

No. 844,912.

PATENTED FEB. 19, 1907.

G. D. BENNETT.
CULTIVATOR AND FERTILIZER DISTRIBUTER.

APPLICATION FILED NOV. 6, 1905.

3 SHEETS—SHEET 1.

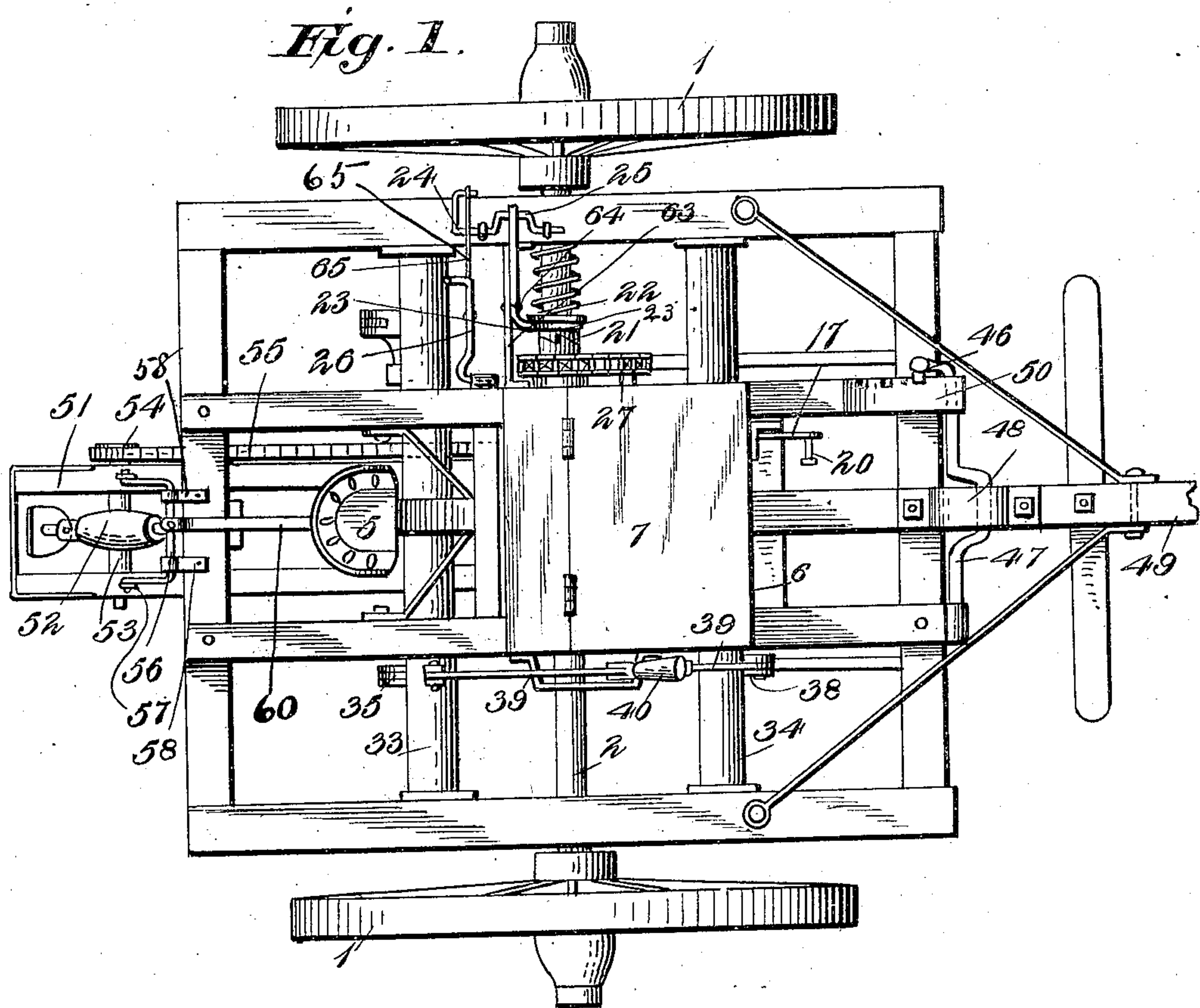


Fig. 7.

