(No Model.) 2 Sheets—Sheet 1.

I. A. WESSON.

SEED PLANTER.

No. 345,198. Patented July 6, 1886.

Fig. 1.

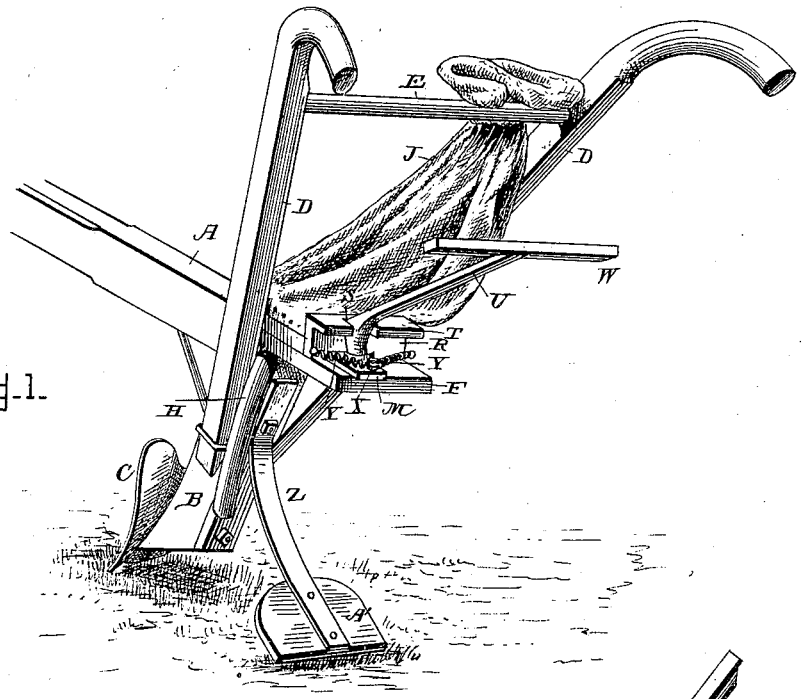
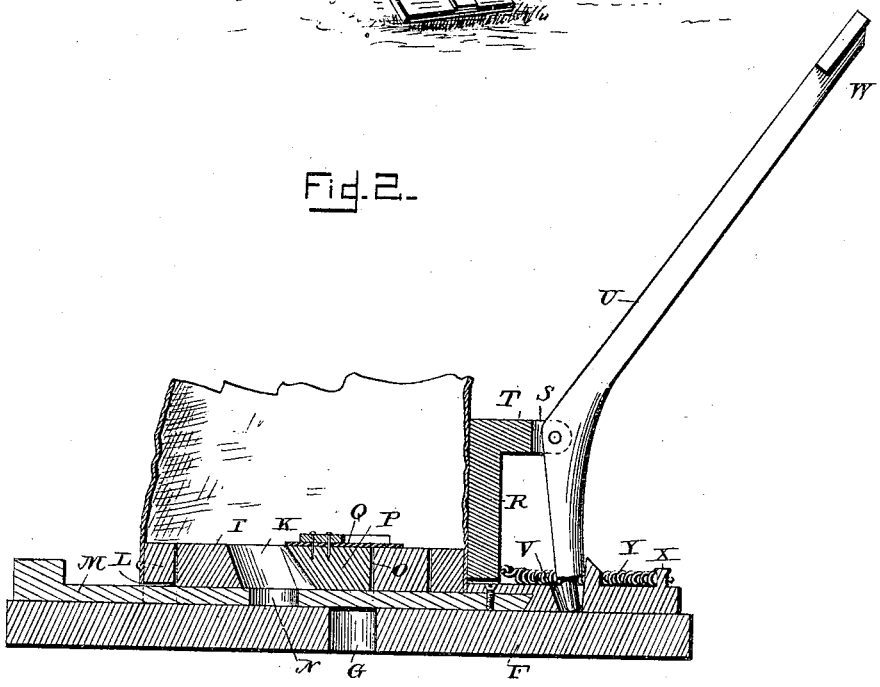


Fig. 2.



