

(No Model.)

J. F. EBERT.

CHECK ROWER FOR CORN PLANTERS.

No. 273,827.

Patented Mar. 13, 1883.

FIG. 1.

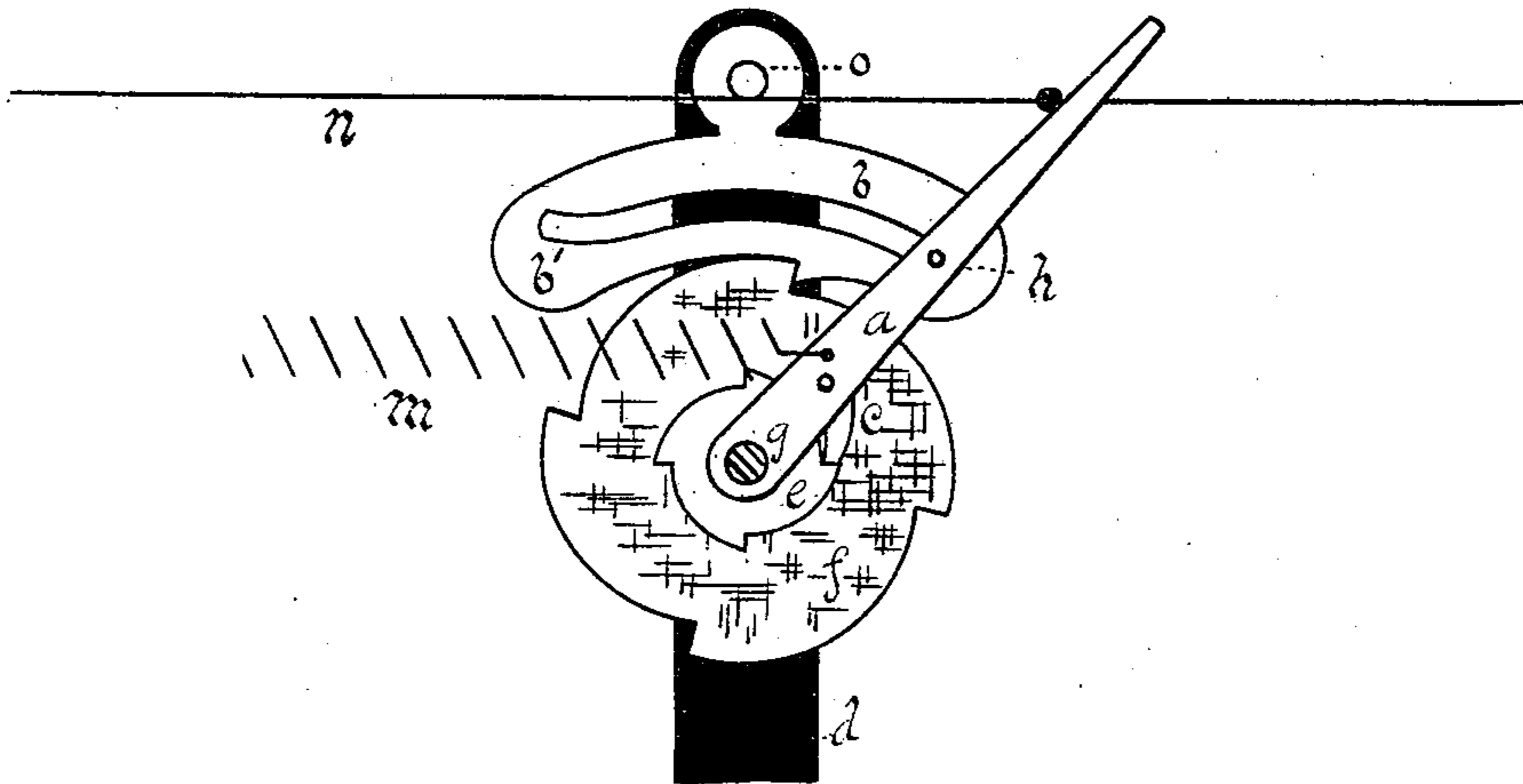


FIG. 2.

