

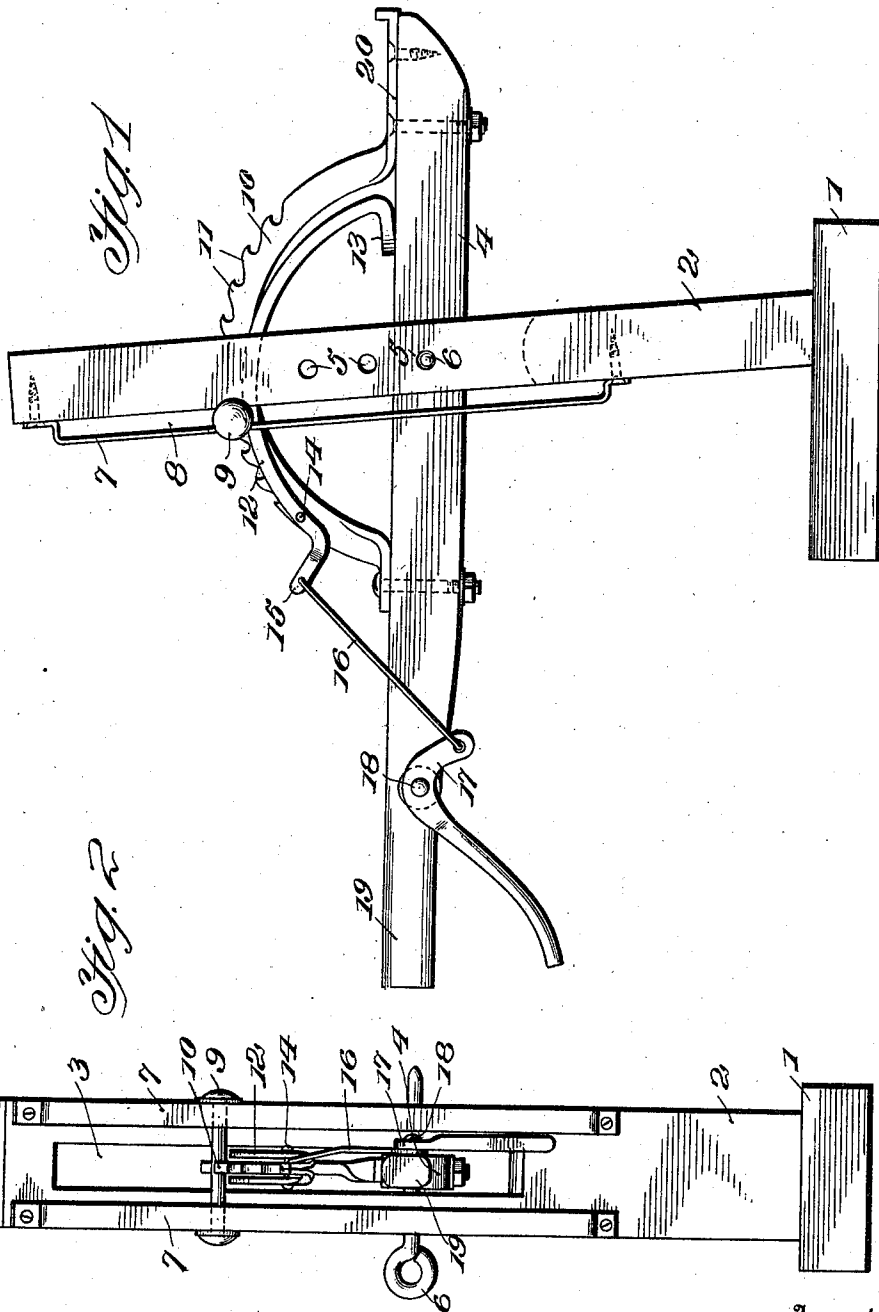
W. R. HARDESTY & T. G. HARRISON.

JACK.

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1,002,202.

Patented Aug. 29, 1911.



Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM R. HARDESTY AND THOMAS G. HARRISON, OF LEBANON, KENTUCKY.

JACK.

1,002,202.

Specification of Letters Patent.

Patented Aug. 29, 1911.

Application filed October 19, 1910. Serial No. 588,005.

