

No. 858,804.

PATENTED JULY 2, 1907.

F. M. FOUNTAIN.
HORSE POWER.
APPLICATION FILED FEB. 9, 1907.

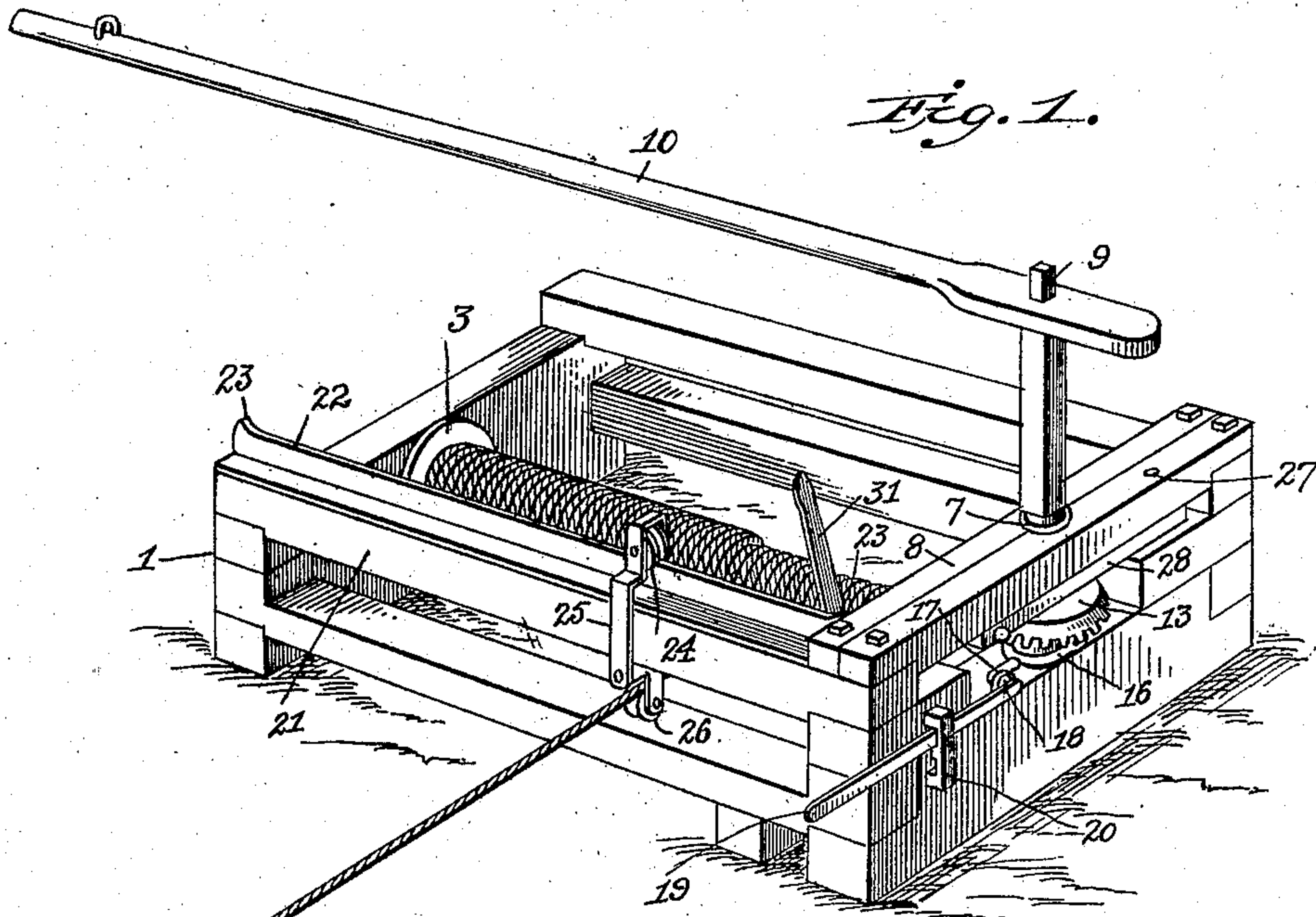


Fig. 2.

