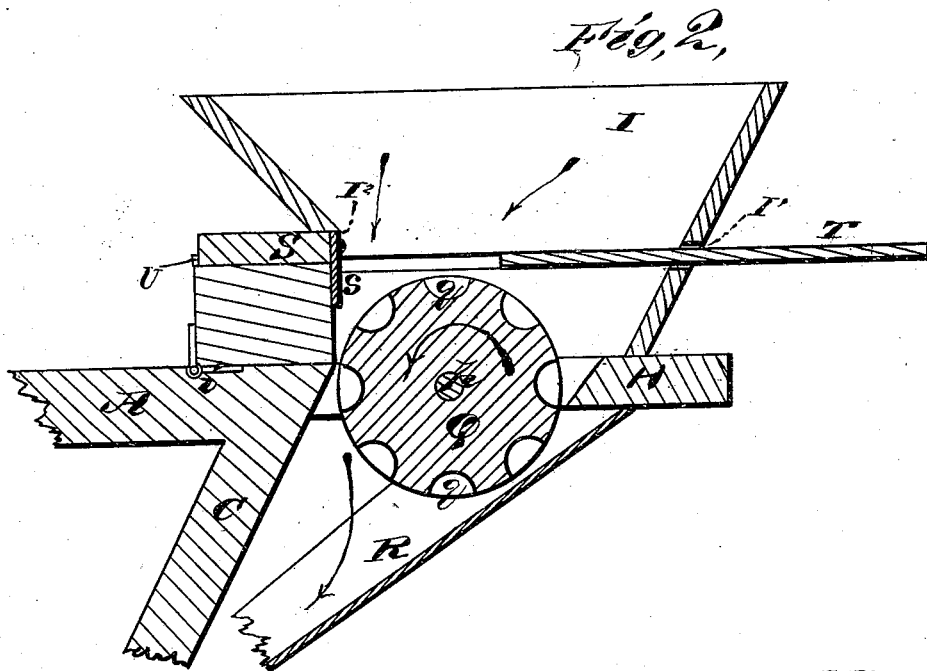
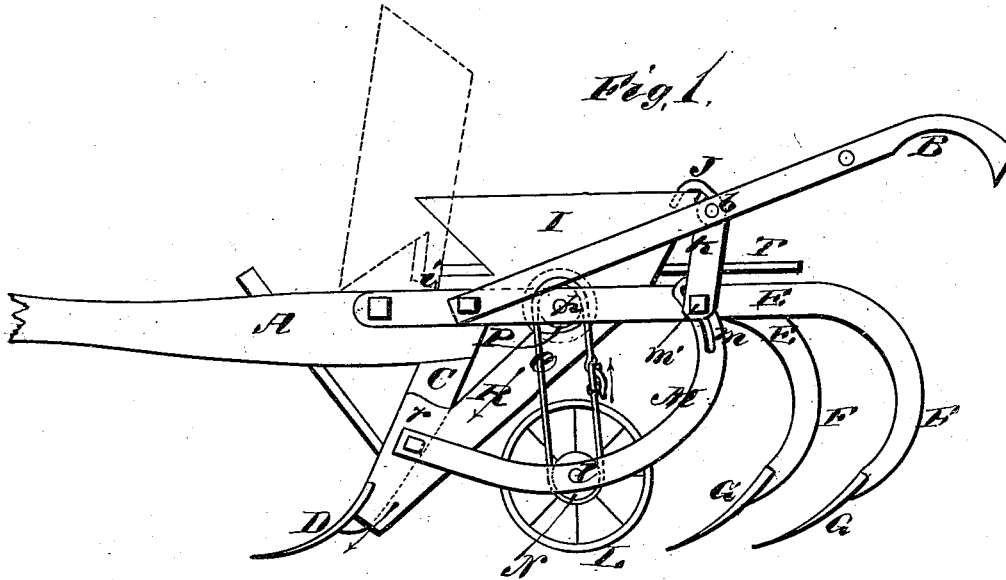


S. P. LOYD.
CORN-PLANTER.

No. 186,859.

Patented Jan. 30, 1877.



WITNESSES
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UNITED STATES PATENT OFFICE.

SAMUEL P. LOYD, OF CASSANDRA, GEORGIA.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. 186,859, dated January 30, 1877; application filed October 21, 1876.

