(No Model.)

# S. W. HOAG.

## HAND CORN PLANTER.

No. 266,367. Patented Oct. 24, 1882.

Fig. 1,

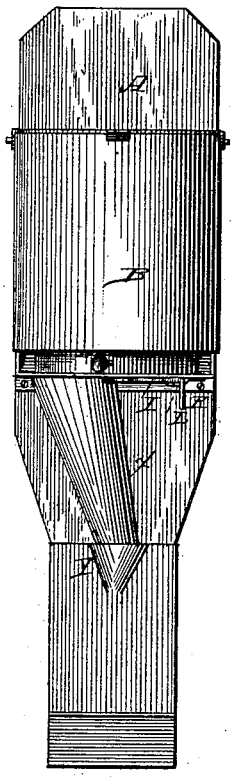


Fig. 2,

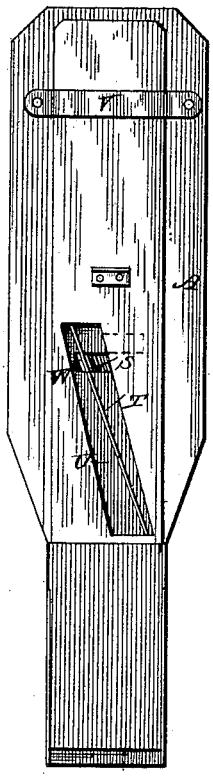


Fig. 3,

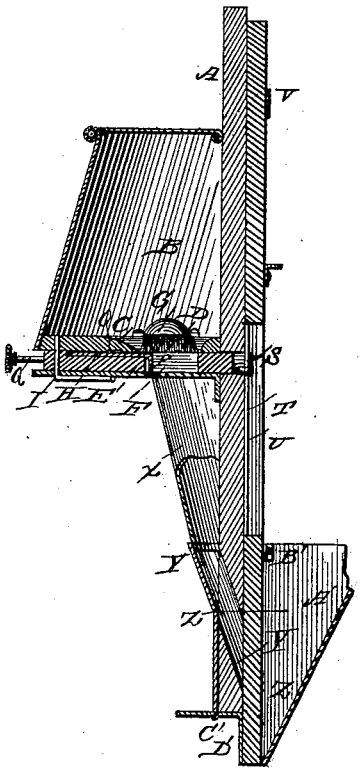


Fig. 4

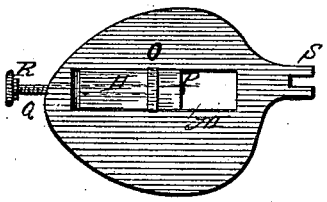


Fig. 5,

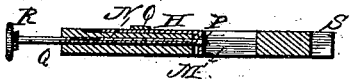
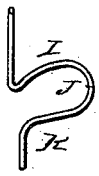


Fig. 6



WITNESSES:

Fred. G. Dieterich,

Charles A. Barker

INVENTOR.

S. W. Hoag

by C. A. Snow & Co.

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

SETH W. HOAG, OF GRAND ISLE, VERMONT.

## HAND CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 266,367, dated October 24, 1882.

Application filed June 5, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, SETH W. HOAG, of Grand Isle, in the county of Grand Isle and State of Vermont, have invented certain new and useful Improvements in Hand Corn-Planters; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to hand corn-planters, and has for its object to provide a simple, inexpensive, and efficient device. To this end it consists in certain improvements in the construction and operation of the same.

In the drawings, Figure 1 is a front elevation of the device; Fig. 2, a rear elevation; Fig. 3, a vertical sectional view; Fig. 4, a view of the sliding valve detached; Fig. 5, a sectional view of the latter, and Fig. 6 a detail view of the valve pivot-pin.

Referring by letter to the drawings, A designates the back board, having the seed-hopper B, provided with a dished bottom, C, in which is formed an opening, D, and under this with a plate, E, having likewise an opening, F. At opening D is arranged a brush, G, and between the bottom C and plate E is pivoted a valve-disk, H, at its front end by means of a pin, I, continued and curved, as at J, to form a spring portion, and having its end turned to form a handle, K, adapted to engage a stop, L, on the under side of plate E. Thus by disengaging the handle K the pin may be withdrawn and the valve readily removed for inspection. The latter consists of a disk, H, having an opening, M, the size of which is regulated by a plate, N, sliding under a collar, O, its end P being turned down in the opening M and engaged by the end of a screw-threaded rod, Q, working through the disk, and provided with a head, R, on the outside, by which it may be operated without removing the valve. To oscillate the valve its rear end or tongue, S, is bifurcated, and between the arms thus formed is accommodated a rod, T, extending longitudinally in a diagonal slot, U, in the plunger, which works vertically in a strap, V, on board A. Thus as the plunger is operated the guide-rod T causes the valve to oscillate, the tongue thereof moving in a transverse slot, W, in the back board, A. The diagonal longitudinally-disposed guide-wire rod T forms a sure guide for the valve, and at the same time its flexibility enables it to readily give, should the valve become clogged or work hard, thus preventing breakage or strain of the latter. By means of the wire rod T the valve also works in an easier and more satisfactory manner, and sufficient play of the wire rod is permitted by the space between it and the sides of slot U, the tongue S of the valve being much smaller than the width of the slot to admit of its lateral movement or play.

X is a guide-funnel extending from the opening F diagonally to an opening, Y, in the back board, A, the opening Y entering a dropping-chamber, Z, at the bottom, the sides A′ A′ of which are provided with guides B′ B′ for the plunger.

To the bottom of the back board, A, and adjoining the dropping-opening of the chamber or cup Z, is hinged or pivoted, as at C′, a right-angular plate, D′, which will give on slight pressure and prevent the grains from becoming wedged and broken by the plunger.

The operation and advantages of my invention will be readily understood. The seed passes through opening D into the opening in the valve, when the oscillation of the latter carries it to the opening M, and it is dropped through funnel X into cup Z and forced out by the downstroke of the plunger.

I am aware of patents to A. Hoag, No. 204,574; Phelps and Dyer, No. 184,422, and S. T. Ferguson, No. 196,078, which collectively show a planter having an oscillating valve working in a diagonal groove in the plunger, and I claim nothing therein shown.

I claim and desire to secure by Letters Patent—

As an improvement in hand corn-planters, the combination, with the plunger having a diagonal guide-wire, T, arranged longitudinally in an oblique slot, U, of the oscillating valve H, pivoted at its outer end, and having a bifurcated tongue, S, of less width than the width of slot U, the arms of which tongue clasp and embrace wire T and are guided thereby, while the flexibility of the wire readily gives to the movement of the valve, as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

SETH WARNER HOAG.

Witnesses:

JUAN ROBINSON,

A. H. W. JACKSON.