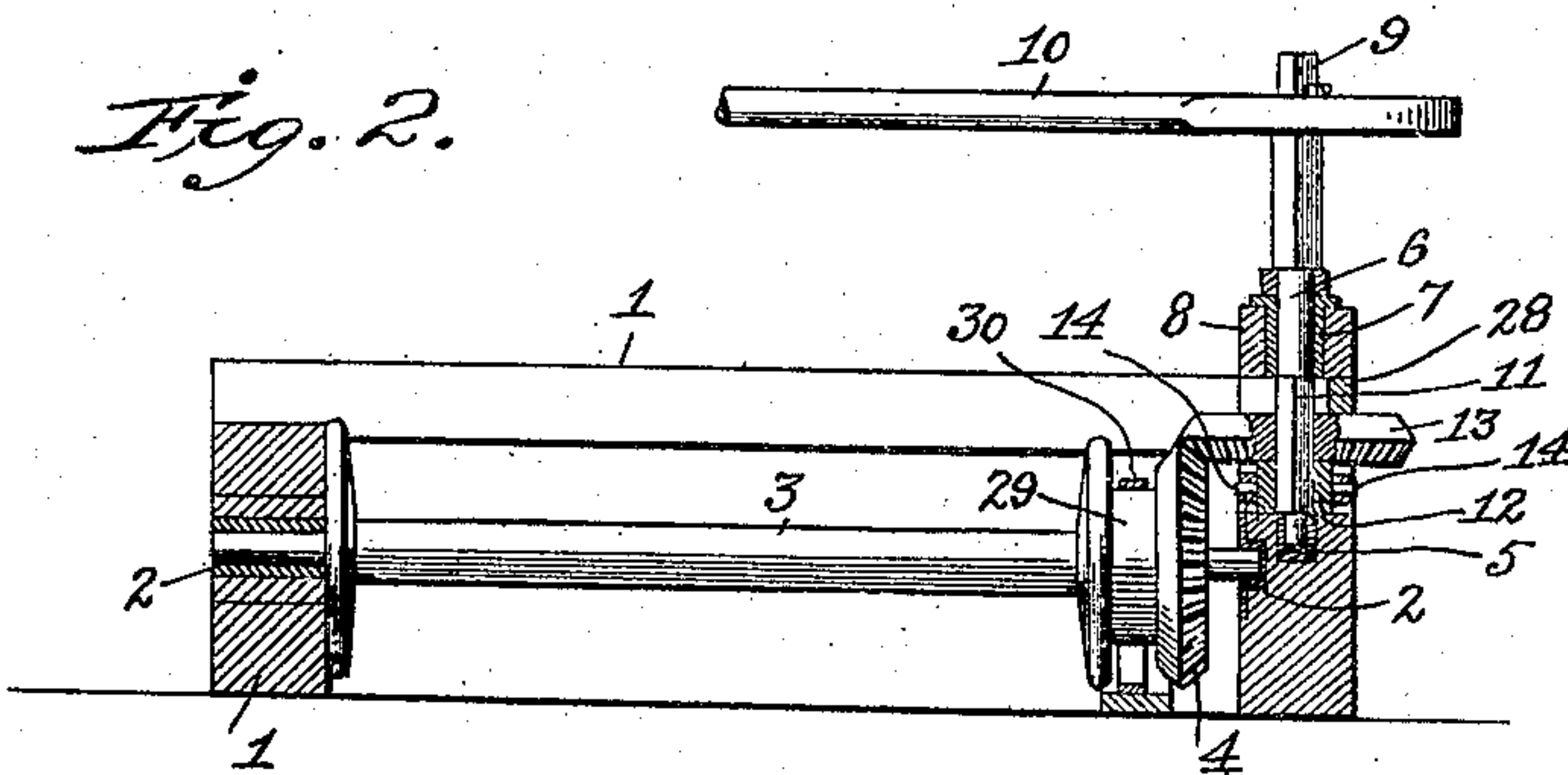


Fig. 3.

