G. S. JONES.

LIFTING-JACKS FOR CARRIAGES, &c.

No. 188,467. Patented March 20, 1877.

Fig. 1.

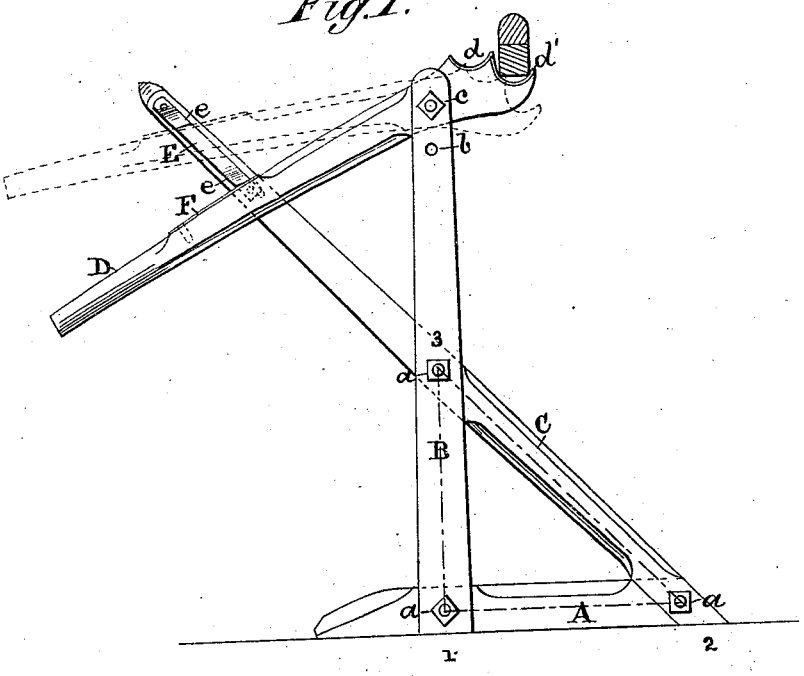
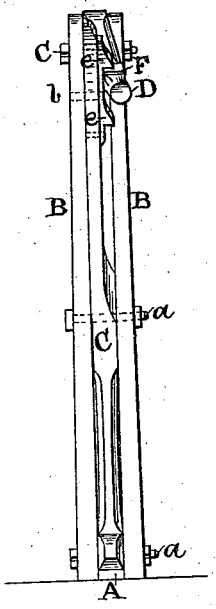


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE S. JONES, OF BROOKFIELD, OHIO.

IMPROVEMENT IN LIFTING-JACKS FOR CARRIAGES, &c.

Specification forming part of Letters Patent No. **188,467**, dated March 20, 1877; application filed November 8, 1876.

To all whom it may concern:

Be it known that I, GEORGE S. JONES, of Brookfield, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Lifting-Jacks for Carriages, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, 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 letters of reference marked thereon, which form a part of this specification.

My invention relates to carriage-jacks; and the invention consists in certain improvements in the construction of these devices, as hereinafter more fully set forth.

In the accompanying drawings, Figure 1 is a side elevation of my improved carriage-jack. Fig. 2 is an end view of same.

Referring to the parts by letters, A represents the base-beam or foot, and B B are two vertical bars or uprights, which together constitute the post. C is a bar, which extends diagonally from the extremity of the foot A to about the center of the post B, and from thence projects upward and rearward to about the same height as the top of the post.

The foot, post, and diagonal bar are passed between the bars B B, and are rigidly and firmly united thereto by bolts *a a a*, the portions between the bolts forming a triangle, as shown by the dotted line 1 2 3, Fig. 1 of the drawing.

D is the lever, loosely pivoted to and between the bars B B by means of a removable pivot-bolt, *c*, so that the pivotal point may be adjusted higher up or lower down on the post, the bars B B being pierced with a series of holes, *b*, for its reception. The short end of the lever D is enlarged, and its upper side has arc-shaped grooves *d d* formed in it, suitable for holding the axle of a carriage or wagon without danger of slipping. These arc-shaped grooves *d d* may be of different size and form, suitable for different vehicles, and are protected from wear by a metal plate or plates, *d'*.

E represents a metal plate secured to the upper end of the diagonal bar C. It has projections *e e*, the angular faces of which are formed so as to act as stops or shoulders, against which the long end of the lever C rests when the weight of the vehicle bears on its short end.

The plate E (shown by the drawings) has two of these projections *e*, arranged so as to suit the different heights of the axles of vehicles, and, if found desirable, more than two of these bearing-shoulders may be provided.

F is a metal plate secured to the upper side of the lever C, at the point where it comes in contact with the shoulders or stops *e*.

The advantages which I claim for my improved jack over those heretofore in use are simplicity of construction and increased strength and durability.

The parts are few in number, and are arranged so as to secure the greatest strength by distributing the weight of the vehicle to several bearing-points, which balance each other.

It will also be evident that it is exceedingly convenient for use, there being no straps, links, or chains which require to be adjusted every time the lever is operated. All that is necessary to apply the jack is to place the short end of the lever under the axle of the vehicle, and bear down on the other end until the wheels are above the ground. By holding the handle of the lever against the diagonal bar C, and releasing the pressure, the weight of the vehicle will of itself bring the lever against the stop or shoulder *e*, no further adjustment being required.

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

A carriage-jack constructed, as described, of the foot-bar A, vertical bars B B, and diagonal bar C, bolted together so as to form a triangular supporting-base, and arranged to operate with the lever D and plate E, substantially as and for the purpose specified.

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

GEORGE S. JONES.

Witnesses:

A. H. STEUART,

V. J. GROVES.