

No. 726,326.

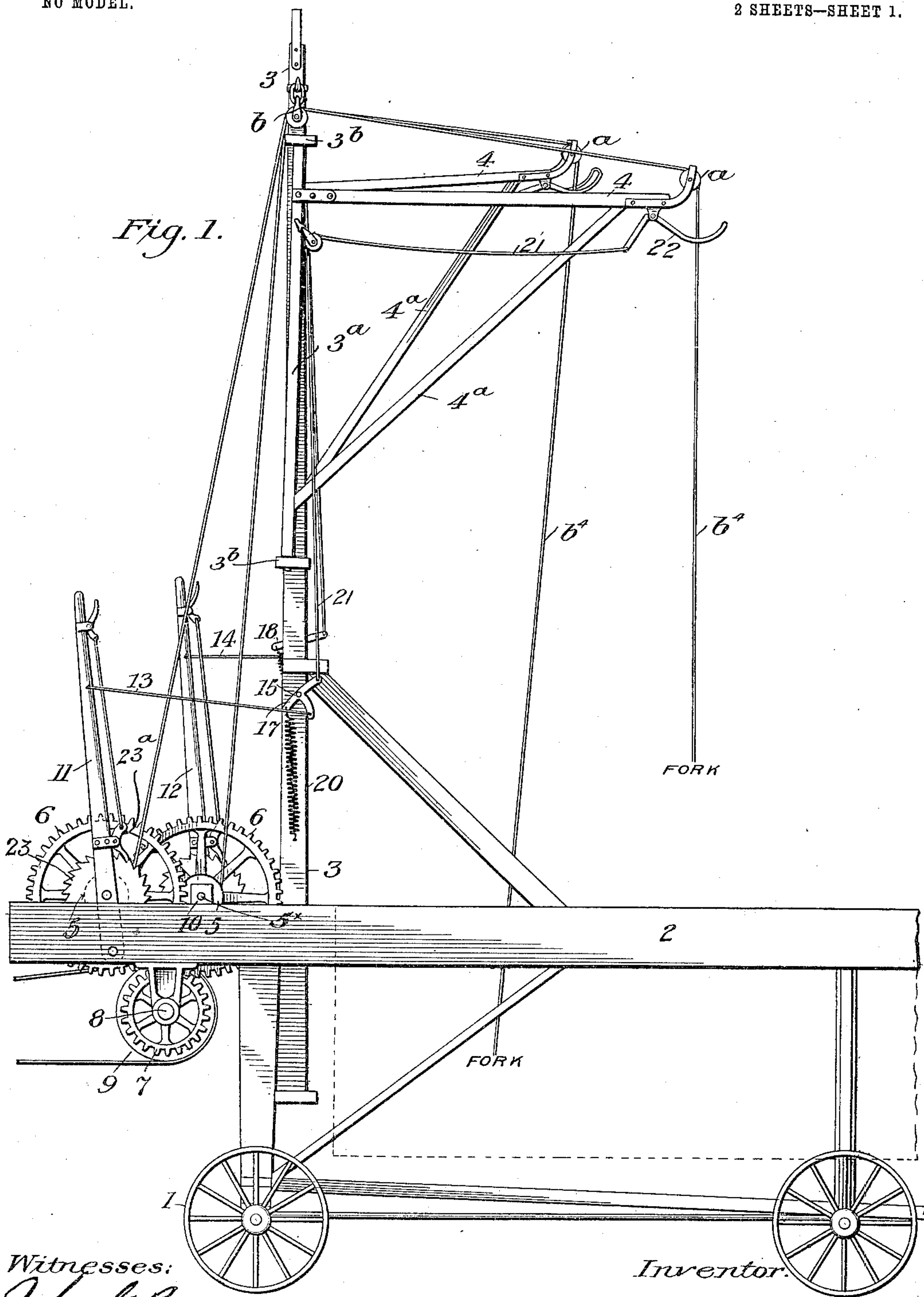
PATENTED APR. 28, 1903.

