

(No Model.)

G. C. WIMPEE.

LIFTING JACK.

No. 313,794.

Patented Mar. 10, 1885.

Fig. 1.

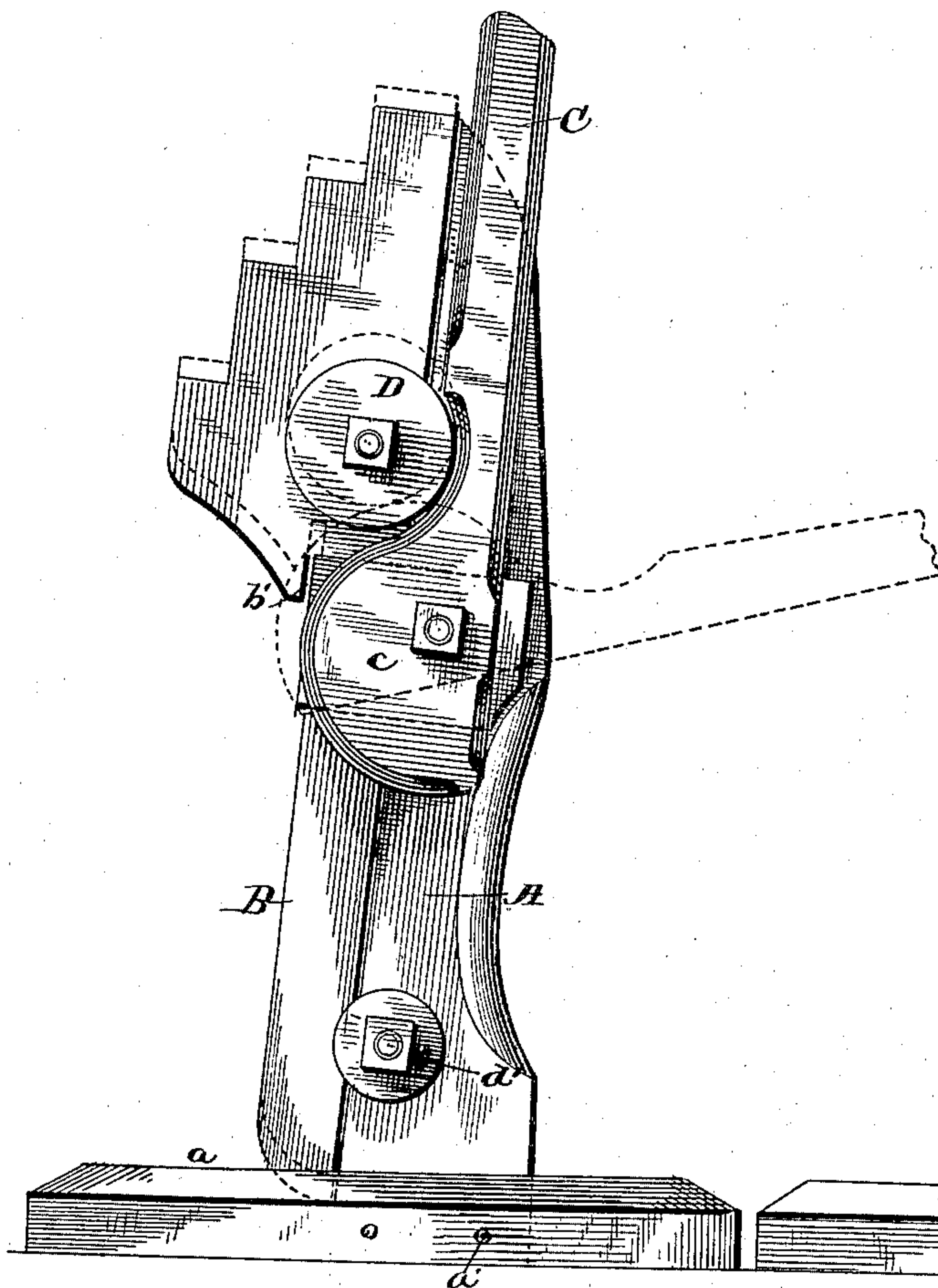
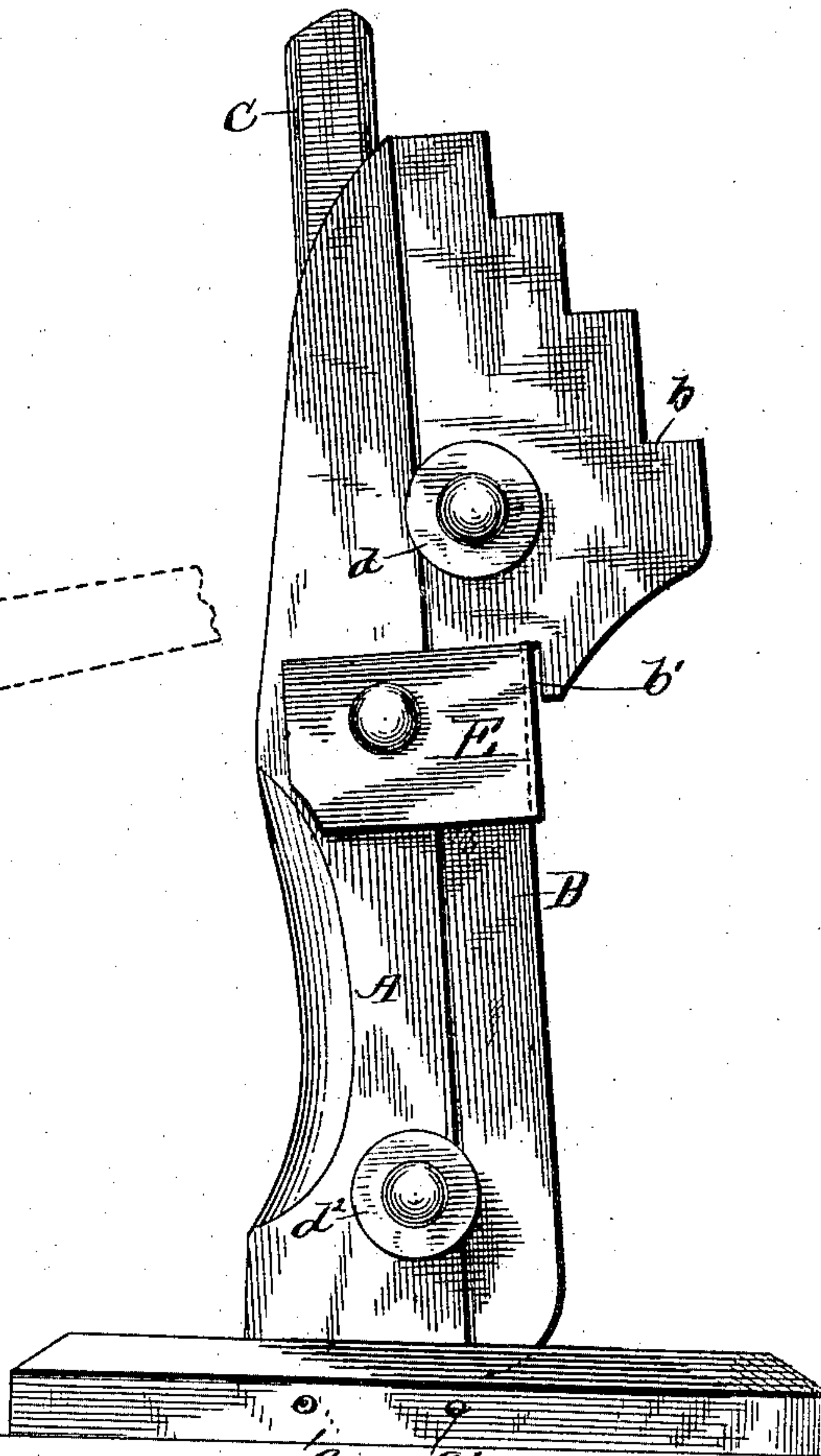


