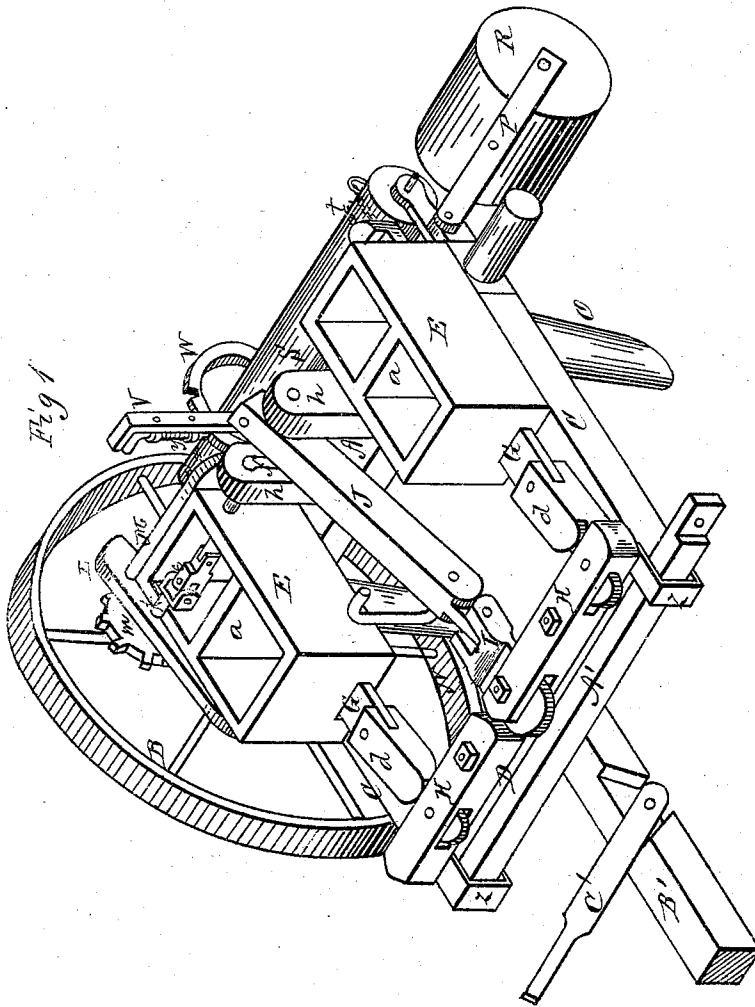


J. STATZ.
Corn-Planters.

No. 144,233.

Patented Nov. 4, 1873.



Witnesses
Francis L. Durand
Chas. L. Everett

Inventor
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Fig 2

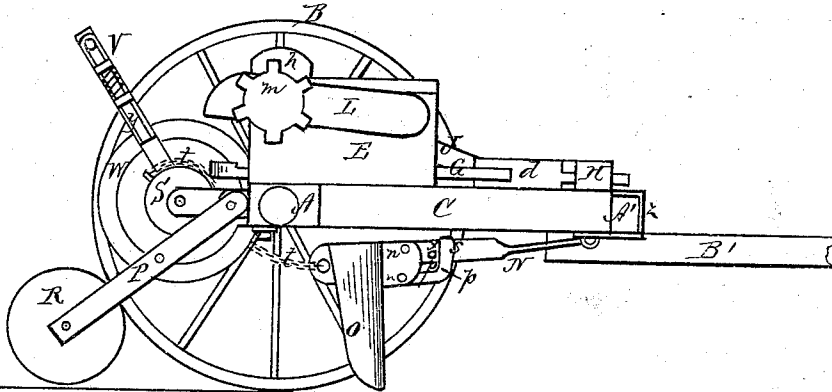


Fig 3

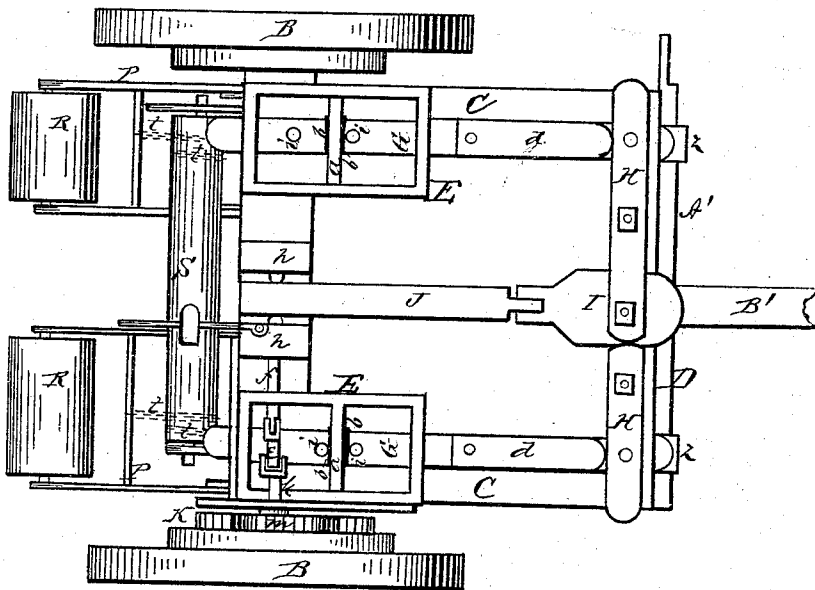
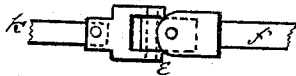


Fig 4



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UNITED STATES PATENT OFFICE.