W. H. MILTON.
WHEAT PITCHING MACHINE.

APPLICATION FILED MAR. 21, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



Witnesses:
John A. Bridwell
Charles W. Cronk

Inventor:
W. H. Milton

No. 726,326.

PATENTED APR. 28, 1903.

W. H. MILTON.
WHEAT PITCHING MACHINE.
APPLICATION FILED MAR. 21, 1902.

NO MODEL.

2 SHEETS—SHEET 2.

Fig. 2.

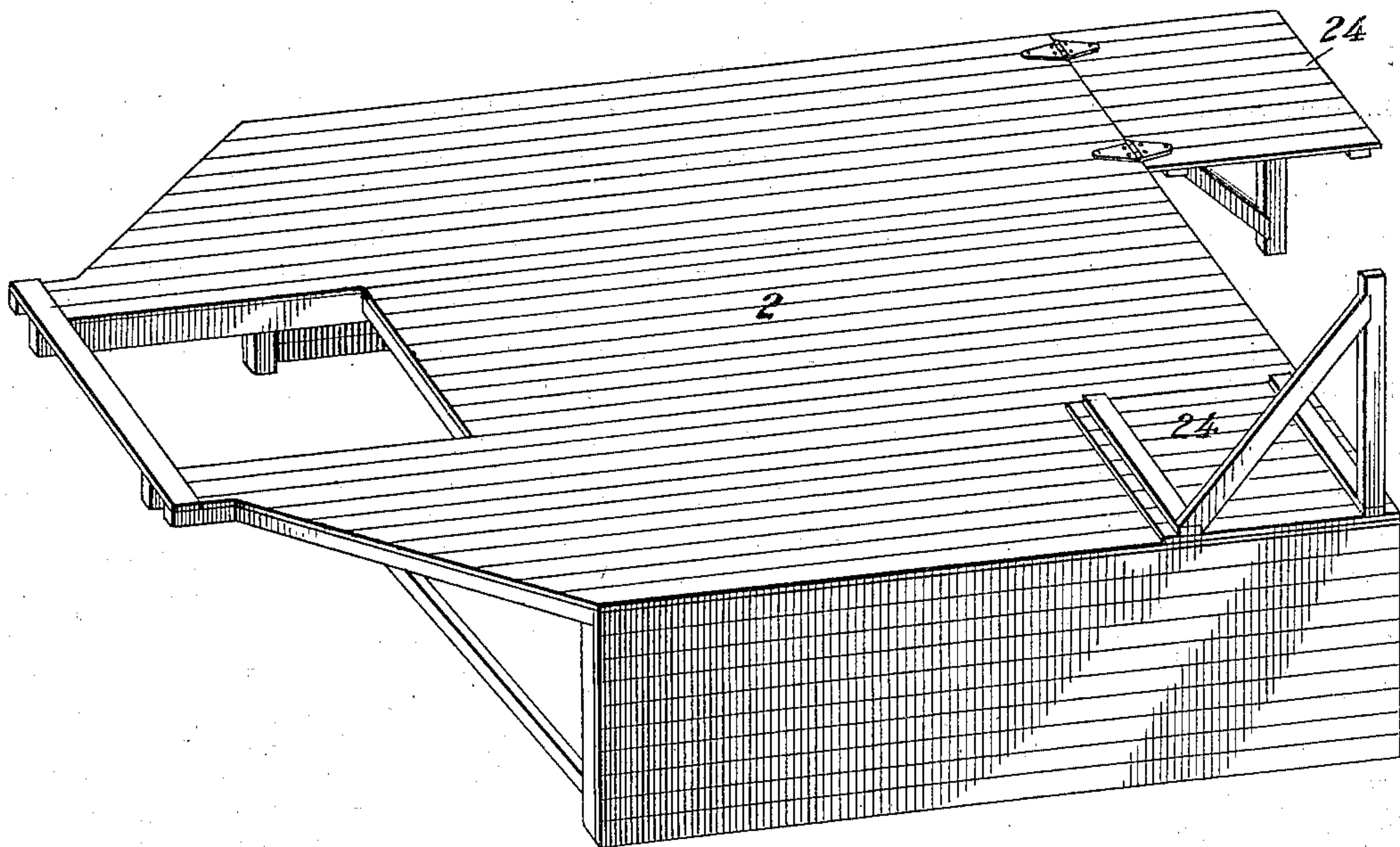


Fig. 3.

