

No. 675,237.

Patented May 28, 1901.

F. D. NICHOLSON.
SOLE LEVELING JACK.

(Application filed Feb. 19, 1901.)

(No Model.)

Fig. 1.

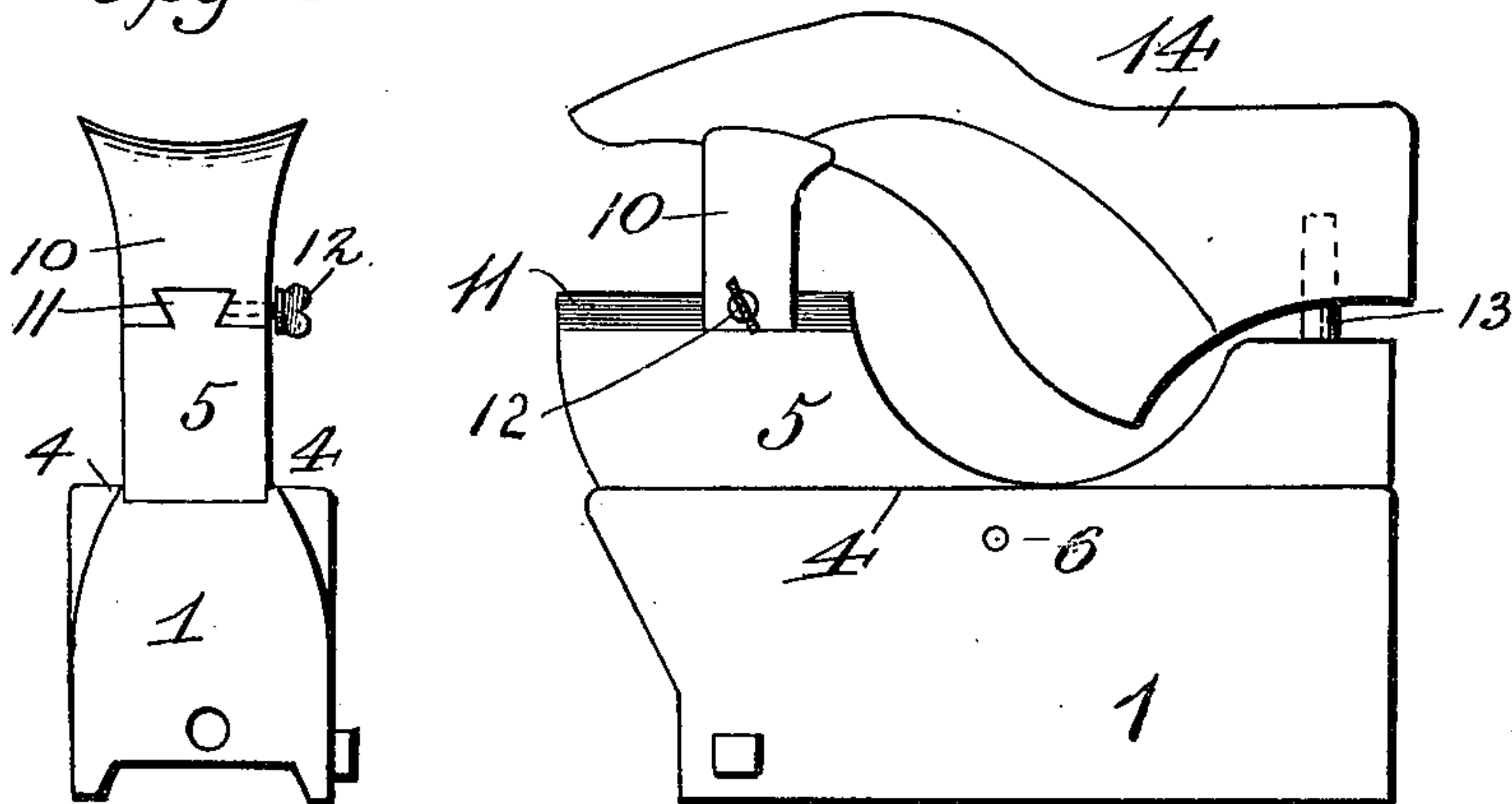
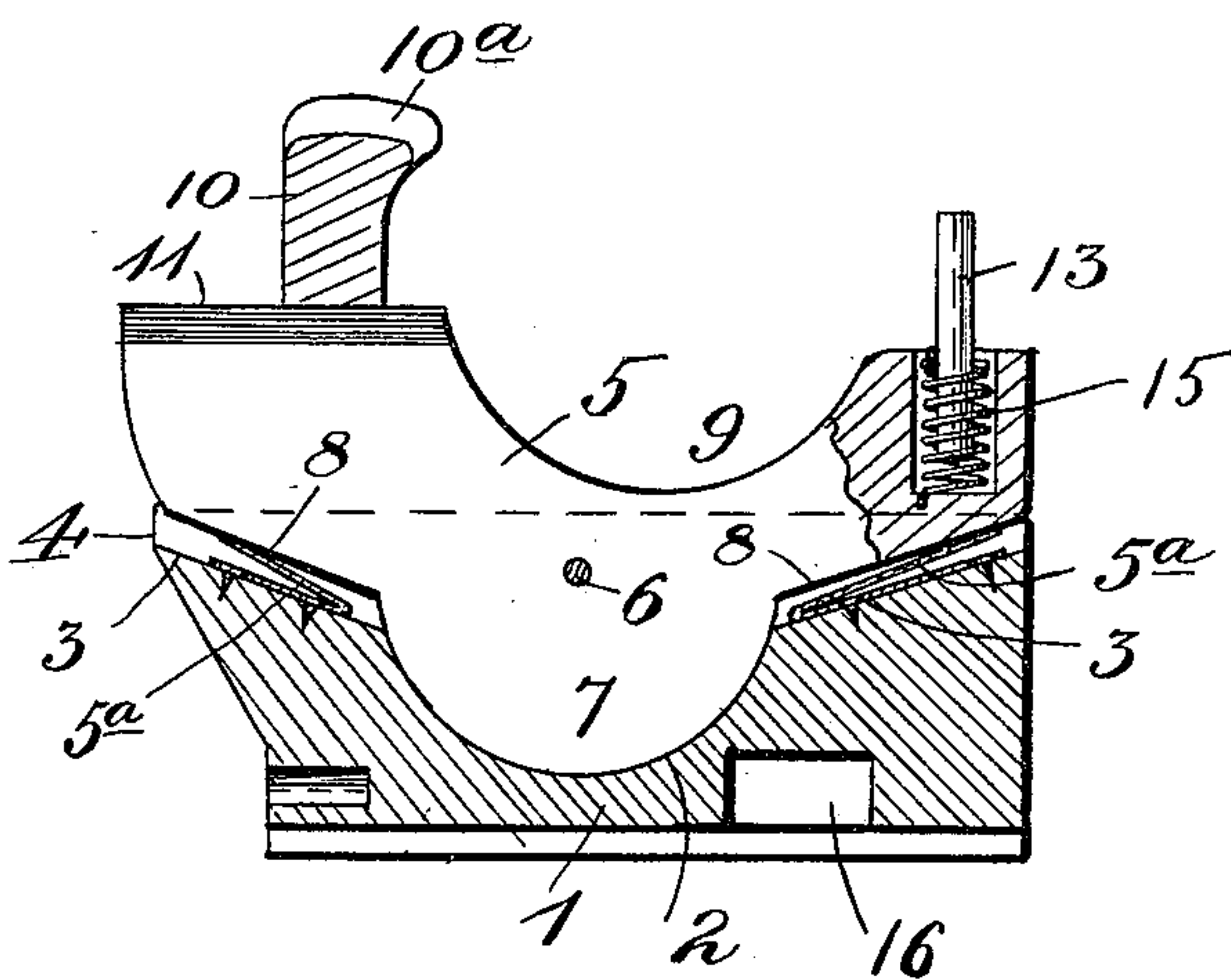


Fig. 2.



