

(Model.)

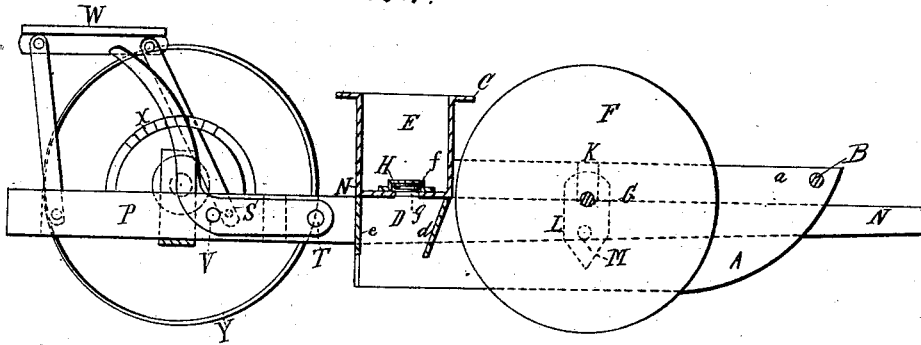
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CORN PLANTER.

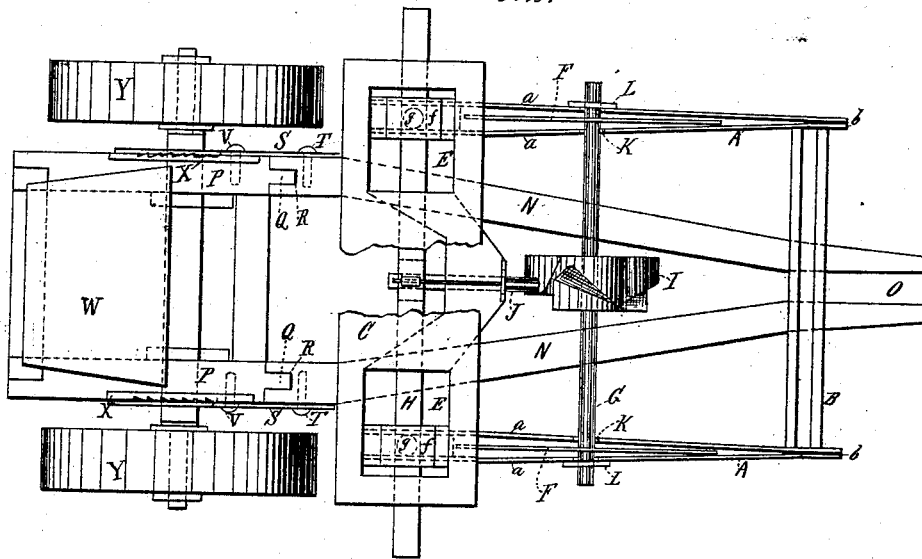
No. 265,911.

Patented Oct. 10, 1882.

*Fig. 1.*



*Fig. 2.*



ATTEST-  
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# UNITED STATES PATENT OFFICE.

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## CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 265,911, dated October 10, 1882.

Application filed March 29, 1882. (Model.)

*To all whom it may concern :*

Be it known that I, DAVID ALBERT YOAKAM, of Windham, in the county of Johnson 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 relates to improvements in corn-planters; and it consists in the novel construction and combination of parts, as hereinafter more fully set forth.

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

Figure 1 is a longitudinal sectional elevation of my improved corn-planting machine, and Fig. 2 is a plan view of the same with a part broken out.

A represents a pair of sled-runner-shaped furrow - openers, located a suitable distance apart, equal to the distance of the rows of corn from each other, and connected by bars B and the seed-box plate C, said runners being made of two plates each, *a a*, joined together at the front points, *b*, but diverging rearward therefrom, so that near the rear ends, where they have partitions *d* and *e* across the space between them, suitable conductors, D, are formed, for delivering the grain from the hoppers E into the open furrows just in advance of the falling of the furrow-ridges back into the furrows behind said runners to cover the corn.

F represents a wheel located in the space between the two plates *a* of the runners A, about midway between the ends, one in each runner, and on a shaft, G, which is revolved by them to work the seed-dropping slide H by means of a tappet-wheel, I, and the vibrating bar J. The shaft G is vertically adjustable in these runners by means of the slots K and adjustable boxes L, the latter arranged to be shifted up and down on the runners and provided with fastening-screws M.

The front bar, B, and also the seed-boxes E, are attached to the A-frame N, to which the tongue is to be attached at O on the front, said frame N being jointed behind the seed-boxes to the roller truck-frame P by the tensions Q and slots R and by the adjusting-levers S, said levers being pivoted to the bars of frame N at T, and to the truck-frame at V,

and said levers range along up by the sides of the driver's seat W, and are provided with racks X, to catch and hold them, so that by detaching the levers from the said racks and swinging them forward the runners A will be let down at the rear ends, and by swinging the levers the other way the said runners will be raised, their weight being transferred to some extent to the truck-rollers Y, which run over and pack the earth on the seeds, thereby regulating the depth of the furrows. The levers S may be constructed to spring into the notches of the rack-bars X, to be engaged and held by them, or they may have trip-latches common to such devices.

The tappet-wheel I is constructed with its points or tappets arranged to throw both ways alternately, and they are designed to throw the feed-slide at intervals of time suited to the required distance apart the seeds are to be dropped. The dropping-slide H is a plain box working under the caps *f*, covering the holes *g* in the bottoms of the seed-hoppers, and having holes coinciding with said holes *g* when in the middle position, which holes fill with seeds when shoved either way from under said covers *f*, and discharge the same through holes *g* when passing over them. I make no claim, however, to this form of seed-dropper; but I use it in my improved corn-planter and in connection with the sled-runner furrow - makers in preference to the wheel seed-dropping devices, because in this arrangement the seeds are always dropped the same distances apart, whereas in the wheel-droppers there is irregularity when the ground is rough, because of the irregular motion of the wheels up and down the hills and hollows.

By the use of this improved planter the expense of furrowing the ground in advance of the planter by an extra hand is avoided, and by making one mark or furrow at the starting-point will save the expense of the wire used by the check-rower, also the trouble of moving the wire at every starting-point.

I am aware that seed-slides have heretofore been operated by tappet-wheels, and that runners have been commonly used on planters, and that two parallel plows with a space between them have been employed in planters with hoppers over the space between the plows,

between which space the seed passes to the ground, and I therefore lay no claim to such inventions.

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

1. In a corn-planter, the combination, with the runners A, composed of the rearwardly-diverging plates *a a*, provided with the partitions *d e*, and the seed-slide H, of the wheels F, journaled in the cross-shaft G between the plates *a a*, substantially as and for the purpose set forth.

2. In a corn-planter, the combination, with the runners A, composed of the rearwardly-diverging plates *a a*, and the hoppers E, of the

shaft G, carrying the wheels F, arranged between the runner-plates and provided with central tappet-wheel, I, and seed-slide H, provided with the vibrating bar J, substantially as and for the purpose set forth.

3. In a corn-planter, the combination, with the frame N and the truck-frame P, of the lever S, pivoted to both of the frames N P, and having its end extended upwardly, and serving the double purpose of a hinge and lever, substantially as set forth.

DAVID A. YOAKAM.

Witnesses:

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P. H. DUFFEY.