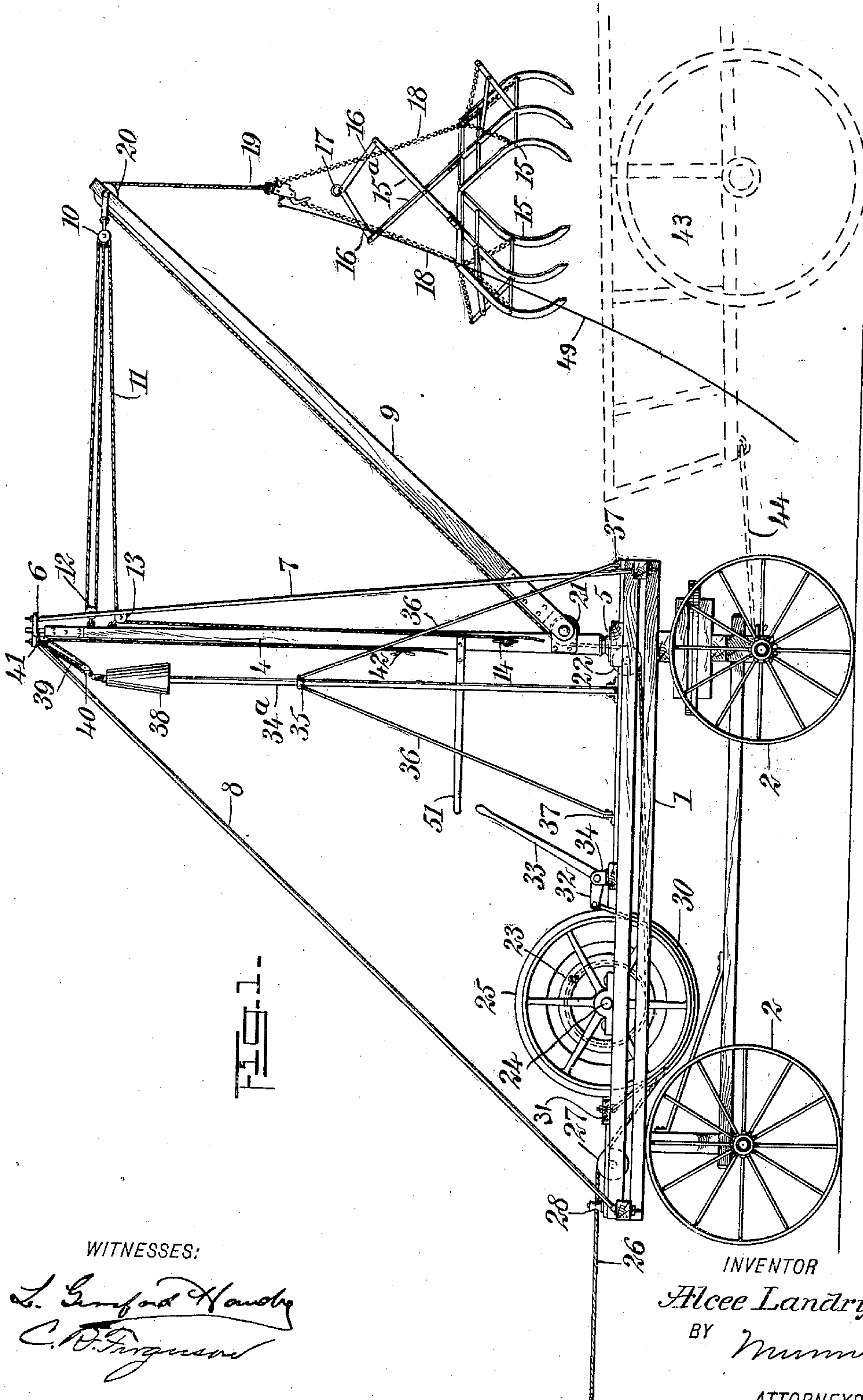


No. 832,392.

PATENTED OCT. 2, 1906.

A. LANDRY,
LOADING APPARATUS.
APPLICATION FILED APR. 24, 1906.

2 SHEETS—SHEET 1.



WITNESSES:

