

No. 689,750.

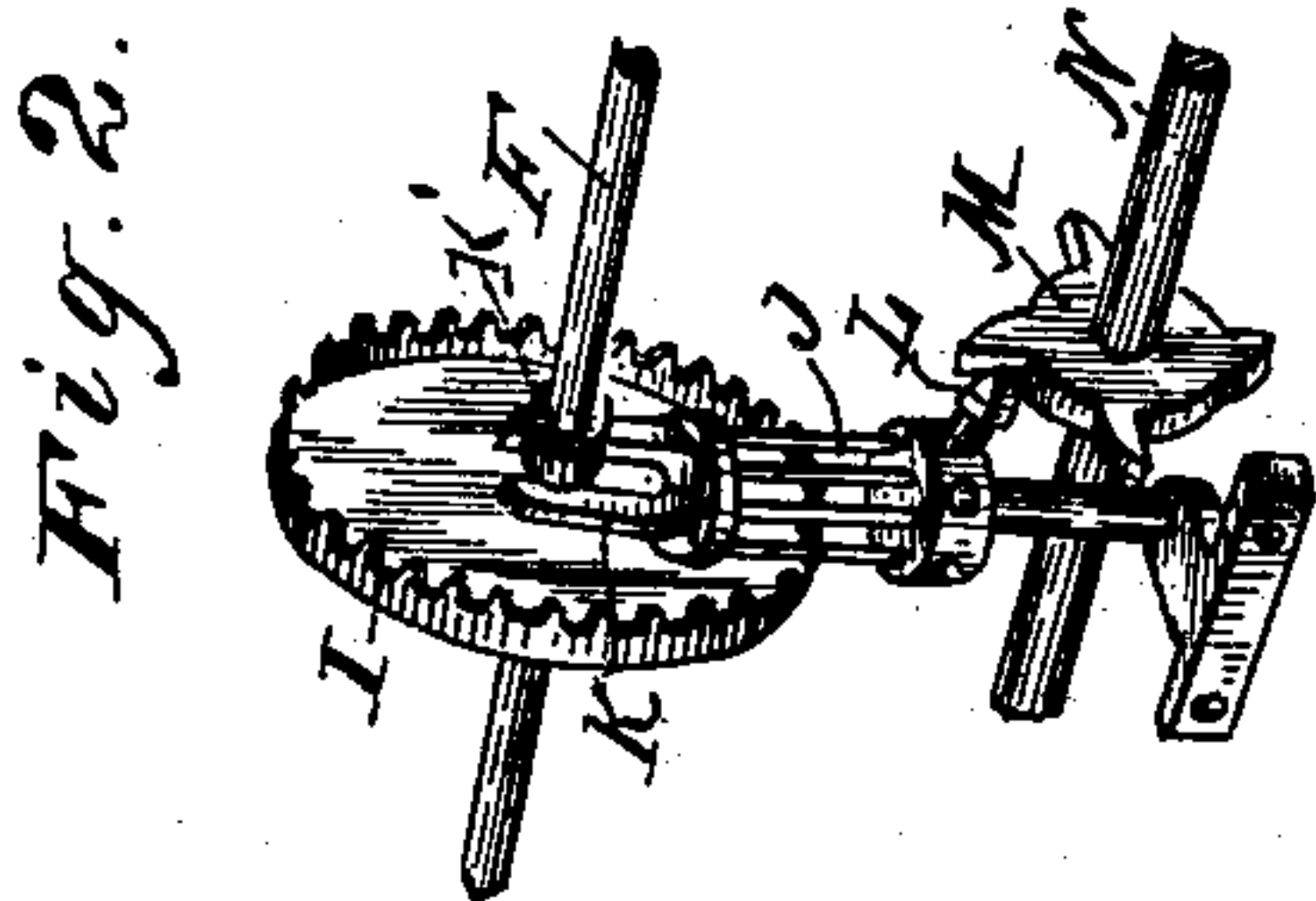