JOSEPH STATZ, OF CROSS PLAINS, WISCONSIN.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. **144,233**, dated November 4, 1873; application filed April 7, 1873.

To all whom it may concern:

Be it known that I, JOSEPH STATZ, of Cross Plains, in the county of Dane and State of Wisconsin, have invented certain new and useful Improvements in Corn-Planters; and do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in the combination of certain devices for operating the seed-slides of a corn-planter, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view, Fig. 2 a side elevation, and Fig. 3 a plan view, of my entire machine. Fig. 4 shows a knuckle or universal joint used in the same.

Similar letters of reference indicate corresponding parts.

A represents the axle, upon each end of which is a driving-wheel, B. From the axle A two bars, C C, extend forward for a suitable distance, the front ends of said bars being connected by a bar, D, running parallel with the axle. E E represent the corn boxes or hoppers, located upon and secured to the axle A and rear ends of the bars C C. Each box E is, by a transverse partition, *a*, divided into two compartments, and at the lower end of said partition is a mortise, through which the seed-slide G passes longitudinally through the box. On each side of the partition *a*, immediately above the slide G, is attached a brush, *b*, to prevent more than the desired amount of corn to be dropped. In the slide G are two holes or openings, *i i*, into which the corn falls, and is carried, by the movement of the slide, under the partition *a*, where it drops down through an opening in the bottom of the box.

There being two holes, *i*, in each slide G, one for each compartment of the box, it will be seen that corn will be dropped both at the forward and backward movement of the slide, and at regular intervals.

When desired, the slide may be made to drop

only once, instead of twice, by placing corn only in one of the compartments of the box, instead of in both, whereby the distance between the hills will be just doubled.

The front end of each slide G is, by a coupling-bar, *d*, connected with the outer end of a short lever, H, the two levers H H being pivoted on the upper side of the bar D, and their inner ends, by a single coupling, I, connected with the front end of a pitman, J. The rear end of this pitman is placed on a crank-shaft, *f*, having its bearings in standards *h h* rising from the axle A. One end of the shaft *f* passes into one of the boxes E, where it is, by a knuckle or universal joint, *e*, connected with a short shaft, *k*, carrying on its outer end a pinion, *m*, which is made to gear with a cog-wheel, K, on the driving-wheel B on that side, and by these means the necessary rotating motion is imparted to the crank-shaft *f*, and from the same by the pitman and levers described a reciprocating motion is imparted to the slides, said slides moving in the same direction. The pinion-shaft *k* has its bearing in a bar, L, pivoted on the side of the box E, and is raised or lowered by a lever, M, whereby the pinion *m* is thrown in and out of gear with the cog-wheel K, as described. Under or on the under side of the bar D is hinged a bar, N, directly in front of each box E, and the rear end of said bar is pivoted between two ears, *n n*, on the front side of the shoe or conductor O, through which the corn drops from the box into the ground. Between the ears *n n*, and below the bar N, is pivoted a short arm, *p*, the front end of which forms a loop, *s*, through which the bar N passes. Behind the loop *s* in said bar is inserted a wooden pin, *x*, whereby the shoe is held in proper position under any ordinary strain on the same; but when the shoe should strike a stone or other solid obstruction the pin *x* will break, and allow the shoe to turn sufficiently to clear the obstruction. To the rear side of the axle A, in rear of each box E, is hung a frame, P, carrying a roller, R, for covering the corn deposited in the ground. Each frame P, as well as each shoe O, is, by a chain *t*, connected with a roller or shaft, S, hung in suitable bearings on the rear side of the axle A, and provided with a lever, V, whereby the roller is turned in its bearings to

simultaneously raise or lower both the shoes and covering-rollers. The lever V is provided with a spring-latch, *y*, catching in notches on a circle, W, to hold the roller S at any point desired. On the front of the bar D are loops *z z*, through which bars A' may be passed, and arranged in any suitable manner, to act as markers.

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

The combination, upon a suitable frame, of the seed-boxes E E with slides G G, connected at their front end, by couplings *d d*, with the

levers H H, and the inner ends of said levers connected, by a single coupling, I, with the pitman J, the crank-shaft *f* with universal joint *e*, shaft *k*, pinion *m*, and cog-wheel K, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 19th day of February, 1873.

JOSEPH STATZ.

In presence of—

H. J. DAHMEN,
GEORGE ESSEX.