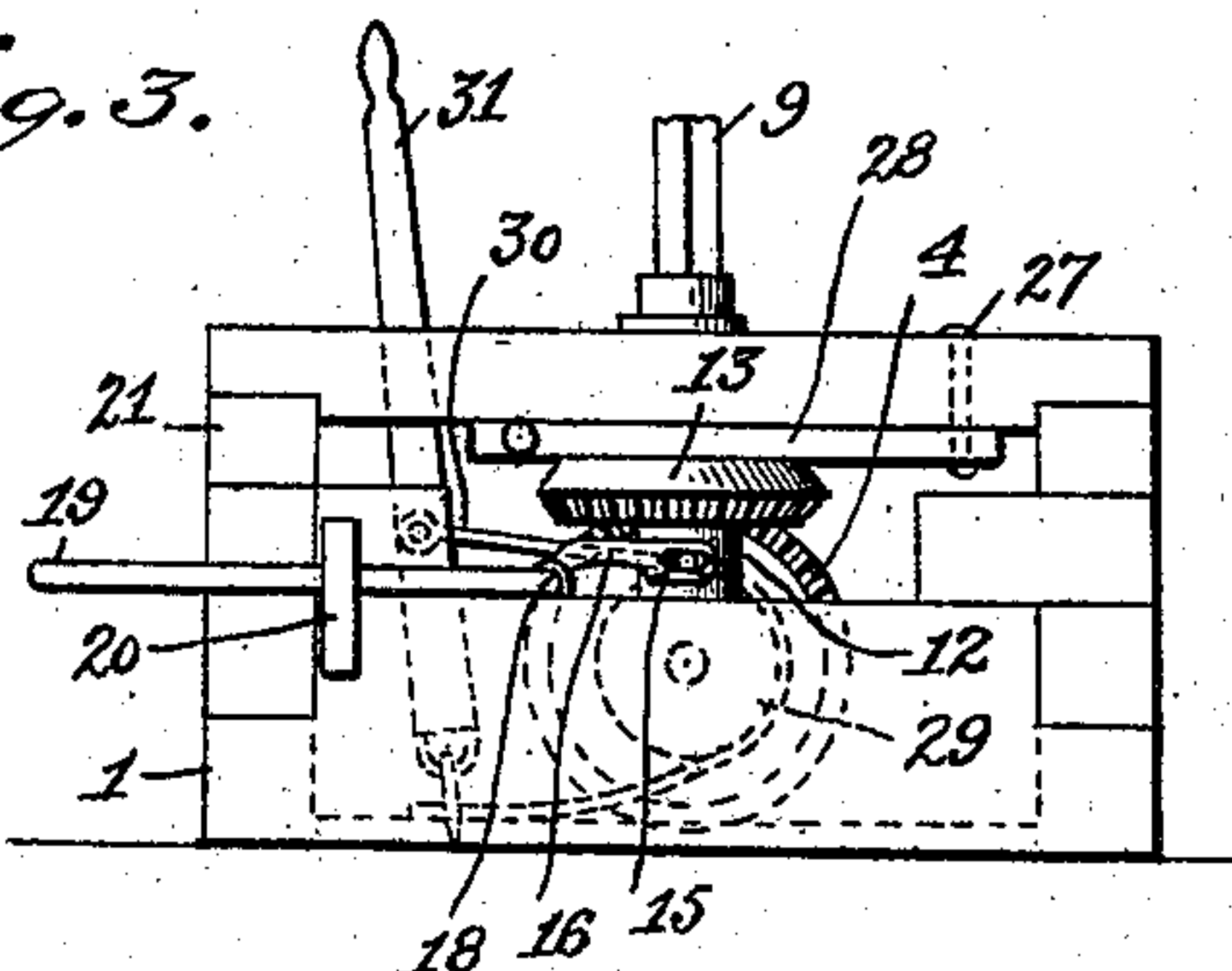
