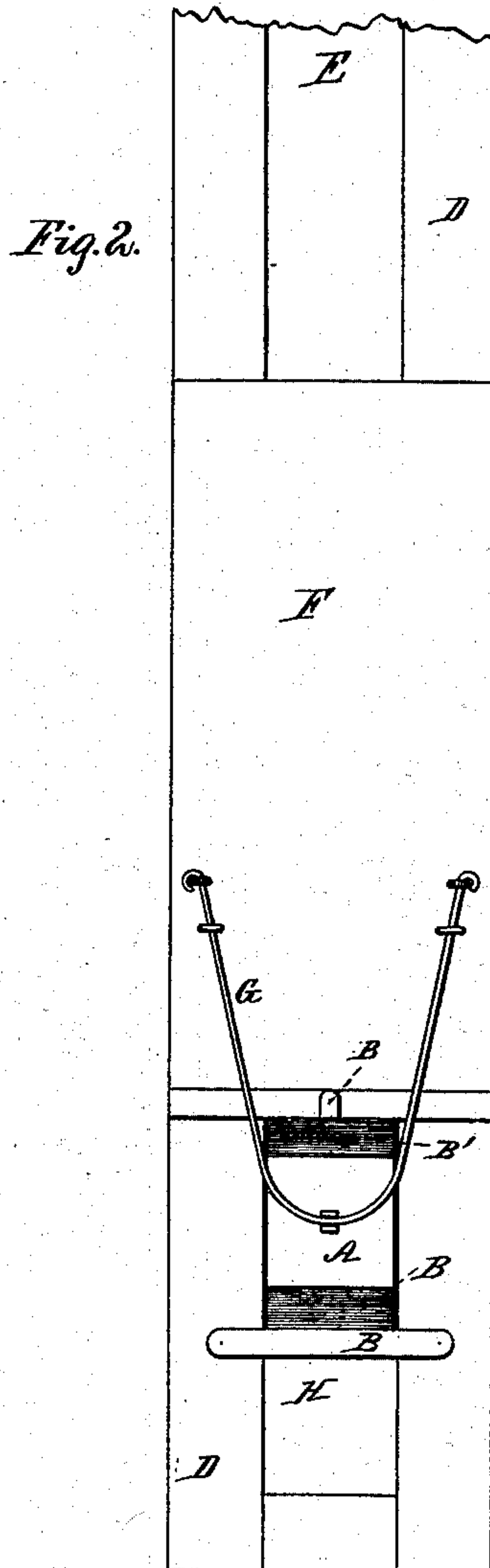
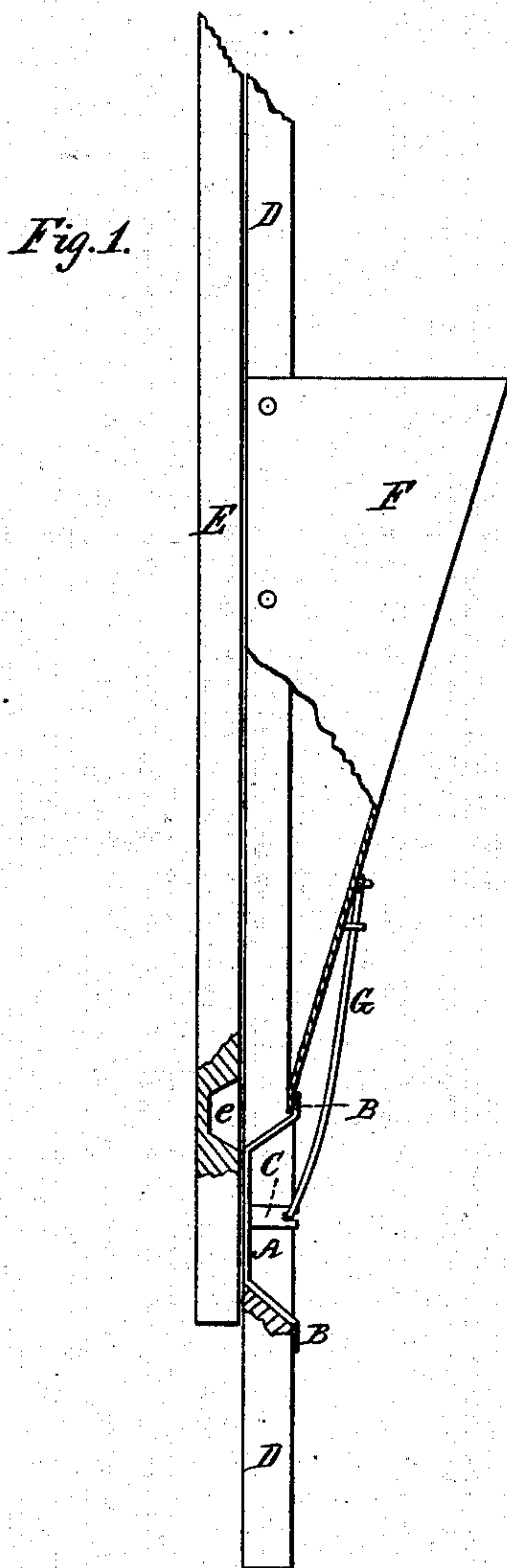