To all whom it may concern:

Be it known that I, SAMUEL P. LOYD, of Cassandra, in the county of Walker and State of Georgia, have invented a new and valuable Improvement in Corn-Planters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side view of my corn-planter, and Fig. 2 is a sectional view thereof.

This invention relates to corn-planters; and it consists in the devices hereinafter described.

In the annexed drawings, A designates the plow-beam and draft-bar of a wheel corn-planter, and B B the guiding-handles, of ordinary construction, secured to the sides of the rear end of said beam. C designates a standard inclined forward from said rear end of said beam, and rigidly secured to the same, which standard has attached to its lower end a plow-point, D, the office of which plow-point is to prepare a furrow for the reception of the corn. E E designate two longitudinally-arranged metal bars or supplemental beams, which are secured by their front ends to the sides of the rear ends of beam A. Said bars E correspond in size and shape to one another, and each is provided at its rear end with a curved standard, F, that has a rigidly-secured plow-point, G. Said plow-points or shovels G G serve to cover the corn after it has been deposited. The curvature of said rear standards F F is first outward, then backward and downward, and finally forward and downward. Each one of said standards F is made in one piece with one of said bars or supplemental beams E. H designates a bracing-block interposed between the rear ends of bars or beams E, and secured to the same for the purpose of strengthening them, thus completing a supporting-frame for the corn-hopper I. Said hopper is hinged in front, at *i*, to the top of beam A, near the rear end thereof, so that it can be thrown or turned forward, thereby allowing access to the feeding devices. To the lower cross-piece *b* of handles B B is secured a pivoted hook, J, which may be

turned forward, so as to catch the top of the rear end of hopper I and hold said hopper in position for use. K K are rigid upright or slightly rearwardly-inclined braces, which connect said cross-piece *b* with supplemental beams E E at or near the rear ends of the latter. Said braces aid in supporting said handles B, and also in holding the said beams E E in their proper places. L designates the transporting and operating wheel of the said corn-planter. Said wheel is journaled, by means of a shaft, *l*, in two curved bearing-bars, M M, each one of which is secured by its lower and forward end to front standard C, and by its upper and rear end to one of the bars or supplemental beams E E. The latter attachment is made adjustable by means of a longitudinal slot, *m*, in each of said bearing-bars M, through which slot passes the attaching-bolt *m'*, which is clamped in place by a nut or other device capable of being loosened, so as to allow said adjustment.

By this arrangement and construction the depth of the furrows may be regulated at will, since it depends on the relative vertical locations of said transporting-wheel and the said plow-points.

The planting is effected as follows: From a drum or pulley, N, on shaft *l* an endless belt, O, transmits motion to a similar drum or pulley, P, on a shaft, *p*, that is journaled in bars or beams E E under hopper I. Said shaft *p* carries a dropping-wheel, Q, which is provided with suitable pockets or cup-shaped recesses *q q* on its periphery, and arranged directly under the opening in the bottom of said hopper. Said dropping-wheel receives corn from said hopper, and discharges it into the upper end of a metal chute, R, which deposits said corn in the furrow immediately behind front plow-point D. Said chute is rigidly attached at its upper end to one of the bars or supplemental beams E, and by its lower part and forward flanges *r r* to front standard B. Said chute inclines forward and downward throughout its entire length. The seed-cups or pockets *q q* are so constructed that each of them can receive but one grain of corn at one time. The lower part of hopper I is provided at front and back with horizontal slots I² I². Through front slot I² works a short slide, S,

provided at its inner end with a downwardly-extending flange, *s*. This slide regulates the feed by closing a part of the bottom outlet of said hopper to lessen the feed force in said slide. To increase the feed, draw it out. Flange *s* prevents the said slide from being separated from said hopper. Through rear slot *P* works a longer slide, *T*, which can be forced in so as to close the entire bottom of said hopper, and which is prevented from being detached from the same by means of a pin or short rod attached to said hopper, and passing through a longitudinal slot in said slide *T*. If preferred, slide *S* may be attached in the same manner, and slide *T* may have a flange like *s*. Hopper *I* is provided in front with a supporting and guiding track, *U*, for slide *S*. Various other modifications may be made

without departing from the spirit of my invention.

What I claim as new, and desire to secure by Letters Patent, is—

In a corn-planter, a hinged hopper, having a regulating and cut-off slide, *T*, in combination with a dropping-wheel arranged below said hopper, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

SAMUEL PLEASANT LOYD.

Witnesses:

MILTON RUSSELL,
W. A. WEAVER.