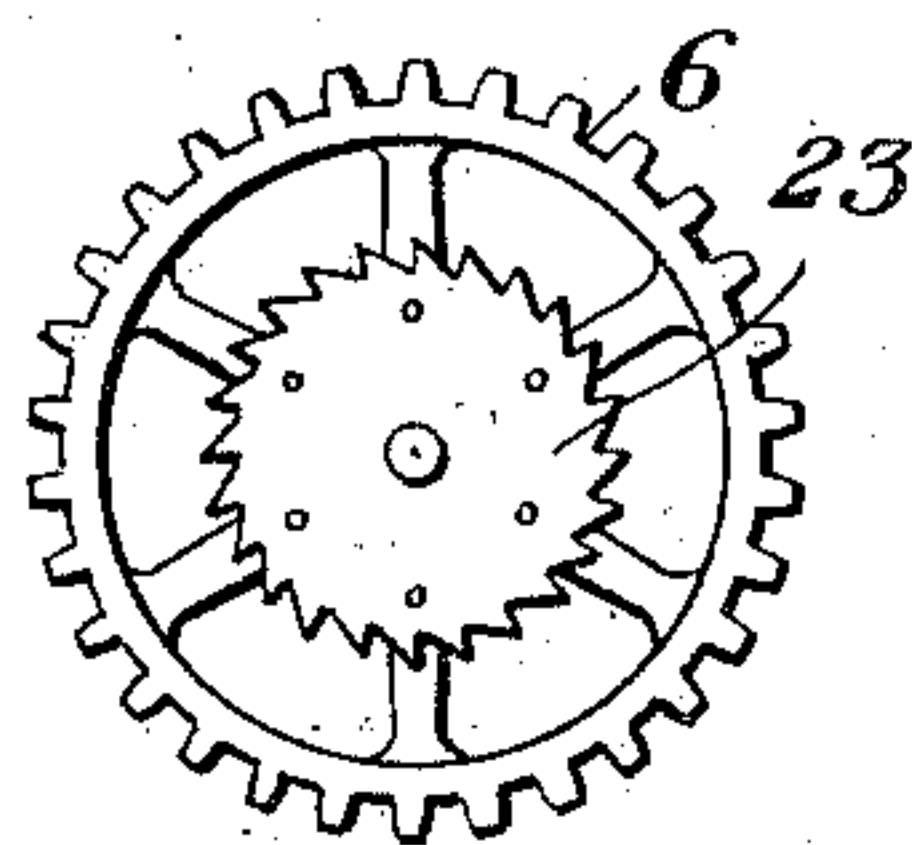


Fig. 4.

