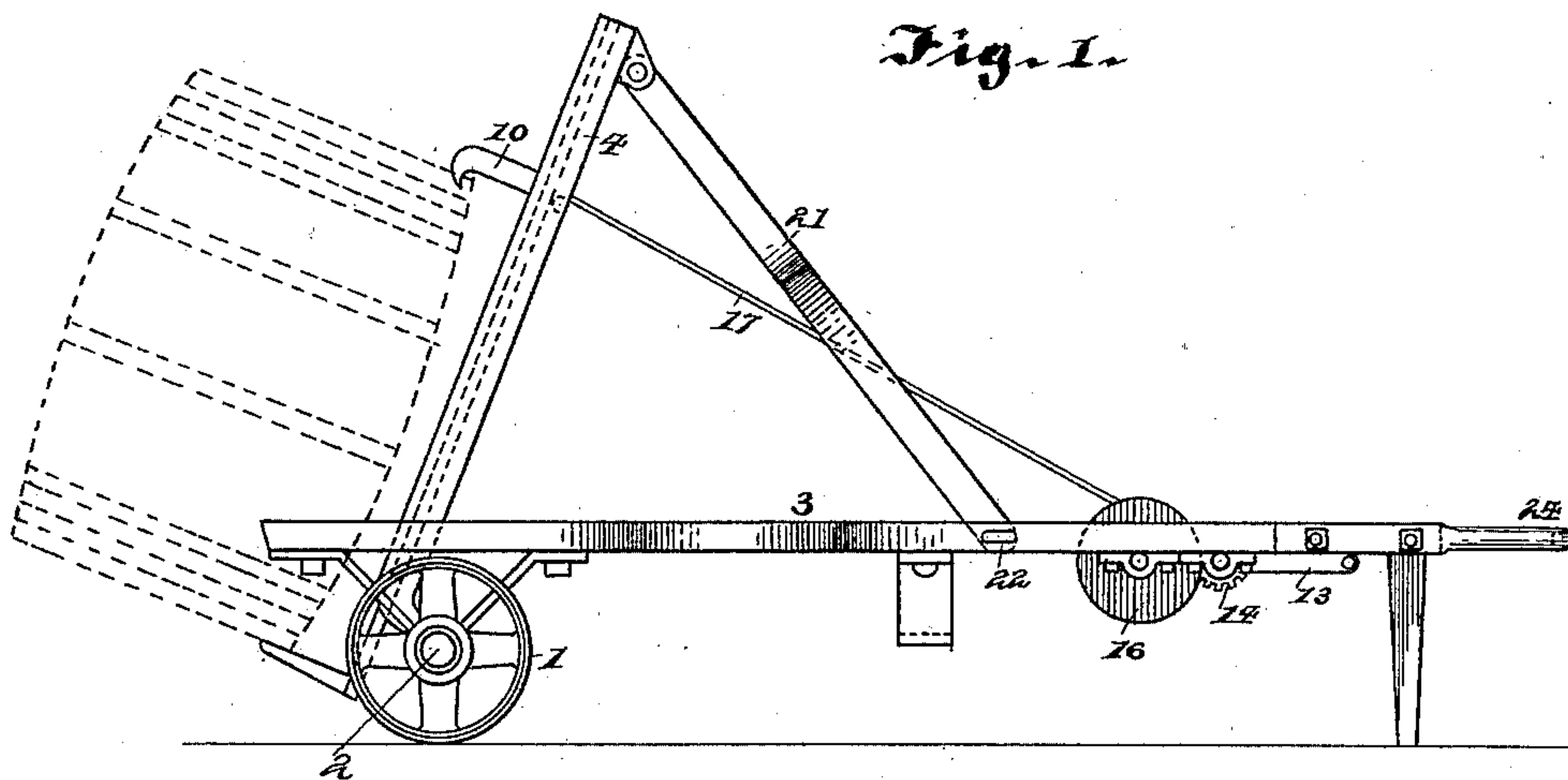


(No Model.)

