

No. 646,299.

Patented Mar. 27, 1900.

A. J. F. MILLER.

LIFTING JACK.

(Application filed Aug. 20, 1899.)

(No Model.)

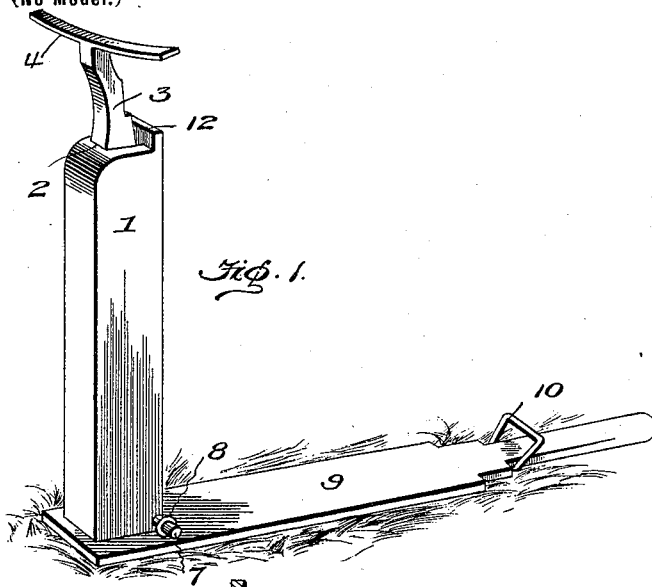


Fig. 1.

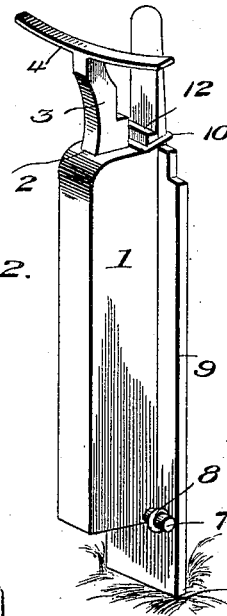


Fig. 2.

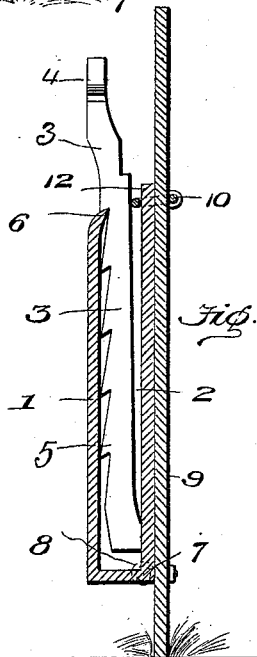


Fig. 3.

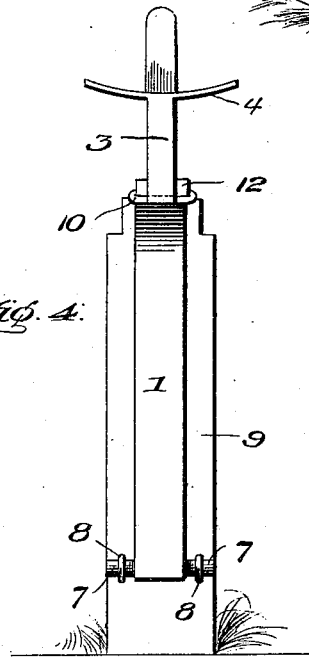


Fig. 4.

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UNITED STATES PATENT OFFICE.

AUGUST J. F. MILLER, OF CENTRALIA, ILLINOIS.

LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 646,299, dated March 27, 1900.

Application filed August 29, 1899. Serial No. 728,887. (No model.)

To all whom it may concern:

Be it known that I, AUGUST J. F. MILLER, a citizen of the United States, residing at Centralia, in the county of Marion and State of Illinois, have invented certain new and useful Improvements in Lifting-Jacks; and I do 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.

My invention relates to improvements in lifting-jacks; and the object is to improve and simplify the construction and increase the utility, convenience, and durability of the device.

To this end the invention consists in the construction, combination, and arrangement of the several elements of the device, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a perspective view of my improved lifting-jack as it appears ready for use. Fig. 2 is a similar view showing the jack in actual use. Fig. 3 is a longitudinal section through the jack when in the position shown in Fig. 2. Fig. 4 is a front elevation of the jack.

1 denotes the rectangular shank, which is provided with a pocket 2 to receive the staff 3, carrying the yoke 4 and provided with the ratchet-shaped teeth 5, which engage the supporting-tooth 6, formed integral with the shank 1. The lower end of said shank is provided with trunnions 7 7, which have a bearing in the eyebolts 8 8, fixed in the hand-lever 9 a short distance above its lower edge, and 10 denotes a retaining-link hinged to the lever 9 near its upper end and adapted to drop over a projecting lug 12 on the shank and lock the handle parallel with the shank, as shown in Figs. 2 and 3.

The operation, being extremely simple, hardly needs further description, for by referring to Fig. 1 it will be seen that the shank is placed under the axle with the hand-lever lying on the ground. The jack-staff is then

adjusted to the axle and the lever brought to a vertical position parallel with the shank, thereby raising the latter a height corresponding to the distance between the bolt-eyes 8 and the end of the hand-lever.

A very important feature of this construction is that when the vehicle has been raised by the jack the link 10, when in engagement with the lug 12, drops in behind the staff 3, so as to rigidly lock it on the tooth 6. Therefore any jarring of the vehicle will not affect the staff in its relation to the jack, as it is impossible to release the staff until the link is raised.

The device is simple, powerful, and effective in operation and easily and quickly adjusted to different heights and when not in use can be folded into small space for transportation and storage.

The quick adjustment above referred to is effected or obtained by putting different teeth 5 of the lifting-staff 3 in contact with the fixed supporting-tooth 6 of the shank 1 and placing the yoke 4 under the axle of the vehicle, with the hand-lever 9 resting upon the ground, as shown in Fig. 1. The lever 9 is then brought to the vertical position parallel with rectangular shank and raises the rectangular shank vertically a height equal to the distance between the eyebolts 8 8 and the lower end of the hand-lever 9, and the retaining-link is then dropped over the upwardly-projecting lug 12 and locks the raised or extended portion and maintains the axle in the elevated position.

It will of course be understood that various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

A lifting-jack, comprising the tubular shank formed with a rigid tooth 6, near its upper end and a projection 12; a longitudinal lug and lateral trunnions; in combination with the jack-staff provided with the yoke 4, on

its upper end, and formed with ratchet-shaped
teeth 5; the hand-lever having bearings 8, 8,
for the trunnions 7, 7, and provided with a
pivoted link 10, adapted to engage and be
5 disengaged from the projection 12, substan-
tially as specified.

In testimony whereof I have hereunto set

my hand in presence of two subscribing wit-
nesses.

AUGUST J. F. MILLER.

Witnesses:

CHAS. P. BELT,

THOMAS H. BOUSER.