

(No Model.)

F. E. CULVER.  
HAND CORN AND SEED PLANTER.

No. 296,733.

Patented Apr. 15, 1884.

Fig. 1.

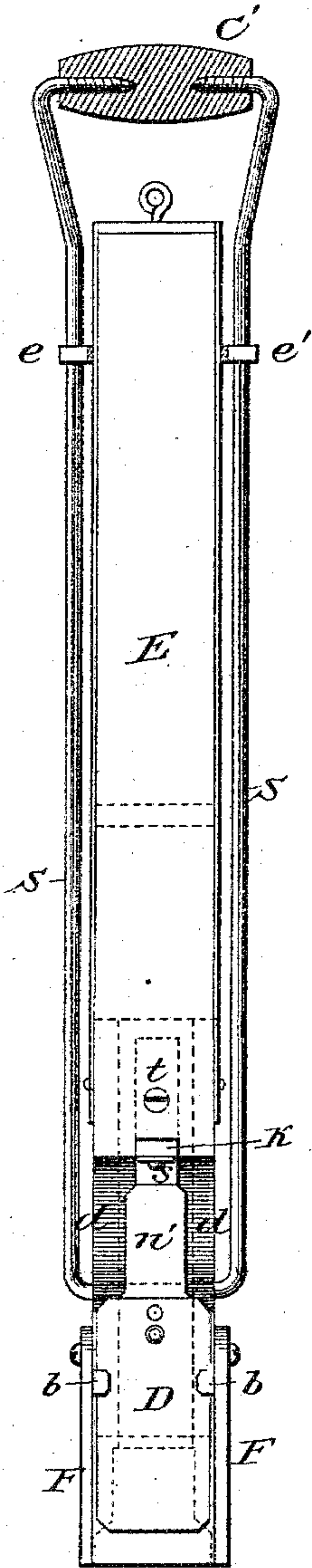


Fig. 2.

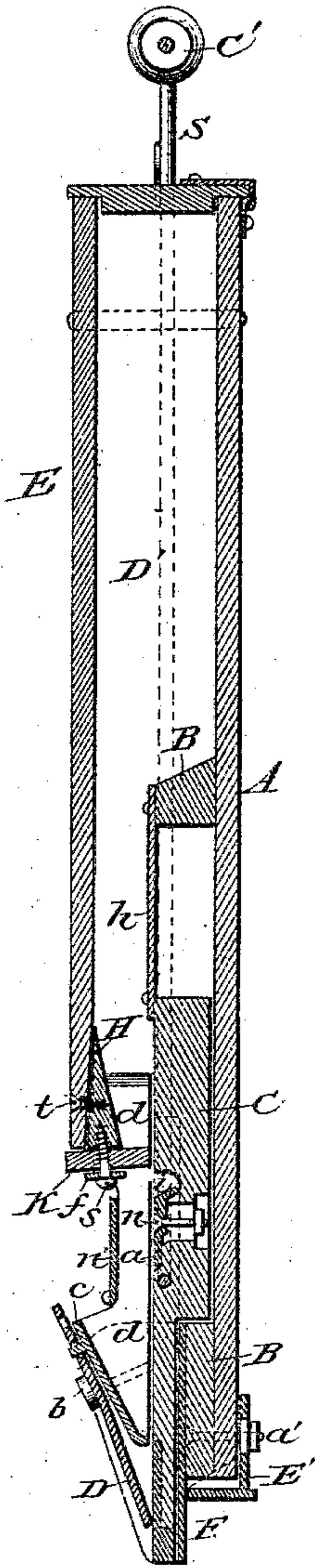


Fig. 3.