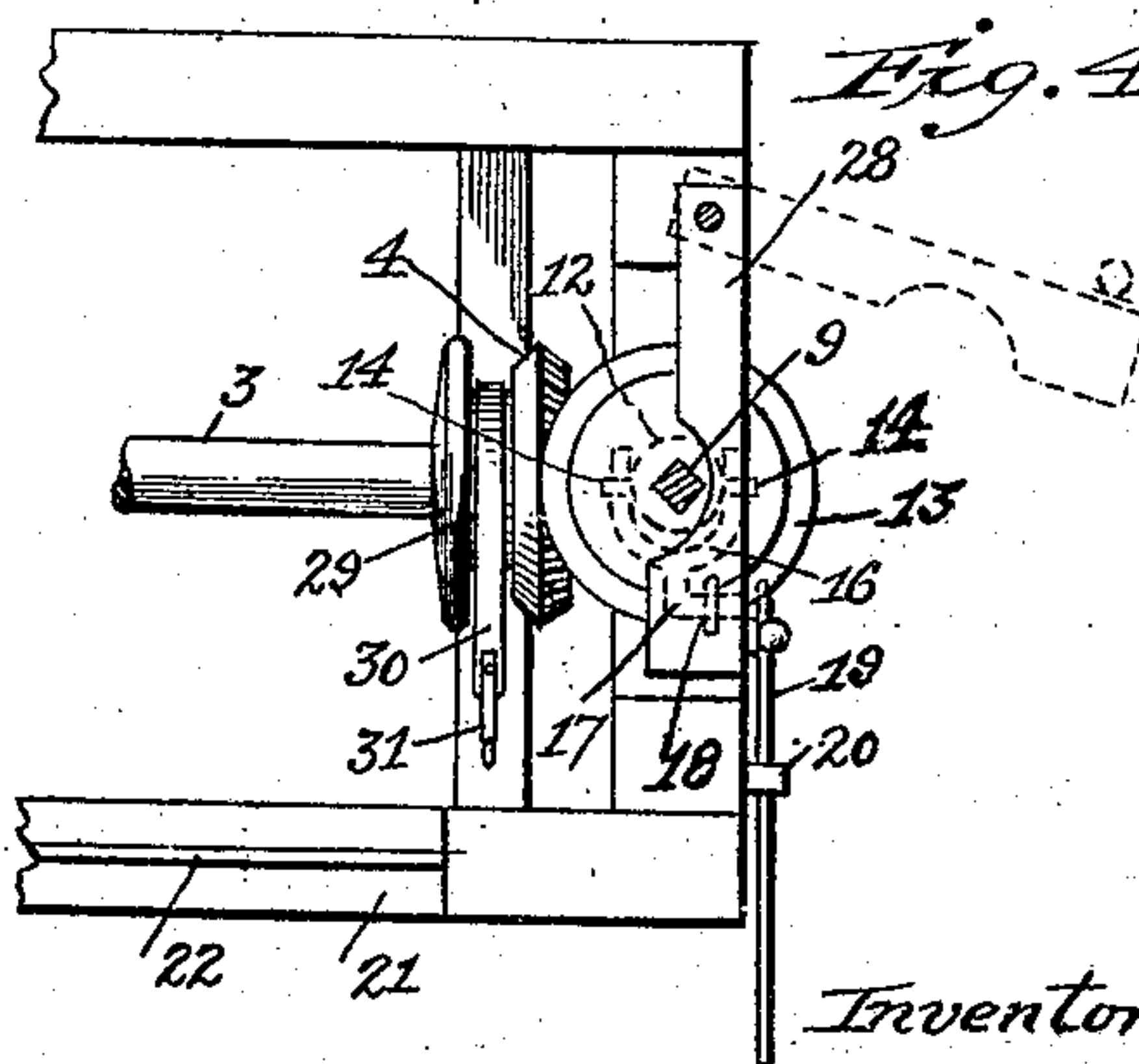