WITNESSES
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(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

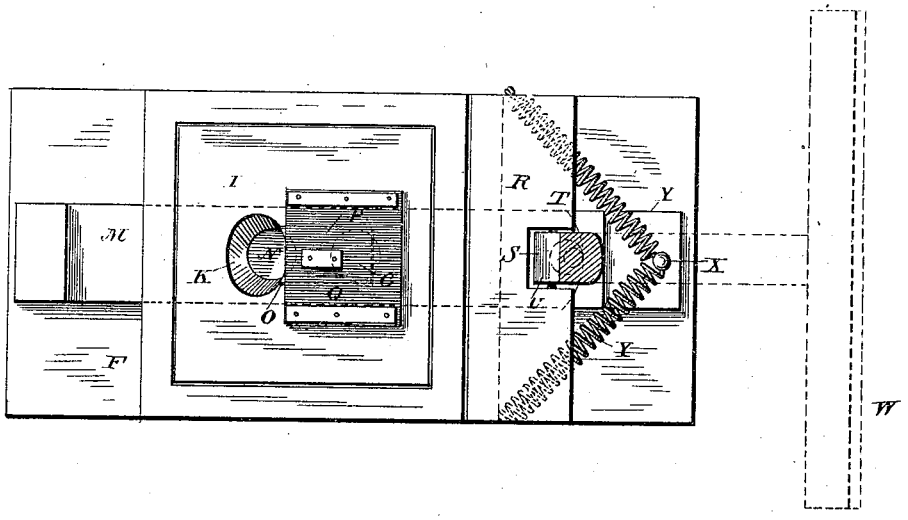
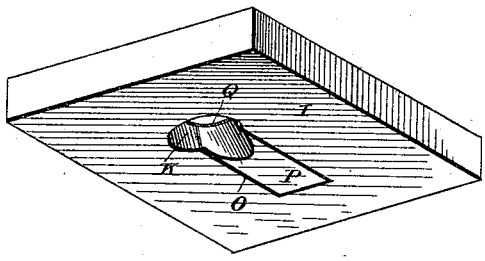


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

ISAAC A. WESSON, OF WINGO, KENTUCKY.

SEED-PLANTER.

SPECIFICATION forming part of Letters Patent No. 345,198, dated July 6, 1886.

Application filed February 8, 1886. Serial No. 191,177. (No model.)

To all whom it may concern:

Be it known that I, ISAAC A. WESSON, a citizen of the United States, and a resident of Wingo, in the county of Graves and State of Kentucky, have invented certain new and useful Improvements in Seed-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, and in which—

Figure 1 is a perspective view, seen from the rear, of a cultivator provided with my corn-planting attachment. Fig. 2 is a longitudinal vertical sectional view of the attachment. Fig. 3 is a top view of the attachment with the bag removed, and Fig. 4 is a perspective detail view of the device for preventing the choking of the seed-cup.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to seed-planting attachments for plows or cultivators; and it consists in the improved construction and combination of parts of a seed-planting attachment adapted to be secured to the upper face of the beam of a cultivator or plow, and which may be operated by the knees of the man following the cultivator or plow striking a slide-operating lever, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the beam, B the standard, C the plow, D D the handles, and E the cross-piece connecting the handles, all of a common cultivator, which may be of any desired construction or material, the cultivator simply serving as a support for the attachment, which may be equally as effective when secured to the beam of a plow, or of any other implement having a beam, standard, and opening plow or shovel.

A plate, F, having a vertical perforation, G, is secured upon the top of the rear end of the beam, and a tube, H, is secured under the perforation in the plate and passes down along the standard, upon the rear side of the same, opening with its lower end immediately to the rear of the opening-shovel. The bottom I of the seed-bag J is secured upon this plate, and has a perforation, K, slightly forward of the perforation in plate F and in line with the same, and the upper end of the seed-bag is preferably tied or otherwise secured to the cross-piece of the handles. The under side of the bottom of the seed-bag has a longitudinal groove, L, in which the seed-slide M reciprocates, which slide has a perforation or seed-cup, N, which registers with the perforation in the bottom of the seed-bag when the slide is in its normal forward position, while it will register with the perforation in the base-plate F when drawn back by its operating-lever. The rear side of the perforation in the bottom of the seed-bag is cut out to form a slot, O, opening into the perforation, and a correspondingly-shaped block, P, fits in the same, and has its under side slightly beveled upon the end pointing toward the perforation.

A piece, Q, of rubber or similar elastic material, is secured to the upper side of the bottom of the seed-bag, and to the upper side of the beveled block, and serves to make the said block yielding; and it will consequently be seen that as the seed-cup in the slide has been filled with seed and is drawn rearward the yielding block, with its beveled end pointing toward the seed-cup, will yield if the cup is too full, and gradually push the superfluous seed back without breaking any seed or impeding the motion of the seed-slide.

