

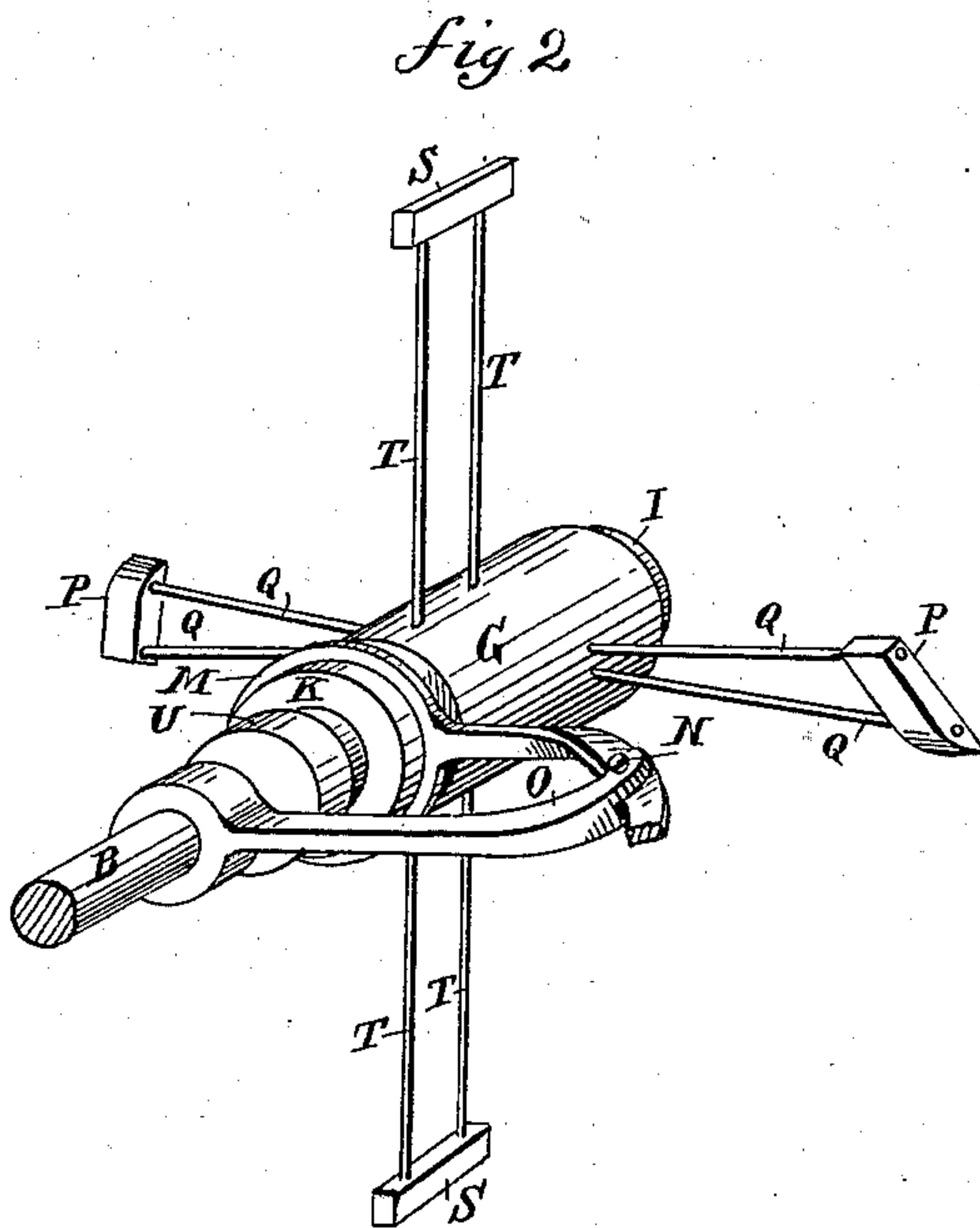
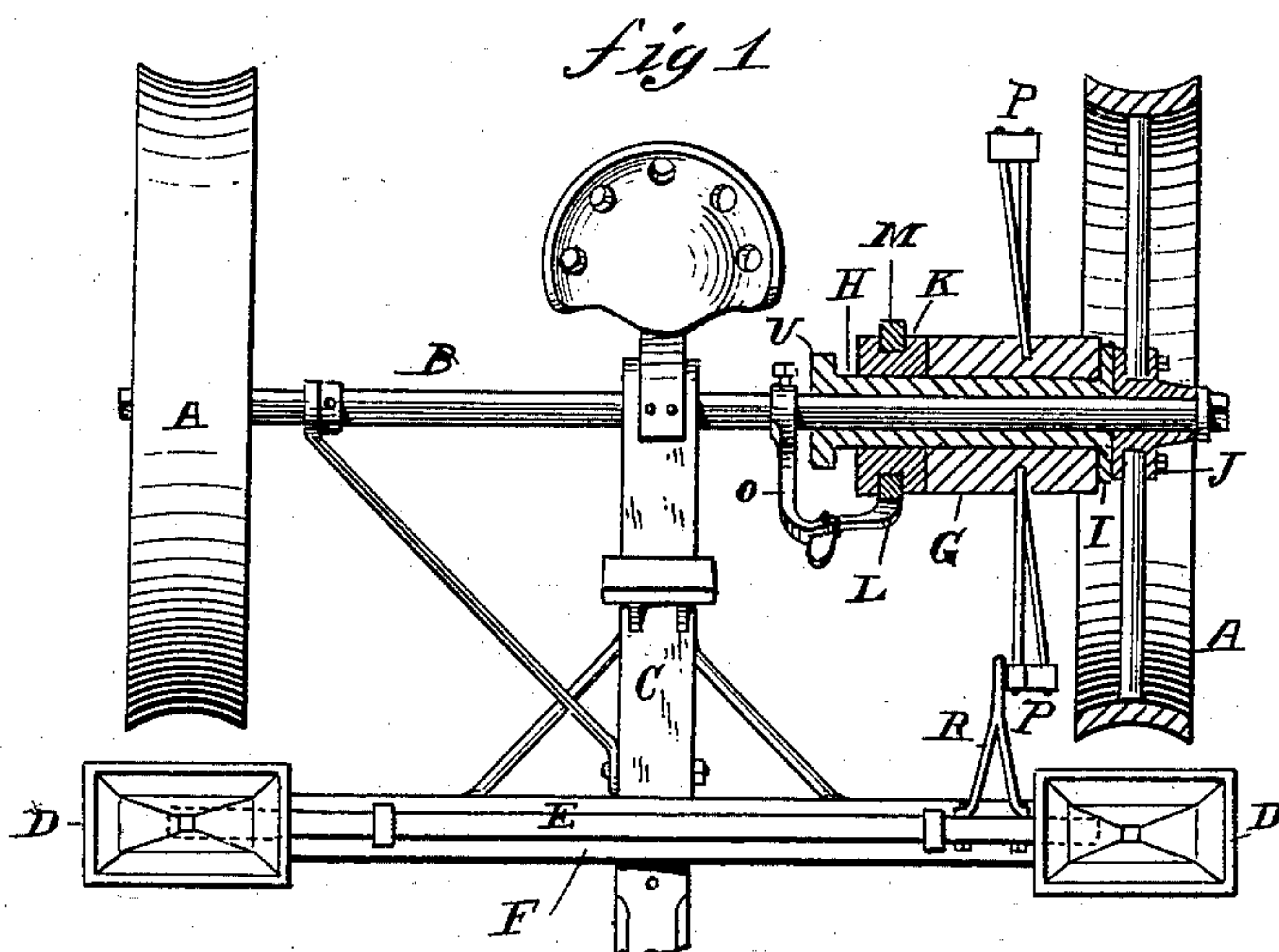
(No Model.)