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UNITED STATES PATENT OFFICE.

FRED D. NICHOLSON, OF HORNELLSVILLE, NEW YORK.

SOLE-LEVELING JACK.

SPECIFICATION forming part of Letters Patent No. 675,237, dated May 28, 1901.

Application filed February 19, 1901. Serial No. 47,962. (No model.)

To all whom it may concern:

Be it known that I, FRED D. NICHOLSON, a citizen of the United States, residing at Hornellsville, in the county of Steuben and State of New York, have invented new and useful Improvements in Sole-Leveling Jacks, of which the following is a specification.

My invention relates to sole-levelers for boots and shoes; and the object of the same is to construct a device for leveling shoes on the last which can be attached to any of the standard machines and which will be adapted for all styles and sizes of shoes, the upper form only having to be changed for different shoes.

With this object in view I have designed the simple and novel construction described in this specification and claimed, and illustrated in the accompanying drawings, forming a part thereof, in which—

Figure 1 is a side elevation of my device. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is an end elevation of the same.

The numeral 1 designates the base-block of my device, which block has a concave recess rounded out at 2 on the arc of a circle, inclined faces at 3, and flanges 4. Mounted between the flanges 4 is a rocker 5, which is pivoted on a pintle 6. The convex circular portion 7 is designed to fit the concave recess 2, and inclined ends 8 are adapted to contact with the faces 3 to limit the movement of the rocker and furnish a firm bearing therefor. It will be noted that the rocker always bears firmly on the base 1 and is not supported on the pintle, which simply provides a center about which the rocker 5 turns. Curved springs 5^a are seated in the base-block 1, one at each end of the rocker. These springs bear against the rocker and serve to restore it to its initial position after displacement and to hold it against displacement except when considerable force is applied, enabling the shoe to be worked with by hand without having it wobble about preliminary to applying the machine-power thereon.

The rocker 5 is hollowed out at 9, and one end bears a toe-block 10, slidingly mounted on a dovetail 11. A set-screw 12 is fitted in the block 1 for use in clamping it in any position. The opposite end of the rocker carries an upright spindle 13 for engaging an aperture in the heel of a last 14. The spindle 13 is provided with a spiral spring 15, which is seated in the rocker 5, surrounds the spin-

dle, and is secured thereto, thereby holding the spindle up, which action raises the heel of the last 14. By this construction the toe of the last is thrown forward on the convex upper surface 10^a of the block 10.

An elongated recess 16 in the under side of the base-block provides means for securing and adjusting the base-block on the machine to which it is attached.

In operation my leveler is applied to any of the well-known leveling-machines. The last 14 placed on the rocker corresponds to the style and size of the shoes in process of manufacture. A shoe is first fitted on the last, which is then placed in position. Pressure is applied from above on the sole of the shoe, when the rocker and spindle will give and equalize the pressure on the sole—that is, it finds its own level and conforms to the contour of the pressure-foot applied to the sole of the shoe placed on the last 14. The inclined faces 3 serve as stops to limit the movement of the rocker 5. When the pressure-foot is raised, the springs 5^a will restore the rocker to its initial or normal position.

I do not wish to be limited as to details of construction, as these may be modified in many particulars without departing from the spirit of my invention.

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

1. In a device of the class described, the combination, of a base-block having a concave recess therein, and inclined faces, a pivoted rocker mounted in said recess and having inclined portions thereon adapted to contact with the inclined faces of said base-block, a toe-block slidingly mounted on one end of said rocker, and a spring-actuated spindle mounted in the other end of said rocker.

2. In a device of the class described, the combination, of a base-block having a concave recess therein, and flanges thereon, a rocker mounted in said recess on a pintle journaled in said flanges, and adjustable means for securing a last to said rocker, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FRED D. NICHOLSON.

Witnesses:

CHARLES W. STEVENS,
E. F. WILBER.