

Corn-Planter.

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Inventor
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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN SEED-PLANTERS.

Specification forming part of Letters Patent No. 53,304, dated March 20, 1866.

To all whom it may concern:

Be it known that I, R. KETCHAM, of South Dansville, in the county of Steuben and State of New York, have invented a new and Improved Seed-Planter; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical section of my invention, taken in the line *xx*, Fig. 2; Fig. 2, a plan or top view of the same. Fig. 3 is a detached view, representing a rear elevation of the conducting-spout and showing the manner of attaching it to the axle. Fig. 4 is a vertical central section of the conducting-spout.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved seed-planter of that class designed for dropping seed in hills or drills, and which are provided with a supplemental seed-distributing slide.

The object of the invention is to obtain a seed-planter of the class specified, which will be simple in construction, capable of being manufactured at a small cost, and of being readily adjusted so as to drop the seed at different distances apart, as may be desired.

A represents an axle, having a wheel, B, at each end and thills C C attached to it.

D is a seed-box, placed on the axle A and having a horizontal partition, *a*, in it, provided with a hole, *b*, said partition dividing the seed-box into two compartments, *c c'*.

The axle A has a vertical hole, *d*, made through it in line with the lower chamber, *c'*, and to the under side of the axle A, in line with the hole *d*, there is attached a spout, E, which extends downward nearly to the surface of the earth, as shown in Fig. 1.

F F' represent two slides, which pass horizontally through the seed-box—one, F, above the partition *a*, and the other, F', above the axle A—each slide having a hole, *e*, made in it at such points that when the hole of the upper slide, F, is in line with the hole *b* in the partition *a* the hole *e* of the lower slide, F', will be out of line with the hole *d* in the axle A, and vice versa. These two slides F F' are operated simultane-

ously by means of pins *f*, projecting at equal distances apart from the inner side of one of the wheels B, said pins, as the machine is drawn along, coming in contact with a spring, G, which is attached to the axle A, and to which the two slides F F' are secured, said spring having a tendency to move the slides in the direction indicated by arrow 1, while the pins *f* move said slides in the reverse or contrary direction. By this means a reciprocating motion is imparted to the slides, the seed which is placed in the upper compartment, *c*, passing through the hole *e* of the upper slide, F, when said hole is in line with the hole *b* in the partition *a*, and the seed in *c'* passing through the hole *e* in the lower slide, F', when said hole is in line with the hole *d* in the axle A.

By inserting a greater or less number of pins *f* in the wheel B the seed may be dropped at a greater or less distance apart, as may be desired, and any desired number of seed-boxes may be placed on the axle A, two slides, F F', being only required for the whole number.

The arrangement is extremely simple and efficient, and will operate in a perfect manner.

The construction of and mode of attaching the conducting-spout are represented in the detail views, Figs. 3 and 4. The top of the spout is constructed or shaped with a view to constitute a seat for the axle A, which is embraced between the two pieces *o o* formed on the top of the spout. The spout is held in place by means of a bolt, *p*, which passes through the axle A and through vertical slots *o' o'* in the pieces or projections *o o*. By loosening the nuts *p' p'* the spout E can be raised or lowered, and by tightening them it can be retained in the position at which it may be desired to have it work.

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

The conducting-spout E, formed with the two pieces *o o*, to receive the axle between them, and with the vertical slots *o' o'*, to admit of the adjustment of the spout, as described.

RICHARD KETCHAM.

Witnesses:

R. C. KETCHAM,
L. H. BENJAMIN.