

(No Model.)

A. B. FURMAN.

WAGON JACK.

No. 274,584.

Patented Mar. 27, 1883.

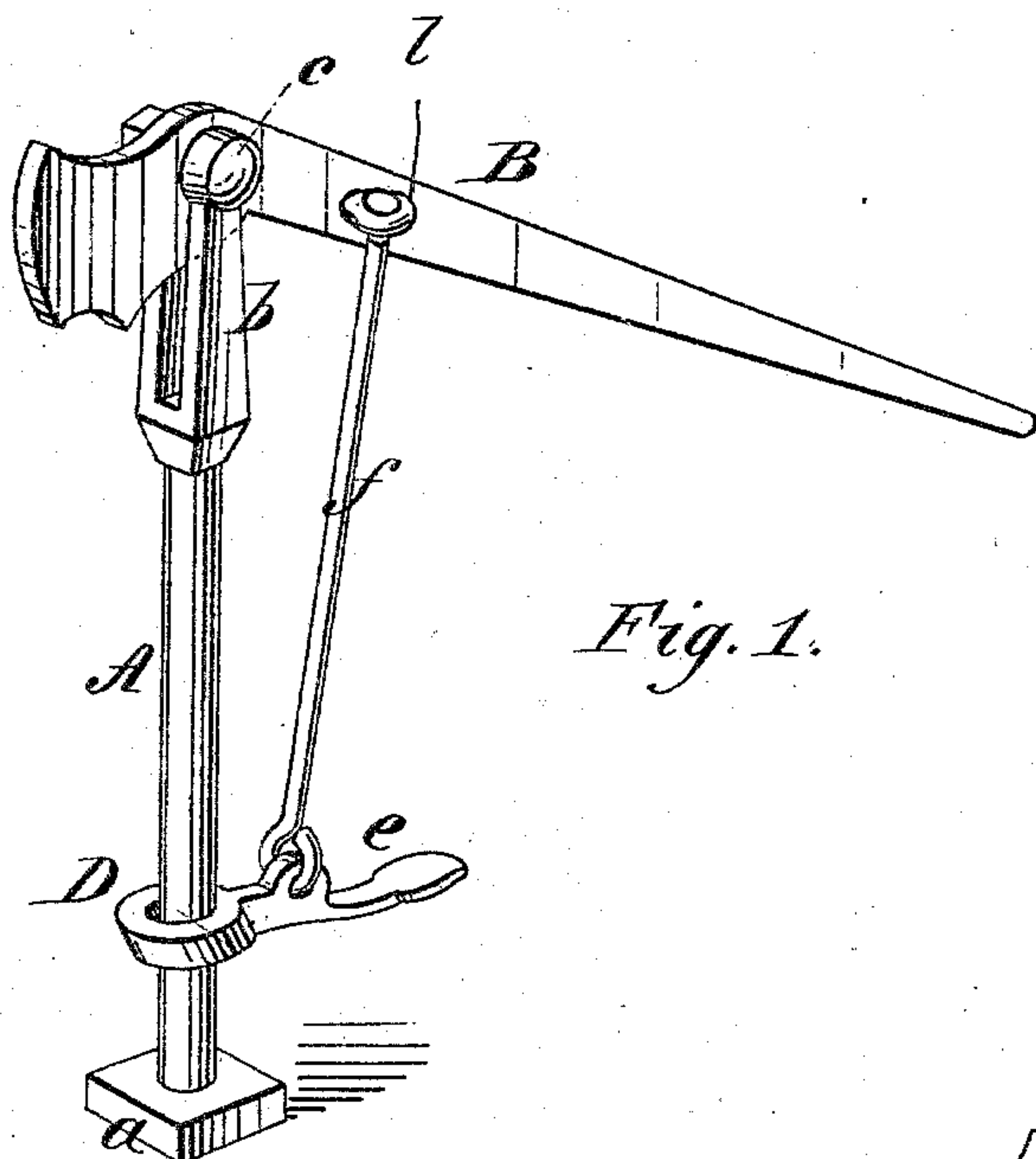


Fig. 1.