Fig. 4.



Witnesses

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HORSE-POWER.

No. 858,804.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRED M. FOUNTAIN, a citizen of the United States, residing at Claremore, in the Cherokee Nation, Indian Territory, have invented new and useful Improvements in Horse-Powers, of which the following is a specification.

My invention relates to horse powers, and has for its object to provide certain improvements in the same as will be hereinafter more definitely pointed out and claimed, references being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved device. Fig. 2 is a central longitudinal sectional view of the same, the winding drum being shown in full lines. Fig. 3 is an end elevation of the same. Fig. 4 is a top plan view of one end of the device the upper cross bar being removed.

Similar numerals of reference denote corresponding parts in the several views.

In the said drawing the reference numeral 1 denotes the frame-work of the device in bearings 2 in which is rotatably mounted the winding drum 3, carrying near one end a gear wheel 4. Vertically mounted in a bearing 5 in the frame-work is the lower end of a shaft 6, the same extending upwardly through a bearing 7 in the upper cross bar 8 of the frame-work, and having an upper squared portion 9 on which is keyed the usual sweep 10, and a lower squared portion 11, on which is mounted to rotate therewith, but vertically movable thereon, a sleeve 12 underlying a gear wheel 13 that meshes with gear wheel 4 on the drum 3, when said sleeve 12 and gear wheel 13 are in their lowermost positions. Said sleeve 12 has pintles 14 projecting from each side thereof that engage in V-shaped slots 15, in the bifurcated arms 16 of a lever 17, that is bent to form a pivot at 18, and is extended into an operating handle 19, disposed in a stop plate 20 on the side of the frame-work.

Fixed on the front bar 21 of the frame-work 1, parallel with the drum 3, is a track 22 having its ends upturned at 23, on which is adapted to freely run a roller 24 mounted in a hanger 25, said hanger extending downwardly beneath the front bar 21, and carrying the rope receiving pulley 26, as shown.

Pivoted at 27 in the cross bar 8 of the frame-work 1, and adapted to swing beneath said cross bar, is a lock bar 28, said bar when swung beneath said cross bar 8 snugly filling the space between said cross bar and the underlying gear wheel 13 to retain the latter in mesh

with gear wheel 4. Passing around an enlarged portion 29 on the drum 3 is a strap brake 30, connected to an operating lever 31.

From the above description the operation of my improved construction will be understood as follows: With the parts in the position shown in the drawing the gears 4 and 13 are retained in mesh by the lock bar 28, and motion imparted to the sweep 10 by the horse will be transmitted to the drum 3, to wind the rope thereon, the hanger 25 running freely on track 22, following said rope to and fro as it winds on said drum, said hanger as it reaches the inclines 23 on said track at each end riding up the same, whereby it is checked, so that the rope will commence to wind up in the opposite direction on the drum 3, thereby preventing said rope from building up at one end, and causing it to wind in even layers back and forth on said drum. To disconnect the drum 4 from the sweep 10, the lock bar 28 is drawn out to the position shown in dotted lines in Fig. 4, thereby releasing gear wheel 13, which may then be raised out of mesh with gear wheel 4, by depressing the end 19 of lever 17, which by rocking on its pivot 18 will raise sleeve 12 and gear wheel 13.

To permit the gradual slackening of the rope when the gear wheels 4 and 13 are disengaged, I provide the strap brake 30, whereby the rotation of drum 3 may be controlled, it being observed that the operating lever 31 of said strap brake and the handle 19 of lever 17, are so located with respect to each other that one workman can simultaneously operate both.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. In a horse-power, a frame-work, a winding drum therein, a vertical shaft therein, a sweep connected to said shaft, a fixed gear wheel on said drum, a gear wheel vertically shiftable on said shaft, means for moving said shiftable gear wheel into and out of mesh with said fixed gear wheel, and means independent of the gear shifting means for locking said gear wheels in mesh.

2. In a horse-power, a frame-work, a winding drum therein, a vertical shaft therein, a sweep connected to said shaft, a fixed gear wheel on said drum, a gear wheel vertically shiftable on said shaft, means for moving said shiftable gear wheel into and out of mesh with said fixed gear wheel, and a lock bar pivoted to said frame-work and adapted when in its closed position to retain said shiftable gear wheel in mesh with said drum gear wheel.

3. In a horse-power, a frame-work, a winding drum therein, a vertical shaft therein, a sweep connected to said shaft, a fixed gear wheel on said drum, a gear wheel vertically shiftable on said shaft, a sleeve connected to said latter gear wheel, pintles on said sleeve, a bifurcated lever having slotted ends engaging said sleeve and pivoted in-

intermediate its length on said frame-work whereby said sleeve and its gear wheel may be shifted vertically into and out of mesh with the drum gear wheel, and a lock bar pivoted to said frame-work and adapted when in its
5 closed position to retain said shiftable gear wheel in mesh with said drum gear wheel.

4. In a device of the character described, a frame-work, a winding drum therein, means for rotating said drum, a rope guide, a track upon which said rope guide is

adapted to travel having its ends upturned to reverse the 10 direction of travel of said rope guide, whereby the rope will be wound upon said drum in even layers.

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

FRED M. FOUNTAIN.

Witnesses:

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