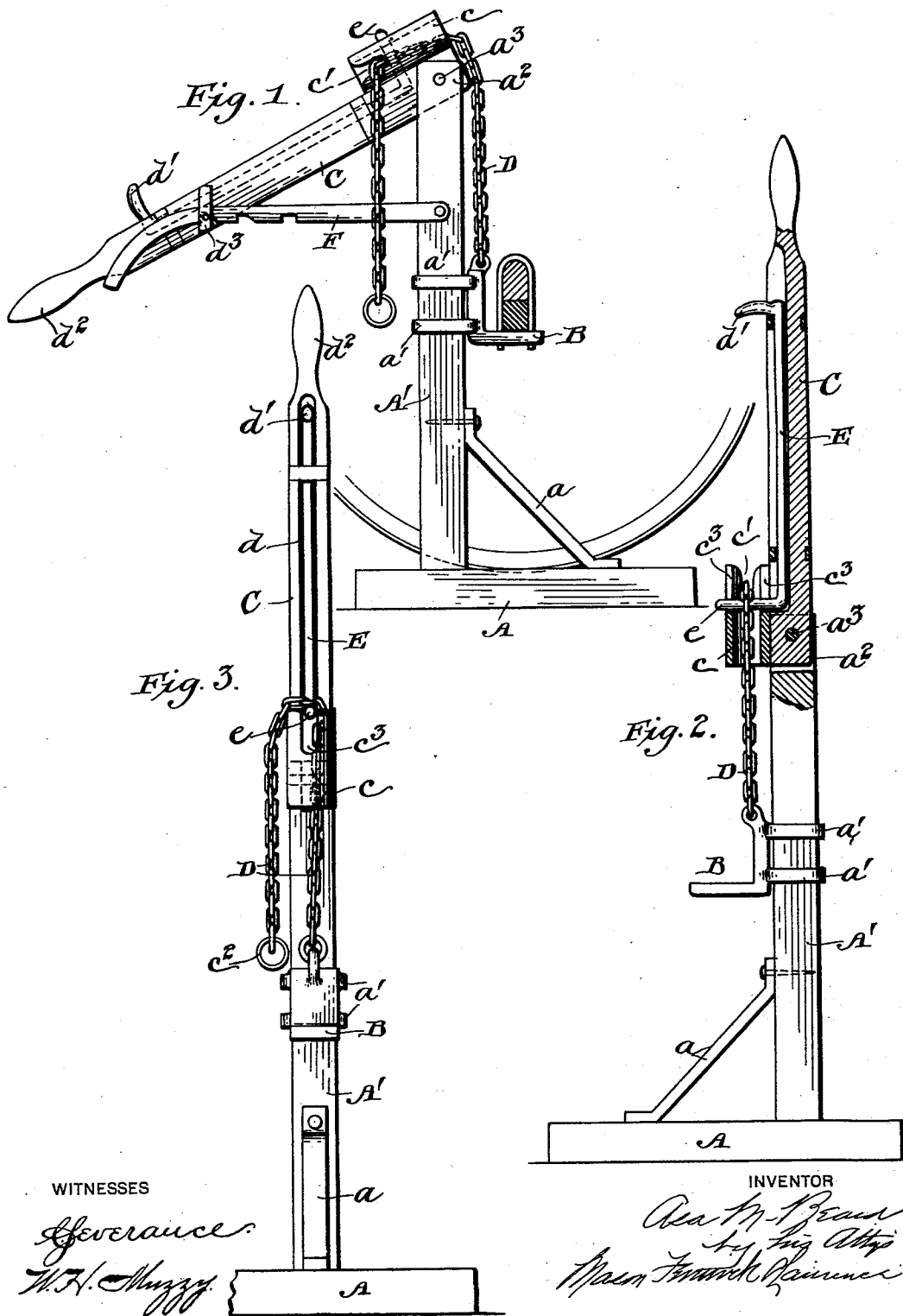


(No Model.)

A. M. BEARD.
WAGON JACK.

No. 569,080.

Patented Oct. 6, 1896.



WITNESSES

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WAGON-JACK.

SPECIFICATION forming part of Letters Patent No. 569,080, dated October 6, 1896.

Application filed March 3, 1896. Serial No. 581,695. (No model.)

