

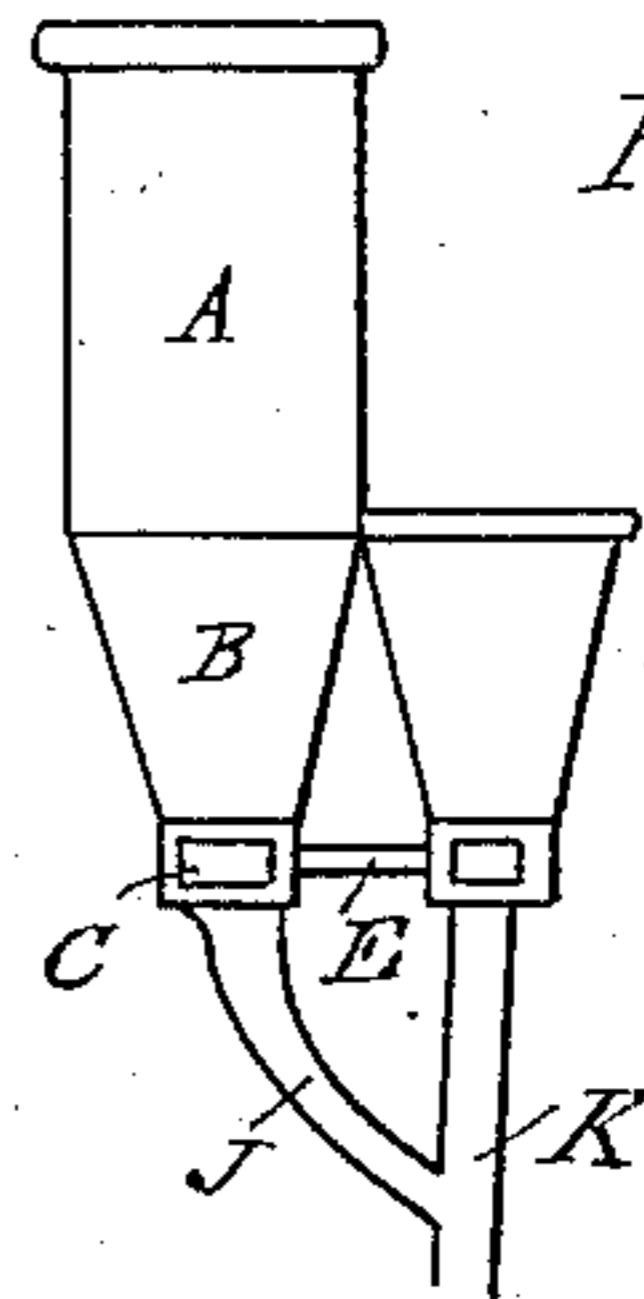
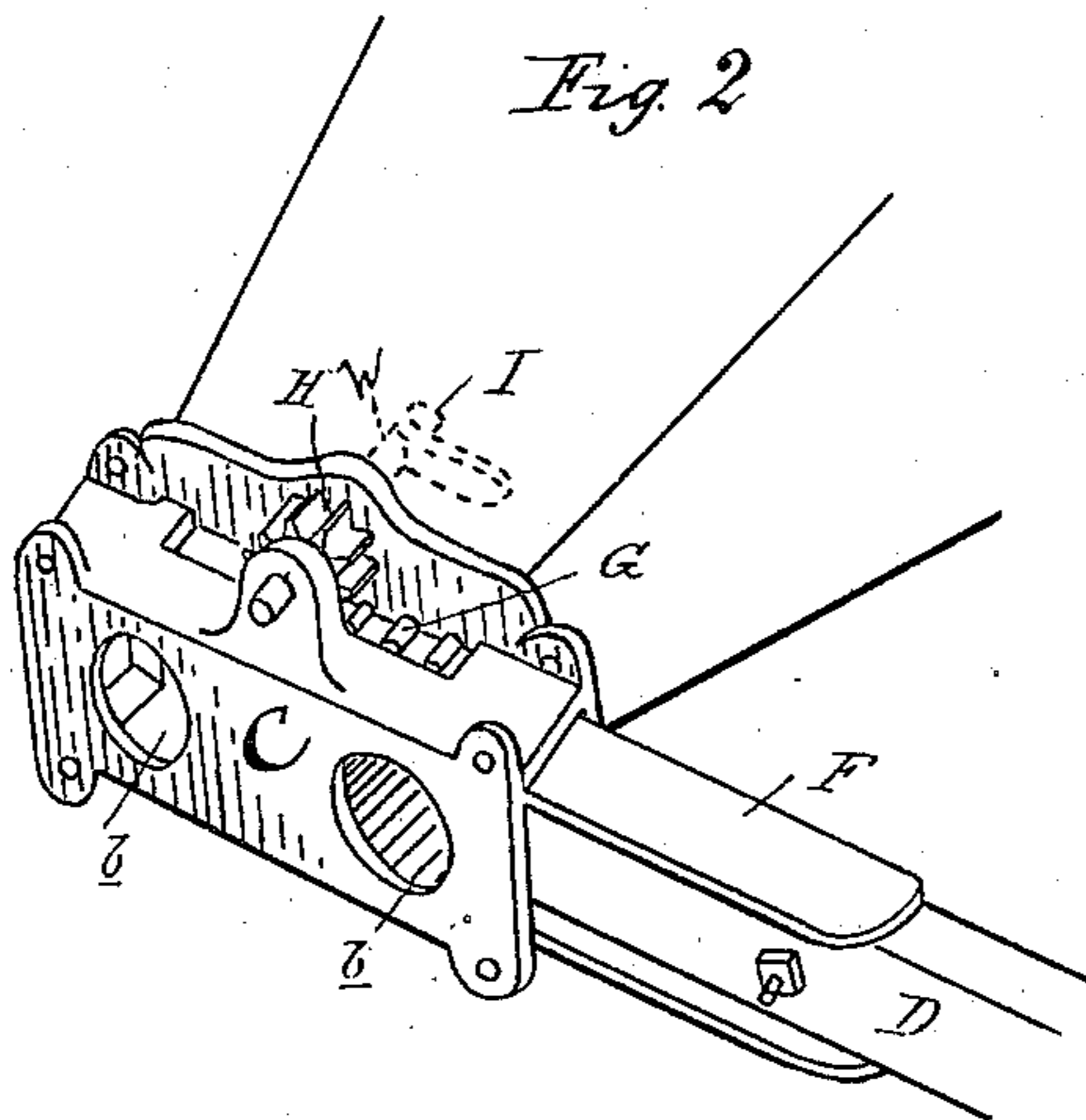
