

No. 677,550.

Patented July 2, 1901.

W. C. MEYER.

JACK FOR HOLDING BOOTS OR SHOES.

(Application filed Apr. 17, 1900.)

(No Model.)

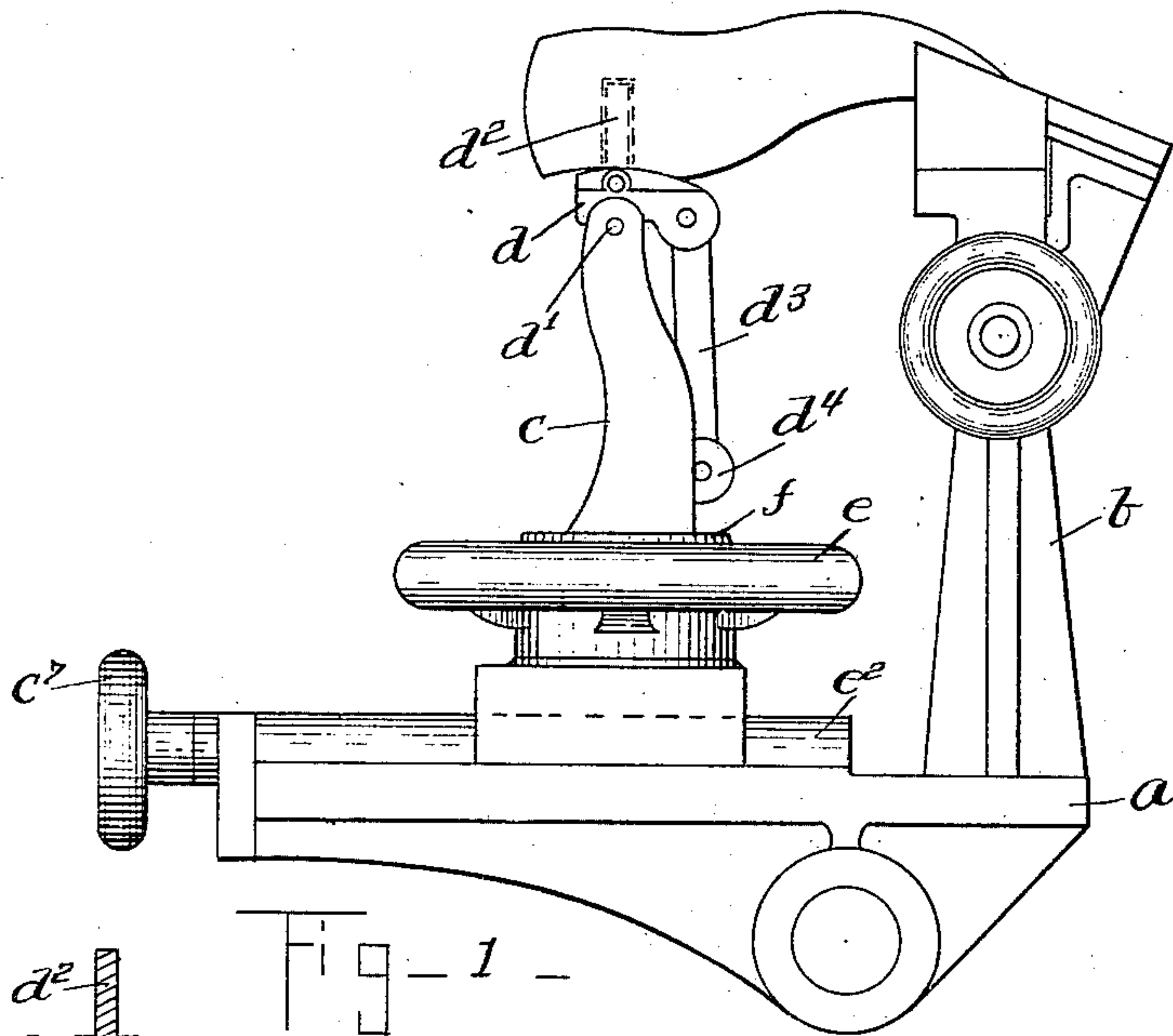


Fig-1 -

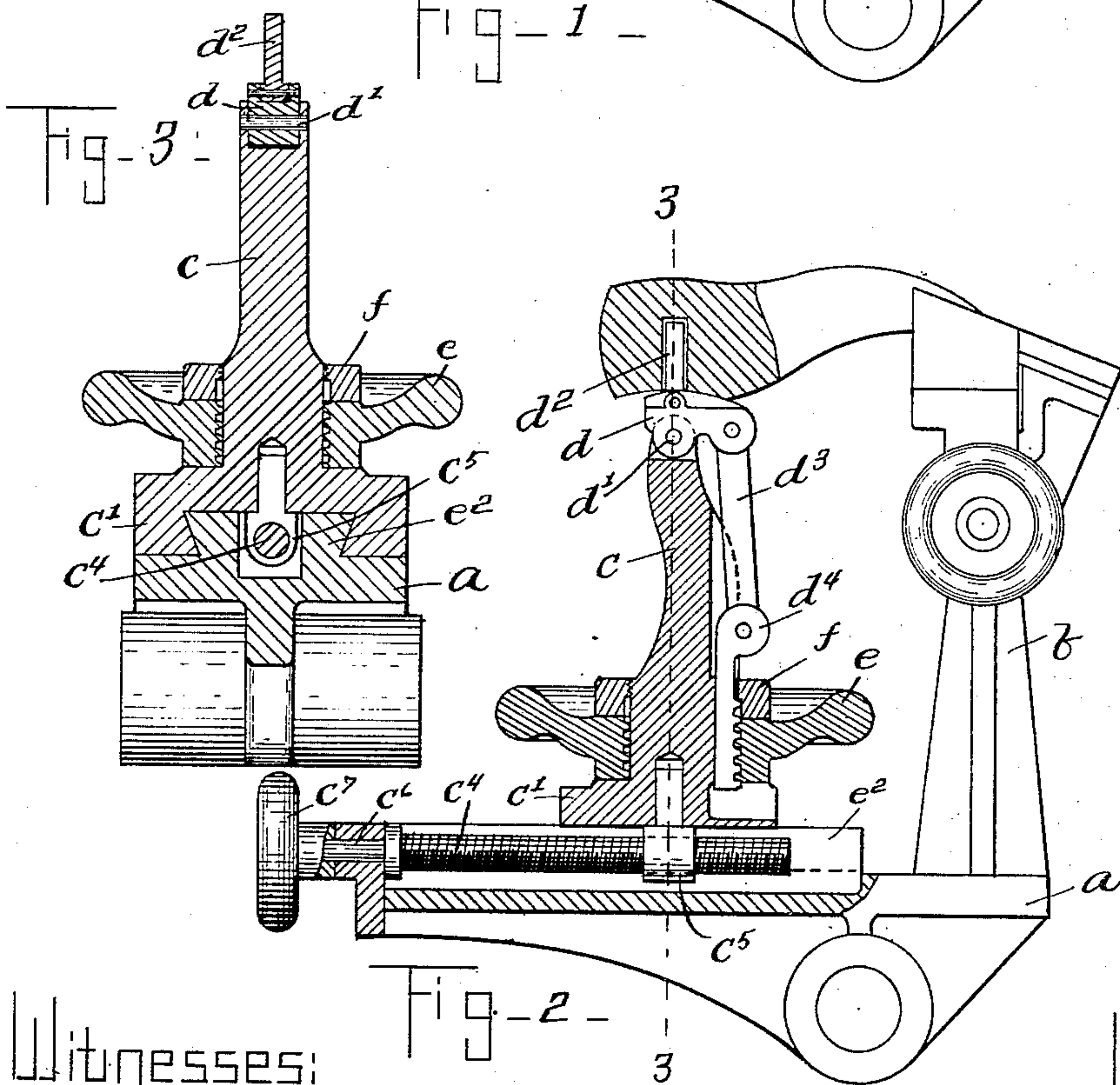


Fig-2 -

Witnesses:

H. B. Davis.

J. L. Hutchinson.

Inventor:

William C. Meyer.

By B. J. Hayes atty

UNITED STATES PATENT OFFICE.

WILLIAM C. MEYER, OF BOSTON, MASSACHUSETTS.

JACK FOR HOLDING BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 677,550, dated July 2, 1901.

Application filed April 17, 1900. Serial No. 13,195. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. MEYER, of Boston, county of Suffolk, and State of Massachusetts, have invented an Improvement in Jacks for Holding Boots or Shoes while being Operated Upon, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention has for its object to construct a jack for holding boots and shoes while being operated upon, being especially adapted for use on sole-leveling machines, yet it may be used for any other purpose.

15 The jack embodying this invention comprises, essentially, a toe-support and a heel-support, one of which is made adjustable toward and from the other, said toe-support being adapted to receive the toe of the last having a boot or shoe thereon, and the heel-support having means for engaging the heel end of said last, and my invention resides particularly in the construction of said heel-support.