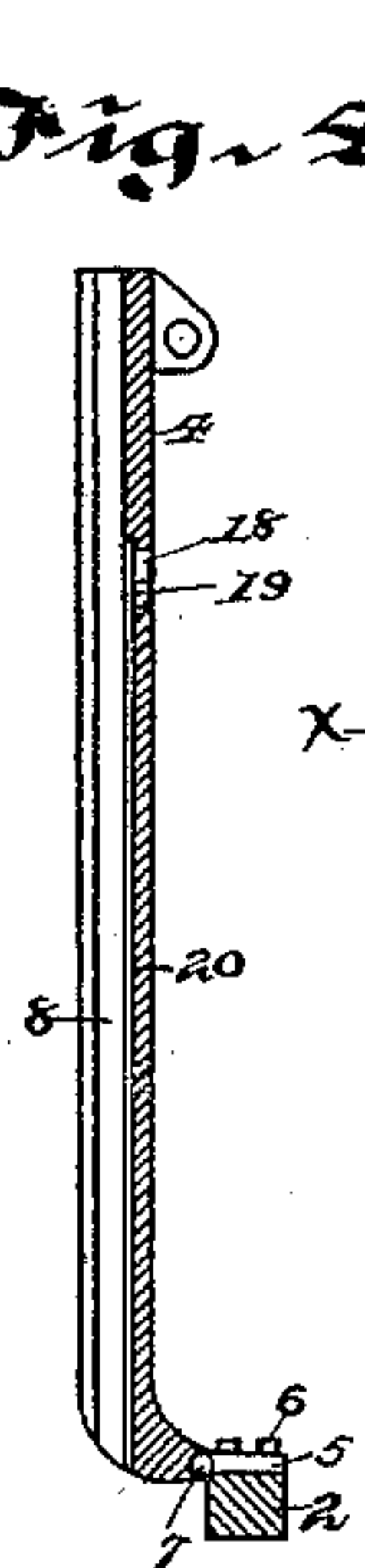
B. RIDDELL.  
HAND TRUCK.

No. 411,353.

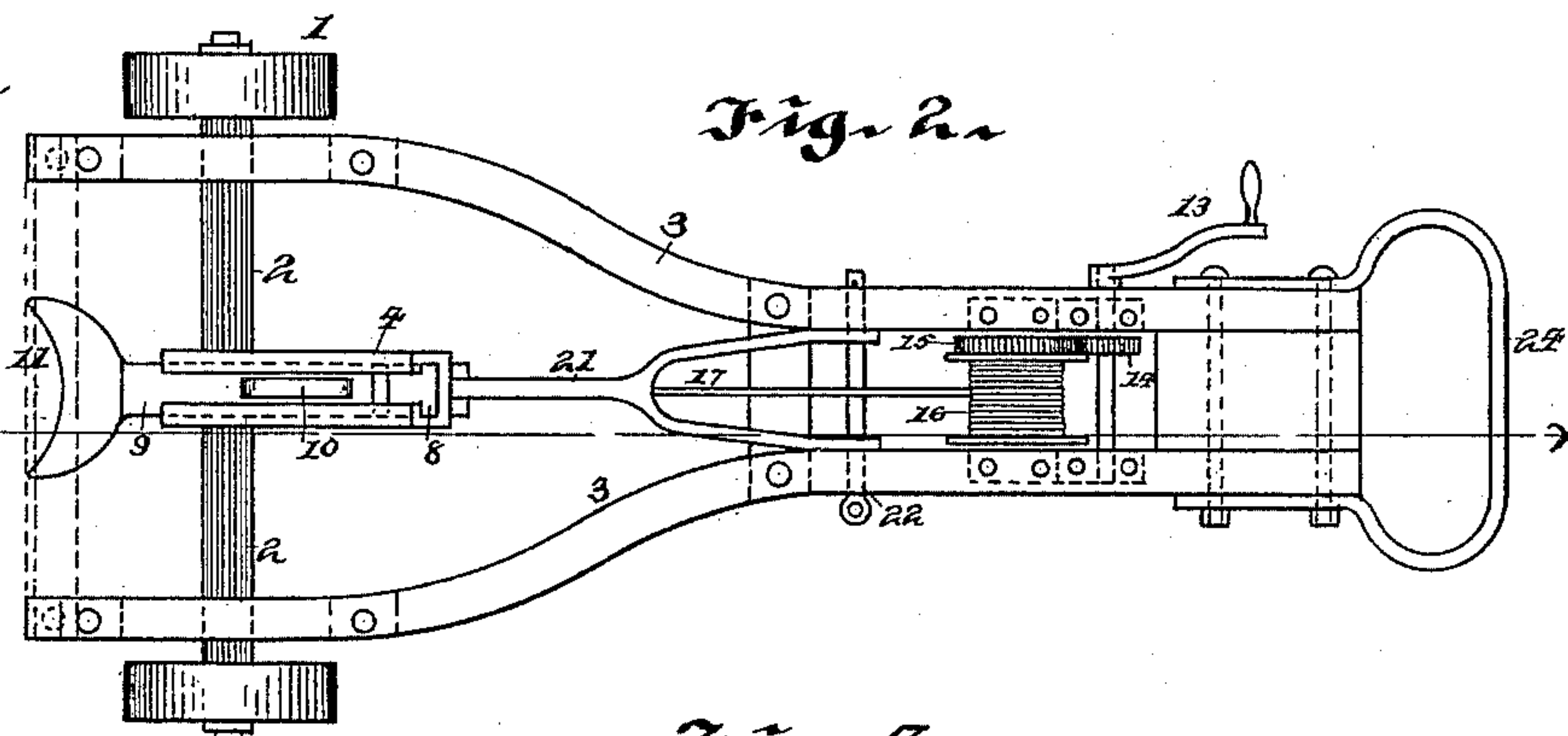
Patented Sept. 17, 1889.