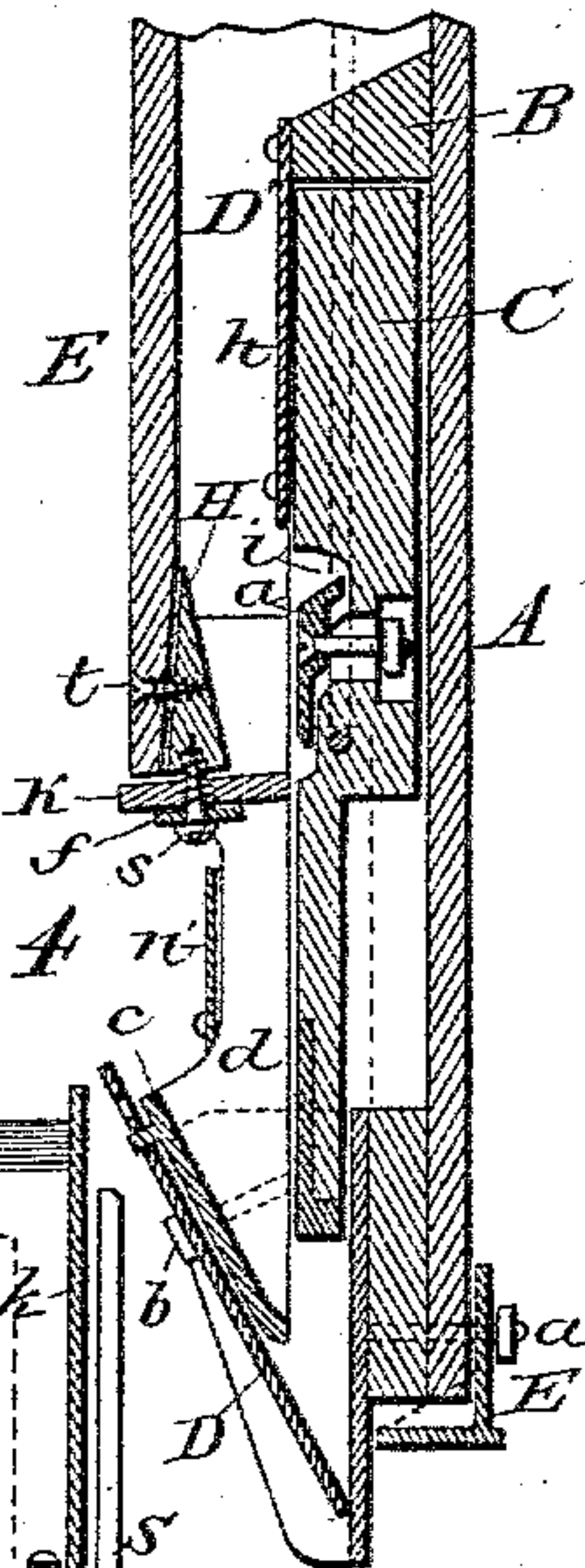


Fig. 4.

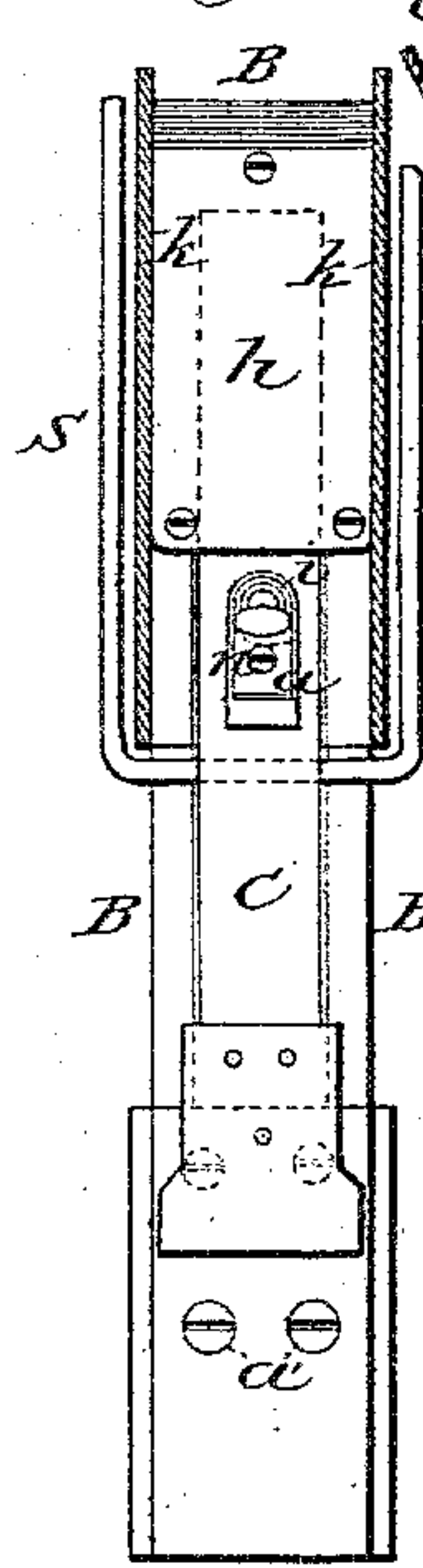


Fig. 5.

