T. H. CYRUS.

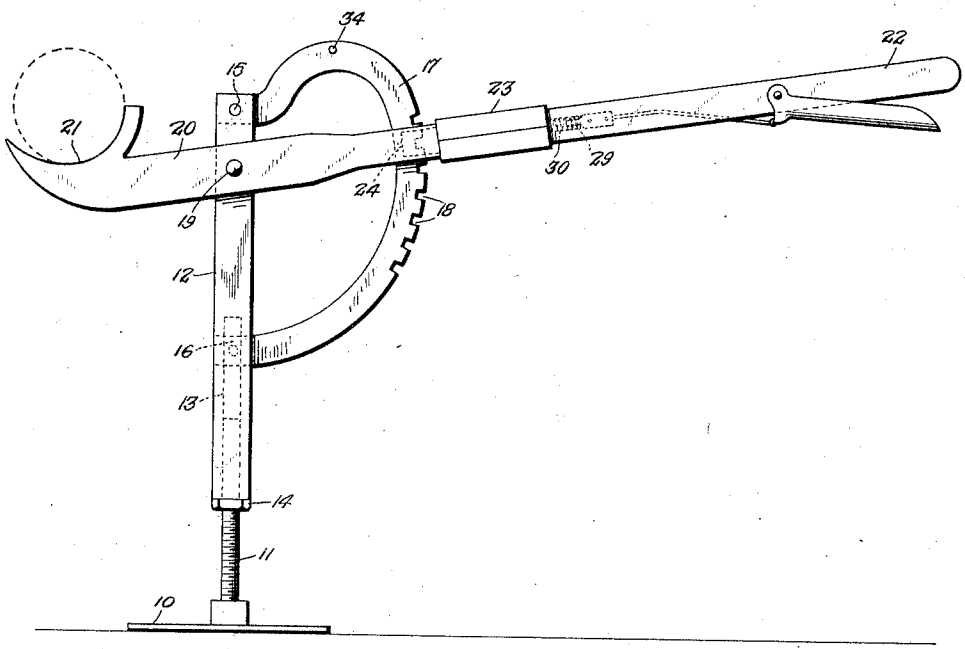
JACK.

APPLICATION FILED MAY 19, 1921.

1,415,805.

Patented May 9, 1922.

Fig. 1.



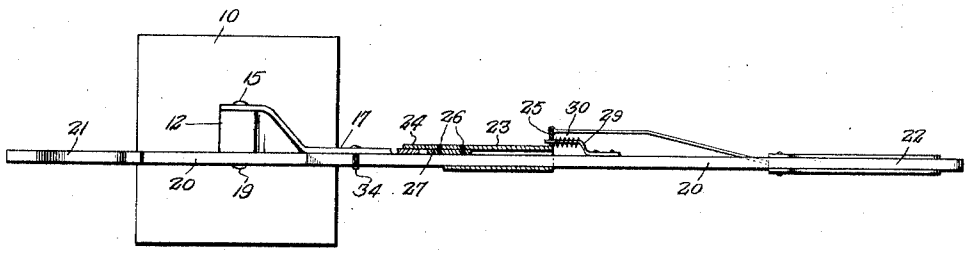


Fig. 2.

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By

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UNITED STATES PATENT OFFICE.

THOMAS H. CYRUS, OF COVELO, CALIFORNIA, ASSIGNOR OF ONE-HALF TO GEORGE W. GOFORTH, OF COVELO, CALIFORNIA.

JACK.

1,415,805. Specification of Letters Patent. Patented May 9, 1922.

Application filed May 19, 1921. Serial No. 470,803.

To all whom it may concern:

Be it known that I, THOMAS H. CYRUS, a citizen of the United States, residing at Covelo, in the county of Mendocino and State of California, have invented certain new and useful Improvements in Jacks, of which the following is a specification.

This invention relates to lifting jacks, and has for one of its objects to simplify and improve the construction and improve the efficiency and utility of devices of this character.

Another object of this invention is to produce a device of this character including a vertically adjustable supporting standard, and an operating arm swingingly connected to the standard and with means for supporting the operating member in adjusted position relative to the standard.

With these and other objects in view the invention consists of certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claim, and in the drawings illustrative of the preferred embodiment of the invention.

Figure 1 is a side elevation.

Fig. 2 is a plan view.

The improved device comprises a base member or support 10 having a relatively heavy threaded rod 11 extending upwardly therefrom. A supporting standard is represented at 12 and provided with a longitudinally threaded socket indicated at 13 to receive the member 11. By this means the standard is supported vertically adjustable relative to the base 10.

A jamb nut 14 may be applied to the member 11 and bearing against the lower end of the standard to prevent accidental displacement of the member 11 relative to the standard.

Attached at 15 and 16 to the standard 12 is a segmental member 17 having spaced notches 18, the latter being preferably "square" or with both sides radially of the center of the segmental member.

Pivoted at 19 to the standard 12 is an operating lever 20 having an axle engaging depression 21 at its shorter end and extended into a hand grip 22 at the longer end.

Slidable on the lever 20 is a relatively long sleeve 23 having a lip 24 extending from one end to bear over the segmental member 17 and with an outturned lug 25 at the other end.

Secured at 26 within the sleeve 23 is a pawl member 27 adapted to engage one at a time in the notches 18 of the member 17.

The lug 25 is perforated, and connected at 28 to the lever 20 is a guide rod 29 extending through the perforation.

A spring 30 surrounds the guide rod and bears constantly against the lug 25 and thus normally maintains the sleeve yieldably in position to hold the pawl in correspondingly yieldably engagement with one of the notches 18.

A hand operated trip lever 31 is pivoted at 32 to the lever 20 and coupled by a pull rod 33 to the lug 25.

By this means the sleeve 23 may be moved longitudinally of the member 20 against the resistance of the spring 30 to release the pawl 27 from the segmental member 17, and thus elevate or depress the shorter end of the lever, as will be obvious.

By employing the square notches 18, the lever member 20 is effectually locked from vertical movement in either direction.

The member 17 is provided with a stop pin 34 to limit the movement of the lever in one direction.

The improved "jack" may be constructed of any suitable material or of any required size to adapt it to lift structures of various sizes, but is more particularly adapted for use as an adjunct to motor driven vehicles, or for use in garages or the sales rooms or repair shops of such vehicles.

The preferred embodiment of the invention is disclosed in the drawings and set forth in the specification, but it will be understood that any modifications within the scope of the claimed invention may be made in the construction without departing from the principle of the invention or sacrificing any of its advantages.

What I claim is:—

In a lifting jack, a supporting standard, a notched segmental member connected to said standard, an operating lever pivoted intermediate the ends to said standard, a sleeve member slidable on said operating lever and having a projecting lip at one end bearing over said segmental member and with a perforated lug outturned at the other end, a pawl device connected internally of

said sleeve and adapted to engage the notch of said segmental member which for the time being is covered by said lip, a guide pin carried by said lever, a spring carried by said rod and operating to maintain said sleeve with the pawl device in yieldable engagement with the notch of the segment, and means operative on said lever to move said sleeve and the pawl device carried thereby against the resistance of said spring to release the pawl from the segment.

In testimony whereof, I affix my signature hereto.

THOMAS H. CYRUS.