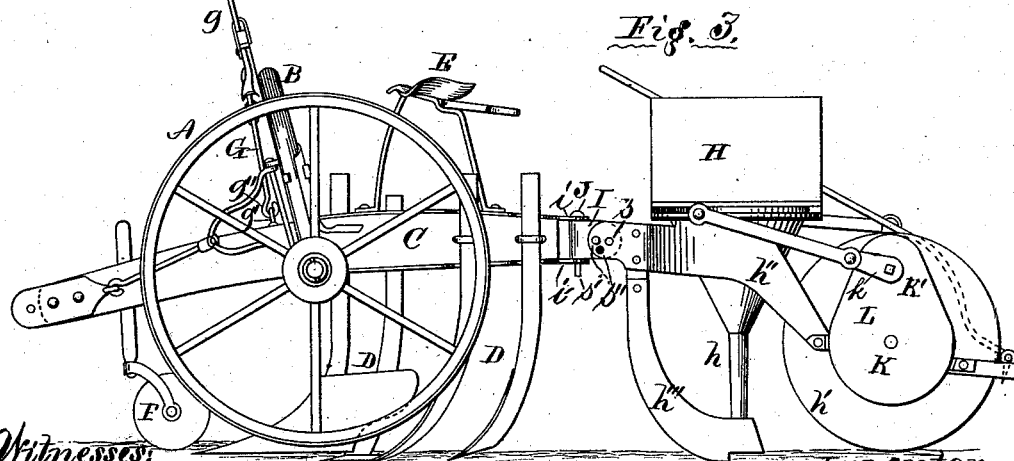
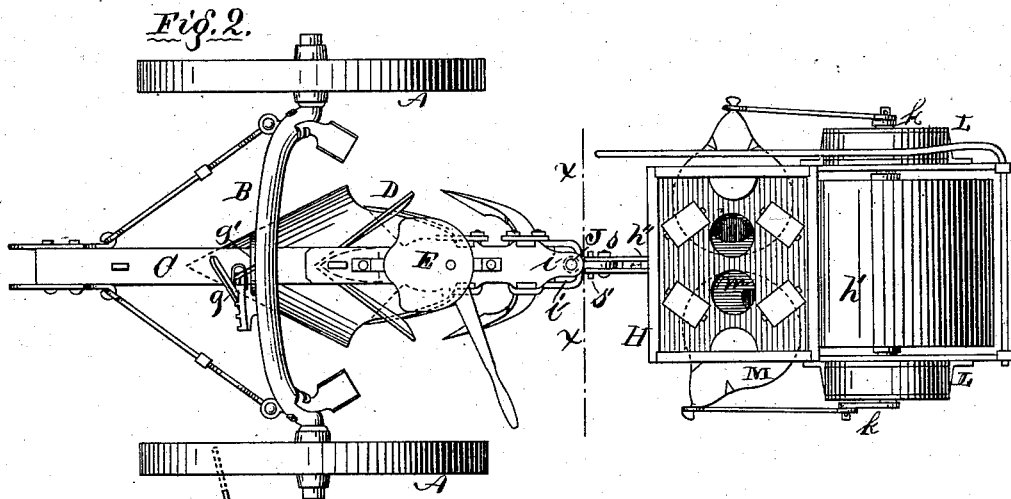
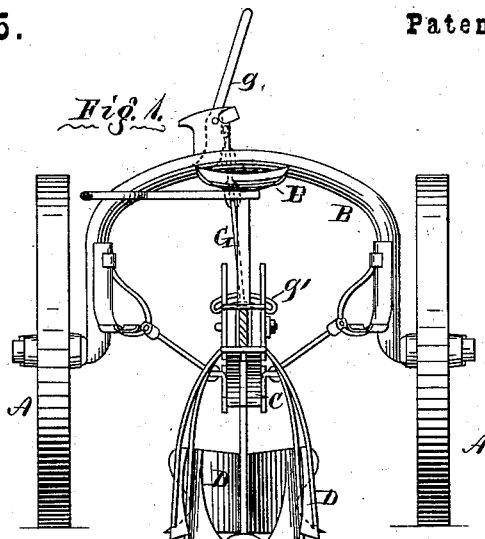


S. DIXSON.
SEEDING-MACHINE.

No. 191,945.