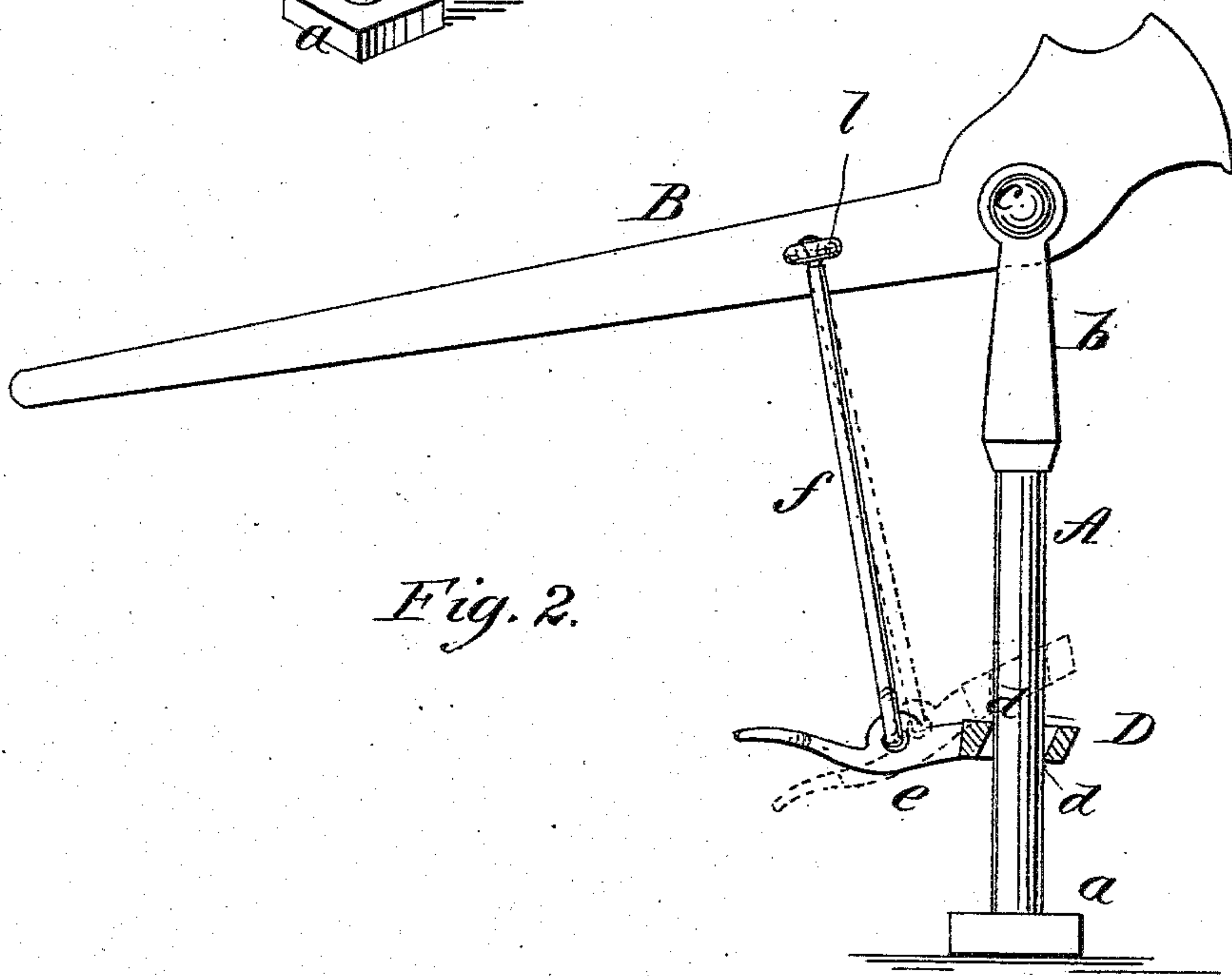


Fig. 2.