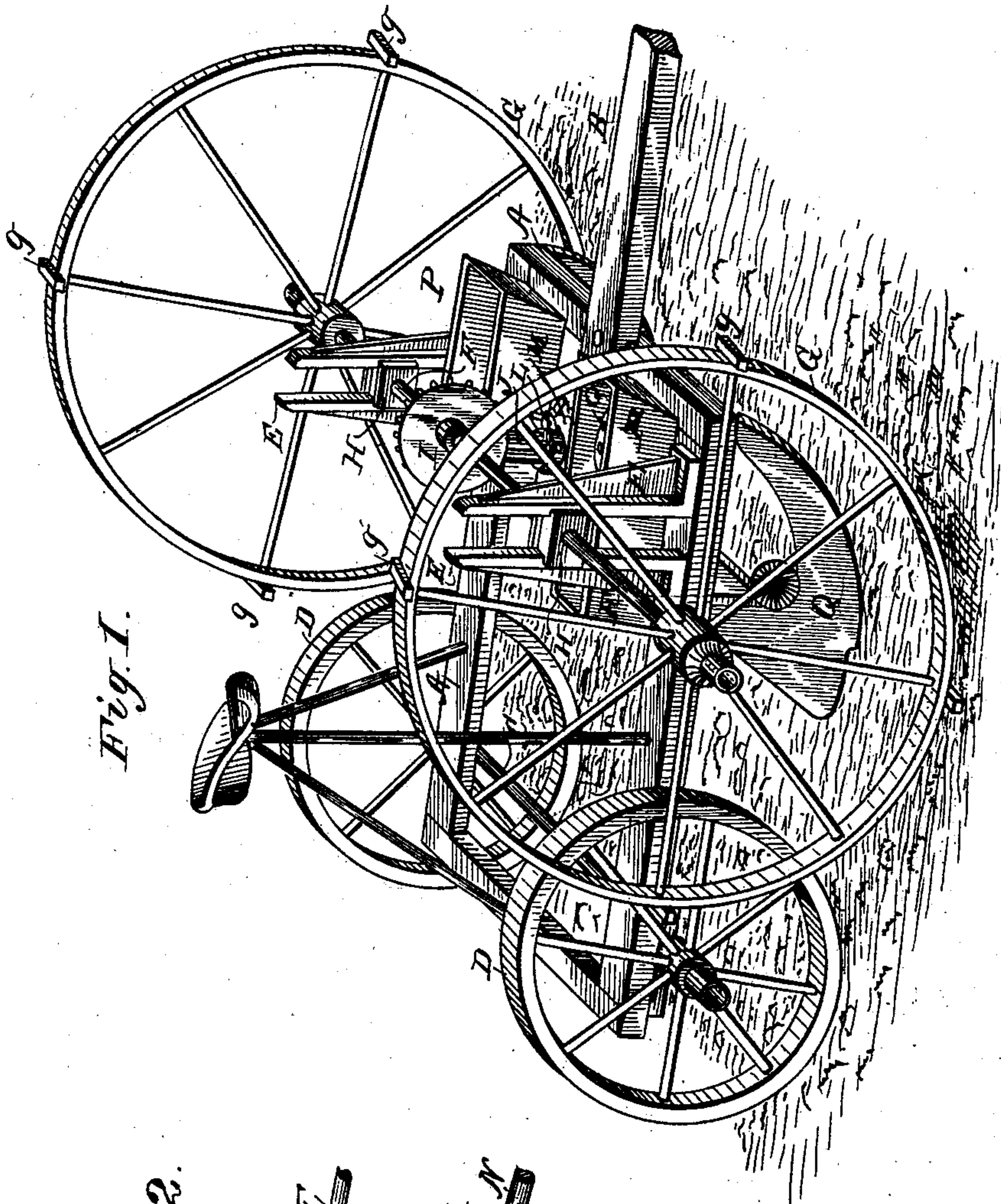
Patented Dec. 24, 1901.

