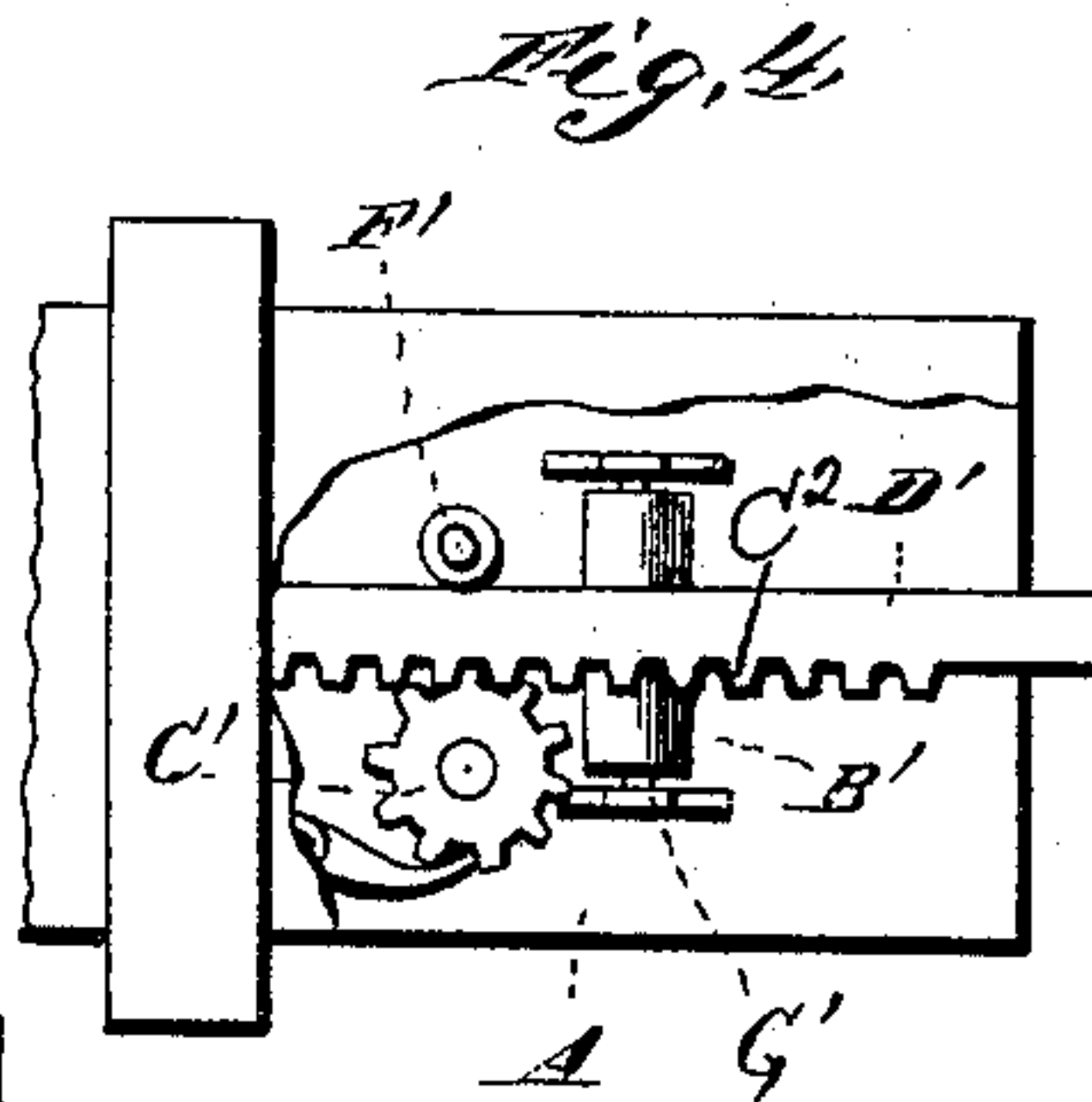