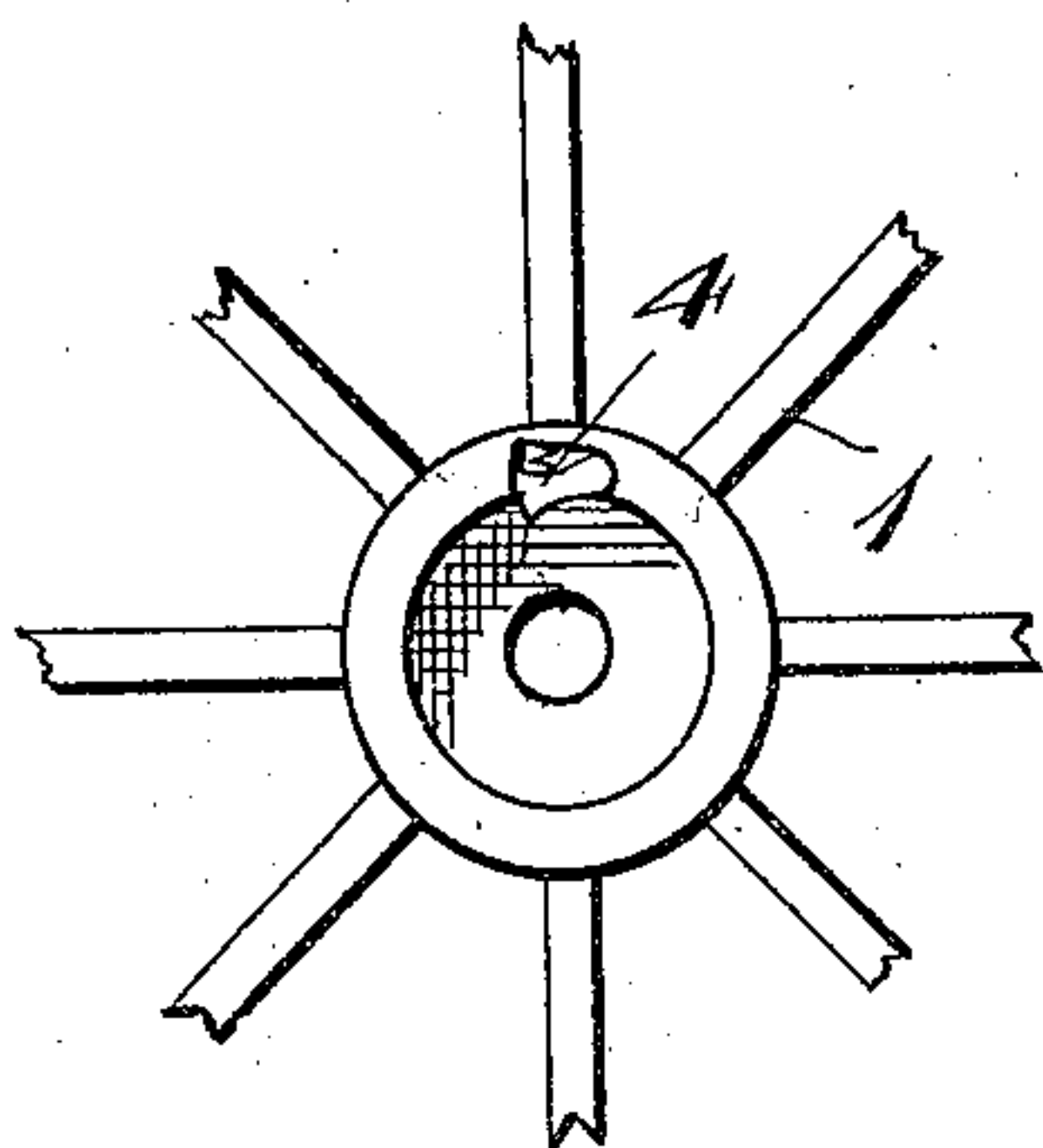
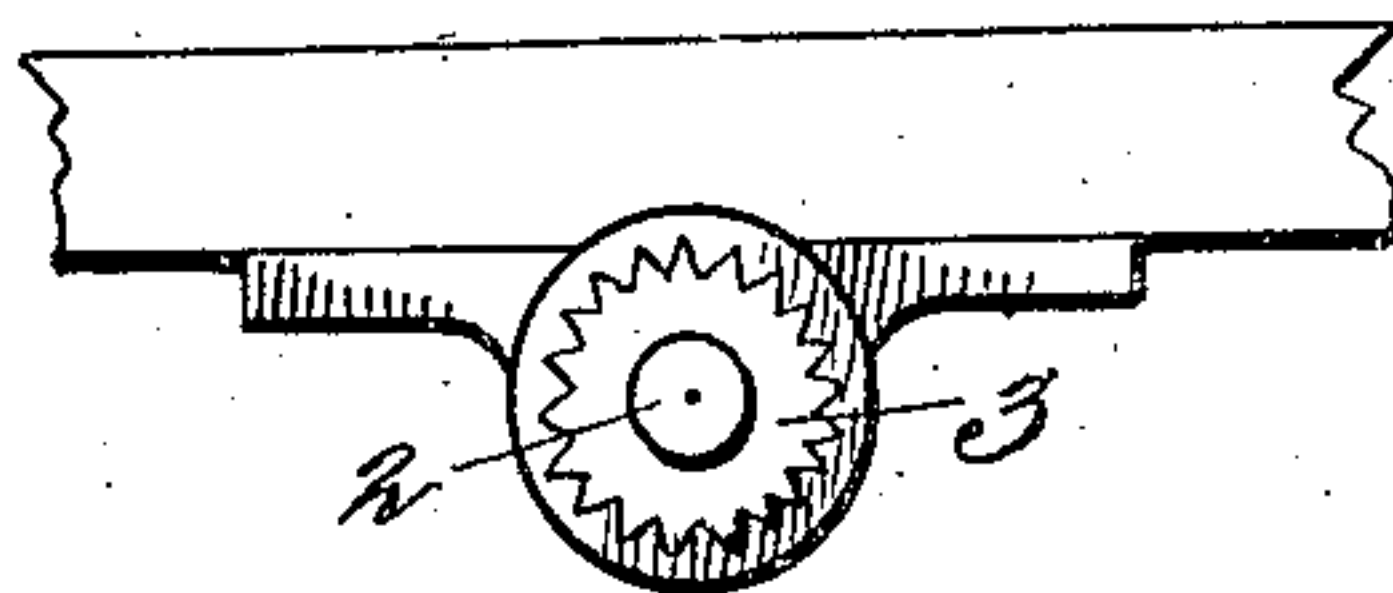