Patented June 12, 1877.



Witnesses:
R. R. Richards,
M. H. Barringer.

Inventor:
Stephen Dixon,
(By) R. R. Richards atty.

UNITED STATES PATENT OFFICE.

STEPHEN DIXSON, OF ROSEVILLE, ILLINOIS.

IMPROVEMENT IN SEEDING-MACHINES.

Specification forming part of Letters Patent No. **191,945**, dated June 12, 1877; application filed September 12, 1876.

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.

The nature of my invention relates to improvements on the inventions secured to me by Letters Patent No. 179,648, No. 158,408, and No. 158,407, and the invention consists, first, in connecting the plow-carrying beam with the seeding-frame in rear of it in such manner that the plows may be oscillated on the beam as a center of motion; second, in connecting the plow-carrying beam to the axle, so as to permit of aforesaid oscillating movement of the plows; third, in improvements in devices for supporting the plows above the ground.

In the accompanying drawings, Figure 1 is a rear elevation of that part of Fig. 2 forward of the line *xx* in Fig. 2. Fig. 2 is a top view of a machine embodying my invention. Fig. 3 is a side elevation.

Referring to the parts by letters, letters A represent wheels, supporting an axle, B, to which is attached a beam, C, carrying plows D, driver's seat E, and colter F, substantially the same as described in my patent No. 179,648, of July 11, 1876, except that the attachment of the suspending chain G from the lever *g* is by means of an elongated staple, *g'*, above the beam C, and to which the chain G is connected by an eye, *g''*, which permits the plows and their supporting beam to be oscillated as hereinafter described.

H is the seed-hopper; *h*, the seed-tube; *h'*, the supporting-roller; *h''*, a frame substantially the same as described in said patent No. 179,648; and *h'''* is an ordinary furrow-opener, in advance of the tube *h*, for insuring an open passage therefor.

I is a short plate, seated at its forward end

between a plate, *i*, which projects rearward from the upper side and rear end of the beam C, and a slotted plate, *i'*, which projects similarly from the lower side, and is secured therein by a bolt, J, which passes through holes in the plates *i* and I, and through the slot in the plate *i'*, permitting lateral oscillation of the plate I on the bolt J, and also permitting the plate I, or the beam C, and its plows to be swung to either side at their lower sides. The rear end of the plate I is seated between the forward forked ends of the frame *h''*, and pivoted therein by a bolt, *s*. *s'* is a stop-bolt, which may be passed through coincident holes *s''* in the plate I and forward end of frame *h''*, to secure the forward and rear parts in working position; or another series of holes *s''*, when the parts are elevated, to hold the rear end of the beam C and seed-tube *h* in an elevated position when not in use, and being moved from place to place.

It will be seen that the bolt J in the slot *i'* will allow the plows to be swung to the right or left hand side at their lower ends, and the chain G, sliding on the staple *g'*, will permit said movement, and thus facilitate operations in turning at the ends of rows, and in the control of the plows generally.

K K are spur-wheels, one on each end of the shaft of the roller *h'*, and gear with pinions K', which are journaled in a housing, L, which covers both gear K and K'. *k k* are cranks on the projecting ends of the shafts of pinions K', and are connected by connecting-rods *k'* with the outer ends of the seed-cup plates M, and give them an oscillating motion in the evident 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 seed in the same manner described therein, the one discharging when the plate swings forward on the pivot *m''*, and the other when it swings back.

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

1. The bolt J and plate I connected to the beam C by plate *i* and slotted plate *i'*, to allow

oscillation of the beam C and its plows, substantially as described and for the purpose specified.

2. The plate I constructed as described, and connected to the frame *h''*, having series of holes, by a bolt, *s'*, and combined to operate with the plow-carrying frame and seeding-frame, substantially as described and for the purpose specified.

3. The elongated staple *g'*, combined with

chain G, axle B, beam C, and devices connecting it to the frame *h''*, substantially as described 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:

THOMAS MCKEE,
W. B. RICHARDS.