A bracket, R, projects upward at the rear edge of the bottom of the seed-bag, and has a notch, S, in the edge of its rearwardly-projecting flange T, in which a lever, U, is pivoted, the lower end of which lever projects into a recess or perforation, V, in the rear portion of the seed-slide, while the upper rearwardly-inclined end of the lever is provided with a cross-head, W, which, if desired, may be suitably cushioned or provided with a spring, and against which the knees of the person walking behind the cultivator may strike, tilting the lever at each step.

The rear end of the seed-slide has an upwardly-projecting lug, X, to which are secured springs Y Y, which are secured at their forward ends to the upright bracket, the said springs serving to force the seed-slide forward; or the seed-slide may be provided with other suitable springs for forcing it forward

after it has been forced rearward by the knee-operated lever. A flat spring, Z, is secured in a downwardly and rearwardly projecting position to the rear side of the standard, and is provided at its rear end with a covering-blade, A′, which will cover the seed dropped into the furrow made by the cultivator-shovel.

It will thus be seen that as the person guiding the cultivator walks forward behind the cultivator his knees will strike the cross-piece upon the slide-operating lever, which will throw the seed-slide rearward and cause it to drop the seed which has passed into the seed-cup, and in this manner the operator may control the distances between the hills planted by increasing or decreasing the length of his steps, each step forward bringing a knee in contact with one end or the other of the cross-piece and tilting the lever. The yielding block will prevent any seed from being crushed, and will prevent any choking of the seed-cup, and consequent stoppage of the seed-slide, and the contents of the seed-cup will be passed through the tube secured under the aperture in the base-plate into the furrow made by the shovel, and thereupon be covered. It will also be seen that the attachment may be removed from the cultivator or plow and allow the said cultivator or plow to be used in its proper capacity, while it may again be attached to the cultivator or plow in a moment of time, making a simple and effective seed-planter, which may be manufactured at a low cost, and which will enable any possessor of a plow or cultivator to possess a drill or planter.

The seed-receptacle being a bag which is supported between the handles of the cultivator or plow, the said bag may be filled to its utmost capacity, and will be capable of holding more seed than the average seed-box in planters of a corresponding size, besides possessing the advantage of allowing the quantity of seed contained in it to be easily ascertained, the bag collapsing as it becomes emptied.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a seed-planting attachment for cultivators, the combination of a base-board having a perforation provided with a downwardly-extending tube, a seed-bag having a block at its bottom formed with a perforation forward of the perforation in the base-plate, and having a longitudinal groove in its under side and a bracket at its rear edge, a seed-slide having a perforation or seed-cup registering with the perforations in the bottom and the base-plate, and having a spring for forcing it forward, and a lever pivoted in a notch in the bracket upon the bottom of the seed-bag, having its lower end projecting into a perforation in the rear end of the seed-slide, and having a cross-piece upon its upper rearwardly-inclined end, as and for the purpose shown and set forth.

2. In combination with the seed-slide having the seed perforation or cup, a seed-receptacle bottom having a perforation formed with a slot at the side, to which the slide moves, opening into the perforation, a block fitting in the said slot and having its inner end beveled upon the under side, and a suitable spring for forcing the block downward, as and for the purpose shown and set forth.

3. In combination with the seed-slide, having the seed perforation or cup, a seed-receptacle bottom having a perforation formed with a slot at the side, to which the slide moves, opening into the perforation, a block fitting in the said slot and having its inner end beveled upon the under side, and a piece of rubber or other elastic material secured to the block and to the edges of the slot, as and for the purpose shown and set forth.

4. In combination with a plow or cultivator, an attachment for planting, consisting of a base-plate secured to the upper side of the beam and having a perforation in it, a tube secured to the under side of the plate at the perforation, passing down along the standard, a seed-bag having a bottom secured to the base-plate, and provided with a perforation forward of the perforation in the base, and having a longitudinal groove in its under side, a seed-slide having a perforation or cup and reciprocating in the groove, a bracket projecting from the base-plate and having a notch in its rearwardly-bent upper edge, a lever fulcrumed in the said notch and having its lower end inserted into a recess or perforation in the rear end of the slide, and having its upper rearwardly-inclined end provided with a cross-piece, and springs secured to the rearmost end of the seed-slide and to the brackets, as and for the purpose shown and set forth.

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

ISAAC A. WESSON.

Witnesses:

I. I. MAGNESS,

G. KIMBERLIN.