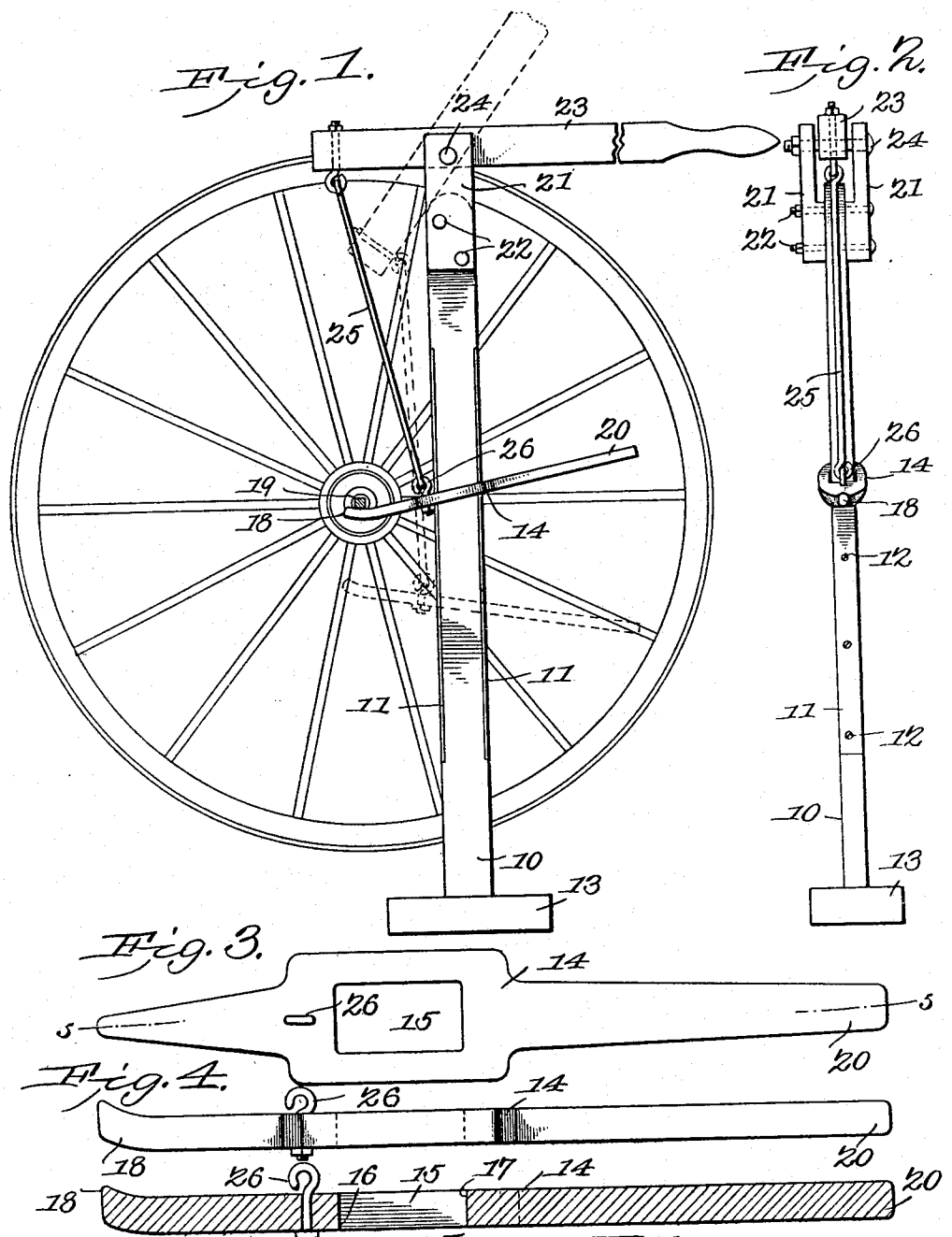


Dr. F. H. Smith

J. H. ABRAMS.
LIFTING JACK.
APPLICATION FILED NOV. 7, 1905.



Witnesses

E. H. Stewart
L. L. Morrill

Fig. 5. John H. Abrams, Inventor.

