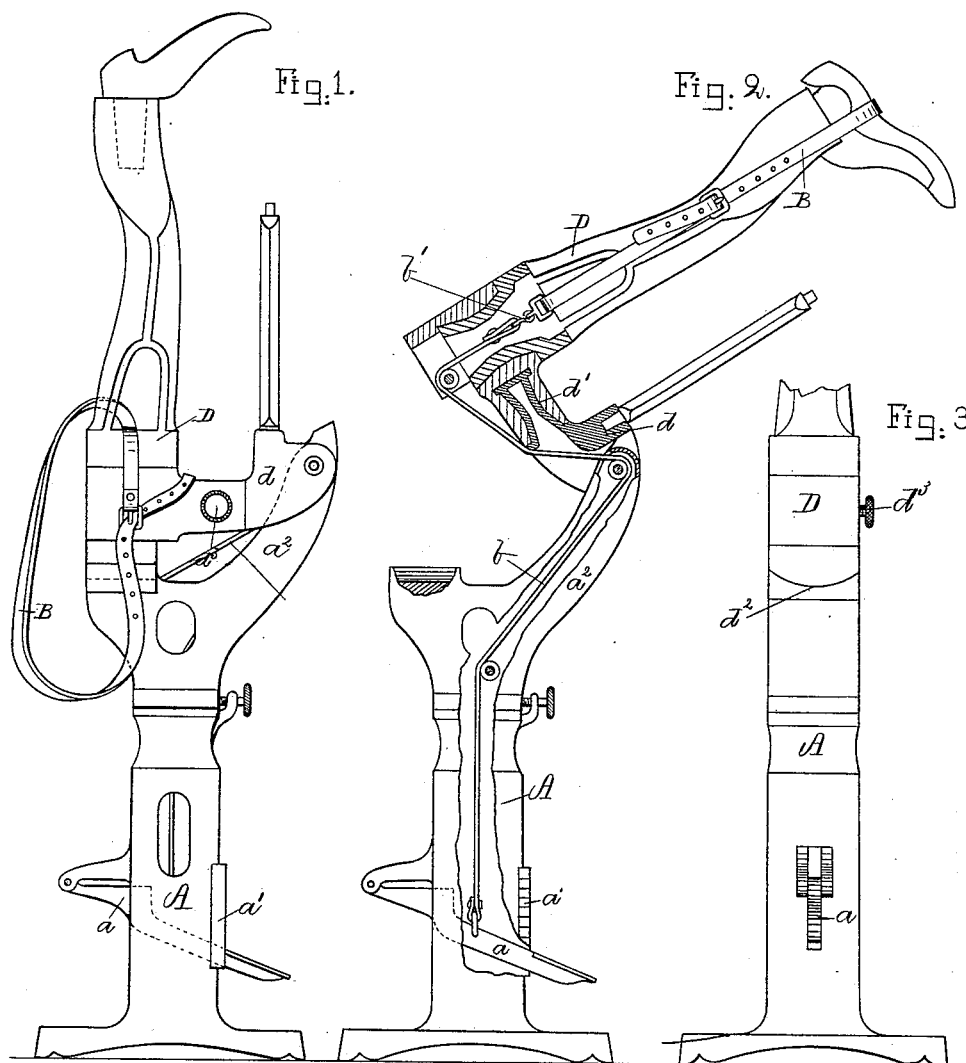


(No Model.)

G. M. WELLS.  
SHOE MAKER'S JACK.

No. 344,230.

Patented June 22, 1886.



Witnesses.

*Laurens P. Möller*  
*John R. Snow*

Inventor

*Geo. M. Wells*  
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his Atty

# UNITED STATES PATENT OFFICE.

GEORGE M. WELLS, OF NEW YORK, N. Y., ASSIGNOR TO THE SOLIDITY IRON  
LAST COMPANY, OF SAME PLACE.