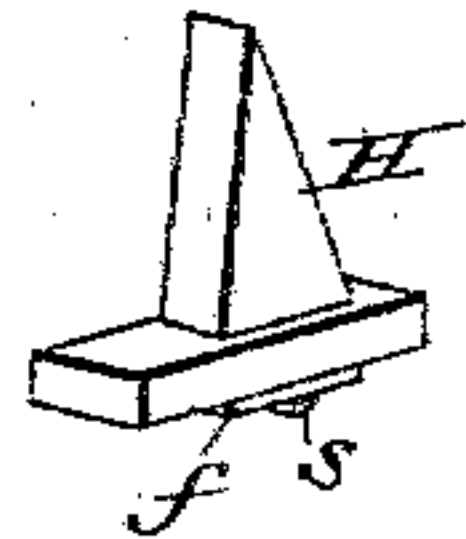
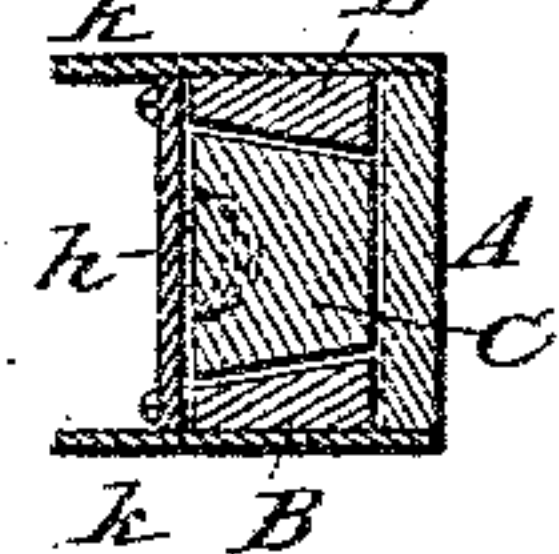


Fig. 6.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

FRANK EUGENE CULVER, OF MECKLENBURG, NEW YORK.

## HAND CORN AND SEED PLANTER.

SPECIFICATION forming part of Letters Patent No. 296,733, dated April 15, 1884.

Application filed September 7, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK EUGENE CULVER, of Mecklenburg, in the county of Schuyler and State of New York, have invented a new and valuable Improvement in Hand Corn and Seed Planters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of an exterior view of my improved hand-planter. Figs. 2 and 3 are lateral sectional views thereof, showing the working parts in different positions; and Figs. 4, 5, and 6 are details of the same.

Similar letters refer to similar parts in each figure.

This invention has relation to improvements in hand corn and seed planters; and the nature of the invention consists in the combination of parts, as will be hereinafter more fully set forth.

In the annexed drawings, the letter A designates the main board of my improved hand-planter, to which is secured a radially-mortised socket, B, Fig. 6, and to the inner side of this is secured a metallic plate, *h*. These together form a tetrad cavity, in which the tenon portion of a plunger, C, fits and reciprocates.

S indicates a reciprocating connection-rod, which is passed through the plunger C to its center and bent upward, one end on each side of a seed-box, D', which is formed by securing sheet-metal sides *k* to the main board A and the front board, E. The U-shaped rod S thus formed works in the eyelet-guides *e e*, and to the ends of the rod is attached a handle, C'.

In the plunger C a seed-cup, *i*, is formed, with an adjusting-slide, *a*, that is held in place by the bolt *n*.

To the lower parts of the socket B and the main board A a metallic point, F, bent up

at each side, is secured by bolts *a'*, which also hold in place an adjusting depth-gage, E'.

The guide-blocks *d d* and the cut-off K form the bottom to the seed-box D', and to these guide-blocks is secured a metallic plate, *c*, and below this is arranged a metallic spring, D.

H indicates a reversible cut-off block, to which is secured the rubber K by screws, *f* being a plate placed under the rubber.

Above the plate *c*, and between the guides *d d*, is an open chamber, into which the seed falls in view of the operator after it is drawn from the seed-box in the cup *i*. When the planter is lifted from the ground to advance to the next hill, the plunger, through the medium of the link S, is drawn up, the seed-cup *i* fills again, and the charge previously deposited on the plate *c* falls upon the spring D in the lower part of the chamber, from whence it is deposited in the soil by forcing the plunger down again.

The plate *u*, attached to the guide-block *d*, prevents the seed from falling outside the chamber, and it may be turned to one side, in order to adjust the seed-cup *i* to drop the desired amount of seed.

I am aware that, separately considered, in hand-planters vertical plungers are not new, I therefore do not claim this, broadly; but

What I do claim, and desire to secure by Letters Patent, is—

The combination of the socket B, having a mortise with inclined sides through it, the plunger C, having in its upper portion a tenon, to fit and reciprocate in the mortise, main board A, inclined wedge H, plate *h*, eyelet-guides *e e*, and the metallic link S, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

FRANK EUGENE CULVER.

Witnesses:

HOWARD L. TREMAN,  
FRED W. CREQUE.