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UNITED STATES PATENT OFFICE.

JOHN H. ABRAMS, OF IOWA CITY, IOWA.

LIFTING-JACK.

No. 835,231.

Specification of Letters Patent.

Patented Nov. 6, 1906.

Application filed November 7, 1905. Serial No. 286,234.

To all whom it may concern:

Be it known that I, JOHN H. ABRAMS, a citizen of the United States, residing at Iowa City, in the county of Johnson and State of Iowa, have invented a new and useful Lifting-Jack, of which the following is a specification.

This invention relates to lifting-jacks, and has for an object to provide a jack embodying new and improved features of simplicity, convenience, adaptability, and efficiency.

A further object of the invention is to provide a jack arranged to automatically hold the load at any point.

With these and other objects in view the present invention consists in the combination and arrangement of the parts, as will be hereinafter fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made without departing from the spirit or sacrificing any of the advantages of this invention.

In the drawings, Figure 1 is a view of the improved jack in side elevation. Fig. 2 is a view of the improved jack in end elevation. Fig. 3 is a plan view of the clutch-bar. Fig. 4 is a view of the clutch-bar in side elevation. Fig. 5 is a longitudinal sectional view of the clutch-bar, taken on line 5 5, Fig. 3.

Like characters of reference indicate corresponding parts in all of the figures of the drawings.

In its preferred embodiment the improved lifting-jack forming the subject-matter of this application comprises a standard 10, formed, preferably, of a strip of wood, with straps of metal 11 secured along its planes of lesser dimension, as by the screws 12, resting on a foot or base 13. Upon the standard is mounted the clutch-bar 14, having an opening 15 embracing the standard and provided with corners 16 and 17, arranged to bite the edges thereof. At one end the clutch-bar is provided with a turned-up or hooked portion 18, adapted to engage beneath a load, as the axle 19 of a vehicle. At the end opposite the hook the clutch-bar is

extended to form a handle 20 for releasing the clutch.

To the upper end of the standard 10 are secured the ears 21, as by the bolts 22, and therebetween is pivoted the lever 23, as by the pin 24. From the short end of the lever 23 a link 25 extends and is secured to the clutch-bar at 26, an eye between the hook 18, and the standard 10.

It will be readily seen that a load upon the hook 18 will hold the handle 20 above the eye 26, as in Fig. 1, and in that position the clutch-bar will slide freely upward along the standard 10 under a strain from the lever 23, but that the instant the lifting ceases the corners 16 and 17 will securely grip the edges protected by the straps 11 and hold the load at that height. When the load is to be lowered, the handle 20 may be depressed, which will release the clutch and the load allowed to drop, or it may be lowered as gently as desired by means of the lever.

In Fig. 1 is shown in dotted line the clutch-bar lowered to a position to engage beneath a load and with the clutch-bar in normal position, while in full line the device is shown as sustaining a load and the clutch-bar in the position it assumes while lifting.

Having thus described the invention, what is claimed is—

1. A lifting-jack comprising a standard, a clutch-bar provided with opening for the reception of the standard and having one end formed into a hook to engage the load and the other end formed into a handle, and lifting means connected to the bar between the hook and the standard.

2. A lifting-jack comprising a standard, a clutch-bar provided with an opening for the reception of the standard and having one end formed into a hook to engage the load and the other end formed into a releasing-handle, a lever pivoted upon the top of the standard and a link connecting the end of the lever to the bar between the hook and the standard.

3. In a lifting-jack, a standard, a clutch-bar carrying a work-engaging hook and slidably mounted on the standard, the said clutch-bar being provided with an opening embracing the standard and having corners

disposed to bite the edges of the standard, a
lever pivoted upon the upper end of the
standard, a link connecting the lever and the
clutch-bar, a work-engaging hook carried by
5 the bar in such position as to force the cor-
ners of the opening into engagement with the
standard and a handle carried by the bar for
releasing the bar.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature 10
in the presence of two witnesses.

JOHN H. ABRAMS.

Witnesses:

CHARLES ANGUS,
WALTER O. GRANIER.