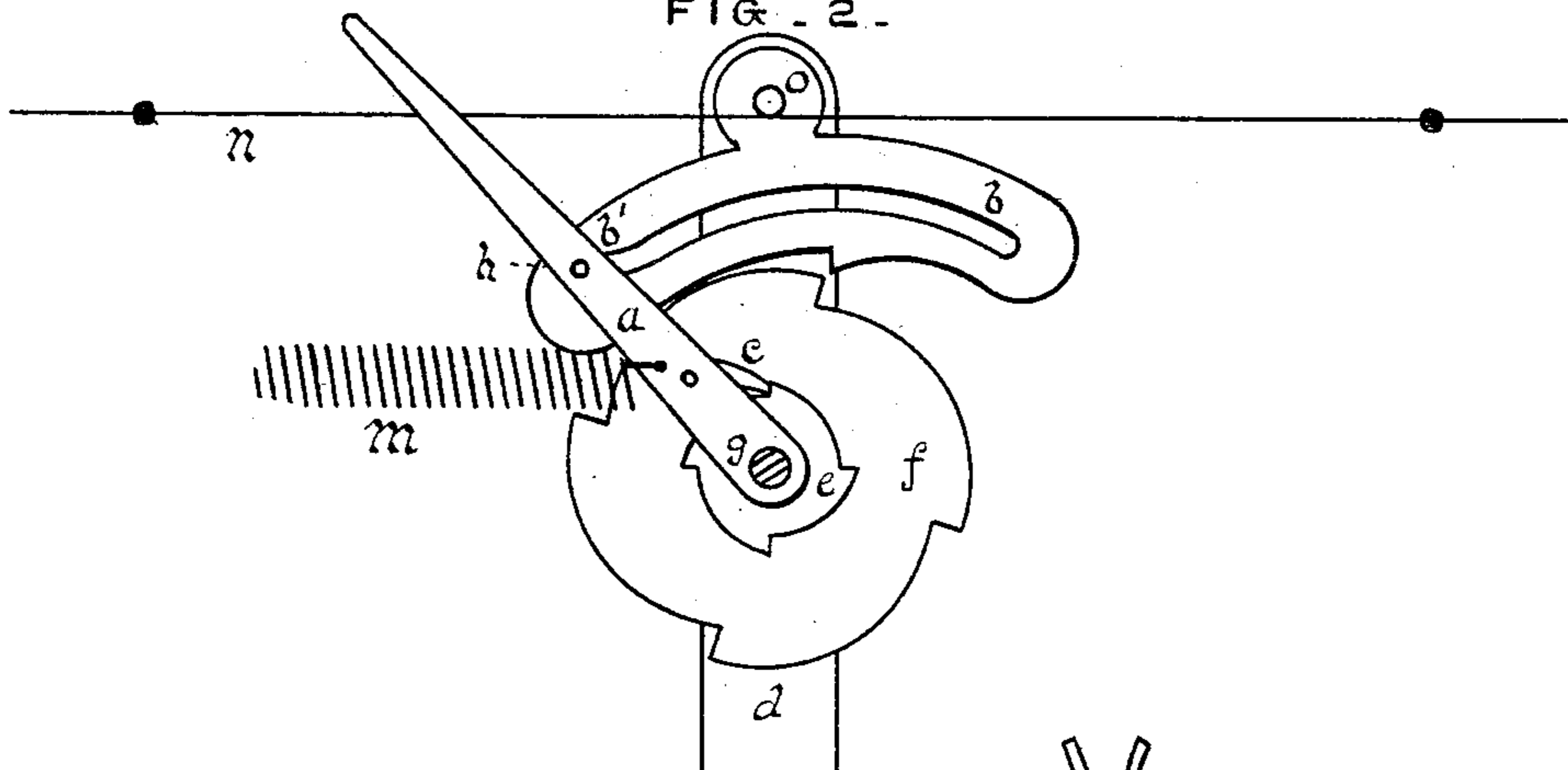
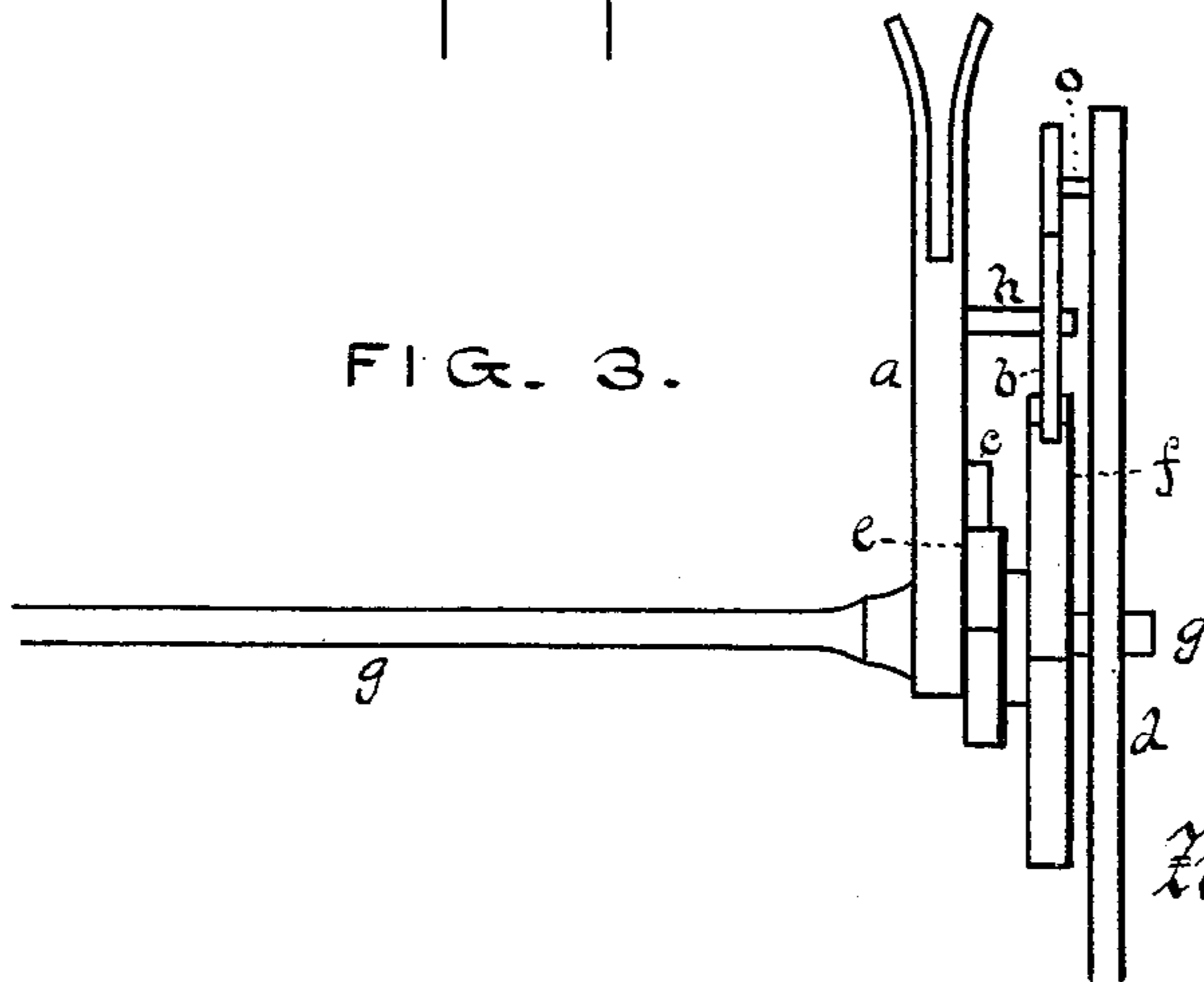