Fig. 8.



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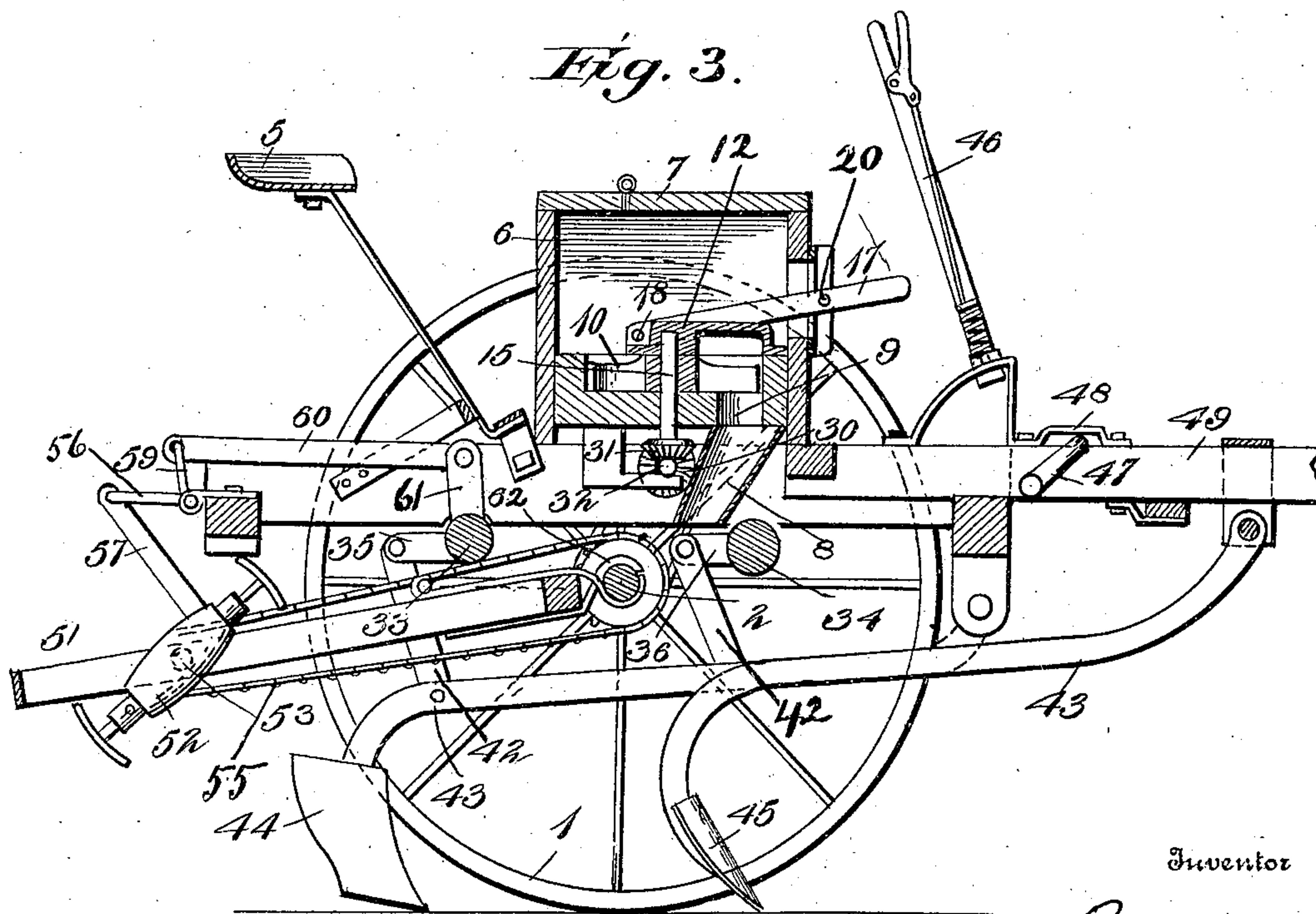
