

(No Model.)

C. H. CLARK.
SEED PLANTER.

No. 362,607.

Patented May 10, 1887.

Fig. 1.

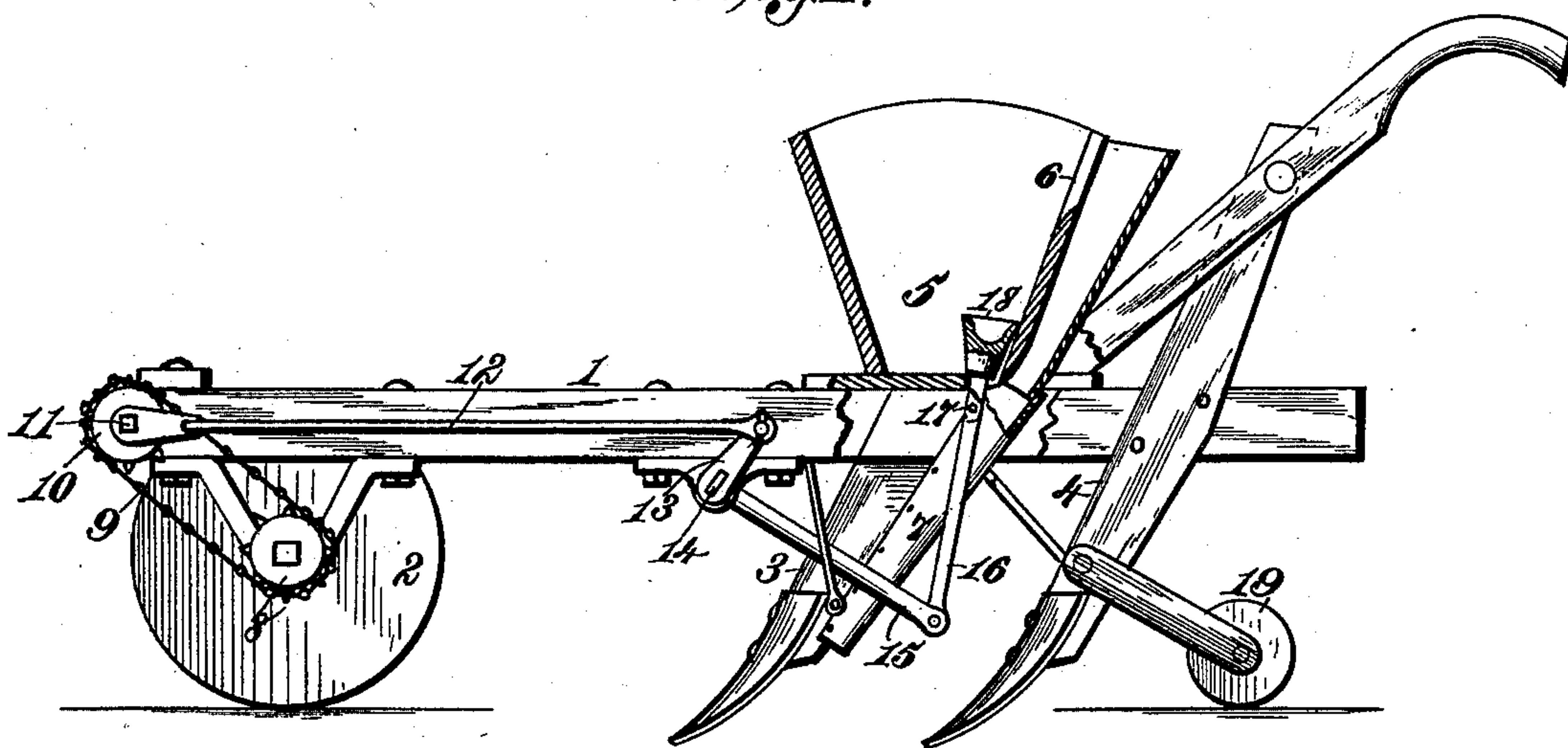
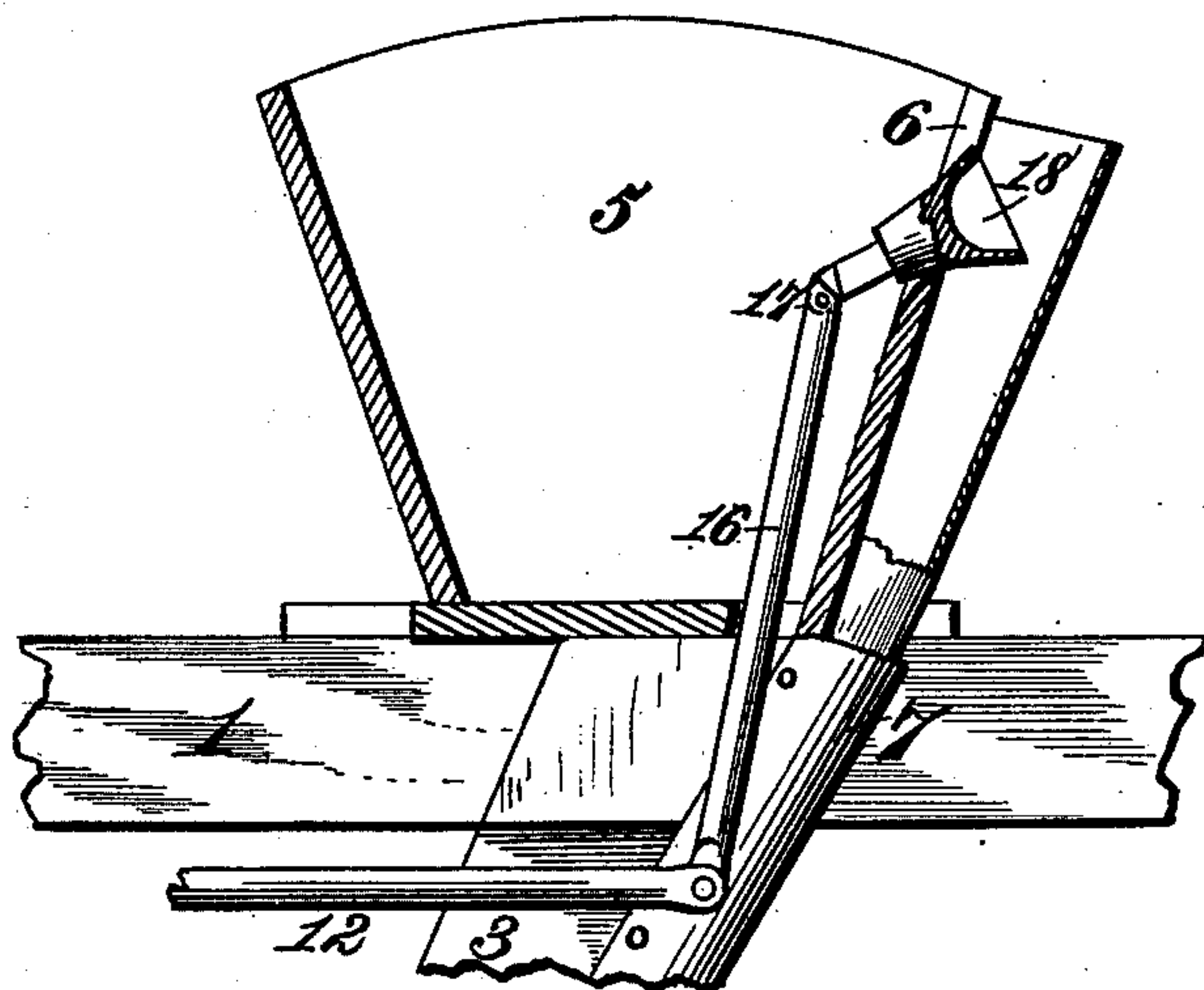