20 The heel-support comprises an upright post having pivoted to its upper end a block which is provided with means for engaging the heel end of the last, and said upright post has a circular portion at or near its lower end which is provided with a vertical guideway, and a rack-bar is disposed in said guideway which is connected by a link with said pivoted block, and a hand-operated nut is disposed on the circular portion of said post which is free to turn thereon and which

25 engages said rack-bar and moves said rack-bar longitudinally when turned, and means are provided for holding said nut in proper position.

Figure 1 shows in side elevation a jack embodying this invention for holding boots and shoes while being operated upon. Fig. 2 is a side elevation and partial section of the jack shown in Fig. 1; and Fig. 3 is a vertical section of the heel-support of the jack, taken on the dotted line 3-3, Fig. 2.

30 *a* represents the base, which may be of any suitable construction; and *b* the toe-support erected thereon, which also may be of any suitable construction adapted to receive and support the toe of the last having a boot or shoe thereon, (the boot or shoe being removed

from the last in the drawings for the sake of better illustrating the invention.)

The upright support *c* of the heel-support rises from or is erected upon a block *c'*, which is formed or provided on its under side with a dovetailed recess adapting it to receive and slide along on the dovetailed projection *e²* on the base *a*. The dovetailed projection *e²* is cut away or recessed to receive a screw *c⁴*, the threaded portion of which turns on a nut *c⁵*, secured to the under side of the block *c'*, so that as said screw is turned in one or the other direction the heel-support will be moved along on the dovetailed projection toward and from the toe-support. The screw *c⁴* has a smooth shank *c⁶* disposed in a suitable bearing provided for it on the base *a*, and a hand-wheel *c⁷* is secured to the end of said screw for turning it, yet so far as this invention is concerned any other suitable means may be provided for adjusting said heel-support toward and from the toe-support.

The upright post *c* has a block *d* pivoted to its upper end at *d'*, and said block *d* is provided with an upright pin *d²*, adapted to enter a socket formed or provided in the heel end of the last, and said pin thus serves as a means of engaging the heel end of the last, yet so far as this invention is concerned any other means may be provided for accomplishing this result.

The pivoted block *d* projects forward and is loosely connected by a link *d³* with a movable member *d⁴*, which in the present instance is shown as a rack-bar adapted to slide vertically in a guideway for it formed or provided in one side of the upright post *c* near its base. The lower end portion of the upright post *c*, in which the vertical guideway for the rack-bar is formed, is made circular in cross-section and receives upon it a hand-nut *e*, which is free to turn thereon, and the threaded portion of said nut *e* engages the teeth on the rack-bar *d⁴*, so that as said hand-nut is rotated said rack-bar will be moved up and down, according to the direction of movement of the hand-nut. As the rack-bar *d⁴* is thus positively moved in both directions by said hand-nut the block *d* will be moved on its pivot, and thereby adjusted relatively to the toe-support.

A nut *f* is screwed onto the circular portion of the upright post *c* just above the hand-nut, which holds said hand-nut in its proper relative position, yet any other means may be provided for accomplishing this result. The hand-nut *e* not only positively moves the block *d* on its pivot in both directions, but also very securely holds said block in whatever position it may be set, which is an important feature of this invention.

It will be seen that as the block *d* is rocked on its pivot the pin *d*² will tilt the last and by thrusting its toe down onto the toe-support will effectually hold said last while the boot or shoe is being operated upon.

I claim—

1. In a jack for holding boots and shoes, the combination with a toe-support, of a heel-support consisting of a block having means for engaging the heel end of the last, an upright support to which said block is pivoted, having a circular portion provided with a vertical guideway, a rack-bar disposed in said guideway, a link connecting said pivoted block with said rack-bar, a nut disposed on said circular portion of the upright support

which engages and operates said rack-bar, and means for holding said nut in position on the upright support, substantially as described.

2. In a jack for holding boots and shoes, the combination with a toe-support, of a heel-support consisting of a block having means for engaging the heel end of the last, an upright support to which said block is pivoted, having a circular portion provided with a vertical guideway, a rack-bar disposed in said guideway, a link connecting said pivoted block with said rack-bar, a nut disposed on said circular portion of the upright support which engages and operates said rack-bar, means for holding said nut in position on the upright support, a base on which said upright support is mounted, and means for moving it along on said base toward and from the toe-support, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM C. MEYER.

Witnesses:

B. J. NOYES,

J. L. HUTCHINSON.