

D. & D. F. LUSE.
Assignors, by mesne Assignments, to HOOSIER DRILL CO. & J. & J. A. CAMPBELL.
Corn-Planter.
No. 8,245. Reissued May 21, 1878.

Figure 1.

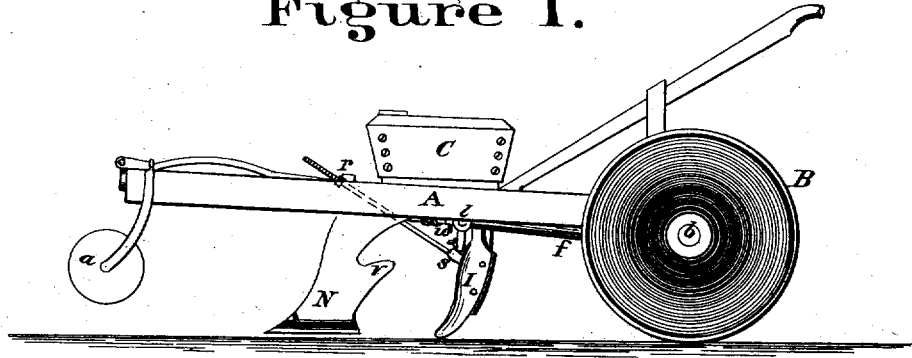
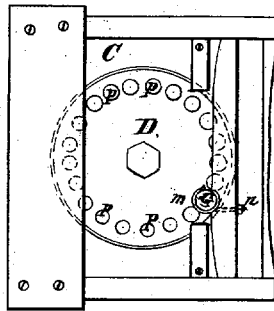


Figure 3.



Attest

Wm. P. Longenecker
John W. McLaren

Inventors

David Luse
Daniel F. Luse
by Wood & Boyd
Attys &c

D. & D. F. LUSE.

Assignors, by mesne Assignments, to HOOSIER DRILL CO. & J. & J. A. CAMPBELL.

Corn-Planter.

No. 8,245.

Reissued May 21, 1878.

Figure 2

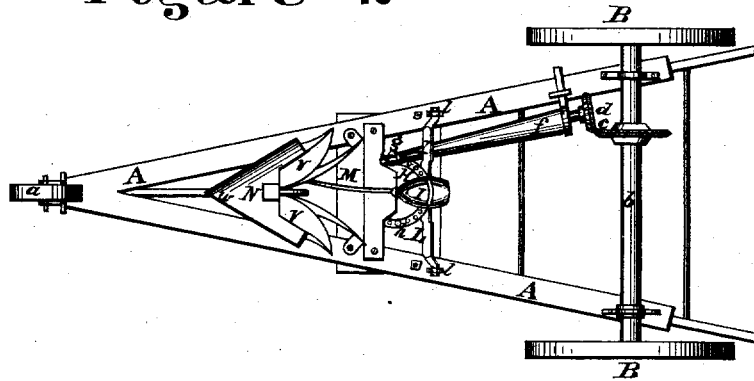


Figure 4

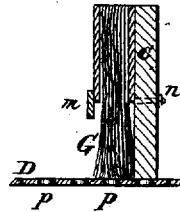
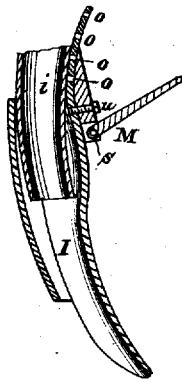


Figure 5

Attest

Wm P Longenecker
John W. McLaren

Inventors

Daniel Luse
Daniel F. Luse
 by *Wood & Boyd*
Attys &c

UNITED STATES PATENT OFFICE.

DANIEL LUSE AND DANIEL F. LUSE, OF CENTRE HALL, PENNSYLVANIA, ASSIGNORS, BY MESNE ASSIGNMENTS, TO HOOSIER DRILL COMPANY, OF MILTON, INDIANA, AND J. & J. A. CAMPBELL, OF HARRISON, OHIO.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. 53,459, dated March 27, 1866; Reissue No. 6,078, dated October 6, 1874; Reissue No. 8,245, dated May 21, 1878; application filed May 1, 1878.