(No Model.)

S. P. BABCOCK.
HAND PLANTER CUT-OFF.

No. 276,995.

Patented May 8, 1883.



Witnesses:
W. C. Jindiston
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Inventor:
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His Attorney.

UNITED STATES PATENT OFFICE.

SYLVESTER P. BABCOCK, OF ADRIAN, MICHIGAN.

HAND-PLANTER CUT-OFF.

SPECIFICATION forming part of Letters Patent No. 276,995, dated May 8, 1883.

Application filed June 17, 1882. (No model.)

To all whom it may concern:

Be it known that I, SYLVESTER P. BABCOCK, of Adrian city, State of Michigan, have invented a Rigid Cut-Off for Hand-Planters, of which the following is a specification.

The object of my invention is to make a strong, uniform, and durable cut-off to take the place of rubber or brush and such perishable ones, and while obtaining their yielding and practical working qualities I obtain one almost indestructible by the work designed for.

Figure 1 is a side elevation of a planter, partly in section, showing arrangement of cut-off; Fig. 2, a rear elevation.

D is the standard of the planter; E, the plunger; e, the seed-cup; F, the hopper; G, the spring which presses upon the notched post C and holds the cut-off in position. H is the slot in the standard in which the cut-off is placed. A is the cut-off proper, made rigid and preferably of cast metal. B' B' are inclined ends of the cut-off. B B are flanges which rest on suitable bearings and hold the cut-off in position, as shown.

Centrally on the body of the cut-off is a notched post, C. Around or on this post a spring-pressure is applied to hold the cut-off firmly to the bearings upon which it rests. In using the cut-off the main part or standard of a planter is made with a suitable recess to admit the cut-off, and with a support at each end, upon which the flanges B B of the cut-off are placed. Around the post C or on its top a spring is applied, and so fastened to the standard of the planter that it will press firmly and hold the cut-off securely in its place. One end of the cut-off underneath the flange is exposed to the corn in the hopper of the planter. As the measuring-cup of the planter passes above the cut-off into the corn it readily fills. Then, as it is forced down past the cut-off again, all corn not beyond the base-surface of the cut-off is held back, while the cup and its contents are

carried past the cut-off, where the corn drops freely out from the cup. The spring-pressure centrally applied to the cut-off allows either end to raise independent of the other end, and also allows the whole body of the cut-off to rise. It is a well-known fact that sometimes one or more kernels of corn may be so poised over the edge of the measuring-cup or pressed against or over each other that they do not readily separate, and unless the cut-off yields they either obstruct the working of the planter or crush the kernels. The peculiar place of applying the spring-pressure to this cut-off allows the end to rise and permit the wedged grain to pass along with the cup. Should they continue to wedge, the central portion of the cut-off also rises, and after they pass the center the other end rises, and at the same time the first end drops back to its original position.

The spring to hold this cut-off in its proper place may be made of any suitable material, either of sheet metal with proper fastenings—such as screws—or of coiled wire placed around the post C, with a perforated plate dropped over the post and spring and fastened to the standard outside of the action of the cut-off, or with a wire spring running either way parallel to the flanges and held by hooks or staples to the standard of the planter, as may be desired. The spring and its fastening must of necessity not only hold the cut-off down on the bearings with a certain and constant pressure, but at the same time must hold the cut-off from moving laterally.

I claim—

A rigid metal cut-off having the end portion, B', flanges B, and standard C, in combination with a spring bearing upon said standard, substantially as shown and described.

SYLVESTER P. BABCOCK.

Witnesses:

WM. F. CORNELL,
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