

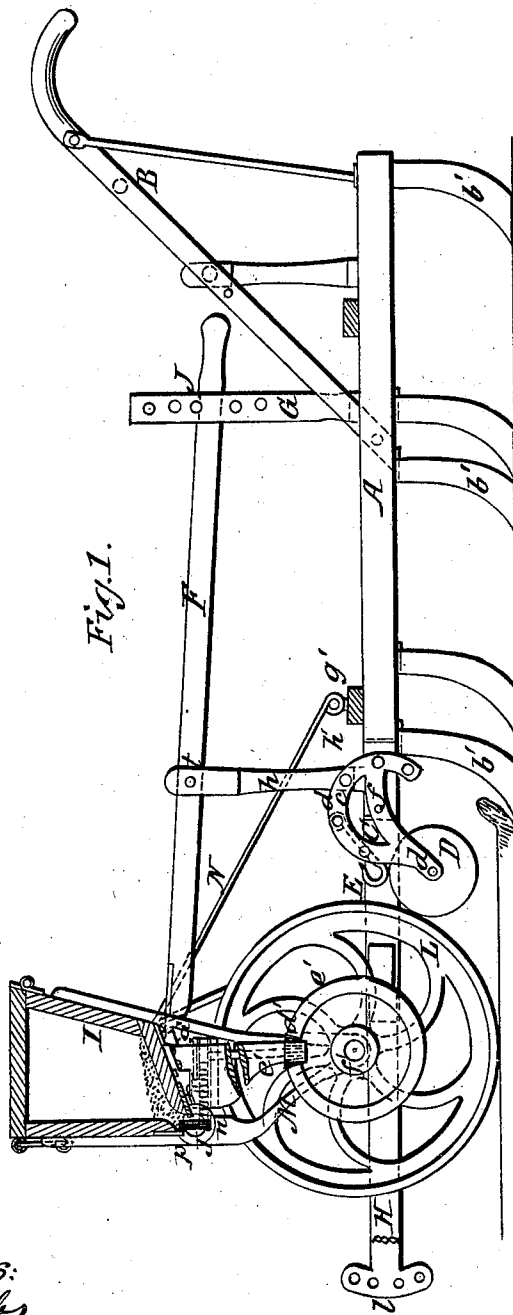
2 Sheets—Sheet 1.

T. A. GALT.

Seed-Planter.

No 30,876.

Patented Dec. 11, 1860



Witnesses:
J. W. Coombs
C. Hughes

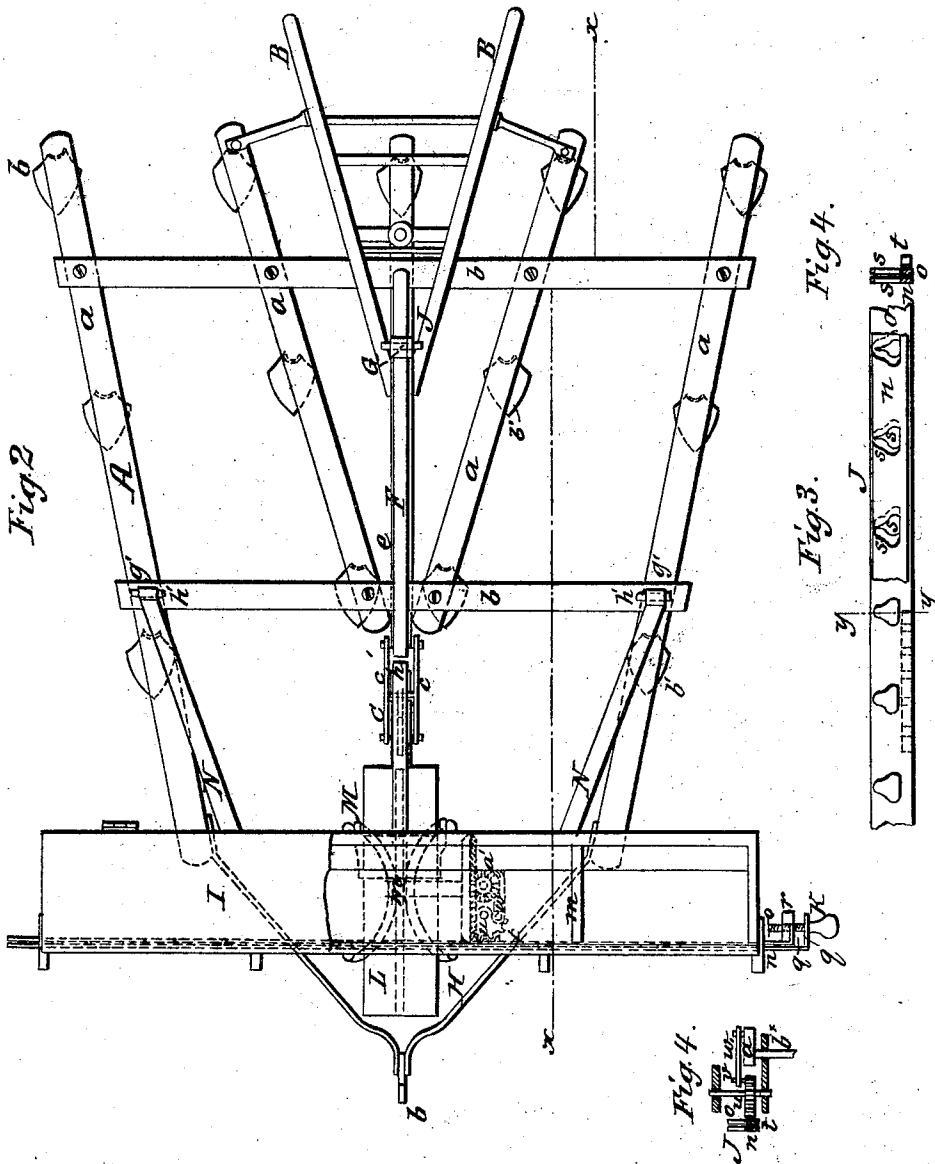
Inventor:
Thos A. Galt
per Wm. H. Co
Attys

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Inventor.
Thos. A. Galt
per Murray & Co
attys.