*To all whom it may concern:*

Be it known that we, WILLIAM R. HARDESTY and THOMAS G. HARRISON, citizens of the United States, residing at Lebanon, in the county of Marion and State of Kentucky, have invented certain new and useful Improvements in Jacks; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an improved lifting jack for raising supporting axles or any form of vehicle, or for any other similar purpose.

The device is exceedingly simple in its operation, having but very few parts, all readily accessible and removable for repair or renewal. Its scope or radius of operation is very great, since the raising lever and ratchet device are independent of other parts, the fulcrum or point on which the lever turns being movable up or down in the frame of the jack.

An important feature is the ease with which the jack may be lowered with a load, the releasing device being entirely operated from the handle of the lever.

The device is exceedingly simple and inexpensive to manufacture, and its structure so designed as to combine lightness and great strength.

For the purpose of illustrating the invention, we have shown in the accompanying drawings one form which the invention may take, without, however, limiting the invention to said form.

Figure 1 shows a side elevation of the jack; and Fig. 2 an end elevation.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, 1 is the base, on which is attached an upright 2, having therein an annular slot 3, through which is inserted a lever 4, the same being pivoted at any one of the holes 5 by passing a pin 6 through holes in the frame and lever. Guides 7 are provided on the side of the upright 2 and fastened thereto, forming a slot 8 between the guides and upright, in which the point or stop 9 is placed, having a head on each end to loosely hold same within said slot. The lever 4 is provided with a quadrant 10, having notches 11 on the outer edge suitable to engage with the

stop 9, and the end of the quadrant extended to form a rest 20, for axle or other body being lifted. A lever, or disengaging arm, 12, is formed of a strip of suitable material bent back on itself, as illustrated, and shaped to conform to the arc of the quadrant 10. The double outer end of the lever 12 forms a stop 13, which, striking against the quadrant 10, limits the upward movement of said lever. A pin or other suitable fastening 14, pivots the arm 12 to the quadrant 10, the short end 15 of said arm being fastened to a link, or connecting rod, 16, the other end of which to the short end of the lever 17, which in turn is fastened, by means of a pin, bolt, or other device, 18, to the lever 4 near the handle 19. The opposite end of the lever 17 is shaped in the form of a handle, so as to be readily grasped by the fingers, together with the handle 19.

To operate the device the short end of the lever 4 is placed under the body to be raised and force applied to the handle of the lever. As the quadrant 10 passes under the stop 9, said stop engages with the notches, holding the lever at the last assumed angle, thus maintaining the body to be raised in the desired position. To release the stop 9 from engagement with the quadrant 10, the lever 17 is raised by the fingers, this in turn acting through the link 16, raising the long end of the arm 12, thus striking the stop 9 out of engagement with the quadrant 10 and allowing the lever 4 to return to its normal position. The upright 2 is rigidly secured to the base 1 by means of suitable braces 21.

Having thus described one form which the invention may take, with the understanding that this particular construction can be departed from without changing the scope or spirit of the invention, what we claim as new and desire to secure by Letters Patent is:

1. A lifting jack such as described, consisting of a base on which is mounted an upright member provided with a slot through which is passed a lifting lever adjustably pivoted to said upright member, a notched quadrant, the end of which terminates in an axle support mounted on the lifting lever, a stop pin slidably mounted on said upright member for engaging the notches of the quadrant and a pin disengaging arm pivoted to said quadrant and

connected by a rod to an operating handle pivoted to the lifting lever.

2. A lifting jack such as described, consisting of a base on which is mounted an upright member provided with a slot through which is passed a lifting lever adjustably pivoted to the upright member, a notched quadrant mounted on the lifting lever, a stop pin slidably mounted on the  
10 upright member for engaging the notches of the quadrant, means for releasing said stop pin from the notches of the quadrant,

and guides formed of two strips, the ends of which are bent inwardly and fastened to the upright member, thus providing a slot 15 in which the stop pin operates.

In testimony whereof we affix our signatures in presence of two witnesses.

WILLIAM R. HARDESTY.  
THOMAS G. HARRISON.

Witnesses:

G. W. LAKE,  
G. F. ABNER.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."

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