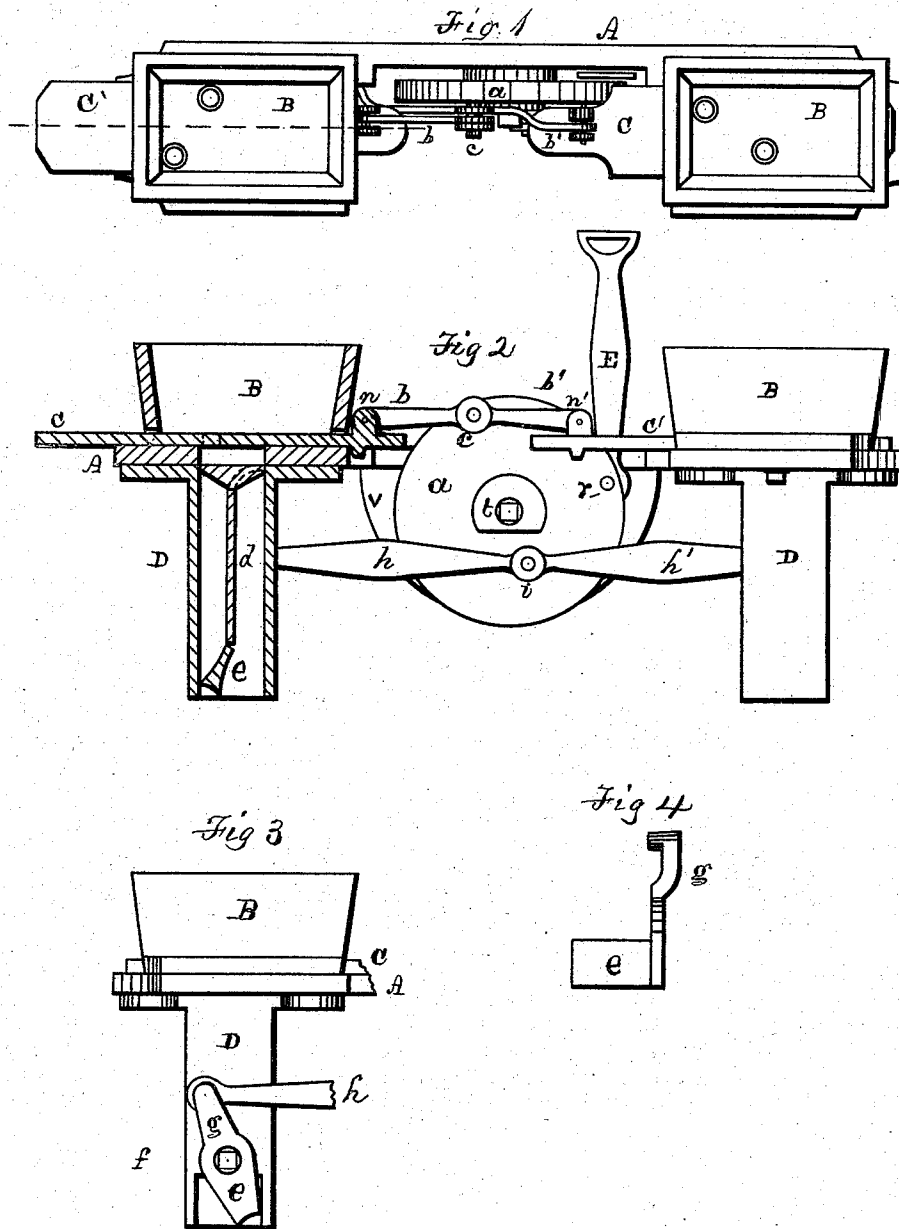


A. HEARST.
Corn-Planters.

No. 157,601.

Patented Dec. 8, 1874.



Witnesses;
O. W. Bond.
C. L. Hyde.

Alex^r Hearst.
By West & Bond Attys.
Inventor.

UNITED STATES PATENT OFFICE.

ALEXANDER HEARST, OF PEORIA, ILLINOIS.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. **157,601**, dated December 8, 1874; application filed September 11, 1874.

To all whom it may concern:

Be it known that I, ALEXANDER HEARST, of Peoria, in the county of Peoria and State of Illinois, have invented new and useful Improvements in Corn-Planters, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a plan; Fig. 2, a front elevation, one side being shown in section; Fig. 3, a rear view of one of the seed-tubes, showing the valve therein and its connections; Fig. 4, a detail, showing the valve in the seed-tube.

This invention relates to mounted planters. Only so much of the machine is shown as is required to illustrate the improvements.

The invention consists in the peculiar valve used in the seed-tube, and in the devices used for simultaneously operating the seed-slides and the valves in the seed-tubes.

In the drawings, A represents a part of the frame; B, the seed-boxes; C C', the seed-slides; D D', the seed-tubes; E, a handle used in operating the seed-slides and valves. *a* is a wheel, pivoted at *t* on *v*, which, as shown, is an extension from, or secured to, A. *b b'* are arms. One end of each is pivoted to one of the seed slides C C' at *n* and *n'*. The other end of each arm is pivoted upon a pin, *c*, secured to the side of the wheel *a*. *d* is a partition in the seed-tube. *e* is a valve near the lower end of the seed-tube. It is pivoted to the tube at *f*, and has an arm, *g*. *h h'* are arms. One end of each arm is pivoted to the upper end of the arms *g* upon the valves *e*. The other

ends of the arms *h h'* are pivoted upon a pin, *i*, upon the side of the wheel *a*. The seed slides and tubes are so constructed that the corn falls first into one side and then into the other side of the tube, and is discharged first from one side, then from the other, by the action of the valve *e*.

In use the operator is to be suitably seated on the machine, and by alternately pushing down and pulling up the handle E, both seed-slides and both valves *e* will be simultaneously operated, because both slides are connected with the wheel *a* by means of the arms *b b'*, and both valves *e* are also connected with the wheel *a* by means of the arms *h h'*; hence a partial rotation of the wheel *a*, by means of the power applied to the handle E, moves both slides and both valves at the same time. When the parts are in the position shown in Fig. 2, if the handle be pushed down, both slides and both valves will be moved to the right; then, by pulling up the handles, the slides and valves will be carried back to their former position.

What I claim as new is as follows:

The wheel *a*, pivoted to the frame at *t*, and handle E, in combination with arms *n n'*, slides C C', arms *h h'*, partitions *d*, and valves *e*, substantially as and for the purpose specified.

ALEXANDER HEARST.

Witnesses:

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