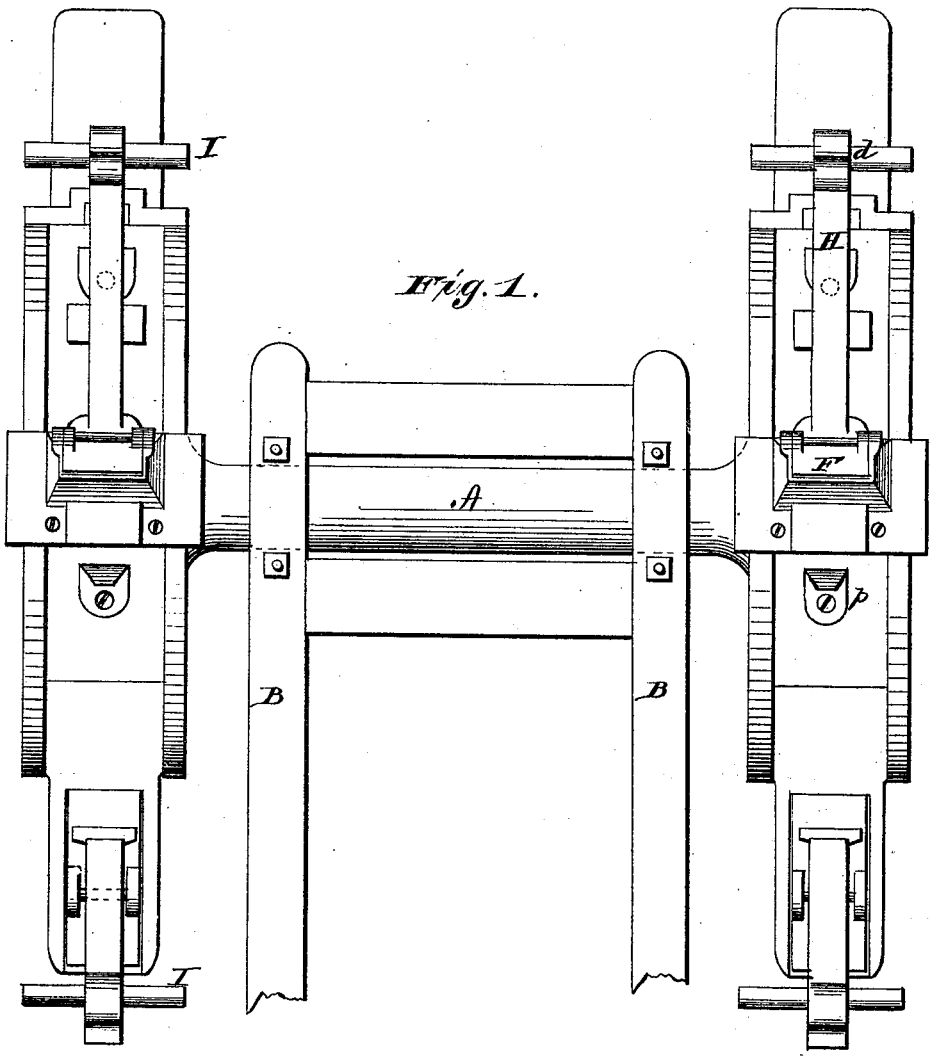
2 Sheets—Sheet 1.

J. D. GREEN.
Seed-Planter.

No. 211,729. Patented Jan. 28, 1879.

Fig. 1.



WITNESSES
Francis L. Durand
H. Audrey Toulmin

BY

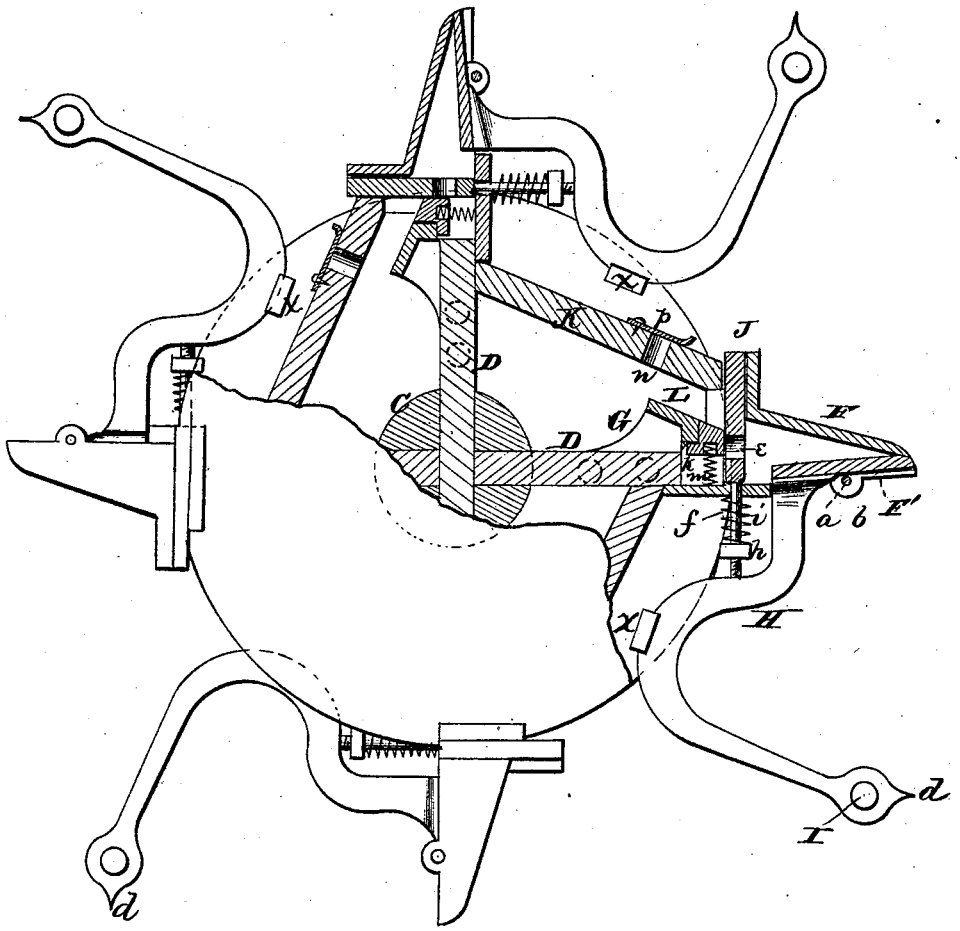
INVENTOR
J. Delos Green
Alexander Mason
ATTORNEYS

