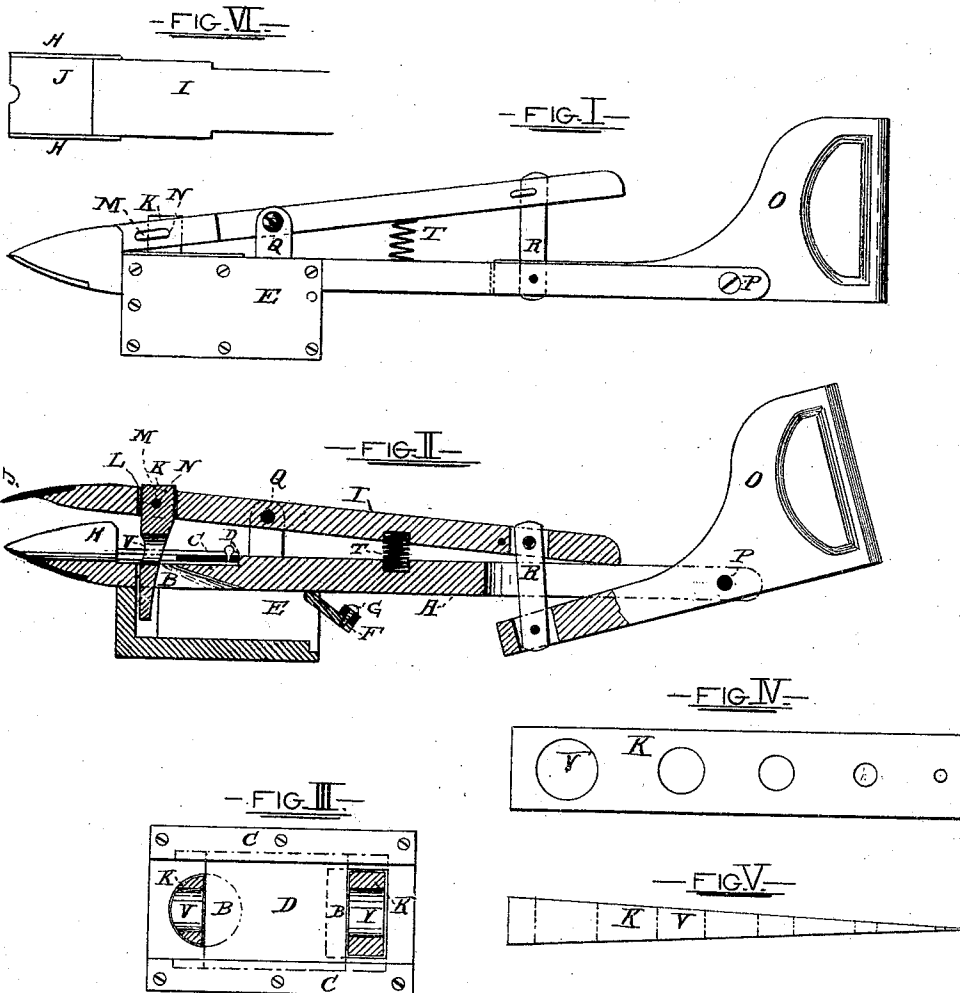


HENRICK LAGE.

Improvement in Hand Corn-Planters.

No. 127,696.

Patented June 11, 1872.



—WITNESSES:—

Geo. H. Howard.

Theo. Mungen.

—INVENTOR:—

Henrick Lage

by his attys.

Cox and Cox

UNITED STATES PATENT OFFICE.

HENRICK LAGE, OF OMAHA CITY, NEBRASKA.

IMPROVEMENT IN HAND CORN-PLANTERS.

Specification forming part of Letters Patent No. 127,696, dated June 11, 1872.

To all whom it may concern:

Be it known that I, HENRICK LAGE, of Omaha city, in the county of Douglas and State of Nebraska, have invented a new and useful Improvement in Hand Seed-Planters, of which the following is a specification:

Nature and Objects of the Invention.

This invention relates to an improvement in hand seed-planters; and consists of a blade to which is attached a receiver, having a valve-opening guarded by a slide, in combination with a blade provided with a removable valve having an orifice, and a lever arranged in such a manner that valves having different-sized orifices can be inserted for planting different-sized seeds, and that when operated a thrust forces the point or sheath of the planter into the ground, and a downward backward motion of the lever parts the blades at the point and permits the discharge of one hill of seed, after which a spring forces the blades into position for a repetition of the operation.

Description of the Accompanying Drawing.

Figure I is a side elevation. Fig. II is a longitudinal section. Fig. III is a plan view of the valve-seat and slide, showing the different-shaped valves in section. Fig. IV is a plan of the wedge-shaped valve. Fig. V is a side view of Fig. IV; and Fig. VI is a side elevation of the point of blade I.

General Description.

In the drawing, A is the blade, provided with a valve-opening, B, over which a metallic guide, C, having a slide, D, is countersunk into the blade A. A receiver, E, having a lid, F, and button G, is secured to the blade A, so that the interior of its bottom is in line with the lowest portion of the valve-opening B. A metallic sheath, H, secured to the blade A, incases the outside and the edges of the blade A at its point, and also the edges of the blade I at its point. A metallic plate, J, protects the outside of the blade I at its point. The valve K, having the orifice V, is wedge-shaped, and may be made to fit either a circular or quadrilateral valve-opening, B, and secured within an opening, L, which should

correspond in shape with the large end of the valve K by a pin, M, having a hooked head. Several valves, K, having different-sized orifices, V, may be used with each planter for planting different sizes of seed. The point of the hook on the pin M enters a small hole in the edge of the blade I directly below the hole N, through which the pin M passes to secure the valve K. The lever O has its fulcrum at P in the bifurcation at the upper end of the blade A. The blade I works on the bearings Q, and is connected to the lever O by the metal strip R. A pin, similar to the pin M, secures the blade I to the strip R. T is a helical spring, which acts in opposition to the lever O.

Operation.

The lever O is made to form the handle of the planter. The point of the planter is thrust into the ground, and a downward and backward motion of the lever O separates the blades A and I at the point of the planter, and draws the valve K out of the opening B in the receiver E so far as to permit the seeds which have settled into the orifice V in the valve K to drop therefrom to the ground between the points of the blades A and I. The slide D falls down the guide C by its own weight, and continually rests upon the valve K. The upper side of the valve K being beveled from its outer to its inner end causes the slide D to descend as the valve is withdrawn, and to ascend as it returns to place.

Claim.

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

The handle O, serving the double purpose of handle and lever in operating the blade I, valve K, and blade H, substantially as shown and described.

In testimony that I claim the foregoing improvement in hand seed-planters as above described I have hereunto set my hand and seal this 18th day of April, 1872.

HENRICK LAGE. [L. S.]

Witnesses:

H. F. STRONG,
J. M. JOHNSON.