

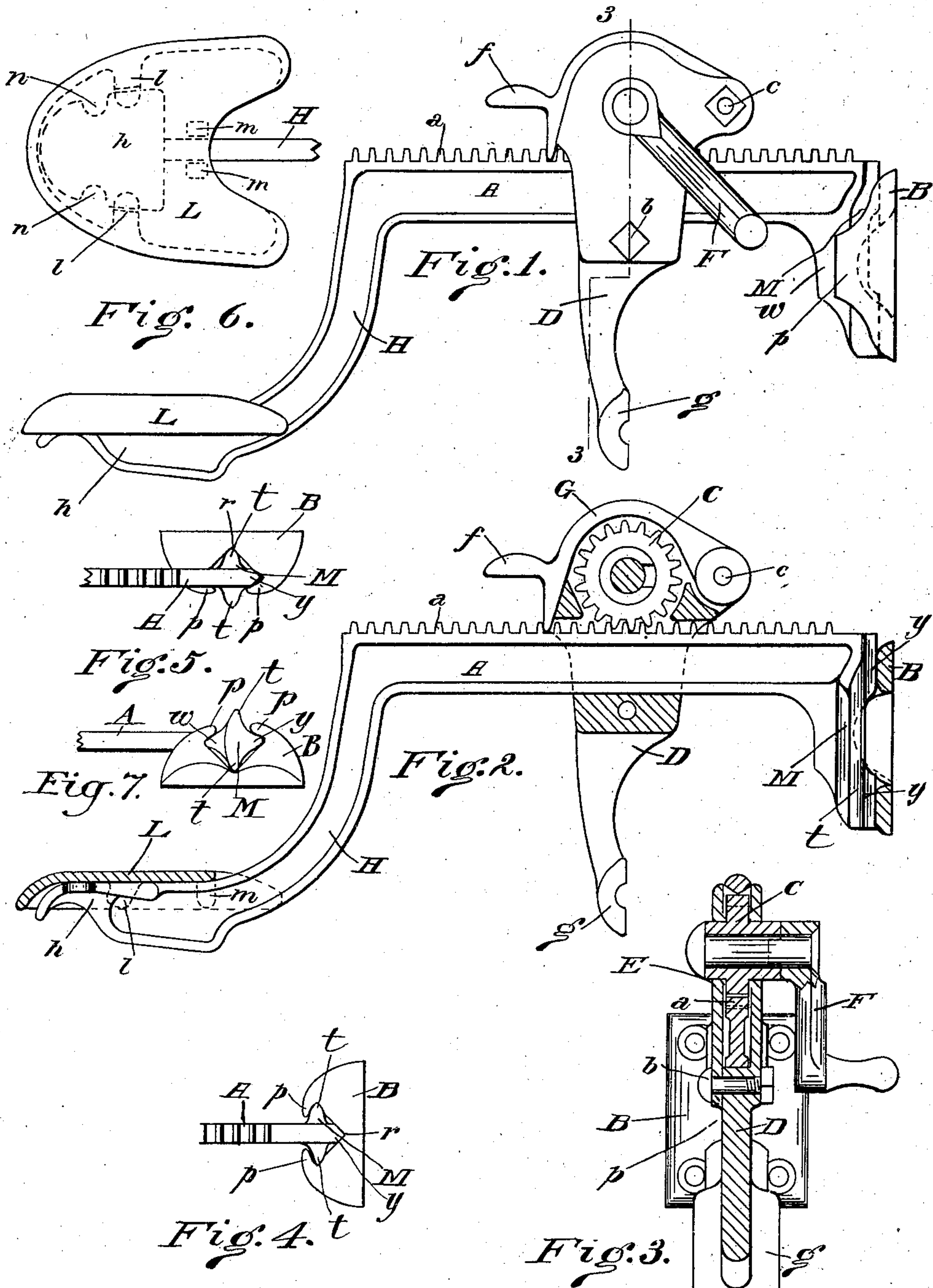
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PATENTED AUG. 25, 1903.

R. D. TITTLE.
SHOE JACK.

APPLICATION FILED JUNE 23, 1902.

NO MODEL.



Witnesses
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SHOE-JACK.

SPECIFICATION forming part of Letters Patent No. 737,174, dated August 25, 1903.

Application filed June 23, 1902. Serial No. 112,839. (No model.)

To all whom it may concern:

Be it known that I, REUBEN D. TITTLE, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Shoe-Jacks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My improvements relate to devices for holding shoes for convenience in shining and polishing, and the purpose of the invention is to obtain a durable, cheap, and effective holder for the shoes which can be readily and easily adjusted for securing in position any-sized shoe, whether for men, women, or children, and which can be readily and easily thrown back out of the way when not in use.

The invention consists of a certain novel construction and operation of parts to be hereinafter particularly pointed out and claimed.