FIG. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

JACOB F. EBERT, OF DECATUR, ILLINOIS.

CHECK-ROWER FOR CORN-PLANTERS.

SPECIFICATION forming part of Letters Patent No. 273,827, dated March 13, 1883.

Application filed September 8, 1882. (No model.)

To all whom it may concern:

Be it known that I, JACOB F. EBERT, a citizen of the United States, residing at Decatur, in the county of Macon and State of Illinois, have invented certain new and useful Improvements in Check-Rowers for Corn-Planters, of which the following is a specification.

My invention relates to check-rowers for corn-planters; and it consists in the mechanism used to effect a lock between the oscillating tappet and the check-rower shaft.

This mechanism consists in a double ratchet and a slotted rocking catch, constructed and arranged to operate as will be hereinafter specified.

In the drawings accompanying and forming a part of this specification, Figures 1 and 2 are elevations of my device on sectional line x of Fig. 3. Fig. 1 represents a stroke and lock effected. Fig. 2 shows the oscillating tappet in position to be operated by the check-row stop, and Fig. 3 shows the position of the various parts as seen in side elevation.

a is the oscillating tappet, working loosely on shaft g .

b is a slotted rocking catch, pivoted at o on upright d .

e and f are ratchets rigid on shaft g , with their teeth projecting in opposite directions, as shown.

h is a pin on tappet a , that projects into the slot in catch b .

c is a pawl on tappet a , that engages ratchet e .

m is a spring that returns the tappet after a stroke has been made.

n is the check-row wire, that, passing through the crotched end of tappet a , operates the same.

Shaft g extends across the planter, and is provided with a tappet and locking device at each end. The motion of the shaft is intermittent rotary, and said shaft is connected with the seed-slides of the corn-planter by means of suitable gearing.

Upright d is attached to the ends of the check-row bar, and furnishes bearings for the shaft and rocking catch.

The slot in catch b conforms throughout the greater part of its length to the arc described by pin h . At one end, however, as indicated at b' , the slot is deflected outward from its segmental course. A tooth at p engages the teeth of the ratchet.

In operation the tappet lies in the position shown in Fig. 2 until thrown by a stop on the wire into the position shown in Fig. 1, and the wire, passing on the tappet, is returned to its original position by spring m . When laying as shown in Fig. 2, pin h is in the deflected portion of the slot, and the catch, swung to one side, is disengaged from its contact with ratchet f . As the pin passes into the segmental portion of the slot the contact with the ratchet is renewed, and when a complete stroke is made an absolute lock is effected. As the tappet is drawn back by spring m the catch is not immediately disengaged from the ratchet, but remains in contact until the pin reaches the deflected portion of the slot.

As before mentioned, there is a lock, tappet, &c., at each end of the check-row bar, that are used alternately as the planter passes in different directions, and the tappet not in use lies, as shown in Fig. 2, with its pawl c dropping behind the ratchet-teeth after every stroke, effectually preventing any back motion in the shaft.

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

1. The rocking catch b , provided with deflecting slot b' , in combination with pin h and tappet a , as and for the purpose set forth.

2. Rocking catch b , deflected slot b' , pin h , and tappet a , in combination with double ratchet $e f$, as and for the purpose set forth.

3. Rocking catch b , deflected slot b' , pin h , and tappet a , in combination with upright d , as and for the purpose set forth.

JACOB F. EBERT.

Attest:

W. I. WALKER,
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