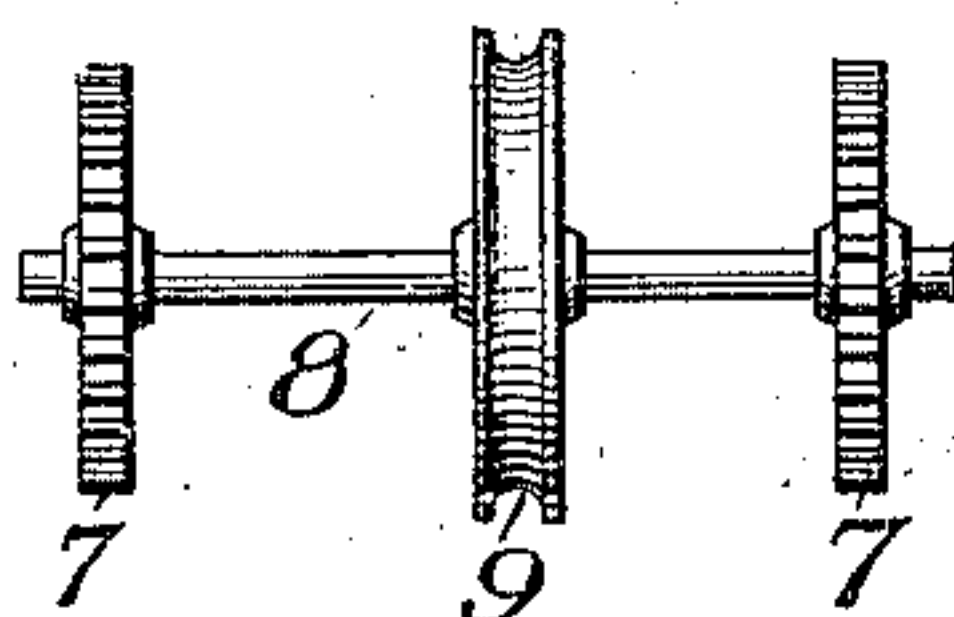
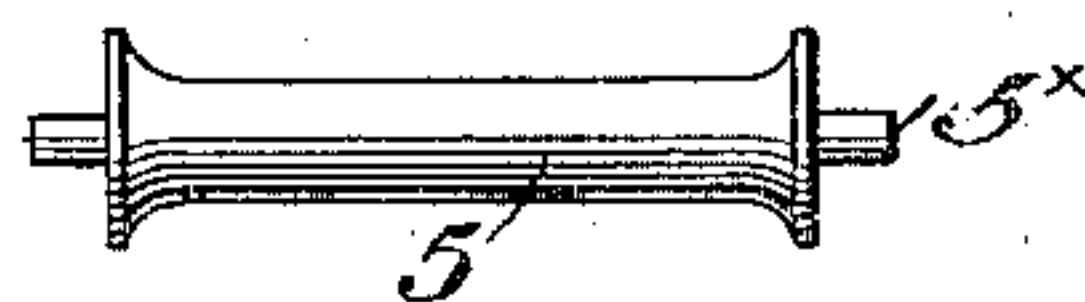


Fig. 5.



Witnesses:
John L. Bridwell
Charles W. Conk

Inventor:
W. H. Milton

UNITED STATES PATENT OFFICE.

WILLIAM H. MILTON, OF STAFFORD, KANSAS.

WHEAT-PITCHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 726,323, dated April 28, 1903.

Application filed March 21, 1902. Serial No. 99,270. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. MILTON, a citizen of the United States, residing at Stafford, in the county of Stafford and State of Kansas, have invented a new and useful Wheat-Pitching Machine, of which the following is a specification.

This invention relates to improvements in wheat-pitching devices, and has for its object a simple and durable construction of mechanism and one easily operated whereby two bundles are successively raised, the one as the hoisting-rope of the other is being lowered, whereby a great saving of time is effected; and for this purpose it consists of the combination and arrangement of parts hereinafter set forth and claimed.

In the drawings forming a portion of this specification, and in which like characters of reference indicate similar parts in the several views, Figure 1 is an elevation showing a wheat-pitching machine provided with a gearing constructed in accordance with the present invention. Fig. 2 is a perspective view showing the top and side of platform. Fig. 3 is a sectional view showing the way in which the large cog-wheel and ratchet-wheel are made or fastened together. Fig. 4 is an end view showing the grooved belt-wheel for rope belt and the two small cog-wheels, all on the same shaft. Fig. 5 is a view showing the drums that the large cog-wheels and ratchet-wheels are fastened on.

