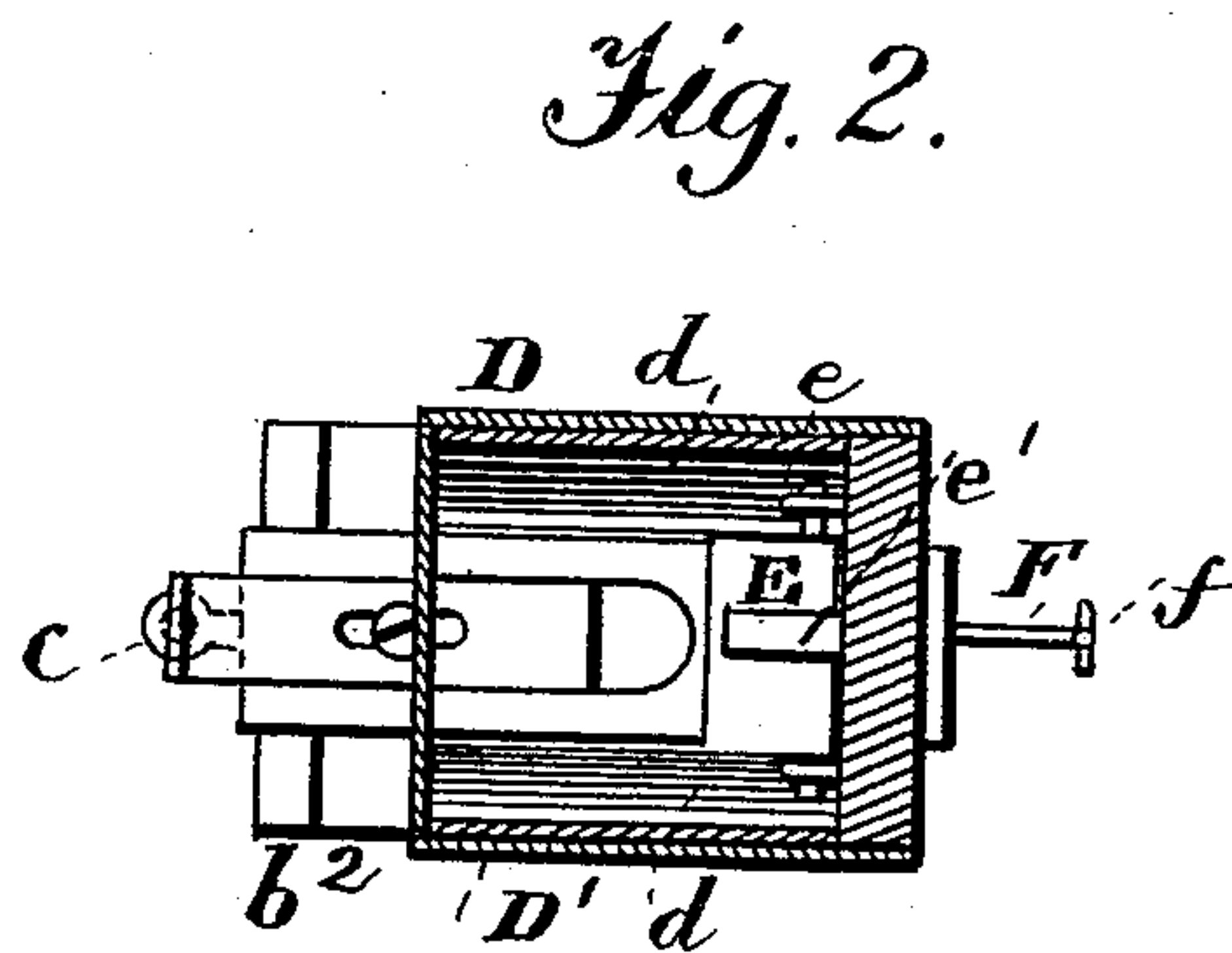
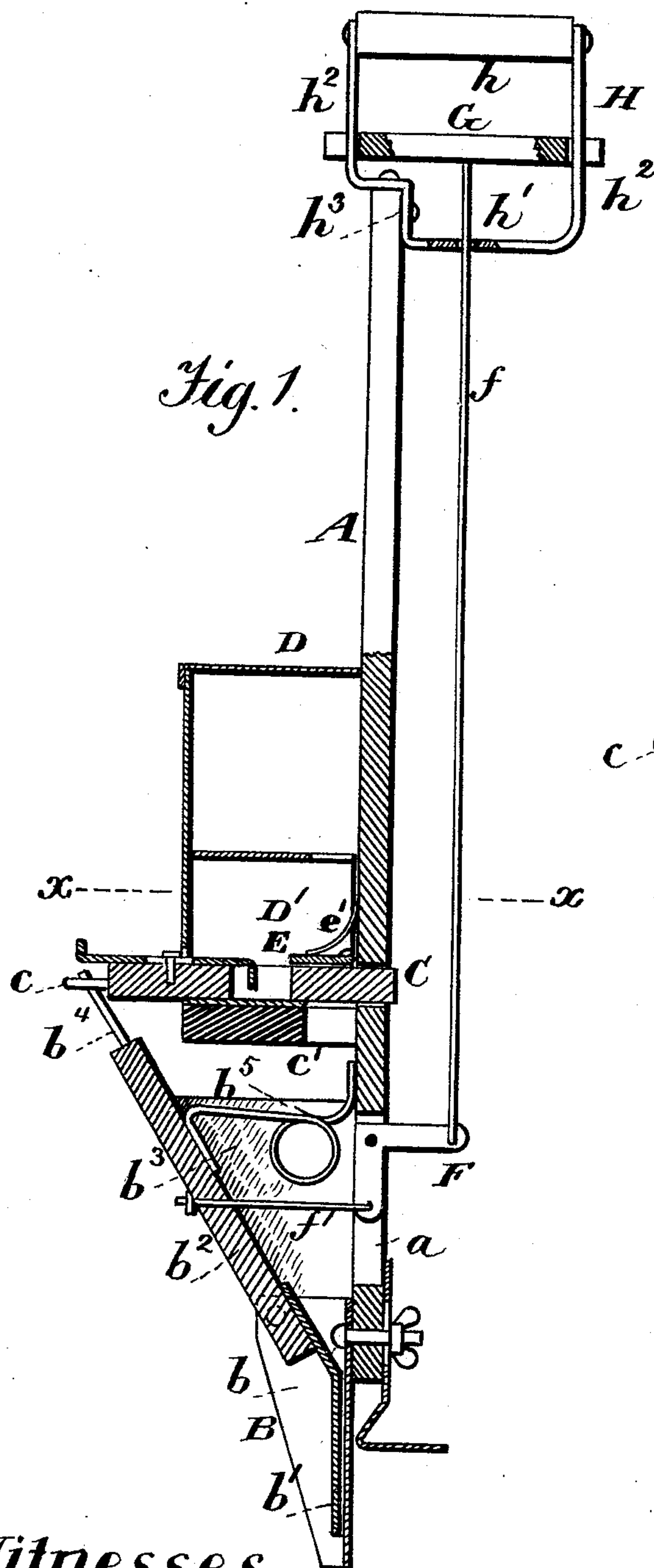