L. Sanford Handy
C. R. Ferguson

INVENTOR

Alcee Landry

BY

Mum & Co

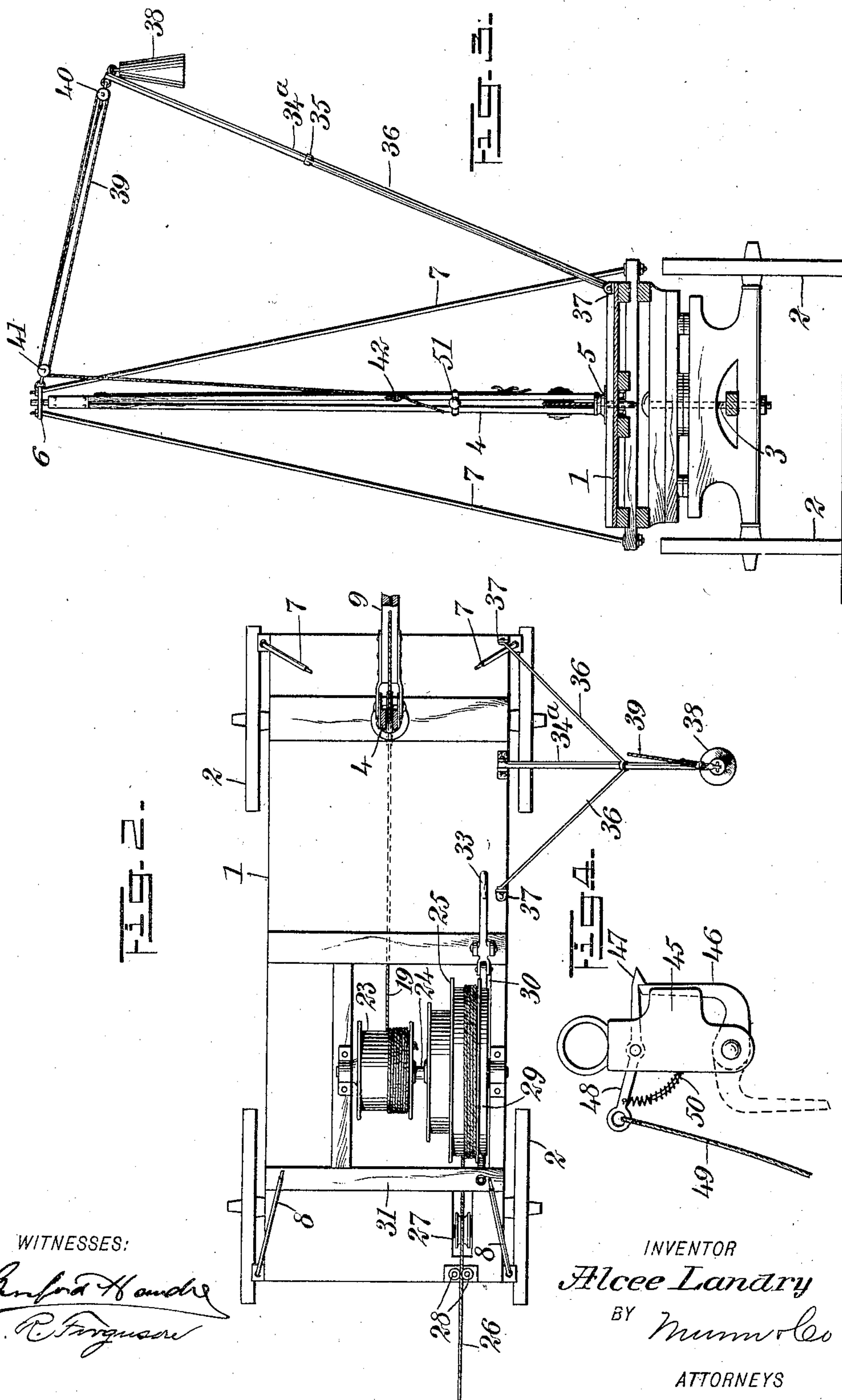
ATTORNEYS

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A. LANDRY.
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APPLICATION FILED APR. 24, 1906.

2 SHEETS—SHEET 2.



WITNESSES:

L. Sanford Handley
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UNITED STATES PATENT OFFICE.

ALCEE LANDRY, OF MARK, LOUISIANA.

LOADING APPARATUS.

No. 832,392.

Specification of Letters Patent.

Patented Oct. 2, 1906.

Application filed April 24, 1906. Serial No. 313,448.

To all whom it may concern:

Be it known that I, ALCEE LANDRY, a citizen of the United States, and a resident of Mark, in the parish of West Baton Rouge and State of Louisiana, have invented a new and Improved Loading Apparatus, of which the following is a full, clear, and exact description.

This invention relates to improvements in apparatus particularly adapted for loading sugar-cane from the field onto wagons, the object being to provide a device of this character that will be simple in construction, having no parts liable to get out of order, and by means of which the work may be rapidly done with very little manual exertion.

I will describe a loading apparatus embodying my invention and then point out the novel features in the appended claims.

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

Figure 1 is a side elevation of a loading apparatus embodying my invention. Fig. 2 is a plan thereof on a reduced scale and with parts in section. Fig. 3 is a cross-section, and Fig. 4 is a detail showing a grappling device employed.

The loading apparatus comprises a body 1, mounted on wheels 2, and extended upward from the body 1, preferably over the king-bolt 3, is a mast 4, the lower end of which engages in a step-bearing 5, while the upper end rotates in a plate 6, from which guy-rods 7 extend downward to connection with the front portion of the body, and guy-rods 8 extend from said plate to connection with the rear portion of the body. These guys support the mast in vertical position, but permit free rotation thereof. Having swinging connection with the mast near its lower end is a boom 9, having at its upper end a tackle-block 10, around which an adjusting-rope 11 passes, the said rope having a turn around a pulley 12 and thence around another pulley 13, attached to the mast, and when the boom is adjusted the end of the rope may be secured to a cleat 14 on the mast. The grappling-hook consists of members 15, having upwardly-extended arms 15^a, which are connected by links 16, having a ring 17, the object of which will hereinafter appear.