Fig. 2.



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UNITED STATES PATENT OFFICE.

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LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 313,794, dated March 10, 1885.

Application filed January 24, 1885. (No model.)

To all whom it may concern:

Be it known that I, GEORGE C. WIMPEE, a citizen of the United States, residing at Rome, in the county of Floyd and State of Georgia, have invented a new and useful Improvement in Lifting-Jacks, of which the following is a specification.

My invention relates to lifting devices of the class known as "wagon-jacks," and has for its object the production of a wagon-jack of simple construction and of a limited number of members, so combined and arranged that friction of the movable parts is reduced to a minimum, all as hereinafter described, and specifically pointed out in the claims.

Referring to the accompanying drawings, in which like letters of reference point out similar parts of each figure, Figure 1 is a side view of my improved wagon-jack, and Fig. 2 is a view of the obverse side thereof.

In the drawings, A is the standard; *a*, the sill or foot-piece; B, a movable post provided with steps *b*, common to devices of this character; C, a lever having an eccentric cam end, *c*; D, a pulley or friction-roller; *d d' d''*, pivoted disk-guides; E, a stirrup. The lever C is pivoted to the standard A, the pivot-pin passing through said standard, its opposite end being provided with a revolving disk, *d*, on the reverse side of the standard. Said standard is pierced at its lower part to receive a pin, onto which, at either end, is nutted a guide-disk, *d' d''*. The peripheries of these disks extend beyond the front edge of said standard, and partly embrace the movable post B, acting as a guide or channel through which said post can pass upward and downward without risk of lateral displacement. The standard A is supported upon a sill, *a*, composed of two parallel strips which embrace the foot of the standard A, said sill-strips and standard being firmly connected by means of bolts *a' a'*, leaving an intermediate opening, which will receive the lower end of the leg B, as plainly shown in the drawings. The movable post B has steps *b*, and at the lower end of the stepped upper part it is cut away, forming an open slit, *b'*, which when the jack is at rest falls over the upper part of the stirrup E, and prevents said post from falling downward beyond a predetermined dis-

tance. Said stirrup E is firmly attached to the standard, its front portion forming an open bow through which the leg of the post B can freely move.

Pivoted to the back part of the post B is a fulcrum-pulley, D, which acts also as a friction-roller. It is so attached that it partly overlaps the front portion of the standard A, and in like manner upon the opposite end of its pivot, upon the opposite side of the post B, is a rotatable disk, *d*. The operative lever C has its cam-head so formed that the pulley D will rest upon and take into its upper inverted curve. The back edge of the lever, when elevated, is about in alignment with the rear edge of the standard A, while the cam extends forwardly over the side of the post A, as plainly shown in Fig. 1.

The operation of my device will be readily understood from the drawings. At rest it will be in the position shown in solid lines, the post B being interlocked over the stirrup E. When the lever C is depressed, (see dotted lines,) the cam will take against the fulcrum-pulley D, which will turn as it is pressed against, and the effect will be to elevate the post B. At the same time said pulley will turn on its pivot, as will also the disk *d* on its pivot, and the post B will be raised without any frictional resistance. It cannot be laterally displaced, its leg being embraced within the stirrup E, also between the friction-roller and the several disks, as before described.

Having now fully described my invention, what I claim is—

1. A wagon-jack having a standard, A, attached to a sill, *a*, provided with guide-disks *d' d''*, and a pivoted cam-headed lever, C, in combination with a stepped post, B, provided with a pivoted pulley, D, arranged as described, as and for the purpose intended, substantially as described.

2. In a wagon-jack, the pivoted cam-headed lever C, in combination with a pivoted fulcrum-pulley, D, arranged at one side of the movable post B, said pulley partly overlapping one side of the standard A, substantially as described.

3. In a wagon-jack, the movable post B, having its leg embraced within a stirrup, E, attached to a standard, in combination with

guide-disks $d' d^2$, attached to said standard and overlapping the sides of said post, and pivoted pulley D, and rotatable disk d , attached to said post and overlapping said standard, substantially as described.

5 4. A wagon-jack consisting of the following combined elements: a sill, a , attached to standard A, having pivoted thereto a cam-ended lever, C, and guide-disks $d' d^2$, and stirrup E,

a movable post, B, stepped at its upper part, 10 and provided with pivoted fulcrum-pulley D and guide-disk d , as and for the purpose intended, substantially as described.

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Witnesses:

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