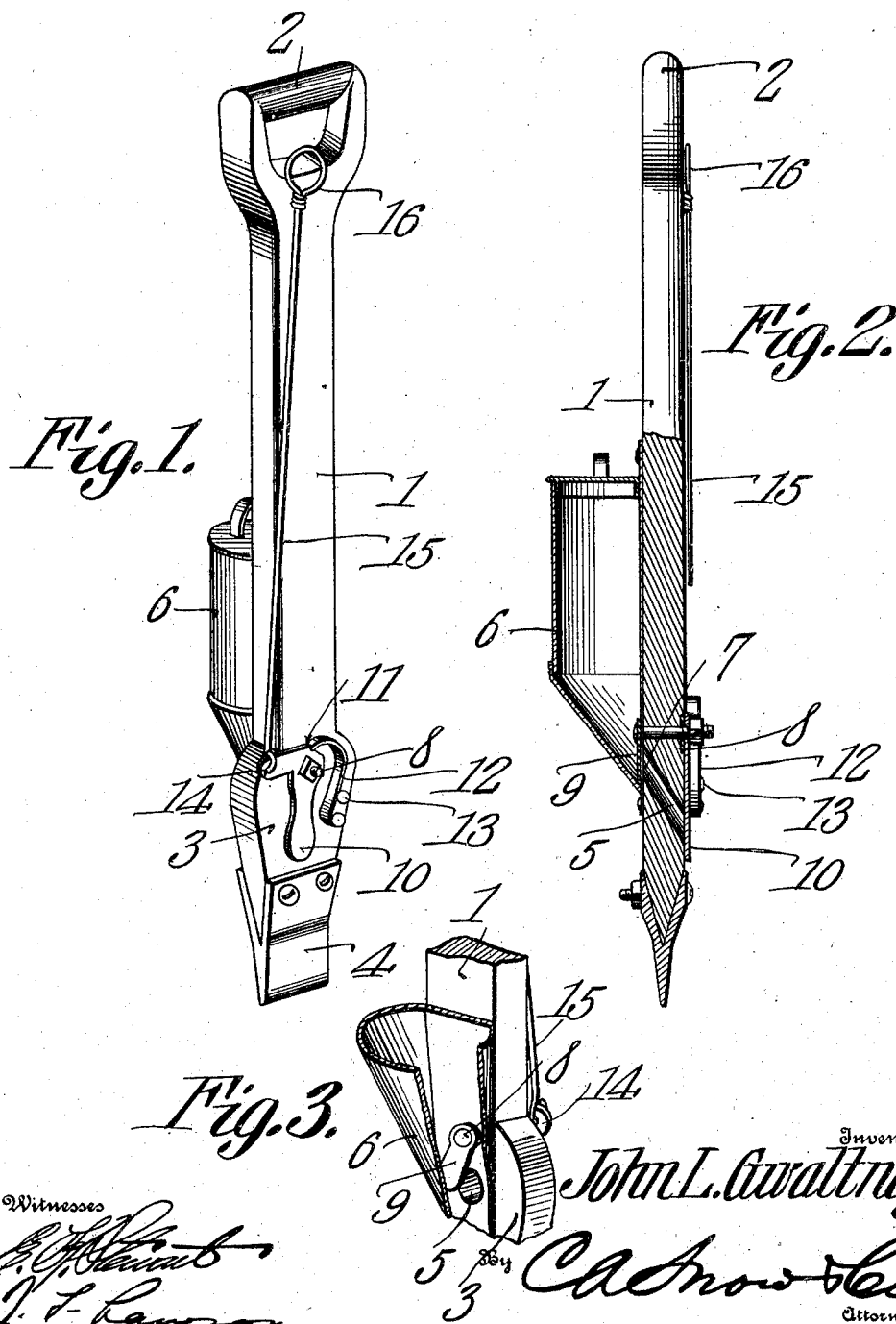


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HAND PLANTER.
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UNITED STATES PATENT OFFICE.

JOHN L. GWALTNEY, OF DOTHAN, ALABAMA.

HAND-PLANTER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN L. GWALTNEY, a citizen of the United States, residing at Dothan, in the county of Houston and State of Alabama, have invented a new and useful Hand-Planter, of which the following is a specification.

This invention has relation to hand planters and it consists in the novel construction and arrangement of its parts as hereinafter shown and described.

The object of the invention is to provide a simple and effective hand planter, especially adapted to be used for planting peas, and with this object in view the planter includes a standard preferably made of wood and having a handle at its upper end and a metallic point or wedge at its lower end. The lower portion of the said standard is enlarged and a slanting perforation passes through the said enlarged portion. A can or receptacle is attached to the lower portion of the standard and is provided with an outlet opening which communicates with the said perforation in the standard. An arbor is journaled in the lower portion of the standard and at its inner end is provided with a cut-off valve adapted to operate over the inner portion of the perforation in the standard, and at its outer end the said arbor is provided with a cut-off valve adapted to operate over the outer end of the said perforation. The outer valve is provided with a laterally disposed upper extremity to which is attached the lower end of an operating rod and a spring is mounted upon the exterior of the standard and bears against the outer valve to hold the same normally closed against the outer end of the perforation through the standard.