In the drawings, Figure 1 is a side elevation of my improved shoe-jack. Fig. 2 is a similar view, partly in longitudinal section. Fig. 3 is a cross-section on the lines 3 3 of Fig. 1. Fig. 4 is a top view of the plate for securing the jack to the wall or other support with the inner end of the arm in open position. Fig. 5 is a similar view with the arm parallel with the support. Fig. 6 is a top view of the toe-piece. Fig. 7 is a bottom view of the plate for securing the jack to the wall with the inner end of the arm parallel with the support.

A is the main arm for the device, supported by the plate B, which is secured to the wall or other support at a suitable height for the user in the manner to be hereinafter described, the arm extending out when in use at right angles to said support. The upper edge of this main arm A is provided with rack-teeth *a*, with which the gear or pinion C engages. This pinion is mounted in the upper end of the adjustable heel-piece D, which is formed to embrace and slide upon the main arm A. A shoulder or offset is formed in the heel-piece at the lower edge of the main arm, so that the plate D extends up above the main arm and is of a shape to cover the pinion C on one side, while a cap-plate E, bolted to plate D by bolts *b* and *c*, covers the pinion on

the other side. The pinion is turned by hand-crank F to carry the heel-plate D forward or back on the main arm.

G is a pawl pivoted at *c* to the plate D, the outer end of the pawl engaging the rack-teeth *a* and the pawl being provided with a finger *f*, so that it can be easily raised. The lower end of the heel-piece D is provided with a head *g* of suitable shape to fit into the heel of the shoe.

The outer portion of the main arm A is provided with a downwardly and outwardly curved extension H, ending with a head *h*, upon which the toe-piece L is mounted. These toe-pieces are furnished of several sizes to conform to a certain extent to the various-sized shoes to be secured on the jack, although the method of securing the toe-piece enables a very few sizes of toe-pieces to adapt themselves to every size of shoe. The upper surface of the toe-piece is shaped to conform to the top of the shoe, while the under portion is concave and provided with two inwardly-projecting lugs *ll* on the opposite sides near the front with two downwardly-projecting lugs *m m* at the rear. The head *h* is provided with notches *n n* and the toe-piece is secured to the head by slipping the lugs *ll* through the notches *n n* and then pushing the lugs under the edge of the head at the same time that the lugs *m m* embrace the sides of the arm H. The toe of the shoe is placed over the toe-piece and the heel-piece D into the heel, and the hand-crank F is then turned to exert a tension between the heel and toe of the shoe, and the shoe is thus held firmly to the jack, the pawl G preventing the heel-piece from slipping.

To release the shoe, the operator raises the pawl G, and the heel-piece is free to slide inward. It thus takes but a moment to secure or remove the shoe from the jack. A turn of the hand-crank fastens the shoe. The release of the pawl frees it from the jack.

For securing the jack to the wall I provide the wall-plate B, secured to the wall by screws. The middle portion of this plate is hollow and provided with front wings *p p*, which approach each other, so that when viewed from the top a diamond-shaped opening is pre-

sented, while from the front a narrow slot is formed by the wings at the middle of the front of the plate.

The main arm A is provided at its inner end with a downwardly-projecting arm M, which for its attaching portion is substantially cross-shaped in cross-section with side portions *t t* and front and rear portions *w y*. The end M is inserted down through the diamond-shaped opening in the plate B, and the wings *p p* of the plate grasp and hold the side portions *t t* of the arm, while the rear portion *y* engages in the depression *r* in the plate B, so that the jack is held rigidly in a position at right angles to the supporting-surface, as shown in Fig. 4.

When the shoe-jack is not in use, the arm M is merely lifted from the plate B and inserted with the main arm A, parallel to the wall, as shown in Figs. 5 and 7, in which position the wings *p p* of the plate B grasp the front and rear portions *w y* of the arm, while the side portion *t* rests in the depression *r* of the plate B. To lighten the metal of the casting, the lower end of the front portion *w* and the middle portion of the rear portion *y* is cut away, as shown in the drawings.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a shoe-jack, a main arm, with rack-teeth thereon, a slidable heel-piece mounted on said arm, and a pinion mounted on said heel-piece engaging said rack-teeth, with a pawl for holding said heel-piece in position, substantially as shown and described. 35

2. In a shoe-jack, a main arm, with rack-teeth thereon, a slidable heel-piece mounted on said arm, a pinion mounted on said heel-piece engaging said rack-teeth, a hand-crank for rotating said pinion, with a pawl carried by said heel-piece to engage the rack-teeth and hold the heel-piece in position, substantially as shown and described. 40 45

3. In a shoe-jack, a main arm with a flattened head at its outer end, a removable toe-piece carrying lugs to embrace the side edges of the head and a slidable heel-piece mounted on the main arm with means for adjusting same, substantially as shown and described. 50

4. In a shoe-jack, a main arm, with a head at its outer end flattened horizontally with neck for same, flattened vertically and a removable toe-piece carrying two sets of lugs, one pair to embrace the side edges of the head and the other pair engaging the neck, substantially as shown and described. 55

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