WITNESSES:

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UNITED STATES PATENT OFFICE.

ALONZO B. FURMAN, OF STRATTONVILLE, ASSIGNOR TO HIMSELF AND
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WAGON-JACK.

SPECIFICATION forming part of Letters Patent No. 274,584, dated March 27, 1883.

Application filed November 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, ALONZO B. FURMAN, of Strattonville, in the county Clarion and State of Pennsylvania, have invented a new and Improved Wagon-Jack, of which the following is a full, clear, and exact description.

The object of my invention is to provide a simple and inexpensive jack for use in removing the wheels from the axles of wagons or other vehicles, that can be more conveniently used than those heretofore in use.

The invention consists in a lever combined with a post, and a clutch-ring fitted on the post and connected to the lever for holding the latter in any position to which it may be moved in raising the axle, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a perspective view of my improved jack. Fig. 2 is a side elevation of the same, partly in section.

A is the post, preferably a piece of tubing, provided with a suitable foot, *a*, and formed with forks *b*, at its upper end. B is the lever, pivoted in the forks of the post by a pin, *c*. The longer arm of the lever is made of suitable length and the shorter arm is curved on its edge to receive the axle. One side of the shorter arm is extended, so that when that side is upward, as shown in Fig. 2, it stands at a distance above the pivot-pin *c*, and is intended for use with a high axle, while the other side, which is on a line, or nearly so, with the pivot-pin, is intended for use with a lower axle. The lever may be reversed on the post to bring either side upward. On the post A is a ring, D, having an aperture that allows it to slide freely on the post, the aperture being also made with beveled edges *d d* on the two opposite sides for clamping the post, as hereinafter described. The ring D is provided at one side with an arm, *e*, from which a rod, *f*, passes to and is connected with the lever B. The rod *f* is loosely connected to both the lever and the arm of the ring, the connection at the lever being made by a swiveling eye, *l*, to allow reversal of the lever, and the connection to the arm *e* is made at a distance from the ring, so as to insure the clamping of the ring upon the post when the rod is drawn upward. By this construction when the long

arm of the lever B is raised it has the effect to raise the arm *e* of the ring D, and thereby cause the ring to bind upon the post.

To use the jack the operator takes hold of the lever B, at the same time pressing his foot upon the arm of the ring D, so as to loosen the same and allow the ring to run up the post when the lever is raised. The shorter arm of the lever is then placed beneath the axle, the lever B pressed down, and the axle thus raised. As soon as the lever B is released the weight of the axle, tending to raise the long arm of the lever, will cause the ring D to bind upon the post, and thereby hold the axle securely in its raised position.

This jack can be readily operated without the necessity of crawling beneath the wagon to put it in place. It can be made very light and at the same time strong and durable, and can be folded up in a compact shape when not in use.

In lowering an axle with this jack it can be readily done, and by a gradual movement instead of dropping the axle suddenly, as is necessary in most cases.

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

1. In a wagon-jack, the combination, with the standard or post A, supporting the lifting-lever B, of the friction gripping-ring D, arranged upon the said post H, and having the treadle *e* and the rod *f*, connecting the ring and treadle to the lever B, substantially as and for the purpose set forth.

2. In a wagon-jack, the combination, with the standard or post A, of the automatically gripping-ring D, arranged upon the said post, and having the treadle *e*, the rod *f*, and the lifting-lever B, having its outer end curved or projected at one side, and pivoted to the said post to allow of its reversal for presenting either side upward, said lever also having a reversible eye, *l*, to connect the rod *f* to either side thereof, substantially as and for the purpose set forth.

3. In wagon-jacks, the lever B, having its outer end curved or projected at one side and pivoted to the post A to allow of its reversal for bringing either side upward, substantially as set forth.

ALONZO BALDWIN FURMAN.

Witnesses:

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