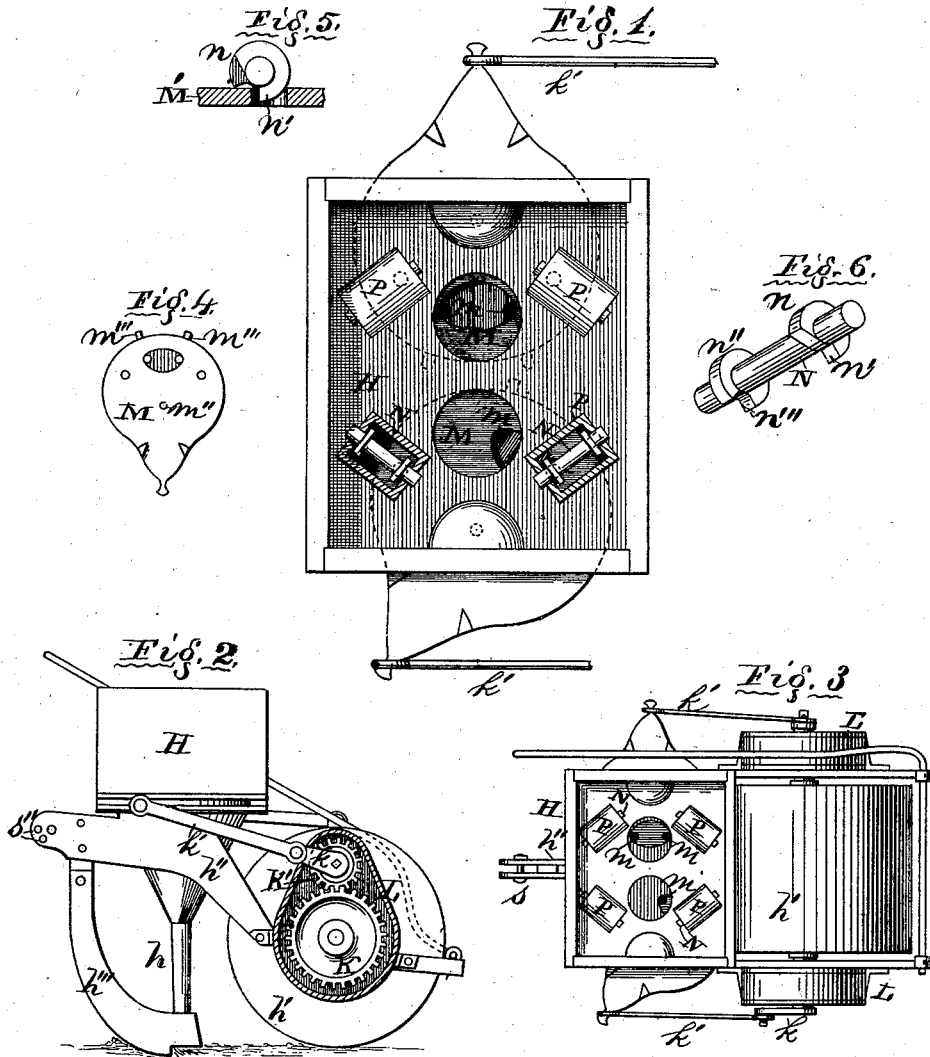


S. DIXSON.  
SEEDING-MACHINE.

No. 191,946.

Patented June 12, 1877.



Witnesses:  
R. R. Richards,  
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# UNITED STATES PATENT OFFICE,

STEPHEN DIXSON, OF ROSEVILLE, ILLINOIS.

## IMPROVEMENT IN SEEDING-MACHINES.

Specification forming part of Letters Patent No. 191,946, dated June 12, 1877; application filed January 13, 1877.

To all whom it may concern:

Be it known that I, STEPHEN DIXSON, of Roseville, in the county of Warren and State of Illinois, have invented certain new and useful Improvements in Seeding-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to seeding devices for corn-planters; and the invention consists in certain new and improved devices, and combinations of devices, whereby the seed is forced through the openings in the seed-cup plate, thereby preventing the passages from becoming clogged by large grains, or from the grains getting wedged together, all as hereinafter more fully described.

In the accompanying drawings, Figure 1 is an enlarged top view of the bottom of the seed-box, partly in section, to show the operating parts. Fig. 2 is a side elevation of the seeding device and roller, partly in section, to show the gearing. Fig. 3 is a top view of the seed-box, covering-roller, and adjacent parts. Fig. 4 is a top or plan view of one of the seed-cup plates, showing details of construction. Fig. 5 is a sectional view of one of the seed-cup plates, and elevation of feed-disk. Fig. 6 is a perspective view of one of the force-feeding devices.

Referring to the parts by letters, H represents the seed-hopper; *h*, the seed-tube; *h'*, the roller; *h''*, a frame connecting the roller with the seeding devices and supporting the latter. *h'''* is an ordinary furrow-opener which operates in advance of the seed-tube *h*, to insure an open furrow therefor.

K represents spur-wheels, one on each end of the shaft of the roller *h'*, and which gear with pinions K', which are journaled in housings L, which covers both gears K and K'.

*k k* are cranks on the projecting ends of the shafts of pinions K', and are connected by rods *k'* with the outer ends of the seed-cup plates M, so as to give them an oscillating motion in the obvious manner.

The seed-cup plates M are constructed and seated in the bottom of the hopper H, as shown and described in my patent No. 158,407, of January 5, 1875, and have seed-

passages *m m*, discharging the seed in the same manner as therein described—the one discharging when the plate oscillates forward on the pivot *m''*, and the others when it oscillates back again.

Immediately over where each seed-cup discharges is seated a rock-shaft, N, covered by a housing, P. On one end of the rock-shaft N is a disk *n*, having a groove cut therefrom, so as to form a projection, *n'*, and on the other end of the shaft N is a disk, *n''*, with a groove cut therein which leaves sides *n'''*.

The shafts N are journaled and seated, so that the disk *n''* projects downward beyond the periphery of the plate M in such manner that as the plate M oscillates in one direction one of the pins *m'''*, which projects from its edge, will strike a shoulder, *n'''*, and rock the shaft N in one direction, and a return movement of the plate M will cause the other pin *m'''* to strike the other shoulder *n'''*, and rock the shaft N in the other direction.

Rocking the shaft N in one direction thrusts a projection, *n'*, of the disk *n* through a seed-cup, *m*, at the moment it is over its discharge-opening, and thereby prevents the grains becoming wedged together, or any large grains clogging the passages; and the shaft N is rocked in the opposite direction at the necessary moment to raise the projection *n'* from the seed-cup and allow the seed-cup plate M to be again oscillated.

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

1. The rock-shaft N, having disks *n* and *n''* operating in combination with seed-cup plate M, having passages *m* and projecting pins *m'''*, substantially as and for the purpose specified.

2. The combination of seed-hopper H and oscillating seed-cup plates M, having the passages *m* and pins *m'''*, with the rock-shafts N having disks *n* and *n''*, and with the housings P, substantially as and for the purpose specified.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

STEPHEN DIXSON.

Witnesses:

THOS. MCKEE,  
M. H. BARRINGER.