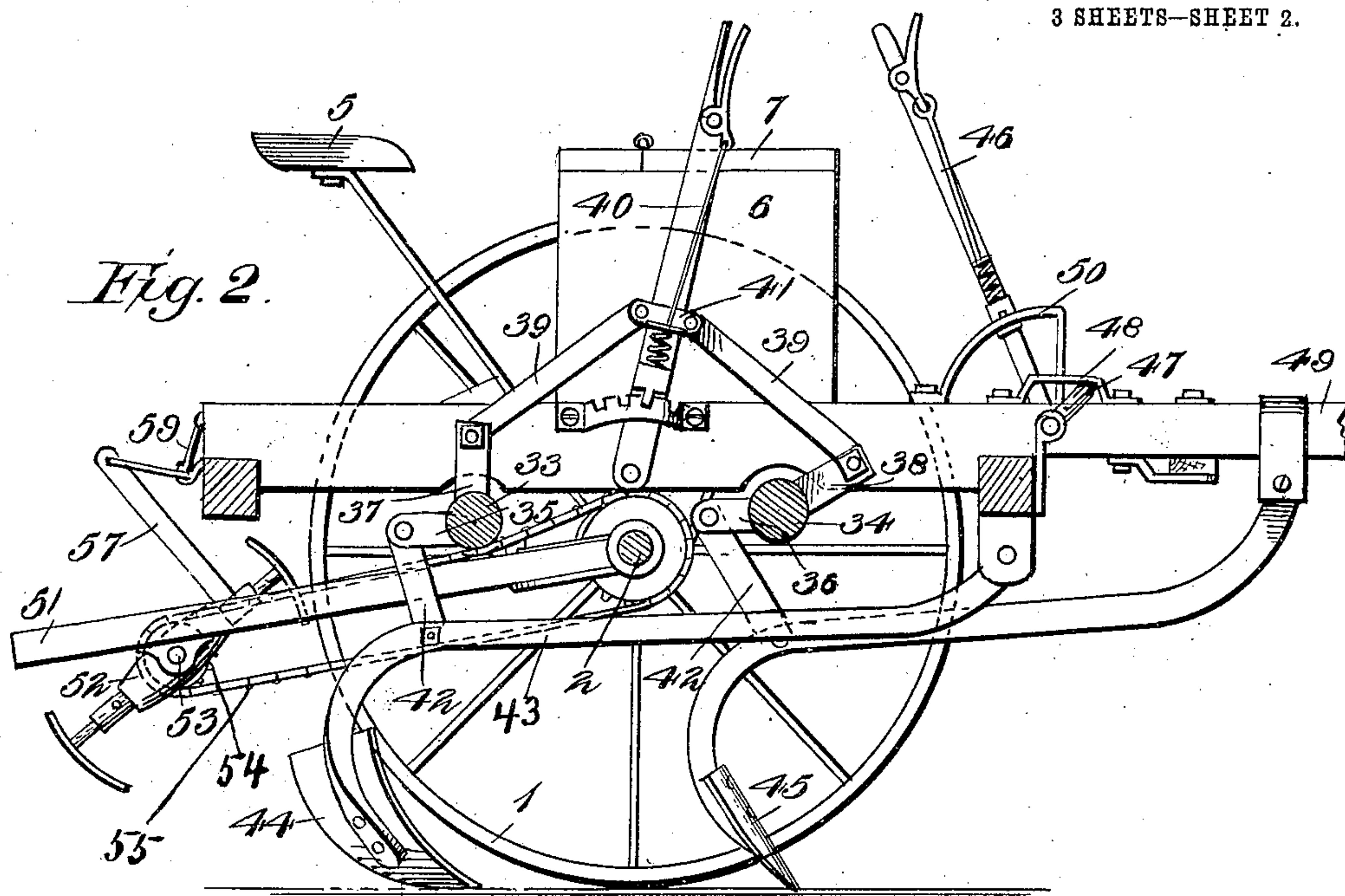
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3 SHEETS—SHEET 2.



