

(No Model.)

I. MACKEY.
HAND CORN PLANTER.

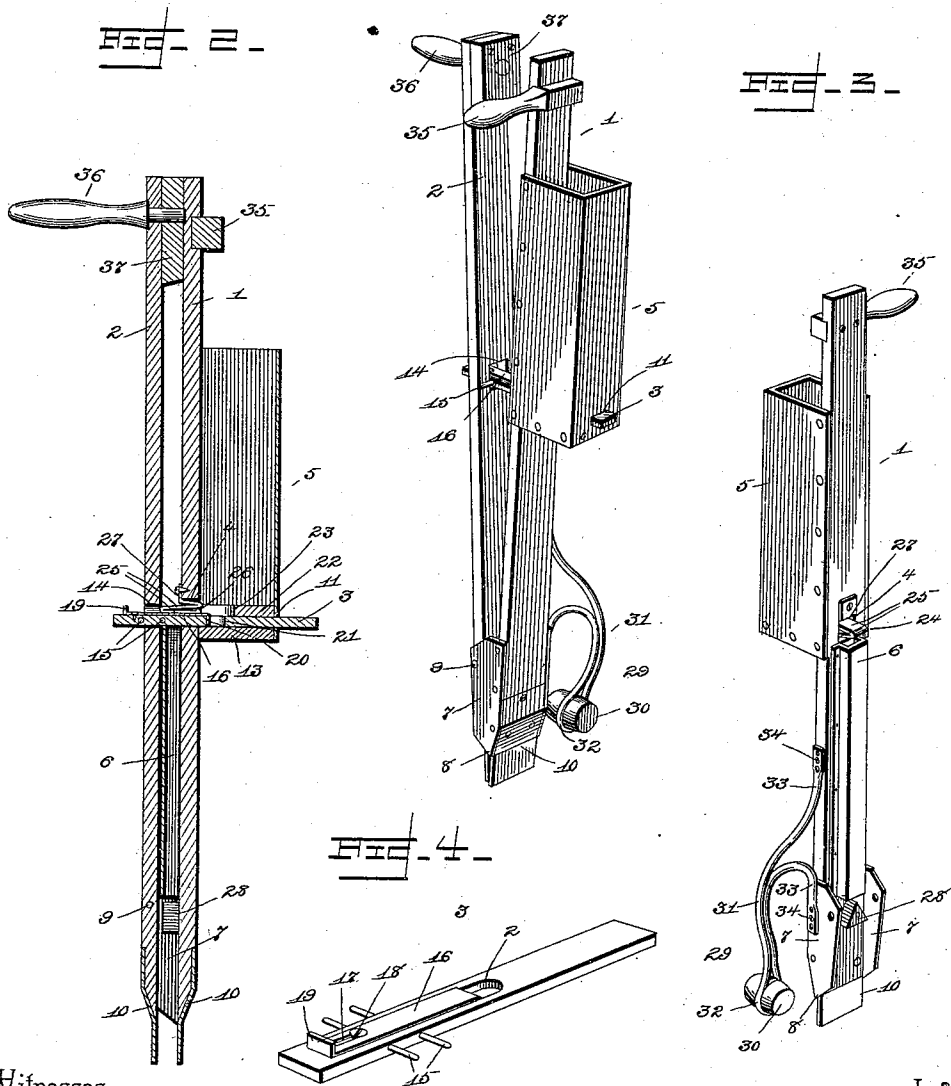
No. 487,849.

Patented Dec. 13, 1892.

FIG. 1.

FIG. 2.

FIG. 3.



Witnesses

E. S. Duval for his Attorneys,
H. B. Riley

Inventor

Isaac Mackey.

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

ISAAC MACKEY, OF HOLLANSBURG, OHIO.

HAND CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 487,849, dated December 13, 1892.

Application filed December 9, 1891. Serial No. 414,495. (No model.)

To all whom it may concern:

Be it known that I, ISAAC MACKEY, a citizen of the United States, residing at Hollansburg, in the county of Darke and State of Ohio, have
5 invented a new and useful Hand Corn-Planter, of which the following is a specification.

The invention relates to improvements in hand corn-planters.

The object of the present invention is to
10 simplify and improve the construction, to regulate the number of grains of corn deposited at each discharge, and to scatter or separate the grains of corn to prevent them all dropping in the same place.

