(No Model.)

A. J. GRUSH & J. LOCKHART. Check Rower for Corn Planters.

No. 233,927.

Patented Nov. 2, 1880.

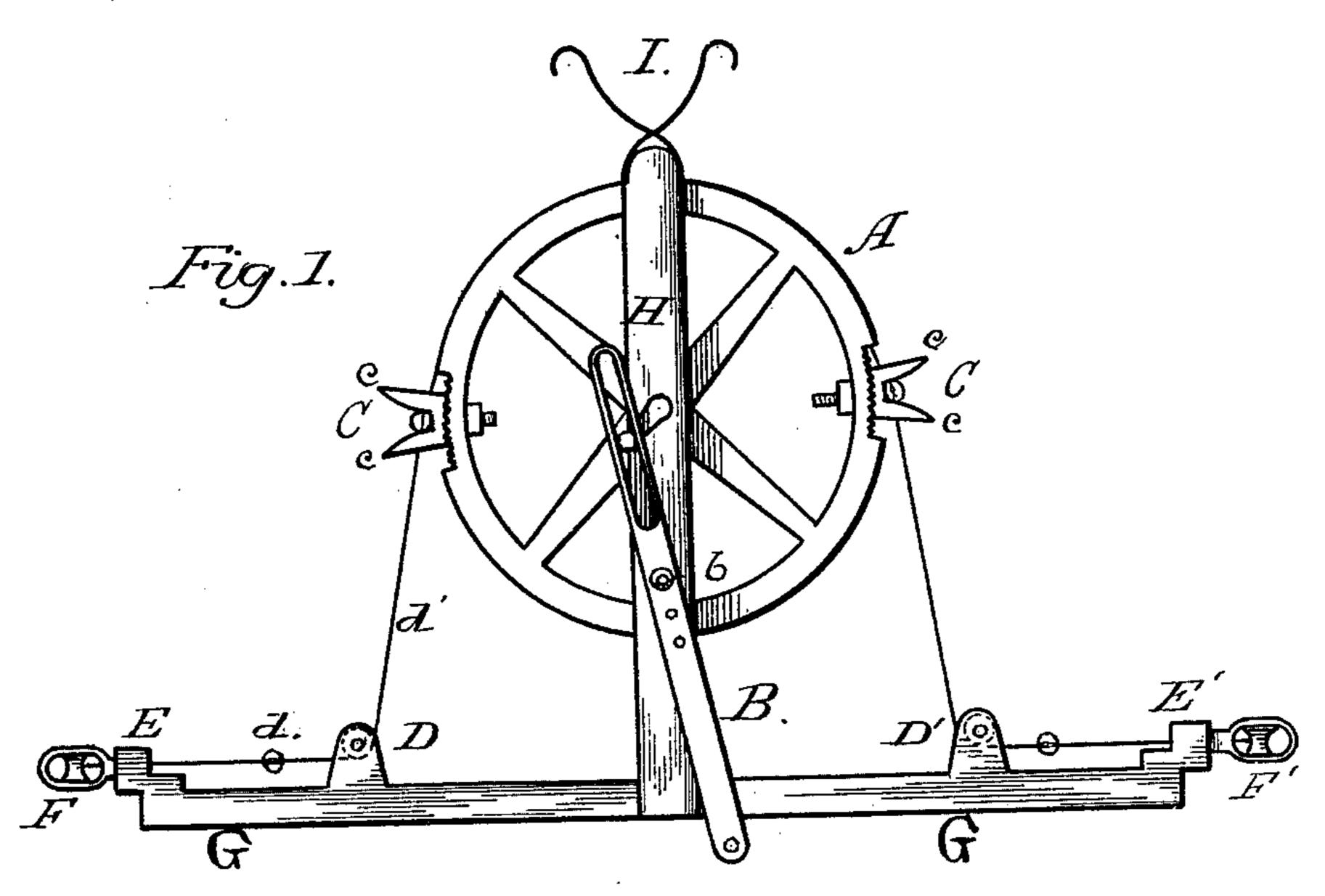


Fig. 2.