Fig. 2.



Witnesses.

Robert Garrett.

Dennis Sumby.

Inventor

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UNITED STATES PATENT OFFICE.

COUNCIL H. CLARK, OF CALDWELL, TEXAS, ASSIGNOR OF ONE-HALF TO
JULIUS H. PORTER, OF SAME PLACE.

SEED-PLANTER.

SPECIFICATION forming part of Letters Patent No. 362,607, dated May 10, 1887.

Application filed January 4, 1887. Serial No. 223,355. (No model.)

To all whom it may concern:

Be it known that I, COUNCIL H. CLARK, a citizen of the United States, residing at Caldwell, in the county of Burleson and State of Texas, have invented new and useful Improvements in Seed-Planters, of which the following is a specification.

My invention relates to a seed-planting machine; and it consists in the construction and combination of parts hereinafter described and claimed.

In the annexed drawings illustrating the invention, Figure 1 is a side elevation of my improved seed-planter, partly in section, showing the feed-cup in a lowered position at the bottom of the hopper. Fig. 2 is a longitudinal vertical section through the hopper and seed-spout, showing the feed-cup raised and discharging its contents into said spout.

Referring to the drawings, the numeral 1 designates the frame of the machine, having a wheel, 2, at its forward end, and provided with plow-standards 3 and 4 at the rear.

Above the central or forward standard, 3, and secured to the machine-frame, is a seed-hopper, 5, of any suitable form. The rear side of this hopper is provided at the top with a notch, 6, through which the hopper communicates with the upper end of a seed-spout, 7, that extends down along the rear side of the hopper 5 and plow-standard 3.

On the axle of the driving-wheel 2 is a sprocket-gear, 8, which connects through a chain, 9, with a similar sprocket-gear, 10, on a crank-shaft, 11, that is journaled in the forward end of the machine-frame.

To the crank-shaft 11 is attached a pitman, 12, which connects with a crank-arm, 13, on a rock-shaft, 14, journaled in the machine-frame at a suitable point between the driving-wheel and seed-hopper. This rock-shaft 14 carries a rearward-projecting arm, 15, to the rear end of which is pivoted a rod, 16, that extends up alongside the lower part of the seed-spout 7, and through a small opening in the rear under side of the seed-hopper. The upper end of the rod 16 is provided with a short pivoted joint, 17, which is flexible in a rearward direction only, and carries at its end a cup, 18, for feeding seed from the hopper to the seed-spout.

The movements of the rock-shaft 14 cause the jointed rod 16 and feed-cup 18 to reciprocate vertically within the hopper 5 and along its rear side, thereby elevating seed from the bottom of the hopper and discharging it through the notch 6 periodically into the seed-spout. It will be observed that the rod 16 and feed-cup 18 are so connected, through the rearwardly-flexible joint 17, that the cup will always tilt backward when it reaches the edge of the notch 6, and never forward, because the joint 17 is pivoted to the rod 16 in such a way as to prevent the cup from tilting forward.

By employing removable sprocket-gears 8 and 10, of proper relative diameters, the reciprocations of the rod 16 and cup 18 can be made to occur at any desired intervals during the progress of the machine, according to the distance required between the hills or places where the seed is to be dropped.

The central plow-standard, 3, will be provided with a suitable point or blade for opening a furrow, and the rear or side standards, 4, with points or blades for covering. If desired, a covering-roller, 19, can be pivotally connected with the rear standards.

It is obvious that my improved seeding mechanism can be applied with advantage either to a walking-planter or a wheel-cultivator, as may be desired.

Having thus described my invention, what I claim is—

In a seed-planter, the combination of the frame 1, the hopper 5, having a notch or opening, 6, in its upper rear edge, the seed-spout 7, extending vertically along the rear side of the hopper and communicating therewith through said notch, the reciprocating rod 16, having a jointed upper end provided with a seed-cup, 18, the rock-shaft 14, having crank-arm 13, and an arm, 15, connected with said reciprocating rod, the crank-shaft 11, pitman 12, driving-wheel 2, and the sprocket-gears 8 10, and chain 12, connecting the crank-shaft and wheel-axle, substantially as described.

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

COUNCIL H. CLARK.

Witnesses:

B. C. COFFMAN,
A. W. McIVER.