2 Sheets—Sheet 2.

J. D. GREEN.
Seed-Planter.

No. 211,729. **Patented Jan. 28, 1879.**

Fig. 2.



WITNESSES
Franck L. Ouland
H. Aubrey Toulmin

BY

INVENTOR
J. Delos Green
Alexander Mitchell
ATTORNEYS

UNITED STATES PATENT OFFICE.

J. DELOS GREEN, OF SEDALIA, MISSOURI.

IMPROVEMENT IN SEED-PLANTERS.

Specification forming part of Letters Patent No. **211,729**, dated January 28, 1879; application filed July 10, 1878.

To all whom it may concern:

Be it known that I, J. DELOS GREEN, of Sedalia, in the county of Pettis, and in the State of Missouri, have invented certain new and useful Improvements in Seed-Planters; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a seed-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, in which—

Figure 1 is a plan view of my planter; and Fig. 2 is a side elevation of the same, partly in section.

A represents a center shaft or axle, rotating in suitable boxes or bearings attached to the shafts B B, between which the horse is attached.

At each end of the shaft or axle A is formed or attached a hub, C, in which are framed two cross-bars, D D, at right angles to each other, and a disk, E, is fastened on each side of said cross-bars.

At each end of each bar D is secured a casting, G, which forms a projecting shoe or mouth-piece, F, having one side, F′, made separate and hinged to it by a rod, *a*, passing through ears *b* on both the shoe and the independent side.

From the hinged side F′ projects an arm, H, which is curved substantially in the form shown, and has its extreme end pointed, as seen at *d*. Near this point in the end of the arm is an eye, in which is inserted and fastened a round or bar, I.

In the casting G, at the entrance to the shoe F, is a slide, J, with dropping-hole at *e*, and from said slide projects a rod, *f*, surrounded by a spiral spring, *i*, and the tension of this spring is regulated by a nut, *h*.

The end of the rod *f* bears against the arm H, so that the spring *i* will hold the arm in such a position that the shoe F will be closed.

L represents an inclined cut-off with a projection, *k*, working in a slot in the casting G to guide its movement, and a spring, *m*, throws said cut-off forward.

From the outer end of each casting G extends a plate or bar, K, to the next adjacent bar D, thus dividing the wheel into four separate and distinct boxes, each box having its separate and independent dropping device, and in each bar K is an aperture, *n*, for the admission of the seed, said aperture being provided with a cover, *p*, as shown.

The operation of the machine is as follows: As the machine is drawn forward, the shoes F and points *d* of the arms H form, as it were, spokes, which take into the ground and cause the wheels to revolve. As a shoe, F, stands perpendicularly into the ground the point *d* of the lever, connected to its gate F′, strikes the ground in advance of the shoe, and as the weight is gradually transferred to the lever, the lever turns on its hinge; or, more properly speaking, the entire wheel turns upon the lever as a fulcrum, opening the shoe, and allowing the seed therein to be deposited in the ground. At the same time the slide J is moved back by the pressure of the lever on the rod *f*, and allows the hole *e* to be filled with seed from the box. The movement of these parts is stopped when a cross-piece, *x*, on the lever H strikes the bar K. As the wheel continues to advance, the next shoe strikes the ground, and the first lever is returned to its former position by the spring *i* around the rod *f*, which closes that shoe and draws the slide J back, so that the seed received in the hole *e* will fall down into the shoe, ready for the next time this shoe strikes the ground.

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

1. In a planter having seed-boxes arranged in the wheels, the shoe F, with hinged gate F′, and the curved lever H, projecting therefrom, said lever being provided with the cross-piece

x, point *d*, and round I, substantially as and for the purposes herein set forth.

2. The dropping-slide J, with rod *f*, spring *i*, and nut *h*, in combination with the curved lever H, attached to the hinged gate F′ of the shoe F, and constructed to operate substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 12th day of June, 1878.

J. DELOS GREEN. [L. S.]

Witnesses:
CHAS. M. MCCLUNG,
B. G. WILKERSON.