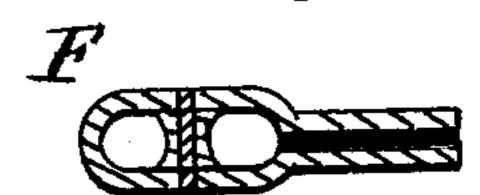
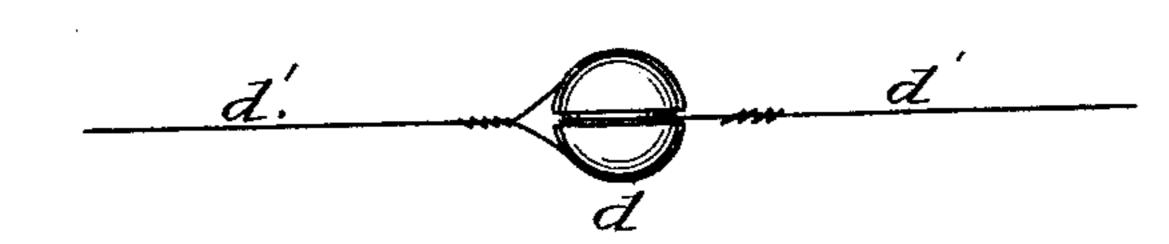


Fig. 3.



Witnesses:

Edw. Donn

Trivertors: and J. Grush, and J. I., ockhart. By Their actif, M. Kach.

United States Patent Office.

ANDREW J. GRUSH AND JESSE LOCKHART, OF MACON COUNTY, ILLINOIS; SAID GRUSH ASSIGNOR TO SAID LOCKHART.

CHECK-ROWER FOR CORN-PLANTERS.

SPECIFICATION forming part of Letters Patent No. 233,927, dated November 2, 1880.

Application filed July 29, 1880. (No model.)

To all whom it may concern:

Be it known that we, ANDREW J. GRUSH and JESSE LOCKHART, residents of 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.

Our invention relates to check-rowers in which the seed-slide is operated by means of a wheel revolved by stops on a check-row wire.

The invention is defined and set forth in the following specification and claim.

In the drawings accompanying and forming a part of this specification, Figure 1 is a side elevation of our device. Fig. 2 is a longitudinal vertical section of the pulley-block used for receiving and discharging the wire, and Fig. 3 shows the stop on the wire.

A is a grooved wheel, having a circumference equal to twice the distance between the corn-rows, and provided with recesses at opposite points in its outer surface to receive the crotches C C.

B is a lever, pivoting at b, connected with the seed-slide at its lower end, and provided with slot, as shown, to receive the crank of the wheel.

C C are double crotches, corrugated to coin-30 cide with the surface of the wheel, to which they are bolted.

D D' are guide-pulleys to bring the wire close to the wheel, so that one crotch will engage a stop before its opposite releases one.

F F' represent pulley-blocks, which revolve vertically in bearings E E' on the ends of the bar G.

d is the stop on the wire, consisting in a metallic ball having its surface divided by two grooves into four equal parts, and the wire extending around these grooves, as shown in Fig. 3, forms a universal joint, while the wire lying in the grooves is protected from wear.

c c represent each a single crotch of double crotch C, which is constructed to exactly re-45 ceive the stop on the wire. By this arrangement the inconvenience of a double or irregular drop is overcome, as the stop acts as a lock.

Pulley-block F at its bearing in E is tubular. I represents a holder for the reins.

In operation the wire, being once passed through the tubular shafts of the pulley-blocks F F', needs no further adjusting, as every time a turn is made the pulleys revolve vertically to adapt themselves to the new position.

We claim—

The combination of the wheel A, having the crotches C C on either side let into serrated notches in the wheel, and provided with a short crank, as shown, with the lever B, pivoted in 60 the center, and engaging by means of a slot with the wheel-crank at one end and with the seed-dropper at the other, and with the wire d', having the stops d, arranged at such intervals as that one shall engage with a crotch on 65 one side of the wheel before the preceding one is released from the crotch on the opposite side, as shown and described.

ANDREW J. GRUSH. JESSE LOCKHART.

Attest:

H. W. WAGGONER, S. F. GREER.