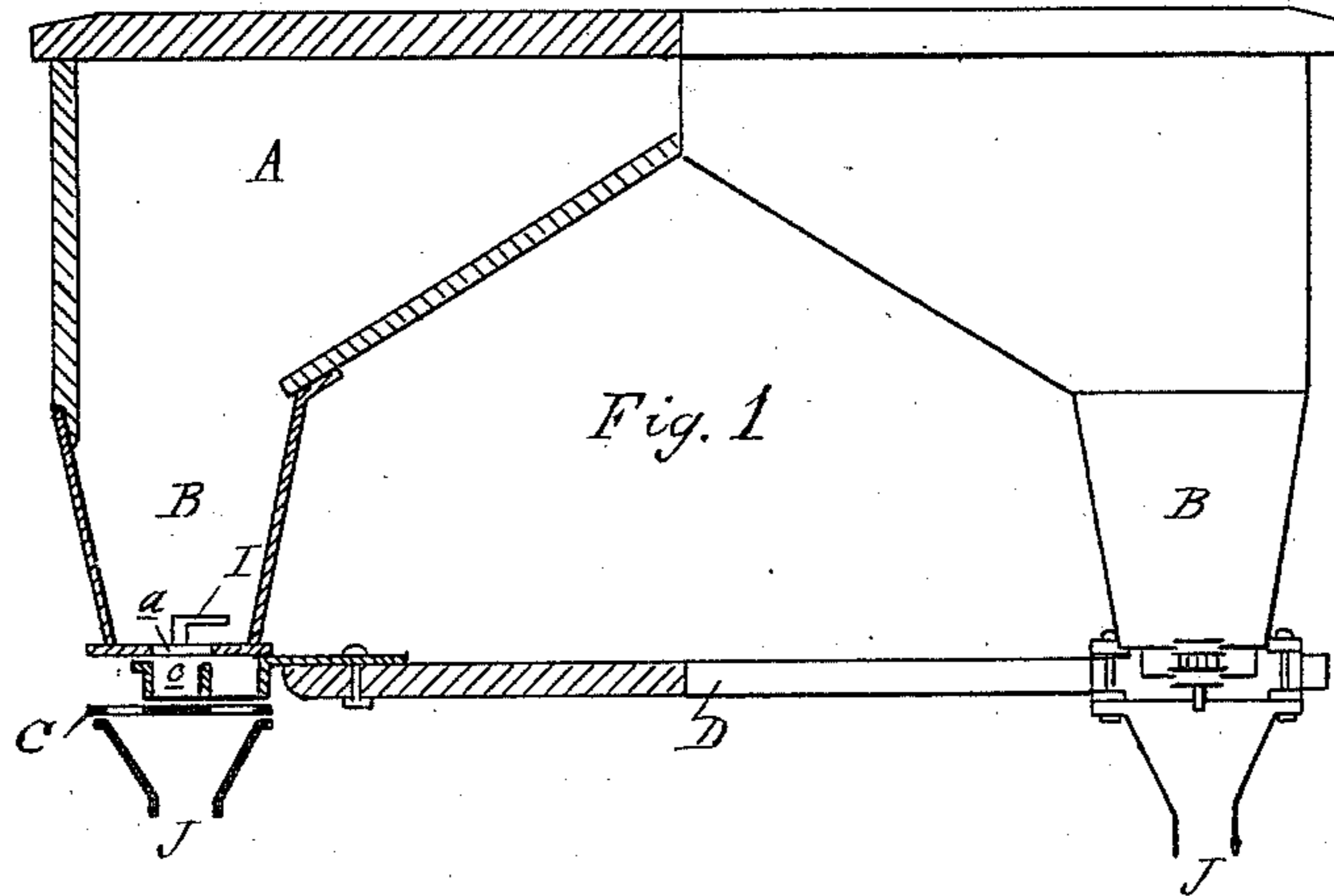
(No Model.)