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3 SHEETS—SHEET 3.

Fig. 4.

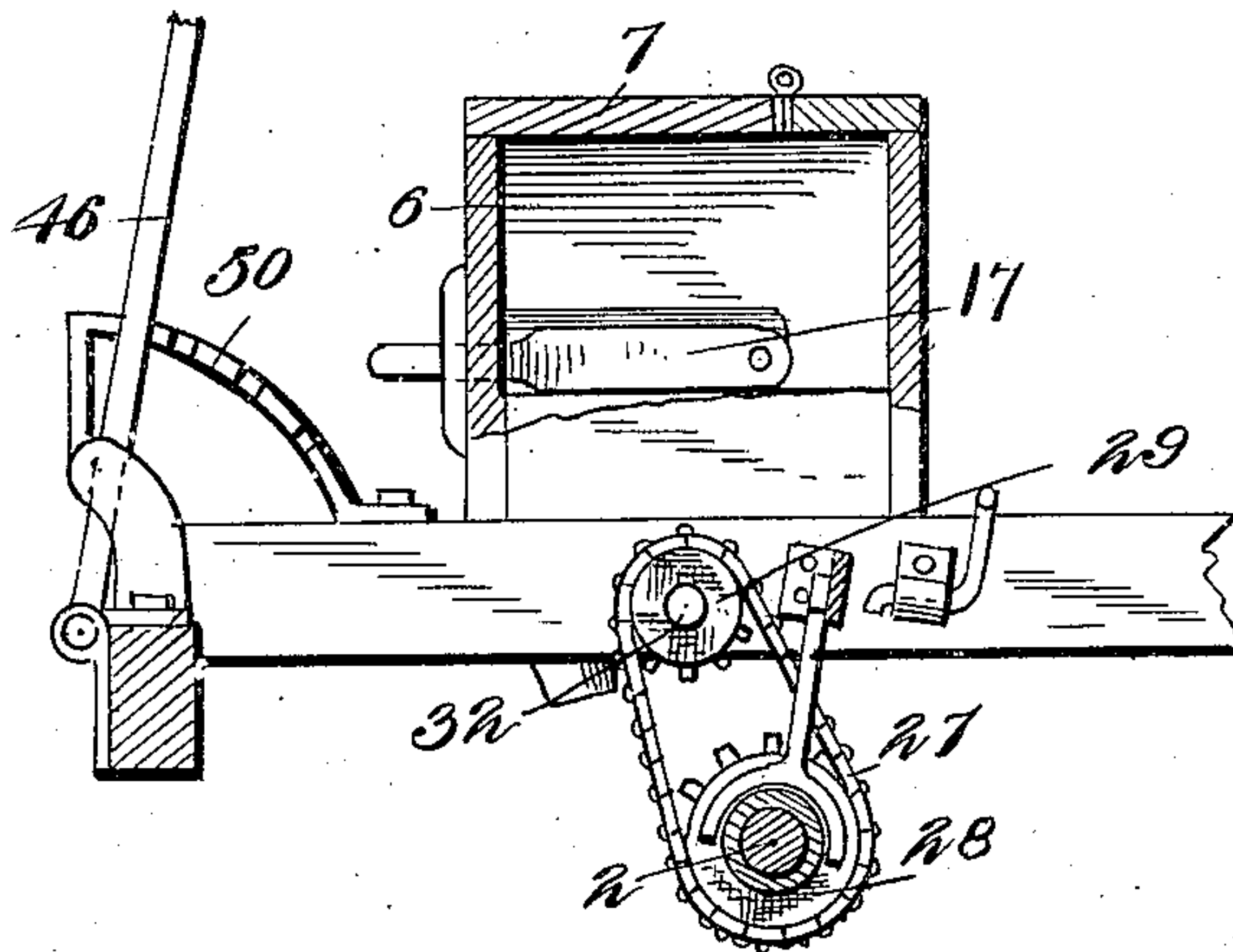


Fig. 5.