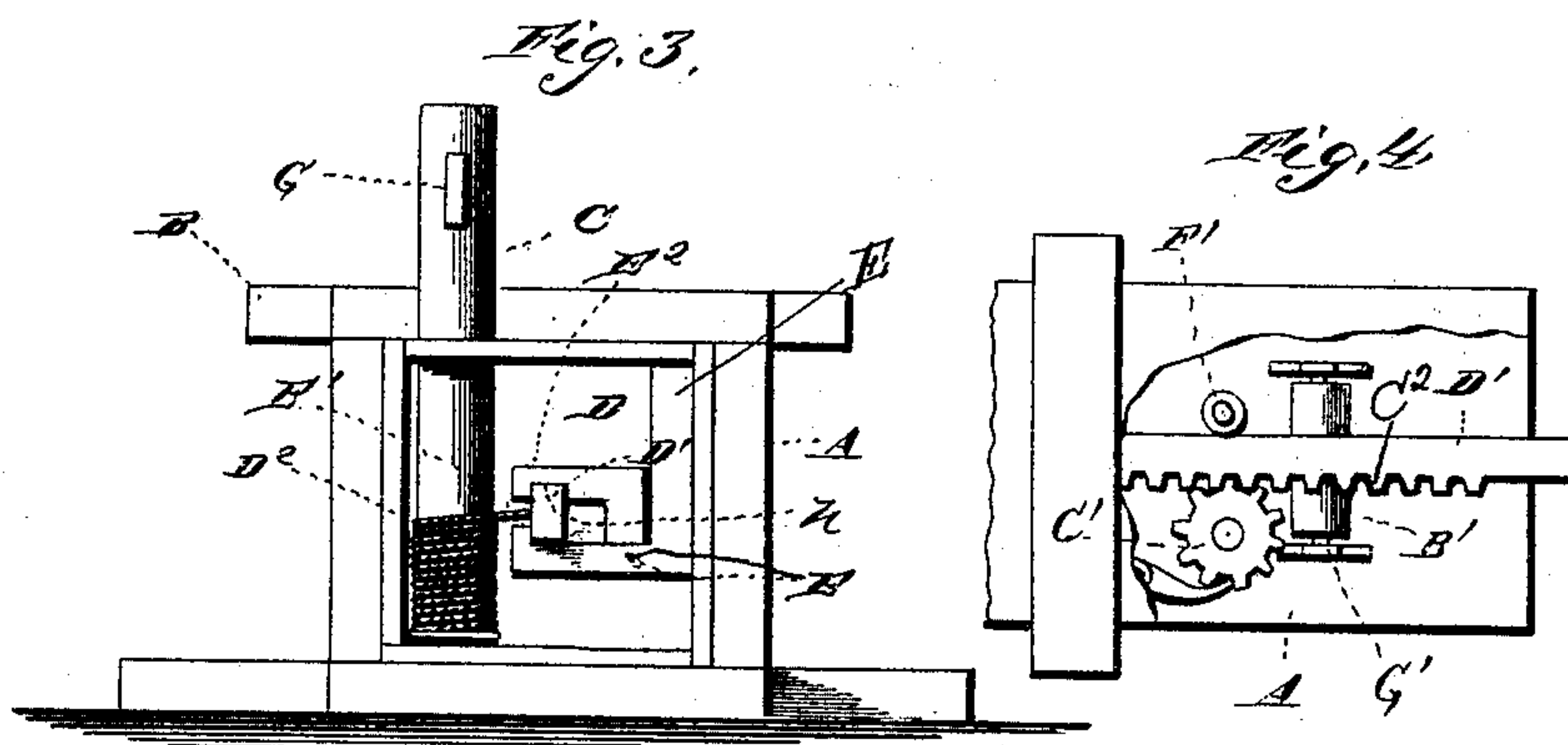
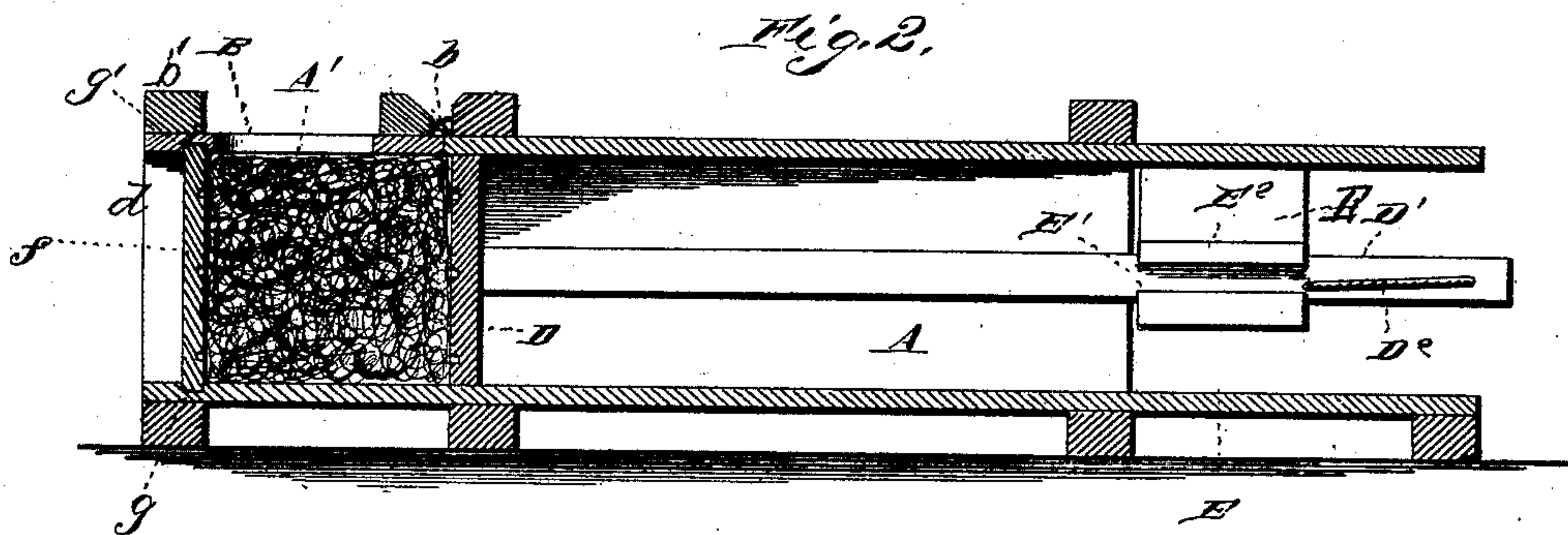