(No Model.)

C. O. GARMAN.
HAND PLANTER.

No. 500,198.

Patented June 27, 1893.



Witnesses.
A. Rupert.
H. A. Daniels

Inventor.
Charles O. Garman
Per
Thomas P. Simpson
att'y

UNITED STATES PATENT OFFICE.

CHARLES O. GARMAN, OF BRISTOL, INDIANA.

HAND-PLANTER.

SPECIFICATION forming part of Letters Patent No. 500,198, dated June 27, 1893.

Application filed February 20, 1893. Serial No. 463,031. (No model.)

To all whom it may concern:

Be it known that I, CHARLES O. GARMAN, a citizen of the United States, residing at Bristol, in the county of Elkhart and State of Indiana, have invented certain new and useful Improvements in Hand-Planters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The special object of the invention is to make a hand-planter for corn or other seed which may be conveniently used for planting in hills the number of grains desired.

Figure 1 of the drawings is a vertical sectional view, and Fig. 2 a horizontal section on dotted line xx of Fig. 1.

In the drawings, A represents the board or plate which forms the support to which the other parts are attached and B the dibbler with which the hole is made and which drops the grains into it. The latter is made of a metallic trough b and a plate b' which moves between its flanges to open or close the outlet for the grain. The plate b' is fastened at its upper end on the inside of a board b^2 which is pivoted at its lower end between the upper ends of the flanges of the trough b , the trough being made fast to the support A and the board b^2 being connected therewith by the flexible sides $b^3 b^3$. On top of plate b^2 , at the middle thereof is fixed a wire b^4 which passes up through an eye c of a seed-slide C which is provided with an adjustable grain cup which registers with a hole c' in the bottom of the hopper D.

$d d$ are side-pieces in the bottom of the hopper, beveled toward the top of the seed-slide so that the grains will tend to find their way down upon the seed-slide.

E is the cut off pivoted on a bolt e secured

to the support A and provided with a spring e' to hold to the seed-slide. Above the seed-slide is a false bottom D' with a hole through which the grain may reach the seed-slide apartment so that there will not be sufficient pressure of grain upon the seed-slide to make it clog and work badly. b^5 is a spring to hold the board b^2 in position.

F is an elbow lever pivoted at its angle in slot a of the support A, the end of one arm being connected with the inside of the pivoted board b^2 and the other with a cross-slide G by the respective rods or wires $f f'$.

H is the handle, made of metal, fastened on and at a right angle to the support A, and having a wooden grip h . The wire or small rod f' passes through a guide-hole h' in the bottom of the handle, while the cross-slide G is open-slotted at each end so as to work freely up and down on the handle sides $h^2 h^2$.

In order to make the handle sit firmly on the support and not be liable to twist off, I make a re-entrant angle h^3 which allows it to hug the support on the top and at one side.

What I claim as new, and desire to protect by Letters Patent, is—

1. The combination with the support A, of the handle H arranged at right angles to said support and the slide G connected with the dropping mechanism by a wire or rod f passing through the bottom of handle as shown and described.

2. The combination of the slide G on the handle, the elbow-lever F, the pivoted board b^2 having rod or wire b^4 at the top and the dropper-slide C having an eye c on the outer end as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES O. GARMAN.

Witnesses:

JONATHAN F. GARMAN,
GEORGE C. GARMAN.