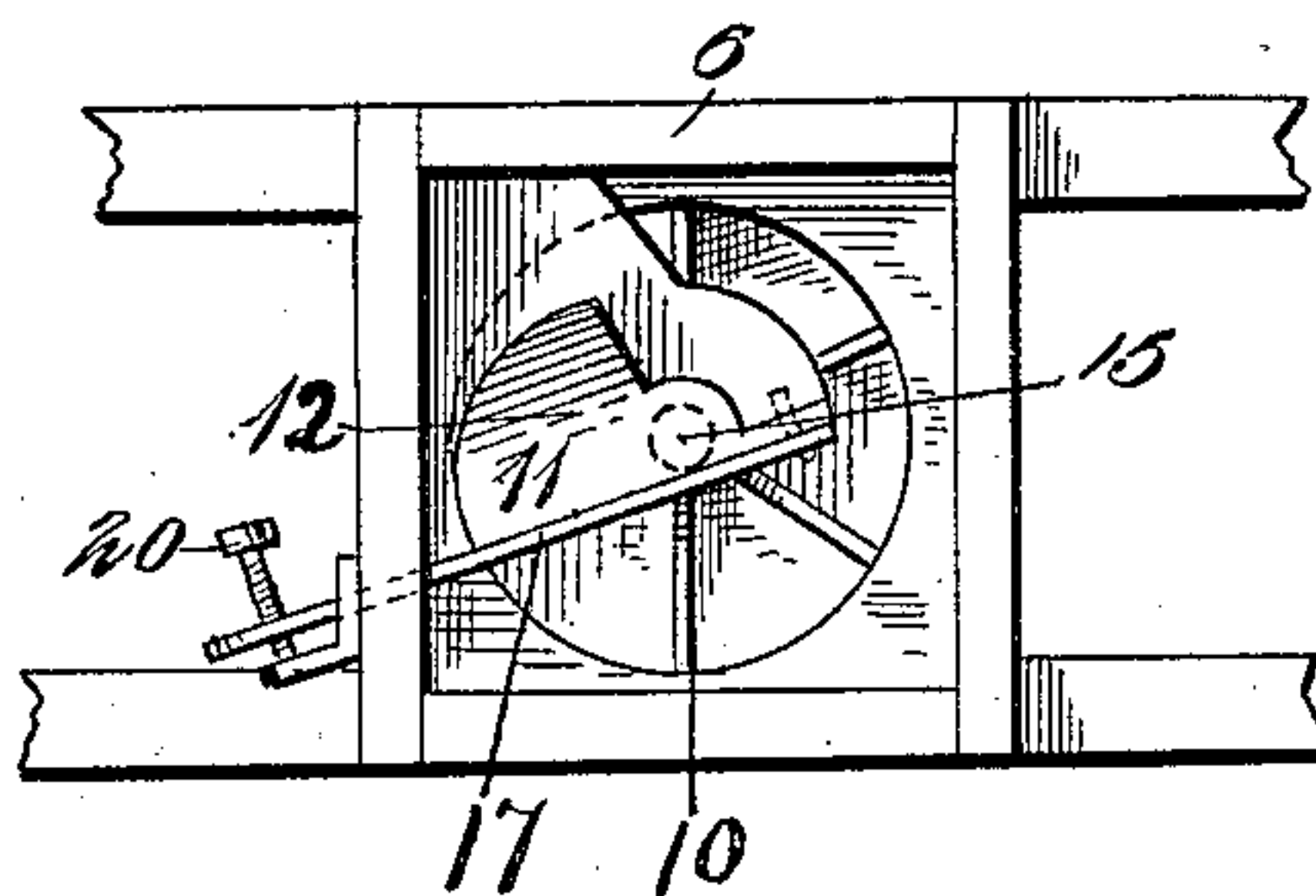
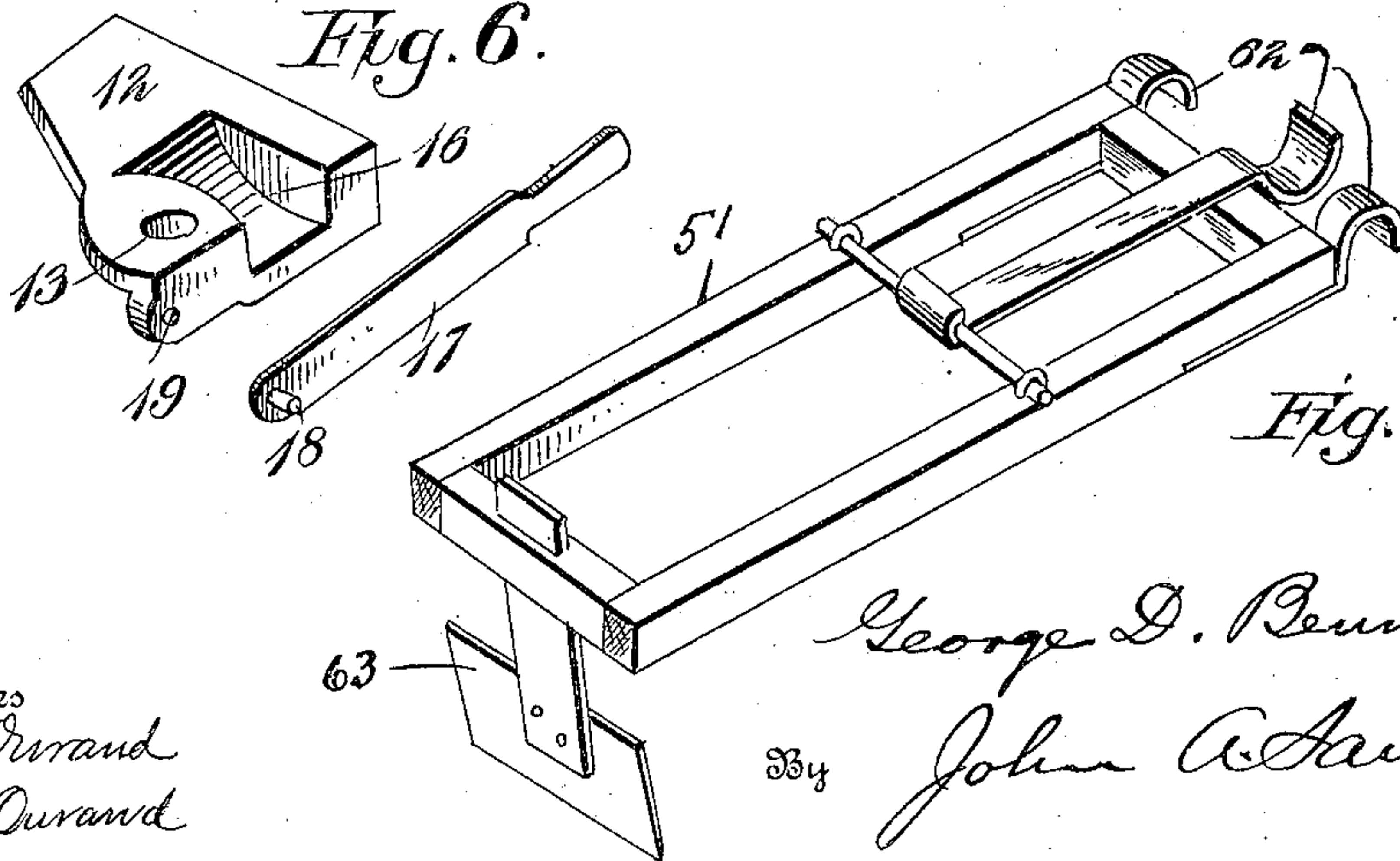