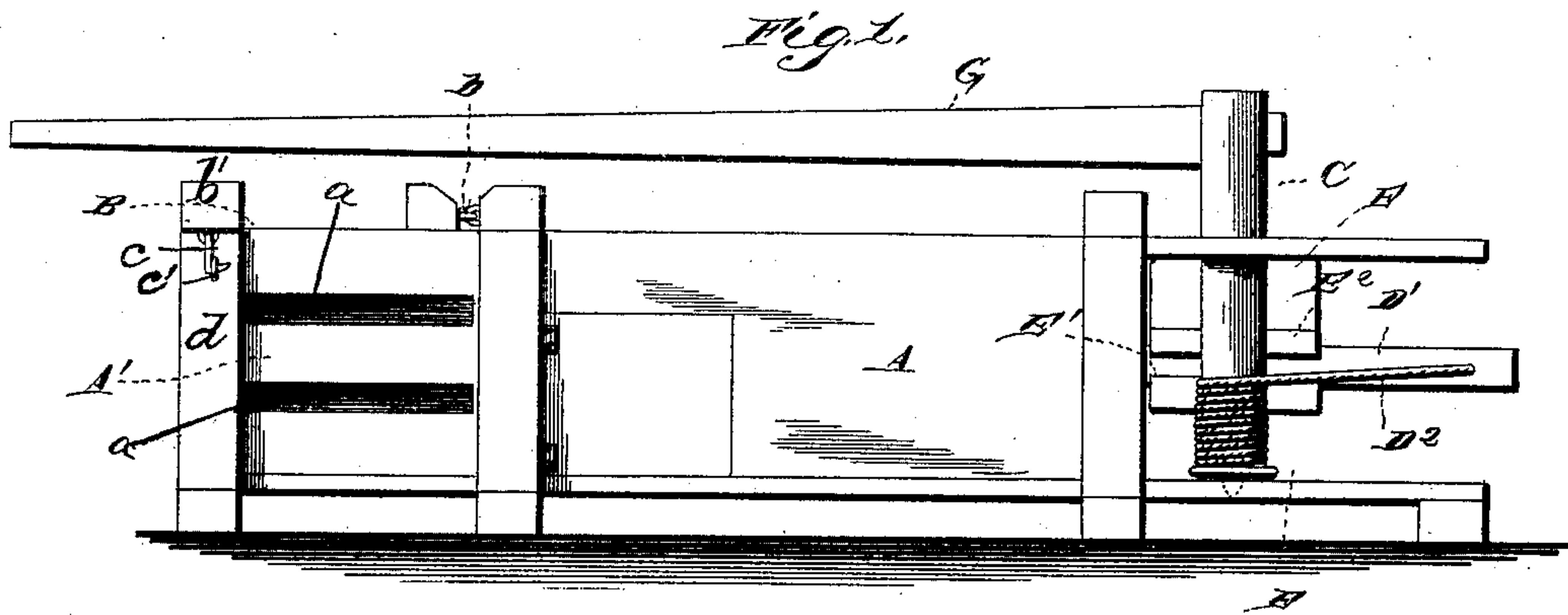


