the base. By raising the bent arm and hooking the catch-leg on the bolt *h*, such arm will be

supported in an inclined position by such leg and bolt.

To one end of the body A is hinged the toe-rest G, there being screwed upward into the body A from its inner curved side and against the toe-rest a screw, *m*. The head of the screw is at the inner curved side of the body, and thus, when a last carrying a shoe is upon the the jack, the screw-head, by being on the inner curved side of the body A, is rendered not liable, to the inconvenience of the shoe-maker, to catch the thread used in sewing the shoe, as it would be likely to do were it (the said screw-head) to project from the outer curved surface of the body. The screw serves to hold the toe-rest in position relatively to the body A.

The heel-spindle (shown at H) is fulcrumed or hinged to the body, and there extends from the lower part of the spindle a curved spring or elastic arm, *o*, which, arranged within the segment of the body in manner as shown, extends underneath the head *p* of a screw, I, screwed into the body A. By means of the said screw I and the spring or elastic arm *o* the spindle may be moved so as to force the last, when the spindle is in it, down upon the toe-rest.

With this improved jack the body may be revolved or turned around, or be tipped laterally either way, relatively to the bent arm, and by means of such bent arm the body may be turned upward into various inclined positions, and be held in either of them by the catch-leg and the cross-bolt.

As sometimes in the use of the jack it may be desirable to quickly depress the bent arm from its highest to its lowest position, the catch or screw bolt is removable from the standards, for when it is not in them the leg F cannot catch upon it, so as to obstruct the downward movement of the bent arm from one extreme position to the other, the said leg serving to sustain the arm when raised, in which case the end of the leg will rest upon the base, the back stop, *l*, being against the arm and serving to support the leg at an acute angle to the arm.

By having the spindle-spring and its adjusting-screw arranged within the segment of the arched body A in manner as represented the

thread used in sewing a shoe, when such shoe may be in a last sustained by the jack, becomes liable to be caught in either the spring or screw.

What I claim as my invention is as follows,

5 viz:

1. In the described jack, the combination of the inverted-arched body A, and the heel-spindle H, fulcrumed thereto, with the elastic arm or curved spring o, extending down from such
10 spindle and within the segment of said body in manner as represented, and with the adjusting-screw I, having its head p arranged within the said segment and projected over the spring, all being substantially as set forth.

15 2. The toe-rest clamp-screw m, arranged so that its head shall be on or project from the inner side of the arched body A, in manner substantially as shown and described, while the end of the shank of the screw may be against
20 the lower part of the toe-rest, as represented.

3. The combination of the base E, its standards g g, and their connecting catch or bolt h

with the bent arm C, hinged to such base, and with the leg F, having the catches k and back stop, l, and hinged to the bent arm, all being
25 substantially as set forth.

4. The slotted sector B, its clamp-screw D, pivot c, and journal-bearing b, in combination with the bent arm C, and with the arched body A and its journal a, all arranged as specified
30 and represented.

5. The combination of the base E, having the standards g g, and cross catch or bolt, h, with the bent arm C and catch-leg F, and with the adjustable sector B and its clamp-screw
35 D, pivot c, and journal-bearing b, and the inverted-arched body A, provided with last-supporting devices and applied to such bearing, substantially as described.

GEORGE W. HUTCHINS.

Witnesses:

R. H. EDDY,
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