E. C. ROBERTS.

CHECK ROW ATTACHMENT FOR CORN PLANTERS.

(Application filed May 3, 1901.)

(No Model.)



WITNESSES:

W. R. Edlen.
Amos W. Hart

INVENTOR

Elvis C. Roberts.

BY Munn & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

ELVIS C. ROBERTS, OF HOLDENVILLE, INDIAN TERRITORY.

CHECK-ROW ATTACHMENT FOR CORN-PLANTERS.

SPECIFICATION forming part of Letters Patent No. 689,750, dated December 24, 1901.

Application filed May 3, 1901. Serial No. 58,604. (No model.)

To all whom it may concern:

Be it known that I, ELVIS C. ROBERTS, a citizen of the United States, residing at Holden-ville, Creek Nation, Indian Territory, have
5 made a new and useful Improvement in Check-Row Attachments for Corn-Planters, of which the following is a specification.

My invention is an improvement in that class of attachments for check-row corn-planters and other seeding-machines in which
10 the axle of the marker-wheels is adapted to play vertically between guides fixed on the frame and to operate seed-dischargers through the medium of suitable gearing.

The details of construction, arrangement, and operation of parts are as hereinafter described, reference being had to the accompanying drawings, in which—

Figure 1 exhibits a perspective view of my
20 improved machine, and Fig. 2 a detail perspective of gearing.

A rectangular frame A is provided with a rigid tongue B and supported at its rear end upon the axle C by transporting-wheels D.
25 Upon the said frame A are fixed two pairs of vertical guides E on opposite sides, between which the shaft F of the marker-wheels G passes. The said shaft passes also through blocks H, which are provided with flanges and adapted to slide vertically between the standards E. It will be seen that by this construction and arrangement the marker-wheels G are adapted to work entirely inde-
30 pendent of the transporting-wheels D and to rise and fall vertically according to the inequalities of the surface over which the machine passes. The wheels G are provided on their peripheries with small cross-pieces g for making depressions in the surface in the
40 usual way.

Upon the central portion of the shaft F is mounted a crown-wheel I, whose teeth mesh with the lantern-pinion J, arranged vertically and journaled at the rear end of the tongue
45 B. The upper end of said lantern-pinion J is provided with a pivoted slotted guide K, arranged vertically and pivoted thereto, so that the pinion is adapted to rotate independently. The shaft F passes through the
50 slot in said guide K, and a collar K' is provided, as shown, for holding the guide in due position while sliding vertically corresponding to the movement of the shaft F. The lower portion of the lantern-pinion J is pro-
55 vided with a cam or wiper L, which projects

laterally and is adapted to engage the teeth of the star or tappet wheel M, keyed upon the shaft N, which operates the seed-dischargers O, located in the seedboxes P. The latter
60 are located directly under the shaft F. The seed-dischargers may be in the form of perforated disks arranged in the bottom of the seedbox P and provided underneath with bevel-gears, (not shown,) which may engage
65 corresponding gears on the shaft N.

It is apparent from this construction and arrangement of parts that as the marker-wheels rotate their shaft F, carrying the crown-wheel I with it, will impart rotation to the lantern-pinion J and that the cam L of the
70 latter will in turn rotate the tappet-wheel M intermittently, and thus cause intermittent rotation of the seed-dischargers O and a consequent intermittent dropping of the corn or other seed. In case it should be desired to
75 discharge seed at a faster rate, two or more cams L may be attached to the lantern-pinion J, and for this purpose the face of said pinion is provided with a series of holes to re-
80 ceive the cams.

It is apparent that the described arrangement and operation of the crown-wheel with the pinion J remains the same whatever be the vertical adjustment of the shaft F, since the pinion is elongated to the degree required
85 for this purpose.

The seed discharges through tubes formed in the rear part of the furrow-openers.

What I claim is—

The combination with the main frame hav-
90 ing rear transporting-wheels, furrow-openers and vertical guides at the front as described, of the marker-wheels and their axle which is adapted to play vertically between the said guides, a toothed wheel fixed on the axle, and
95 the elongated lantern-wheel J, pivoted at its lower end and having at its upper end the vertically-slotted guide K which receives the axle and allows the same to play vertically, the seed-dischargers and shaft geared there-
100 with, a tappet-wheel fixed on said shaft, and a cam or wiper fixed on the lower portion of the aforesaid lantern-wheel and adapted to engage the tappet, all arranged and operat-
105 ing, substantially as shown and described.

ELVIS C. ROBERTS.

Witnesses:

G. H. HARDING,
I. W. SINGLETON.