The grappling-hooks have chains 18 extended from their outer portions to connection

with a rope 19, which passes over a pulley 20 at the upper end of the boom, and this rope 19 then passes downward over a pulley 21 at the lower end of the boom, and from this pulley 21 the rope passes underneath a pulley 22, mounted on the body, and thence to a drum 23, mounted on a shaft 24, and also on this shaft 24 is an operating-drum 25 for receiving a drawing-rope 26, which is wound on the drum 25 in an opposite direction to the winding of the rope 19. This drawing-rope 26 passes over a pulley 27 and between rollers 28, these rollers being concave, and they are designed to prevent frictional engagement of the drawing-rope with the body of the machine.

At the outer side of the drum 25 is a flange 29, with which a brake-band 30 engages, one end of the brake-band being secured to a cross-bar 31 on the body, and the other end is attached to the horizontally-disposed portion 32 of a brake-lever 33, which is pivoted in lugs 34 on the body portion.

Mounted to swing on one side of the body is a rod 34^a, and extended forward and rearward from a collar 35 on said rod are braces 36, the lower ends of which have pivotal connection with lugs 37, attached to the body. On the upper end of the rod 34^a is a weight 38, the object of which is to counterbalance the load that may be lifted by the grappling devices, thus preventing the overturning of the machine when such load is lifted, and the rod, with its weight, may be raised or lowered as occasion may require by means of a rope 39, which passes over a pulley-block 40 at the upper end of the rod 34^a and over a pulley-block 41 at the upper end of the mast, and when the rod, with its weight, is adjusted the end of the rope 39 is secured, by means of a cleat 42, in the mast 4.

In practice the apparatus is to be connected to a wagon in which the cane is to be deposited. This wagon, as indicated in dotted lines 43 in Fig. 1, is connected to the apparatus by a rod 44, which is also indicated in dotted lines.

Attached to the end of the rope 19 is a device for engaging with the ring 17 to hold the hook members 15 in engagement with the load to be lifted. This device consists of a block 45, pivoted to which is a hook member 46, which when in operative position engages with a latch 47, pivoted in the upper portion of the block 45, and opposite the latch end the latch-bar extends outward, as indicated

at 48, and to this portion 48 is secured a releasing-line 49. The latch is held yieldingly in engagement with the hook member 46 by means of a spring 50.

5 In the operation the grappling-hooks are to be lowered and passed around a bundle of cane and the hook member 46 engaged in the ring 17, and then the hook is to be moved upward to its locking engagement with the
10 latch 47. Of course at this time the chain 18 will be slack, and then as the draw-rope 26 is pulled out by a draft-animal the grappling-hooks will tightly grasp the load which is raised, and by means of a handle 51 on the
15 mast it may be turned to bring the load over the wagon 43. Then upon a quick downward pull of the line 49 the latch 47 will be drawn out of engagement with the hook 46, permitting the grappling-hooks to separate
20 and release the load of cane. At this time it will be understood that the brake-band is to be operated to stop the movements of the drums.

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

1. A loading apparatus comprising a wheel-mounted body, a mast mounted to turn
30 thereon, a boom having swinging connection with the mast, means for raising and lowering the boom, pulleys at the upper and lower ends of the boom, a rope passing over said pulleys, a pulley arranged in the body, around which said rope passes, a shaft arranged in
35 the body, a drum on said shaft with which said rope engages, another drum on said shaft, a draw-rope connected to said other drum, and a grappling device supported by said first-named rope.

40 2. A loading apparatus comprising a wheel-

mounted body, a mast mounted to rotate thereon, a boom having swinging connection with the mast, a grapple having connection with the boom, a rod having swinging connection with the body portion of the device, a
45 weight on the upper end of said rod, stay-rods for the weight-carrying rod and means for raising and lowering the rod and its weight.

3. A loading apparatus comprising a wheel-
50 mounted body, a mast mounted to rotate on the body, a boom having swinging connection with the mast, pulleys at the upper and lower ends of the boom, a rope extended over said pulleys, a grappling device attached to
55 the end of said rope, a pulley arranged in the body of the apparatus, a shaft on the body, a drum on said shaft with which said rope connects, another drum on the shaft, a draw-rope engaging with said other drum, and a
60 brake mechanism engaging with said other drum.

4. A loading apparatus comprising a wheel-mounted body, a mast mounted thereon, a
65 boom having connection with the mast, a grappling device supported by the boom, a rod having swinging connection with the body at one side, a weight on the upper end of said rod, means for raising and lowering the rod with its weight, and brace-rods ex-
70 tended downward from opposite sides of said weight-carrying rod and having pivotal connection with the body.

In testimony whereof I have signed my name to this specification in the presence of
75 two subscribing witnesses.

ALCEE LANDRY.

Witnesses:

H. V. GERMANY,
OCTAVE LEVERT.