G. S. PAINE.

ATTACHMENT FOR CORN PLANTERS.

No. 300,117.

Patented June 10, 1884.



Attest
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By *Thos. A. Sprague* Atty

UNITED STATES PATENT OFFICE.

GEORGE S. PAINE, OF WYANDOTTE, MICHIGAN.

ATTACHMENT FOR CORN-PLANTERS.

SPECIFICATION forming part of Letters Patent No. 300,117, dated June 10, 1884.

Application filed January 16, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. PAINE, of Wyandotte, in the county of Wayne and State of Michigan, have invented new and useful
5 Improvements in Attachments for Corn-Planters; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in the construction of attachments for corn-planters; and the invention consists in the peculiar construction, arrangement, and combinations of the parts
15 whereby a device is produced for depositing fertilizing material in the hill with the corn before the same is covered by the follower, all as more fully hereinafter set forth.

Figure 1 is a vertical section of my improved attachment. Fig. 2 is a bottom perspective of one end. Fig. 3 is an end elevation showing my device as connected to the hopper of a corn-planter.

In the accompanying drawings, which form a part of this specification, A represents a suitable hopper, terminating at each end in the delivery-hoppers B, in the bottom of each of which is formed an opening, *a*, which communicates with a hollow casting, C, secured
30 below, in the bottom of which are formed two openings, *b*.

D represents a reciprocating feed-bar, designed to be operated by and simultaneously with the feed-bar of the corn-planter, and to which it is secured by a bar or bars, E, Fig. 3. At each end of this bar I secure a casting, forming a drop-slide, F, which has a reciprocating movement in the hollow castings
40 C, and has formed in it an opening, *c*, Fig. 1, which in the reciprocation of the bar comes coincident with one of the openings *b* alternately.

Upon one edge of the dropping-slides F is
45 formed a rack-bar, G, which engages with a

pinion, H, the shafts *h* of which are journaled in the sides of the casting C, and extend upward into the hoppers B, and have secured upon them an agitator-arm, I.

Below each of the hoppers B is secured a delivery-spout, J, which communicates with the delivery-spout K of the planter.

In practice the reciprocating bar D is actuated by the dropping-bar of the corn-planter and simultaneous therewith, so that as the hole of the dropping-slides come coincident with one of the holes *b* a quantity of the fertilizer contained in the hoppers B is conveyed through the spout J to the spout K of the planter, and deposited in the hill with the corn dropped from the planter, and the reciprocation of the dropping-slides causes the pinions H to rotate and carry with them the agitators I, which prevents the clogging of the fertilizing material in the bottom of the
65 hopper.

What I claim as my invention is—

1. In combination with the hoppers A B, an agitator, as *h* I, journaled to said hopper, and carrying a pinion, H, operated by the motion of the grain-slide through the medium of a rack attached thereto, and working through a slot in the casting supporting said slide, substantially as specified.

2. The combination, with the hopper A B, and hollow casting C, and the shaft *h*, journaled in said casting, and carrying agitator-arm I and pinion H, of the reciprocating bar D, carrying rack G, meshing with said pinion, substantially as and for the purpose specified.

3. In a corn-planter attachment, the combination of the hopper A B, hollow casting C, bar D, carrying slides F and rack G, and reciprocating in said hollow casting, pinion H, agitator I, and spouts J, substantially as described.

GEORGE S. PAINE.

Witnesses:

H. S. SPRAGUE,
E. SCULLY.