## SHOE-MAKER'S JACK.

SPECIFICATION forming part of Letters Patent No. 344,230, dated June 22, 1886.

Application filed March 8, 1884. Serial No. 123,471. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE M. WELLS, of New York, in the county and State of New York, have invented certain new and useful Improvements in Shoe-Makers' Jacks, of which the following is a specification.

My invention relates to improvements in shoe-makers' jacks in which the lasted shoe is held by means of a strap on a standard mounted to turn freely on its bed, the strap being so arranged as to have all the motions of the lasted shoe, and also hold it firmly on the standard, as fully described in Letters Patent No. 223,264, granted to me January 6, 1880.

The objects of my present improvements are to provide means for enabling the jack to be moved to any desired position.

My invention consists, mainly, in a standard, to which the base of the jack is hinged, and in which the lever or other device for tightening the strap is mounted.

A second feature of my invention is a joint by means of which the jack may be tipped on an axis at right angles to the axis of the hinge-joint by which the base of the jack is hinged to the standard.

A third feature of my invention is the combination, with the fixed standard, of a support, to which the base of the jack is hinged, and a strap and means for tightening the strap, the support being movable on and the devices for tightening the strap being mounted in the fixed standard.

In the accompanying drawings, Figure 1 is a side elevation, showing the jack in its vertical position. Fig. 2 is a side elevation, partly in section, showing the jack turned on the hinge and the arrangement of the strap-tightening devices. Fig. 3 is a rear view showing the base of the jack rounded on its bottom, so as to turn in the rounded top of the standard when tipped on the axis at right angles to the hinge-joint.

A represents the standard, in which is mounted a device for tightening the strap B. In this instance a lever, *a*, passes through an opening in the lower part of the standard A, is pivoted at one side of the standard, and projects on the other side to form a pedal for operating it by the foot. The lever *a* is held in place when depressed by means of the toothed rack *a'*. A support consisting of an arm, *a*<sup>2</sup>, which may be fast to the standard A, or be so

mounted as to be turned thereon, is hinged at its outer end to an arm, *d*, extending from the lower part of the base D of the jack. A swivel-joint, *d'*, in the arm *d* allows the jack to be turned on an axis at right angles to the axis of the hinge on the outer end of the support-arm *a*<sup>2</sup>.

To enable the jack to be tipped or turned on the swivel-joint *d'* when resting on the standard A, the bottom of its base is rounded on a curve struck from the axis of the swivel-joint *d'*, as shown at *d*<sup>2</sup>, Fig. 3. The top of the standard must obviously be concaved to correspond with the rounded bottom of the base of the jack.

A set-screw, *d*<sup>3</sup>, is provided to clamp the jack in any desired position.

Suitable pulleys or rollers are placed at the bends, such as the bottom of the base, the hinge-joint, and the top of the standard, to enable the strap *b*, connecting the lever *a* with the strap B, to render freely. A swivel-connection, *b'*, between the straps *b* and B, allows the jack to be turned without twisting the straps.

The fixed standard A and the support *a*<sup>2</sup> are preferably so connected that the support may be turned on the standard. This arrangement is useful in many cases. The fixed standard and the support may, however, be in one piece; but this is objectionable in some instances.

I am aware of Patents No. 30,620, November 13, 1860, to Dickinson, and No. 132,616, October 29, 1872, to Ziegler, and disclaim all that is described in them.

I claim as my invention—

1. The standard A, having the arm *a*<sup>2</sup>, to which arm *d*, carrying a jack, D, is hinged, in combination with straps B and *b*, substantially as described.

2. The jack D, jointed to arm *d* at *d'*, in combination with arm *a*<sup>2</sup>, standard A, and straps B and *b*, substantially as and for the purpose described.

3. In combination, standard A, arm *a*<sup>2</sup>, pivoted on standard A, arm *d*, jack D, and straps B and *b*, substantially as described.

GEO. M. WELLS.

Witnesses:

W. A. COPELAND,  
JOHN R. SNOW.