UNITED STATES PATENT OFFICE.

THOMAS A. GALT, OF STERLING, ILLINOIS.

IMPROVEMENT IN SEEDING-CULTIVATORS.

Specification forming part of Letters Patent No. 30,876, dated December 11, 1860.

To all whom it may concern:

Be it known that I, THOMAS A. GALT, of Sterling, in the county of Whiteside and State of Illinois, have invented a new and Improved Combination of Seeding Machine and Cultivator; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a side sectional view of my invention, taken in the line *x x*, Fig. 2. Fig. 2 is a plan or top view of the same. Fig. 3 is a detached sectional view of a portion of the seed-slide. Fig. 4 is a transverse section of the same, taken in the line *y y*, Fig. 3. Fig. 5 is a detached plan view of the mechanism which operates the seed-slide.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in a novel way of attaching the seeding device to the cultivator and combining and arranging the same, whereby the former may readily be rendered inoperative without detaching it from the cultivator.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents a cultivator, which may be constructed in much the usual way—to wit, oblique bars *a*, connected by traverse pieces *b*, and having teeth *b'* secured to them. The cultivator is also provided with handles B B, and to the front end of the cultivator-frame an adjustable clevis, C, is attached, said clevis being provided with a gage-roller, D. The clevis C is formed of two segments, *c c*, connected by traverse-bars *d*, the segments being secured to the central bar, *e*, of the cultivator-frame by a bolt, *f*, concentric with the segments. To the front part of the segments the roller D is attached, and the draft-hook E of the clevis is just above the roller, as shown clearly in Fig. 1. The segments *c c* are perforated, and being allowed to turn freely on the bolt *f*, the roller and hook may be adjusted higher or lower, as may be required, by means of a pin, *g*, which passes transversely through the central bar, *e*, and through either of the holes in these segments *c c* of the clevis.

To the front end of the central bar, *e*, of the cultivator there is attached an upright, *h*, at

the upper end of which is the fulcrum *i* of a lever, F, the back part of which is fitted in a guide, G, through which a pin, *j*, passes, to regulate the position of the lever F, the pin *j* passing through either of a series of holes in the guide G.

To the front ends of the side bars, *a*, of the cultivator there is attached a V-shaped metal bar, H, at the front of which there is secured a vertical segment, *l*, perforated from top to bottom, and into either of which perforations there is fitted the draft-hook when both implements or devices are used conjointly.

I is a seed box or hopper, which is of oblong form and divided into a series of compartments by transverse partitions *m*.

At the front and lower end of the box I there is placed the seed-slide J, which is formed of two perforated plates, *n o*, fitted in suitable guides, *p*, attached to the seed-box. The two plates *n o* are connected at one end by a thumb-screw, K, which passes through a flange, *q*, of one plate, *n*, and through a nut, *r*, attached to a flange, *q*, of plate *o*. By turning the screw K, the two plates may be adjusted longitudinally, and their perforations *s* made to register more or less perfectly with each other, so as to regulate the discharge of the seed from the seed box or hopper I. This will be fully understood by referring to Fig. 3.

At the back side of the back plate, *o*, of the slide J there are secured a number of teeth, *t*, into which a toothed segment, *u*, gears. This segment *u* works on a center pin, *v*, and the segment is connected by a link, *w*, with a crank, *a'*, at the upper end of an arbor, *b**, which is stepped in a plate, *c'*, attached to the bottom of the seed box or hopper.

At the lower end of the arbor *b** there is a bevel-pinion, *d'*, which gears into a bevel-wheel, *e'*, attached to the axle *f'* of a wheel, L, the axle *f'* having its bearings in a frame, M, which is attached to the seed box or hopper I.

To the bottom of the seed box or hopper I there are attached two arms, N N, which project from the seed-box at its back side, have loops or eyes *g'* at their ends, and are fitted on pintles *h*, attached to the cultivator, one at each side, as shown in Fig. 2. By this mode of connecting the seed-box I to the cultivator, the former may be raised and lowered, as the arms N are allowed to work or turn on their pintles. This raising of the seed-box may be

effected at any time by actuating the lever F, the front end of which is fitted in a metal loop, *i'*, attached to the back of the seed-box.

It will be seen that when the machine is drawn along, the slide J will have a reciprocating movement given it by means of the gearing *d' e'*, crank *a'*, link *w*, segment *u*, and teeth *t* on the plate *o* of the slide J. In case of turning the machine, or in passing from place to place, the operator by simply depressing the back end of lever F will elevate the seed-box I, and raise the wheel L above the surface of the ground, thereby stopping the distribution of the seed when not required.

When the seeding-machine is not required, the arms N N are merely slipped off the pin-tles *h'*, and the clevis C adjusted to graduate the depth of the cultivator-teeth *b'*, the clevis C, when the seeding-machine is used, being so

adjusted as to keep the roller D and hook E above the surface of the ground.

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

Attaching the seed-box I to the cultivator A by means of the arms N N, fitted on the pin-tles *h'*, and having the wheel L placed on the frame M, which is attached to the bottom of the seed-box, said wheel having the driving mechanism for the seed-slide connected with it, in connection with the V-shaped draft-bar H attached to the frame of the cultivator, and all arranged to operate as and for the purpose set forth.

THOMAS A. GALT.

Witnesses:

J. S. STAGER,

ROSWELL CHAMPION.