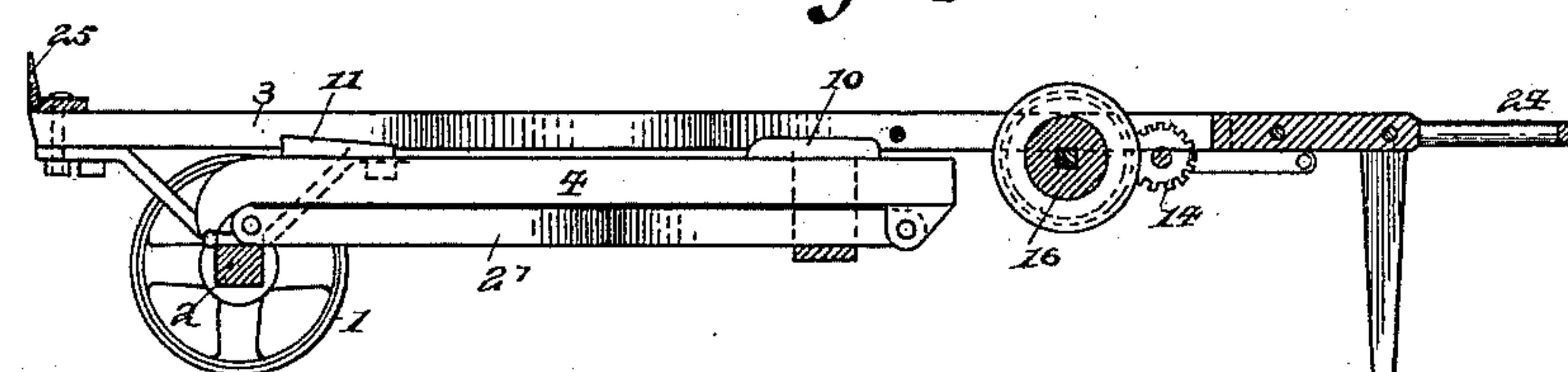
*Fig. 2.*



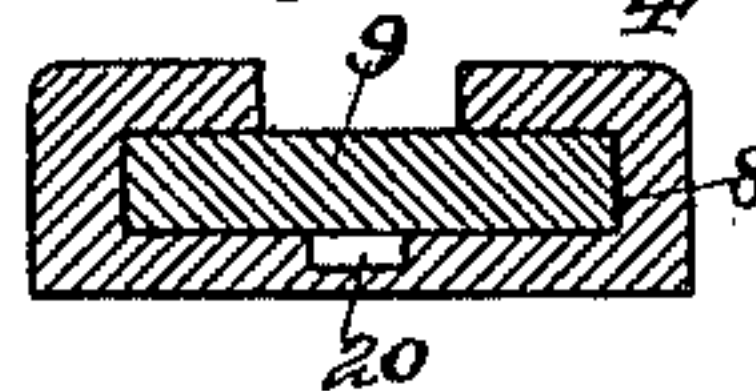
*Fig. 2.*



*Fig. 3.*



*Fig. 5.*



Witnesses

*Watson Sims*  
*T. Simmons*

Inventor

*Beriah Riddell*

By his Attorney

*Wood & Boyd*

# UNITED STATES PATENT OFFICE.

BERIAH RIDDELL, OF RUGBY, TENNESSEE.