15 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

20 In the drawings, Figure 1 is a perspective view of a hand corn-planter constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view. Fig. 3 is a detail perspective view of one of the sections or
25 members. Fig. 4 is a similar view of the seed-slide.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

30 1 and 2 designate sections or members which are hinged near their lower ends and are adapted to be separated and brought together to operate a seed-slide 3, connected to the section 2 and extending through an opening 4
35 of the section 1 into a hopper 5 to carry corn therefrom and discharge the same into a seed-tube 6, from whence it is deposited in an opening in the ground made by the lower ends of the members. The section 1 has secured to
40 its lower end side plates 7, which have their lower ends 8 pointed and which extend over the side edges of the section 2 and have the same pivoted between them at 9. The lower ends of the members 1 and 2 are beveled, to
45 conform when closed to the pointed ends 8 of the side plates, and have secured to their outer faces blades 10, which conform to the members and extend downward from the same and are adapted when closed to be inserted
50 in the ground and to be spread to make an opening to receive the grains of corn discharged.

The hopper 5 is secured to and carried by the section 1 and is provided in its outer side with an opening 11, arranged opposite the
55 opening 4 to provide a way for the seed-slide 3, which is arranged on the bottom 13 of the hopper, and which is secured in an opening 14 of the member 2 by transverse pins 15 passing through the slide and arranged on oppo-
60 site sides of the member 2.

Arranged on the upper face of the seed-slide 3 is an adjustable plate 16, which is provided intermediate its ends with a slot 17, and
65 is secured to the seed-slide by a screw 18, arranged in the slot, whereby the plate may be adjusted longitudinally on the seed-slide. The outer end 19 of the plate 16 is bent upward to form a finger-piece, and the inner
70 end of the plate 16 is bent downward to form a lip 20, and the latter is arranged in a seed-opening 21 of the slide 3. The seed-opening 21 has one end curved and its other end straight, against which is arranged the lip 20,
75 and the plate 16 is adapted to be adjusted to decrease the size of the seed-opening. A horizontal partition or board 22 is arranged above the seed-slide and is provided at its inner
80 edge with a recess 23, which is arranged above the opening of the seed-slide when the members 1 and 2 are together, but which is slightly larger than the opening of the seed-slide. In separating the members the seed-slide is moved outward, and its opening, which contains the grains of corn, is carried through
85 the opening 4 to discharge the grains into the seed-tube 6. A spring 24 is arranged in the opening 4 above the seed-slide to prevent an excess of seed being carried by the seed-slide and being delivered into the seed-tube; and
90 it consists of a single piece of spring metal doubled on itself to form the portions 25 and extended upward at the inner end of the portions 25 to form a shoulder 26, which is a continuation of the lower portion 25, and the
95 upper portion 25 is provided with an L-shaped extension 27, which is secured to the member 1. The grains of corn after being delivered into the seed-tube are discharged at the lower end of the same, where they are separated by
100 a seed-scatterer 28, which consists of a triangular block having an apex arranged at the middle of the lower end of the seed-tube and with inclined sides diverging therefrom to di-

rect half of the grains of corn to one side and the other half to the other side of the members. By this arrangement one half of the grains of corn is arranged at one end of the opening made by the planter and the other half is deposited at the other end of the opening, whereby when it is desired to thin out the corn the roots will not be intertwined and the whole hill of corn will not be pulled up in attempting to pull one of the stalks.

In order to prevent the planter sinking too far in the ground and planting the corn too deep, an adjustable stop 29 is provided. The stop consists of a cylindrical block 30 and a curved shank 31, constructed of a single piece of metal, which is bent to form an eye 32, and which has its ends 33 diverging and provided with a series of openings and secured to the member 1 by screws 34, arranged in the openings, and by arranging the screws 34 in other openings of the end of the shank the stop may be adjusted on the member to regulate the depth of the planting. The upper ends of the members are provided with handles 35 and 36, arranged at right angles to each other, and the member 2 is provided at its upper

end with a block 37, arranged on the inner face of the member to separate the members slightly when they are closed to prevent injury to the seed-tube.

It will be seen that the planter may be adjusted to regulate the depth of the planting, that the seeds are scattered to prevent the roots of the plants intertwining, and that the number of seed discharged may be regulated.

What I claim is—

The combination of a hand-planter and an adjustable stop to regulate the depth of the planting, comprising a block and a shank receiving the block and having divergent arms, each provided at its end with a series of perforations, and screws passing through the perforations and securing the shank to the edge of one of the hinged sections of the planter, substantially as described.

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

ISAAC MACKEY.

Witnesses:

HUGH DAVIS,
WARREN MITCHELL.