To all whom it may concern:

Be it known that we, DANIEL LUSE and DANIEL F. LUSE, of Centre Hall, formerly of Spring Mills, in the county of Centre and State of Pennsylvania, have invented certain new and useful Improvements in Corn-Planters, of which the following is a specification:

This invention relates to that class of corn-planters in which the seed is dropped by a disk revolving in the hopper; and consists in providing a peculiar furrow-plow, together with a novel arrangement of the drill-tooth, and a brush within a cove in the seed-box to secure regularity in the dropping.

Figure 1 represents a side elevation of a corn-planter embodying our invention; Fig. 2, a bottom view of the same; Fig. 3, a plan of the seed-box and dropping apparatus therein; Fig. 4, a central vertical section of the seed-dropping drill-tooth and its immediate appendages; and Fig. 5, a central vertical section of the seed-brush and its fastenings.

We ordinarily employ a common triangular frame, A, supported by two wheels, B, near the rear end, and gaged in height by a center-wheel, *a*, in front. The seed-box C is situated as usual, and is provided with an ordinary dropping-disk, D, which may be revolved in any appropriate manner by connecting mechanism underneath. G is a brush located within the seed-box on the circle of the holes *p* in the dropper-plate D, and within a cove or recess which projects at the sides, so as to prevent the seed from passing behind the brush.

The brush is adjustable vertically to accommodate different sizes of seed, to assist in regulating the quantity to be dropped, and to compensate for wear; and it is adjustable circularly for the purpose of presenting different fronts to the line of rotation of said dropper-plate as its bristles become set or worn in use. We prefer to confine the bristles forming the brush in a tube, open or closed at the top, which serves as a handle; but they may be confined by wrapping or in any well-known and appropriate manner. *m* is a curved hook embracing the brush, as shown, and having a screw-shank reaching back through the side of the seed-box, and secured by a nut, *n*, which

tightens the brush, as desired, and allows it to be adjusted at pleasure. When the brush reaches up to the cover of the seed-box, or is prevented from rising by any appropriate means, the curved hook *m* need not be screwed up so as to tightly engage the brush, but may loosely engage it, so as to allow it to revolve and adjust itself as to wear, though we prefer to have the hook tightly hold the brush.

The drill-tooth I is fastened to a swinging bail, L, of crank form, whose bearings *l l* are above the under side of the frame. A flange, *t*, Fig. 4, projecting upward from the bail at the center and provided with a bolt hole or holes, serves to attach the drill-tooth to the bail. There is a set of bolt-holes, *o o*, in the upper part of the drill-tooth, by which the depth of the drill-tooth's running may be adjusted to any desired extent, while the swinging of the bail enables the drill-tooth to be adjusted also to any angle desired. In order to adjust this angle a rod, M, is hinged to the drill-tooth at S, and extends thence forward and upward through the frame of the machine, and terminates in a screw-thread, so that a nut, *r*, thereon adjusts the length of the rod, as desired.

The joint at S may have a wooden pin, which will break when any obstruction strikes the drill-tooth, thereby causing the same to give way without injury to the machine. The plow or furrow-clearer N in front of the drill-tooth has a regular double share, W, and two regular or complete mold-boards or wings, *v v*, whereby not only turfs and other undesirable obstructions are pushed aside from the furrow, but are turned away like a furrow-slice, thus invariably insuring the complete removal of the obstructions from the rows, and leaving the ground fine and clear at and near the furrow.

We are aware that furrow openers and clearers of various forms have been used before; but so far as we are advised no previous arrangement of a double share and a double mold-board plow or furrow-clearer completely turning furrows both ways have been used in this connection.

We have shown suitable mechanism connecting the gear or the driving-shaft and the re-

volving disk for operating the machine; but any other known appropriate mechanism may be used.

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

1. A vertically and circularly adjustable brush arranged in a cove in front of the seed-delivery opening, as and for the purpose specified.

2. The bail L, provided with the attaching and adjusting flange *t* and angle-adjusting rod *m* for mounting the drill-tooth upon, substantially as and for the purpose herein specified.

3. The double share and full double mold-board furrow-clearing plow W, in combination with the drill-tooth I, substantially as and for the purpose herein set forth.

In testimony whereof we have hereunto set our hands this 22d day of April, 1878.

DANIEL LUSE.
D. F. LUSE.

Witnesses:

J. O. DEININGER,
EZRA KRUMBINE.