## HAND-TRUCK.

SPECIFICATION forming part of Letters Patent No. 411,353, dated September 17, 1889.

Application filed June 20, 1889. Serial No. 314,958. (No model.)

*To all whom it may concern:*

Be it known that I, BERIAH RIDDELL, a citizen of the United States, and a resident of Rugby, in the county of Morgan and State of Tennessee, have invented certain new and useful Improvements in Truck-Jacks, of which the following is a specification.

The object of my invention is, first, to provide a jack attachment for a truck for lifting articles, such as barrels, &c.

Another object of my invention is to provide a truck and jack combined in which the jack can be folded in position on the truck, which is adapted for other uses.

The various features of my invention will be fully set forth in the description of the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation of my improvement in position for use for raising, showing a barrel in dotted lines. Fig. 2 is a top plan view of Fig. 1. Fig. 3 is a section on line  $x$ , Fig. 2, showing the truck in its folded position when used for boxes, &c. Fig. 4 is a detail view showing the foot of the jack and its attachment. Fig. 5 is an enlarged section of the jack.

1 represents the ground-wheels of the truck; 2, the axle; 3, the frame, which is preferably made open at the front end, with the sides diverging wide enough to receive the article to be lifted by the jack.

4 represents the jack-frame. It is attached to the axle 2 by means of the bracket 5 and bolts 6.

7 represents the hinged joint. The jack-frame 4 is provided with a T-groove 8, which forms ways in which moves the head-block 9, carrying a cant-hook 10, which is hinged in said block.

11 represents a hook, which is preferably hinged to the head-block 9, and forms the lower support for the barrel attachment, as shown in Fig. 1. The hook 10 forms the upper attachment piece, and they grasp the weight or barrel in the manners shown in Fig. 1.

In order to elevate the barrel, I provide a windlass, which consists of the crank 13, gears 14 15, and drum 16, over which passes the

rope 17. Said rope passes through an opening 18 in the rear end of the jack-frame 4.

19 represents a friction-pulley journaled opposite said opening, over which the rope passes.

20 represents a groove behind the head 9, the rope passes down said groove and is attached to the head-block 9. As the windlass is turned, the rope is wound around the drum and lifts the head-block, and the barrel is grasped by the hook and bracket. When the truck is desired to be used for other purposes, the brace 21 is detached from its connection with the frame at 22, the rope detached from the windlass, the windlass detached from the frame, and the center 7 and pin 22 are removed, which allows the jack to be taken off. This jack may be attached to an ordinary truck; but it is a feature of my invention to attach it to the peculiar truck herein shown, so that it may be folded down, as shown in Fig. 3, which brings the brace 21 and the jack-frame 4 and rope sufficiently below the front end of the frame 3 to allow objects to be carried thereon. I have shown the rear end of the truck-frame narrow, as it lightens the frame and makes it stronger for the amount of material employed.

24 represents the handle for propelling the frame.

25 represents a rail detachably connected to the rear end of the frame by the pivot-bolt 26. This rail, when the truck is to be used for ordinary objects, is placed in position across the frame, as shown in dotted lines, Fig. 2, and when the device is used for lifting barrels or other weights it is swung back or taken off.

Having described my invention, what I claim is—

1. The combination, with a wheeled truck-frame having a windlass, of a hinged swinging jack, a head-block sliding along and swinging with the hinged jack and provided with a foot-piece, a hook for respectively engaging opposite ends of a barrel or other object, and a cord or cable connection between the windlass and head-block, substantially as described.



2. A jack secured to a truck and composed of the swinging jack-frame 4, the head-block 9, hook 10, foot 11, the windlass, and the rope engaged with said head-block, substantially as herein specified.

5 3. In combination with a truck-frame, the jack 4, secured by the detachable hinge-joint at the lower end and a hinge-brace at the upper end, with windlass-and-cord attach-

ment, whereby said jack may be attached or detached from the truck-frame, substantially as specified.

In testimony whereof I have hereunto set my hand.

BERIAH RIDDELL.

Witnesses:

J. WATSON SIMS,  
T. SIMMONS.