In the accompanying drawing,—Figure 1 is a perspective view of the planter. Fig. 2 is an edge elevation of the same, with parts in section. Fig. 3 is a perspective view of an intermediate portion of the planter with parts broken and with parts in section.

The planter includes a standard 1 having at its upper end a handle-grip 2 and at its lower portion an enlarged head 3. A metallic wedge or point 4 is fixed to the lower end of the standard 1, and the said standard at a point within the head 3 is provided with a downwardly inclined perforation 5. A can or hopper 6 is attached to the lower portion of the sides of the standard 1 and is provided with an outlet opening 7, which

communicates with the upper or inner end of the perforation 5 through the standard 1.

An arbor 8 is journaled for operation in the enlarged portion 3 of the standard 1 and is provided at its inner end with a valve 9 adapted to operate over the upper or inner end of the perforation 5. The arbor 8 is provided at its outer end with a valve 10 adapted to operate over the lower or outer end of the perforation 5 in the standard 1. The valve 10 is provided at its upper end with a shoulder 11. A flat spring 12 is secured at one end to the side of the head 3 and at its other end bears against the shoulder 11 and is under tension with a tendency to hold the lower portion of the valve 10 closed against the lower or outer end of the perforation 5. A pin 13 is mounted upon one side of the head 3 and bears against the spring 12 at a point intermediate the ends thereof, and serves as a brace for the said spring. The valve 10 is also provided at its upper end with a laterally disposed extremity or arm 14. An operating rod 15 is pivotally connected at its lower end with the outer extremity of the arm 14 and is provided at its upper end with a finger ring 16 which lies adjacent the handle-grip 2.

In operation seed is placed in the can 6 and through the outlet 7 several of the seeds may enter the perforation 5 provided in the enlarged portion 3 of the standard 1. The wedge 4 is then forced into the soil until the lower end of the perforation 5 is below the surface thereof. The operator may then swing the upper portion of the standard 1 in a lateral direction, using the edge of the wedge 4 as a fulcrum, and at the same time he may draw the rod 15 by inserting his finger in the ring 16, whereby the arbor 8 is turned upon its axis and the valve 9 is caused to seat itself over the upper inner end of the perforation 5 while the valve 10 moves away from the lower end of the said perforation 5. Thus communication between the interior of the can 6 and the said perforation 5 is cut off at the same time the seed previously received within the said perforation 5 is permitted to fall from the lower end of the said perforation and enter the incision made in the soil. The seeds will fall down along the side of the wedge 4 and then the operator may swing the upper portion of the standard 1 in a reverse direction to that in which the standard is originally swung and thus the side

of the wedge 4 will engage the seed and force the same laterally into the soil. The standard 1 is then raised so that the wedge 4 is elevated above the surface of the soil when the operator may close the incision by pressing his foot upon the soil about the same.

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

1. A planter comprising a standard having a handle-grip at its upper end and at its lower portion an enlarged head, a wedge located at the lower end of the standard, said standard being provided with an inclined perforation passing through the enlarged head thereof, a seed can attached to the standard and having an outlet communicating with said perforation, an arbor journaled in the standard and having at its end valves adapted to operate over the inner and outer ends of the said perforations respectively, and means for turning the said arbor upon its axis.

2. A planter comprising a standard having a handle at one end and at its other end portion an enlarged head provided with an inclined perforation, a wedge located at the lower end of the standard, a seed can attached to the standard and having an outlet opening communicating with one end of said perforation, an arbor journaled in the standard and having at its end valves adapted to operate over the inner and outer ends respectively, of the perforation, the laterally disposed arm formed at the upper end of the outer valve, a spring mounted upon

the standard and bearing against the outer valve and adapted to hold the same normally closed against the outlet end of the perforation in the standard, and a rod pivotally attached at its lower end to the laterally disposed arm of the outer valve and terminating at its upper end in the vicinity of the handle at the upper end of the standard.

3. A planter comprising a standard having a handle at its upper end and at its lower portion a perforation, a wedge attached to the lower end of the standard, a seed can mounted upon the standard and having an outlet communicating with the perforation through the standard, an arbor journaled in the standard and having at its inner end a valve adapted to close the inner end of the perforation, said arbor having upon its outer end a valve adapted to close upon the outer end of said perforation, the outer valve normally closing the end of the perforation and the inner valve being normally removed from the inner end of the said perforation, a spring mounted upon the standard and bearing upon said outer valve to hold the same normally closed, and a rod operatively connected with the arbor to turn the same upon its axis.

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

JOHN L. GWALTNEY.

Witnesses:

H. A. POWELL,
M. J. NEWTON.