To all whom it may concern:

Be it known that I, ASA M. BEARD, a citizen of the United States, residing at New Boston, in the county of Hillsborough and State of New Hampshire, have invented certain new and useful Improvements in Wagon-Jacks; and I do hereby 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 wagon-jacks; and the invention consists of the combination of a supporting-standard, a lever pivoted on the same, a movable lifting-hook mounted on said standard, and means for connecting the hook and the pivoted lever whereby the former is raised and lowered upon the movement of the latter.

It also consists of certain other novel constructions, combinations, and arrangements of parts, all of which will be hereinafter more particularly set forth and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 represents a side elevation of my improved jack applied to a wagon-axle. Fig. 2 represents a side elevation, partly in section, of my improved jack with the operating-lever in its raised position; and Fig. 3 represents a front elevation of said jack, showing the releasing-hook raised and the chain in its released position.

A in the drawings represents the base-plate; A', the supporting-standard mounted thereon; B, the sliding lifting-hook; C, the operating-lever, and D the lifting-chain.

The standard A' is mounted on the base A in an upright position, and is secured in such position by a brace *a*. The sliding lifting-hook B is angular in formation, and is movably mounted on the standard A' by straps *a'*, with which it is provided. This hook B is raised and lowered on the standard by the lifting-chain D, which is attached to said hook and extends up through a sleeve *c*, mounted on the lower end of the lever C, the latter being pivoted in the upper bifurcated end *a*² of the standard by a pivot-pin *a*³. The chain D passes up through the sleeve *c* and through a notch *c'* cut in the wall of said sleeve, and is provided at its end with a restraining-ring

*c*². The said sleeve *c* is also provided with two vertical slots *c*³ *c*³, formed in its walls on diametrically opposite sides.

The angular end *e* of a sliding chain-releasing rod E is adapted to work in this slot to lift the links of the chain out of the notch *c'* and allow the lifting-hook B to descend. The rod E is mounted in a vertical slot *d* in the lever D, and is provided at its upper end with an operating-handle *d'*, by which it may be raised or lowered. The upper end of the lever D is also provided with an operating-handle *d*². This lever is held down in the position shown in Fig. 1 by a notched lever F, having one end pivoted on the standard. The curved outer end of the lever F works through a strap *d*³ on the lever C when said latter lever is in the position shown in Fig. 1, the notches in said lever F engaging the strap *d*³ and holding the lever C in any of its adjusted positions.

When the jack is to be used, the lever C is raised into the position shown in Fig. 2 and the hook B placed under the axle. The lever C is then drawn backward into the position shown in Fig. 1 and the hook B raised, the chain being prevented from slipping through the sleeve *c* by one of its links catching in the notch *c'*. If it is desired to lower the hook B into a lower engaging position, the releasing-rod E is operated and the chain lifted out of the notch *c'*, when the weight of the hook will cause the chain to run through the sleeve. Great leverage can be secured by my lever C in its peculiar relation to the sleeve *c*.

Having now described my invention and in what manner the same is to be performed, what I claim as my invention is—

1. In a lifting-jack, the combination of a supporting-standard, a lifting-hook mounted on the same, a lever pivoted at the upper end of the standard and provided with a notched sleeve, a chain passing through the notched sleeve and connected to the lifting-hook, the construction and operation being such that the sleeve alone engages the chain and acts as a lever in raising it, substantially as described.

2. In a lifting-jack, the combination of a supporting-standard, a lifting-hook mounted on the same, a lever pivoted at the upper end of the standard and provided with a notched

sleeve, a chain connected to the lifting-hook and passing directly upward through the sleeve, and a notched lever attached to the standard and adapted to engage a portion of
5 the pivoted lever to hold it in any of its adjusted positions, substantially as described.

3. In a lifting-jack, the combination of a supporting-standard, a lifting-hook mounted on the same, a lever pivoted on said standard
10 and provided with a notched sleeve, a chain passing through the notched sleeve, engaging

the notch therein and attached to the lifting-hook, and a sliding rod for disengaging the chain from the notch in the sleeve, substantially as described.

In testimony whereof I hereunto affix my
signature in presence of two witnesses.

ASA M. BEARD.

Witnesses:

SABRA A. BEARD,
ADELINE MCLANE.