Fig. 6.



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UNITED STATES PATENT OFFICE.

GEORGE DAVID BENNETT, OF REIDSVILLE, NORTH CAROLINA.

CULTIVATOR AND FERTILIZER-DISTRIBUTER.

No. 844,912.

Specification of Letters Patent.

Patented Feb. 19, 1907.

Application filed November 6, 1905. Serial No. 286,080.

To all whom it may concern:

Be it known that I, GEORGE DAVID BENNETT, a citizen of the United States, residing at Reidsville, in the county of Rockingham and State of North Carolina, have invented certain new and useful Improvements in Cultivators and Fertilizer-Distributers, of which the following is a specification.

My invention relates to cultivators and fertilizer-distributers, and has for its object to so construct the same that it may be used as a fertilizer-distributer and is adapted also as a cotton or tobacco cultivator, as desired.

In the drawings forming a part of this specification, and in which like symbols of reference represent corresponding parts in the several views, Figure 1 is a plan view of the device. Fig. 2 is a longitudinal sectional side view with the side frame removed. Fig. 3 is a longitudinal vertical sectional view through the center of the machine; Fig. 4, a sectional view of the hopper; Fig. 5, a plan view of the hopper; Fig. 6, a sectional view of the regulator for the feed; Fig. 7, a view of the wheel and pawl for locking same to axle; Fig. 8, a view of the ratchet on axle to operate in conjunction with pawl on wheel, and Fig. 9 a view of scraper to be used on cotton-cultivator.

