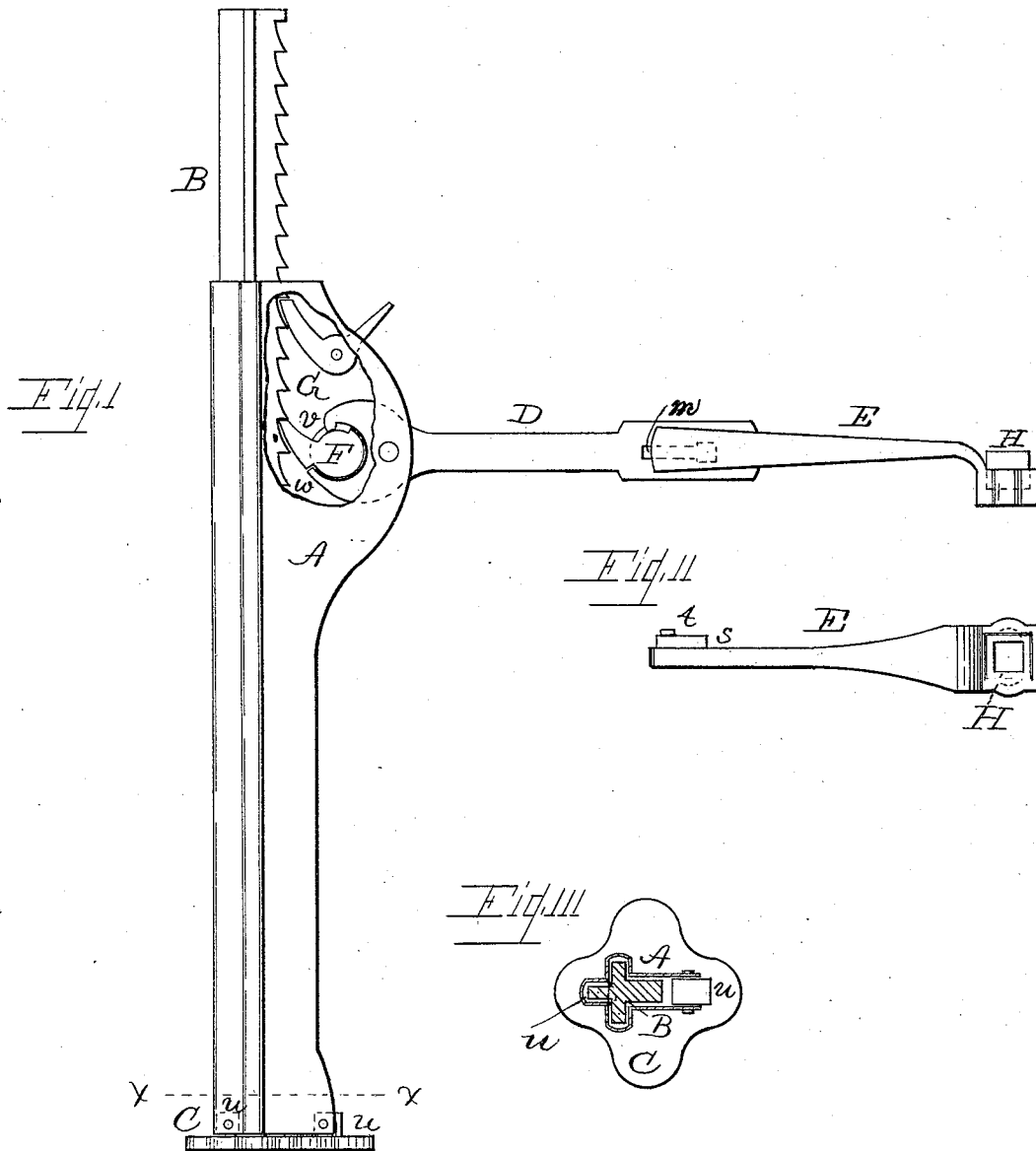


(No Model.)

J. B. WALTON.
CARRIAGE JACK.

No. 461,460.

Patented Oct. 20, 1891.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES B. WALTON, OF DAYTON, OHIO.

CARRIAGE-JACK.

SPECIFICATION forming part of Letters Patent No. 461,460, dated October 20, 1891.

Application filed May 20, 1891. Serial No. 393,389. (No model.)

To all whom it may concern:

Be it known that I, JAMES B. WALTON, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Carriage-Jacks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in carriage-jacks, the features of which will be fully hereinafter described and claimed.

The object of my invention is the construction of a jack of lighter material than usual; yet the same will be sufficiently substantial for light uses, as the raising of a carriage-axle. I accomplish the object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side view of the device with a portion cut away to exhibit the interior. Fig. 2 is a top view of the wrench. Fig. 3 is a transverse horizontal section on line *x x*, Fig. 1.

Like letters designate like parts in the several views.

A is the support, which is formed of sheet metal. The metal is first cut out the proper shape, the edges having swells for the ears and swells to increase the width of the base, the metal being folded at the center and again folded, forming side ribs, and the edges are parallel and sufficiently wide apart to receive the lever D and the pawl G. On the base-plate C are two lugs *u*, and through these are passed rivets to unite the support to said base-plate. The pawl and lever are pivoted to the support by means of shouldered rivets, which are first passed through orifices in the same, then through the punched ori-

fices in the ears, and then hammered down against said shoulders. The rack-bar B is in cross-section in form similar to the Grecian cross, as shown at Fig. 3, the front edge being provided with a series of teeth, and beneath which the gravity-pawl falls successively as the rack is raised to hold the same. This rack moves freely within the support, and the side wings form the bearing against which the pawls act. The lever D is provided with a circular recess, into which is placed the pawl F, in which the same has a free but limited movement, the downward movement being arrested by the shoulder *w* and the upward movement by the lug *v*. The outer end of the lever is provided with a slot *m* to receive the lugs *t* and *s* of the wrench E for the purpose of uniting them, and thereby extending the handle or lever.

The operation of the jack is as follows: The handle is depressed, thereby carrying up the rack-bar until the pawl drops beneath a tooth, where it held, and in raising the handle its pawl drops beneath a tooth, and the operation is repeated to obtain the required elevation.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

A lifting-jack comprising a sheet-metal body, a suitable base, a rack-bar inclosed by said sheet-metal body, a pawl for engaging said bar, and an operating-lever, the inner end of which incloses the head of said pawl and the outer end of which is provided with a movable extension and a retaining-pawl, substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JAMES B. WALTON.

Witnesses:

B. PICKERING,
B. F. HERSHEY.