(No Model.)

O. F. DUBOIS.
HAY PRESS.

No. 437,146.

Patented Sept. 23, 1890.



Witnesses

Chas. Taylor
Philip Massi.

Olivier F. Dubois

By his Attorney

C. W. Anderson.

UNITED STATES PATENT OFFICE.

OLIVIER F. DUBOIS, OF TURTLE LAKE, WISCONSIN, ASSIGNOR OF ONE-HALF
TO JOHN H. BUNKER, OF SAME PLACE.

HAY-PRESS.

SPECIFICATION forming part of Letters Patent No. 437,146, dated September 23, 1890.

Application filed December 23, 1889. Serial No. 334,663. (No model.)

To all whom it may concern:

Be it known that I, OLIVIER F. DUBOIS, a citizen of the United States, and a resident of Turtle Lake, in the county of Barron and State of Wisconsin, have invented certain new and useful Improvements in Hay-Presses; 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 letters of reference marked thereon, which form a part of this specification.

Figure 1 is a side elevation of my improved hay-press. Fig. 2 is a longitudinal section thereof with the baling-chamber in use. Fig. 3 is a rear end view thereof; and Fig. 4 is a detailed, partly broken away, view of a modification of the mechanism for actuating the follower.

This invention relates to certain improvements in presses designed more especially for baling hay; and it consists of the novel combination and construction of parts, as will fully appear from the following description and accompanying illustrations.

In accordance with my invention, I employ a suitable horizontally-disposed receptacle or chamber A, within which hay is placed for compression and formation into a bale. The baling-chamber proper A' of the receptacle A has in opposite sides longitudinal slots *a a*, through which to pass the binding wire or rope. In the top of this chamber A' is an upwardly-opening door B, hinged at one end, as at *b*, to a frame of the receptacle A, the said door having secured to its upper side at the outer or free end a cross-bar *b'*, projecting beyond the side edges of said door and provided with hooks *c*, engaging eyes or staples *c'* on the end uprights *d* at that end of the receptacle A. At a suitable distance from the door B, I may provide the receptacle A with a second door (not shown) to permit feeding the hay thereinto by two or more persons at different points and at the same time. In the outer end of the baling-chamber A' is placed a removable end piece or board *f*, fitting the same snugly, its bottom edge resting in a shallow groove or gain *g* in the bottom

or floor of said chamber, while its upper or top edge is received in a shallow groove or gain *g'* in the under side of the door B, which, together with the groove or gain *g*, prevents displacing the gate by the pressure of the contents.

C is a drum which stands vertical and has an axial bearing in the bottom and top of the receptacle A.

D is the follower, which fits closely the receptacle or chamber A to effect the compression of the hay or contents of the latter, and which has its exterior stem or bar D' connected, preferably by a rope or chain D², with the windlass or drum C, in order to actuate said follower.

E² is a guide-bar secured by a pendant E to the receptacle A, and having a ledge or rabbet E' extending in the direction of its length and having the follower-bar D' resting and guided thereon. This guide-bar, together with an overhanging bracket E², fastened to the guide-bar at its inner end and receiving in a groove *h* in its under side the upper longitudinal edge of the follower-bar, serves to keep said bar in a right line.

G is a sweep or pole connected to the upper end of the windlass C. By means of this sweep motion is imparted to the windlass to operate the follower, said pole or sweep in practice being adapted to permit hitching a horse thereto or applying to it other power.

It will be seen that the horizontal receptacle, with its extension guide-bar, is within the diameter of the circle described by the movement of the sweep, thus providing a compact arrangement of the parts and economizing space.

In the modification, as disclosed in Fig. 4, the follower-bar D' is provided with teeth C² on one edge, with which is caused to engage a pinion C' on a vertical shaft suitably journaled in the press-box frame, said follower-bar resting upon a suitably-supported roller B' and held in engagement with the pinion C' by a roll F', also suitably supported in position.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

In a baling-press, the combination of the receptacle or chamber provided with a removable end, the follower, the windlass or drum, a rope or chain, the follower bar or stem, and
5 the guide-bar having a ledge or rabbet and a bracket overhanging said ledge or rabbet and having a groove in its under side directly above said ledge or rabbet, said follower being guided in a right line by said ledge or

rabbet and bracket and said follower-bar connected by said rope or chain to said windlass or drum, substantially as specified.

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

OLIVIER F. DUBOIS.

Witnesses:

L. M. RICHARDSON,

ANDREW BENSEND.