1 represents the wheels of the device; 2, axle of same; 3, ratchet on axle; 4, pawl on wheel to operate in ratchet 3, and 5 the driver's seat.

6 is the hopper; 7, cover of same; 8, spout to deliver fertilizer; 9, outlet in hopper, and 10 the stirrer.

11 is a regulator for the fertilizer-distributer, consisting of a cap 12, having an orifice 13 to fit on pin 15 in hopper.

16 is a recess in cap to permit passage of fertilizer, and 17 a cut-off or graduator, having a pin 18 to take into hole 19 in cap 12.

20 is a set-screw to lock the slide in position.

21 is a clutch on axle to lock the device in its operative position; 22, a spring on axle to hold clutch normally locked; 23, a bifurcated arm pivoted at 64 to cross-piece 63 and embracing the loose section of clutch; 24, a rock-shaft having a crank 25 to contact with bifurcated arm, and 26 a lever connected by link 65 to rock-shaft to operate clutch.

27 is a sprocket-chain connected to sprocket-wheels 28 and 29 and having connection with bevel-gears 30 and 31, the latter connected to journal 15, carrying stirrer, and

32 is a shaft upon which bevel-gear 30 is journaled.

33 and 34 are rock-bar or rollers journaled in the main frame and carrying arms 35, 36, 37, and 38.

39 are links connecting arms 37 and 38 to hand-lever 40 by means of a strap 41, and 42 are links connecting shanks 43 of shovels 44 and opener 45 to arms 35 and 36.

46 is a hand-lever to raise or lower the shaft or tongue by means of a crank 47, journaled in the main frame and operating against a strap 48 on said shaft or tongue 49, and 50 is a segment against which the lever operates.

51 is a frame having a patter 52, journaled therein upon a shaft 53, and having a sprocket 54, adapted to operate the patter by means of a sprocket-chain 55, connecting the same to the sprocket on the main axle of the machine. The frame 51 is suspended from the main frame by a yoke 56, connected to the frame 51 by arms 57 and to the main frame by straps 58 and having an upwardly-extending arch 59 connecting said yoke with the arm 60.

62 is a clamp connecting the forward end of frame 51 to the main axle, and 61 an arm connecting arm 60 with roller 33, so that as the shovels are operated by lever 40 simultaneous movement is given to the patter. This patter is used for dividing the row into hills when the device is used for cultivating tobacco.

63 is a scraper (shown in Fig. 9) adapted for connection, by means of the clamps 62, to the main axle and substituted in lieu of patter in the cultivation of cotton.

The operation of the device will be apparent from the foregoing. When lever 48 is operated, it simultaneously operates to elevate the shovels by means of the rollers and also the patter or scraper, as the case may be. The shaft or tongue is regulated by lever 46.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a cultivator, the combination with the main frame, of rollers journaled in the same, arms extending from the rollers, a lever, links connecting the lever to the rollers, links connecting the shovels and plow to the arms of the rollers, a hopper, an agitator in the same, connections between the shaft and the agitator to operate the same, a regulator for the hopper, and coverers and patters.

2. In a cultivator, the combination with the main frame and plows and shovel of the same, of a supplemental frame adapted to receive interchangeably a scraper or pater, 5 means for connecting the supplemental frame to the axle, and means for simultaneously regulating the supplemental frame, plows and shovel.

3. In a cultivator and fertilizer-distributor, 10 the combination with the main frame, of a hopper supported upon the same, an agitator in the hopper, a pin supporting said agitator, means for driving said pin from the main axle of the machine, a regulator, consisting of 15 a cap having an orifice to fit upon the pin and a recess to permit passage of the material, a slide to regulate the recess, and locking means for the slide, in combination with coverers and patters.

4. In a cultivator, the combination with 20 the main frame, of tool-shanks journaled in the same, a supplemental tool-carrying frame, means for clamping the supplemental frame to the axle, a yoke supporting the supplemental frame to the rear of the main 25 frame, an arm having a linked connection to the main rollers and in turn connected to the supporting-yoke, a lever to operate the rollers, a shaft, a strap upon the same, a crank operating in the same, and a lever to operate 30 the crank, so that the shaft may be regulated.

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

GEORGE DAVID BENNETT.

Witnesses:

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CHARLES N. BENNETT.