Secured to the frame of the truck 1 is the platform 2, on which the operating mechanism of the device constituting my invention is supported. Mounted on the platform 2 is the mast 3, having rotatably secured thereto the upright bar 3^a, which carries the booms 4 4. The bar 3^a is journaled in brackets 3^b, attached to said mast 3, and the booms are provided with the braces 4^a 4^a, which are connected at the upper ends with the said booms and at their lower ends with the bar.

The ropes 4^b, to which the forks or other devices which engage the bundles of wheat are attached, pass over pulleys *a a*, respectively, on the outer ends of the booms and over the pulleys *b* on the mast and are connected with the drums 5 5. These drums are mounted on shafts 5^x 5^x, each of which at one end is journaled in a box 10 and at the other

end in one of the levers 11 or 12, each of which is pivoted at its lower end to the platform 2. A drive-shaft 8 receives power from any suitable source by means of the belt-pulley 9 thereon and conveys the same to either one of the drums by means of the engagement with one of the pinions 7 thereon with a gear-wheel 6 on the shaft 5^x of the drum. A ratchet-wheel 23, either integral with or secured to the side of a wheel 6 in connection with a pawl 23^a, prevents the said wheel 6 from rotating when not in use. It will be seen that by operating either of the levers 11 and 12 a drum-shaft 5^x may be connected with the driving-shaft. To disengage the bundle from the fork, a trip 22 is provided. The said trip consists of a bifurcated arm through which the rope 4^b passes and is pivoted to the boom 4. Connected with the inner end of the trip 22 is a cord 21, which passes over a pulley on the mast 3 and is secured at its lower end to one arm of one of the trip-levers 17 or 18, pivoted by the bolt 15 to said mast 3. The bars 13 and 14 connect the levers 11 and 12 with the trip-levers 17 and 18, respectively. Springs 20, connected at one end with an arm of said levers 17 and 18, respectively, and at their other ends with the mast 3, serve to return the said levers to their normal position. From the description of the parts herein set forth the manner of operation thereof is easily understood. Each fork, with its contents, is alternately raised and lowered, and when raised and the boom turned to the discharging-place the trip is operated by the movement of a lever to disengage its connected gear from the meshing operating-pinion of the drive-shaft. Hinged additions to the platform are indicated by the numerals 24.

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

1. A wheat-pitching machine consisting of a platform, a mast thereon having a plurality of rotary booms mounted thereon, a driving-shaft with pinions thereon, shafts with drums and carrying gears adapted to mesh with said pinions, ropes having forks at one end thereof and passing over pulleys on said booms and mast and connected at their other ends to said drums, and levers pivoted to said

platform and supporting one end of said drum-shafts and adapted to either engage or disengage said gear wheels and pinions; said parts being combined substantially as described.

2. In a wheat-pitching machine, a mast with a plurality of booms thereon oscillating shafts carrying drums, hoisting-ropes connected with said drums and passing over pulleys on said mast and booms and carrying forks at their free ends, a driving-shaft with gearing adapted to engage with gearing on said drum-shafts to rotate either of the latter, means for engaging and disengaging said meshing gearing, and trips with operating means for disengaging the bundles from said forks, substantially as described.

3. In a wheat-pitching machine, a portable frame with a platform thereon having a mast, a boom connected with said mast, an oscillating shaft with a drum having a rope passing over a pulley on said boom and carrying a fork at its free end, a driving-shaft carrying gearing adapted to mesh with gearing on said

drum-shaft, a lever for operating said oscillating shaft a trip connected with said boom and having operating mechanism connected with said mast and lever, substantially as and for the purpose set forth.

4. A wheat-pitching device consisting of a portable platform having hinged sections, a mast with rotary booms thereon, oscillating shafts with hoisting-drums thereon having ropes passing over said booms, a driving-shaft with gearing for rotating said drum-shafts, pivoted levers for oscillating said drum-shafts, and trips connected with said boom and provided with operating mechanism connected with said mast and levers, said parts being combined substantially as described.

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

WILLIAM H. MILTON.

Witnesses:

CHARLES W. CRONK,
JOHN G. BRIDWELL.