

J. SELBY.
Corn-Planters.

No. 154,347.

Patented Aug. 25, 1874.

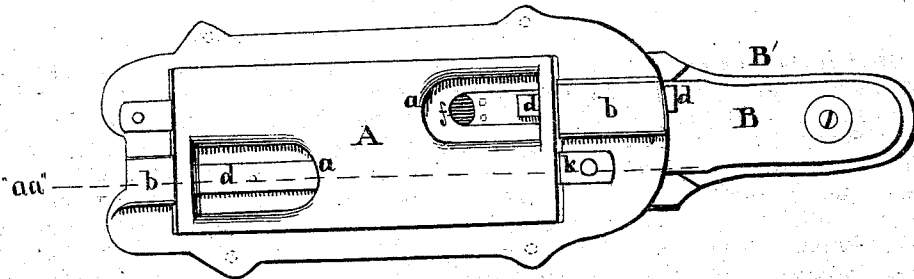


Fig. 1.

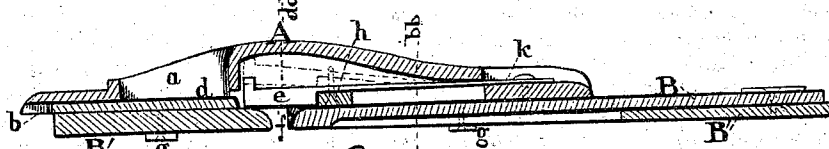


Fig. 2.

Sec. m. "aa" fig. 1, x 2.

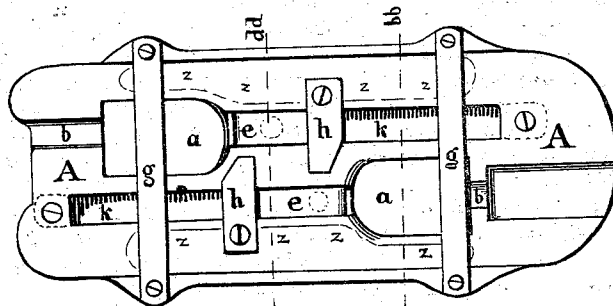


Fig. 3.

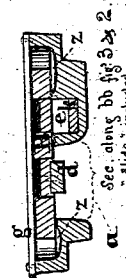


Fig. 5.

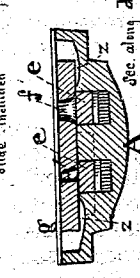


Fig. 6.

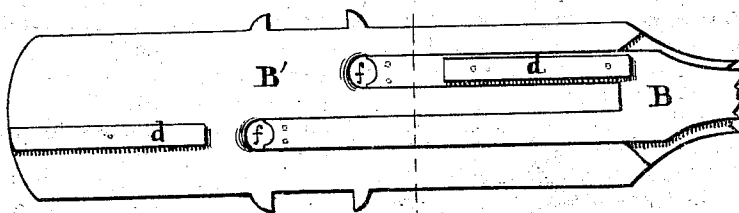


Fig. 4.



Sec. m. "cc" fig. 4

Fig. 7.

Witnesses
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UNITED STATES PATENT OFFICE.

JAMES SELBY, OF PEORIA, ILLINOIS.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. **154,347**, dated August 25, 1874; application filed June 29, 1874.

To all whom it may concern:

Be it known that I, JAMES SELBY, of the city of Peoria, in the county of Peoria, in the State of Illinois, have invented an Improvement in Corn-Droppers or Cut-Offs for Corn-Planters; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a plan view of upper surface of the cut-off, and upon which the corn or seed lies; Fig. 2, a longitudinal section of cut-off and slide along dotted line *a a*, Fig. 1, which also represents a longitudinal section of the adjoining valve-holes, &c., in the other half of the cut-off and slide; Fig. 3, a view of the under side of the cut-off, the slide removed; Fig. 4, a plan view of slide; Fig. 5, a cross-section of the cut-off along line *b b*, Fig. 3; Fig. 6, a cross-section along line *d d*, Fig. 3; Fig. 7, a cross-section of slide along line *c c*, Fig. 7.

This invention relates to that class of droppers which have an upper and lower horizontal cut-off plate, two holes for the passage of corn, and a slide with a double-armed adjustable plate, which regulates the size of the corn-passages.

My improvement consists in providing recessed spring cut-off valves at the head of the corn-passages, with a stop or cross-piece extending across the neck of each valve, behind the vibrating head *e* of the same, to prevent the friction of the head of the valve against the slide; also, in cutting away the inferior surface of the cut-off plate around the recesses, which include the valves, for the purpose of doing away with that much extra friction; also, in the shape and arrangement of the corn-stirrers, which follow their respective corn-passages *f* in the slide, one stirrer being placed on each arm, and the cut-off plate above cut away for the passage of the same back and forth.

In the drawings, A represents the cut-off plate, which forms the floor of the seed-box, *a a* representing the usual corn-passages, and *e k e k* the valves, each of which has a flat oblong head, *e*, which plays vertically in a recess behind the arched end of the corn-passage *a* in the cut-off plate, to which they are each riveted or screwed through the end of

their respective flat, spring-like stems *k k*. Across the neck of each valve, and forming a continuous flat surface with the inferior face of the said cut-off plate is a stop or cross-piece, *h*, riveted or screwed in a recess for that purpose in said cut-off, for the purpose of keeping the face or head *e* of the valve from rubbing upon the slide B B', but still allowing the two to approach each other as near as may be without touching, to avoid friction. The corn-passages *a a* and the valves *e k e k* are surrounded, or partially so, with a depression, *z z*, &c., in the surface of the cut-off plate A, (seen in profile in sections, Figs. 5 and 6,) in such a manner as to leave a rib or low wall round the valves and corn-passages, the top of which is level with the general face of the plate. B' represents the usual slide, and B the usual double-armed corn-passage adjuster. (Seen in place in Fig. 2.) Each of the latter are provided with oblong strips or projections *d d*, lying upon the surface of and parallel with each arm, each in a line with the corn-passages *f f*, and are intended to push or loosen the corn about the holes, and may be attached to or made removable from the slide at convenience. Grooves *b b* are cut in the inferior surface of the cut-off plate A, at each end of same, for the passage back and forth (with the slide) of the stirrers *d d*.

What I claim as my invention is—

1. A cut-off having the spring-valves *e k e k* embedded in its under side, with cross-pieces or detents *h h* on the neck of each valve, and the depressions *z z*, &c., around both valves and corn-passages *a a*, substantially as and for the purposes described.

2. In combination with the valves *e k e k* and the cut-off A, the detents *h h*, substantially as and for the purposes described.

3. A cut-off plate provided with grooves *b b* on its under surface, leading to each corn-passage and valve, for the reception and passage back and forth of the stirrers *d d*, attached to the slide below, substantially as and for the purposes described.

In testimony that I claim the foregoing cut-off for corn-planters, I have hereunto set my hand this 23d day of June, A. D. 1874.

JAMES SELBY.

Witnesses:

WILLIAM JACK,
HENRY W. WELLS.