R. O. ROBINSON.

CORN PLANTER.

No. 268,293.

Patented Nov. 28, 1882.



WITNESSES:

J. D. Garfield
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UNITED STATES PATENT OFFICE.

RANDOLPH O. ROBINSON, OF GLIDDEN, IOWA.

CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 268,293, dated November 28, 1882.

Application filed May 11, 1882. (No model.)

To all whom it may concern:

Be it known that I, RANDOLPH O. ROBINSON, of Glidden, in the county of Carroll and State of Iowa, have invented a new and Improved Corn-Planter, of which the following is a full, clear, and exact description.

My invention consists of an improved self-dropping and marking apparatus, the essential features of which are a drum mounted on the axle and carrying cams to work the dropper-slides, and markers to check-mark the rows, the said drum being connected with one of the truck-wheels by a clutch that serves to disconnect it readily to stop the operations of the dropper-slide and the markers at the sides of the field and elsewhere when it is desirable not to have them work, as hereinafter fully described, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a plan view of my improved planter, and Fig. 2 is a perspective view of the drum, with cams for working the dropper-slide and with it the markers.

A represents the truck-wheels; B, the axle; C, the tongue; D, the seed-hoppers; E, the dropper-slide, and F the frame-bar supporting the seed-hoppers and dropper-slide.

For working the dropper-slide and markers I mount a drum, G, loosely on a sleeve, H, fitted on the axle and attached by a flange, I, and bolts J to the hub of one of the wheels, so as to turn on the axle with the wheel, and carrying a clutch, K, for engaging drum G and turning it, when shifted into connection with the end of said hub, by a lever, L, having a ring, M, encircling said clutch and being pivoted at N to an arm, O, attached to the axle for supporting it. This drum carries two cams, P, at the outer ends of arms Q, for shifting the dropper-slide by acting upon the arm R of said slide, one of said cams shifting it to the right hand and the other to the left hand. The dropper-slide is to be made to drop each time that it is thus shifted by the cams, and therefore the machine plants two hills to each revolution of the driving-wheels. The drum G also carries two markers, S, upon the extremities of arms T, which are located on the drum, midway between arms Q of the cams, circum-

ferentially of the drum, but laterally out of the range of the arm R, so as to pass it, said arms T being long enough for the markers to be thrust into the ground sufficiently to check-mark the rows, and in practice said arms will be extensible, so that the markers may be shifted for marking lightly or heavily, according as the nature of the soil may require. The arms which support the cams may also be extensible, if desired, in order that the length of the arms may be suited to different machines, which it is intended that the attachment consisting of the drum and its adjuncts shall be adapted for.

It will be seen that by the location of the markers midway between the cams and by the dropper-slide being on a line with the axle a marker will be pressed on the ground by the side of the last hill dropped simultaneously with the shifting of the dropper-slides for dropping another hill, the said markers being thus contrived so that they cannot fail to mark the rows correctly as dropped. At starting from the side of the field care should be taken to so connect the drum with the wheel by the clutch that the dropping will be in line with the check-marks previously made, after which the apparatus cannot fail to drop in line.

The sleeve H has a collar, V, that limits the slide of the clutch K when disconnecting the same.

The markers may be located in the same circumferential line with the cams by constructing them sufficiently narrow longitudinally of the axle to pass the arm of the dropper-slide. They will then mark directly on the places where the seed falls.

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

The combination, with the wheels A, the axle B, the seed-slide E, provided with arm R and hoppers D, of the sleeve H, bolted to one of the wheels, the drum G, the clutch K, radial arms Q Q, provided with cams P P, and the radial arms T T, provided with markers S S, intermediate between them, substantially as and for the purpose set forth.

RANDOLPH O. ROBINSON.

Witnesses:

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