

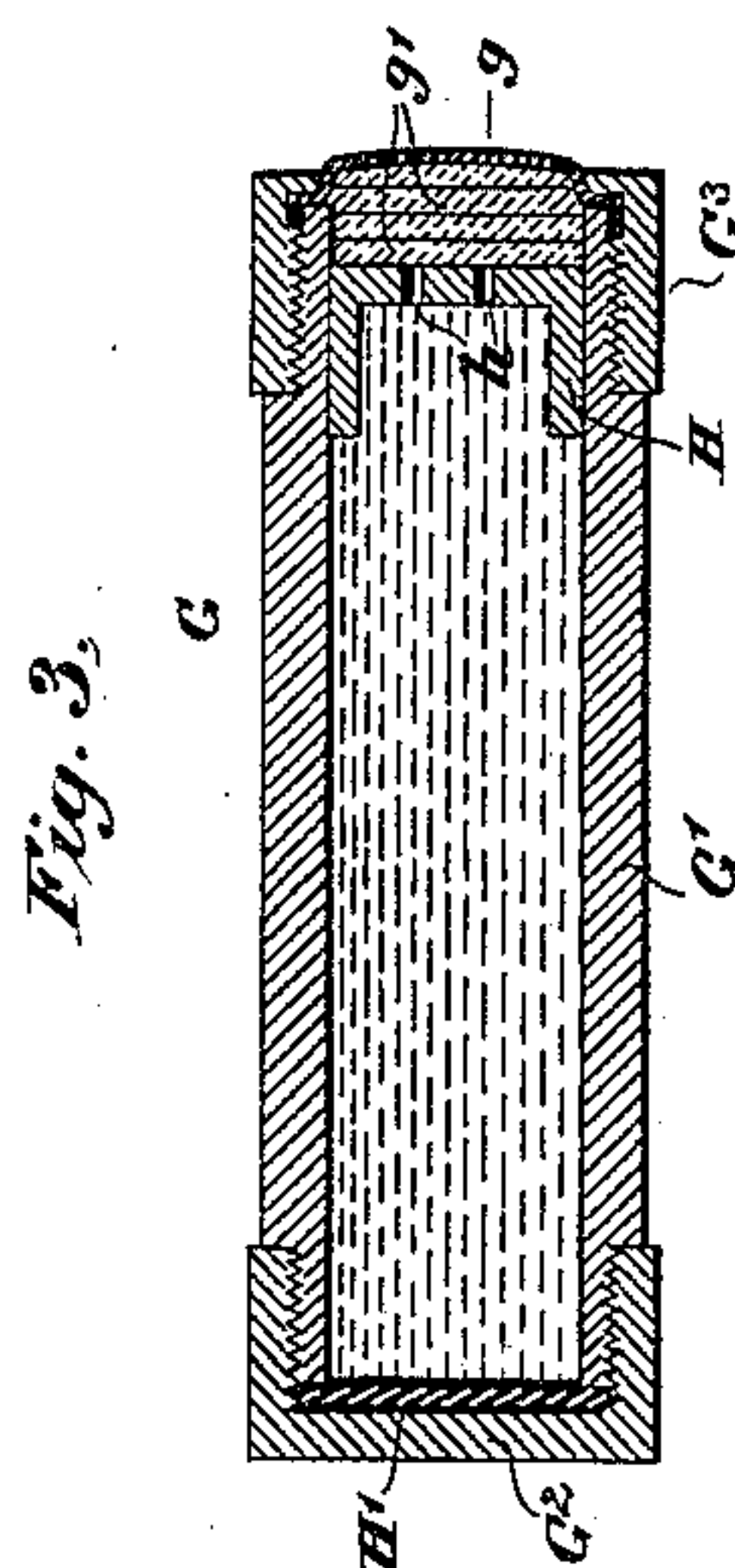
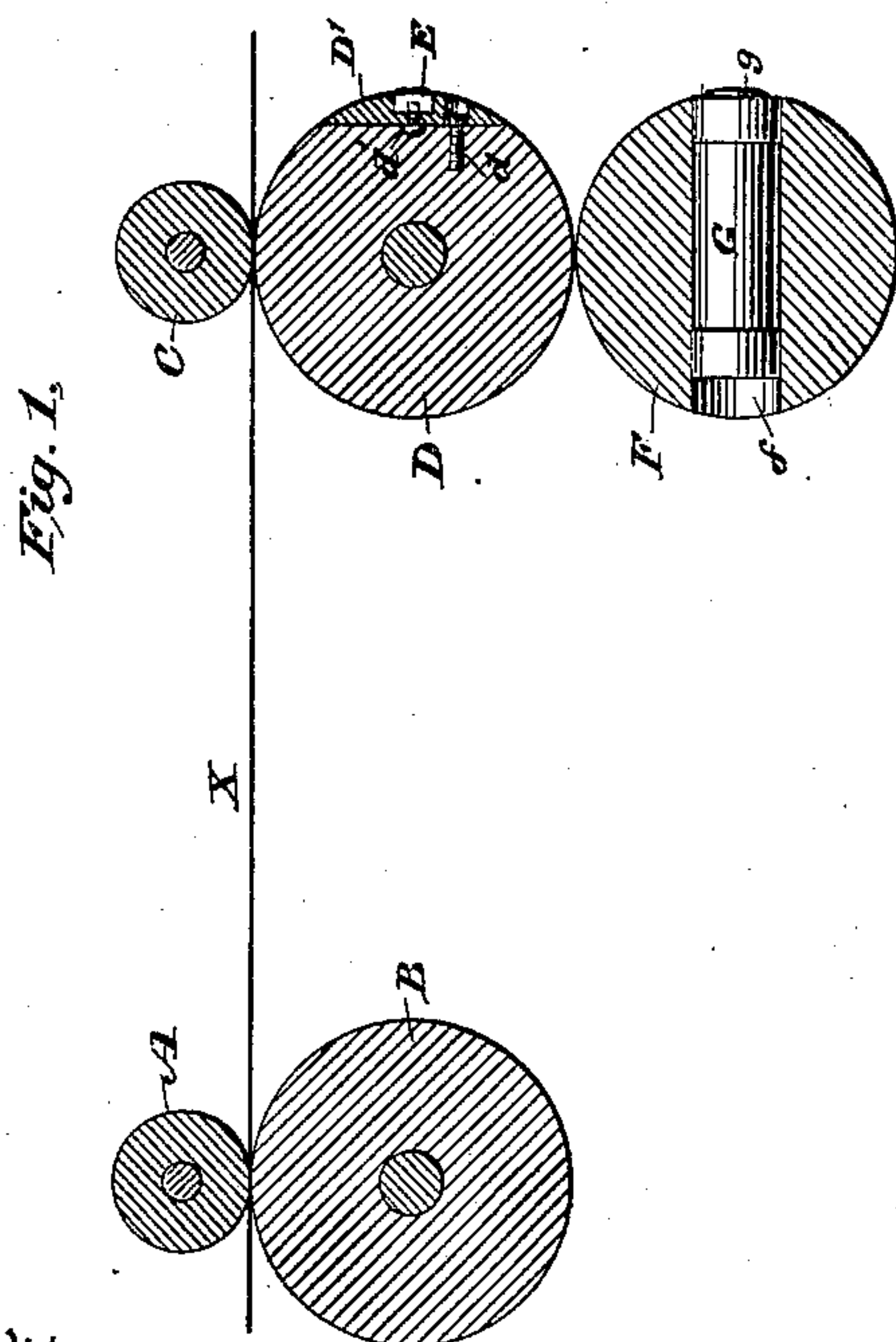
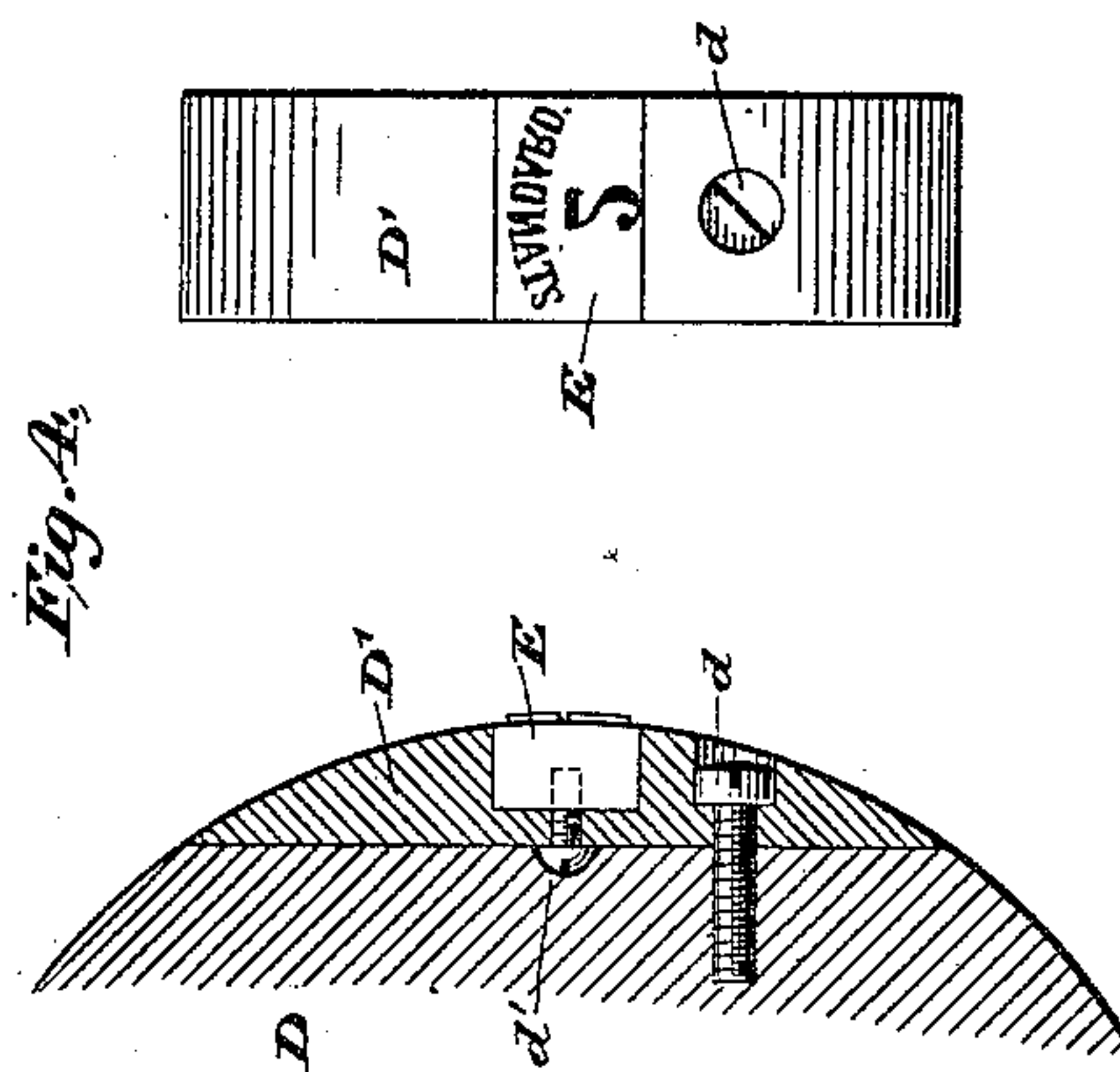
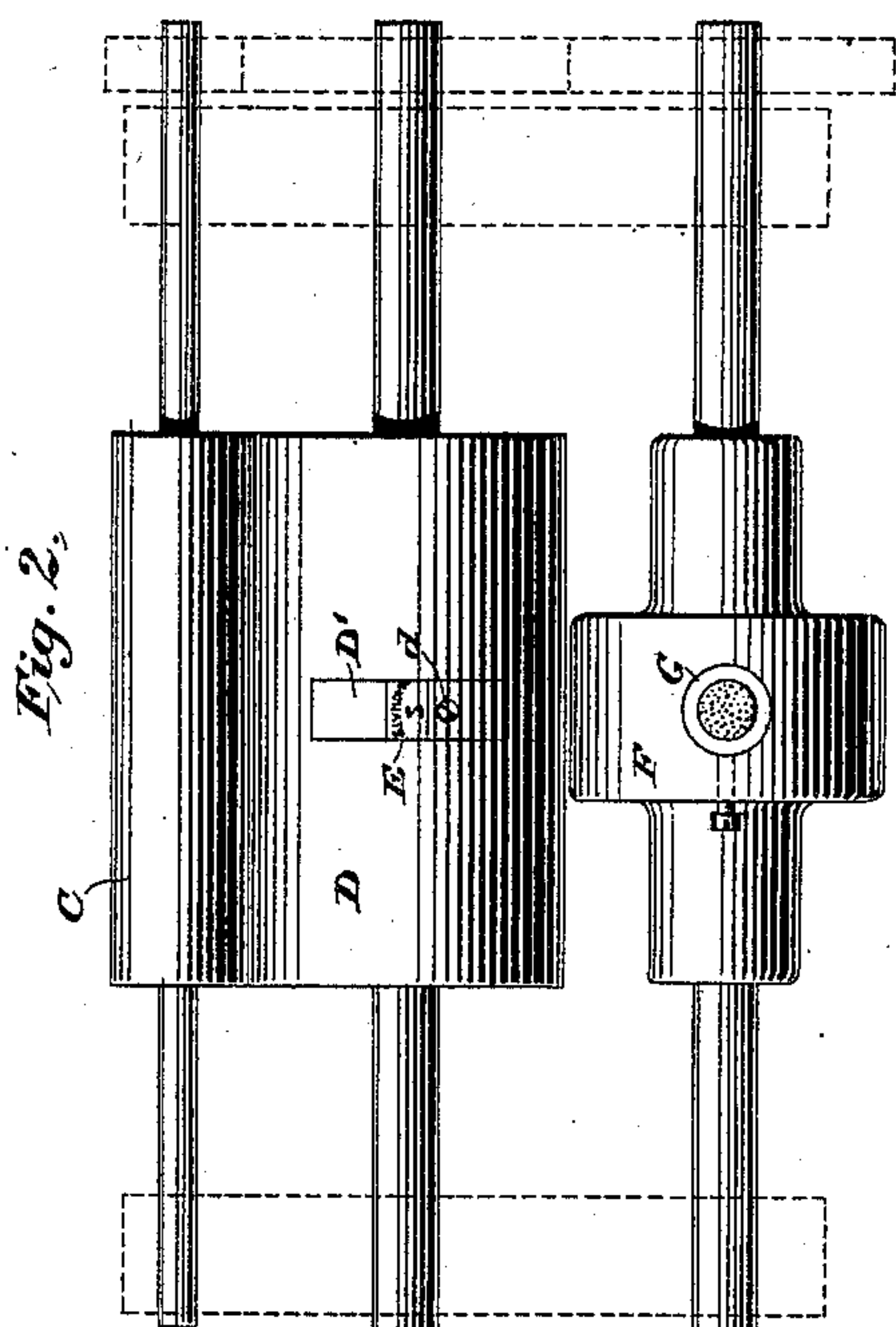
(No Model.)

E. STANLEY.

PRINTING ATTACHMENT FOR PAPER BAG MACHINES.

No. 428,153.

Patented May 20, 1890.



2 Witnesses  
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# UNITED STATES PATENT OFFICE.

EDWARD STANLEY, OF BRIDGEPORT, PENNSYLVANIA.

## PRINTING ATTACHMENT FOR PAPER-BAG MACHINES.

SPECIFICATION forming part of Letters Patent No. 428,153, dated May 20, 1890.

Application filed July 2, 1889. Serial No. 316,300. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD STANLEY, of Bridgeport, in the county of Montgomery, State of Pennsylvania, have invented certain new and useful Improvements in Printing Attachments for Paper-Bag Machines, of which the following is a specification.

The purpose of the invention is to provide a new, simple, and efficient means for printing, marking, or numbering completed paper bags as they are delivered from the machine.

In the accompanying drawings, Figure 1 is a sectional view showing the delivery-rolls of a bag-machine and the printing-rolls which constitute my improved attachment; Fig. 2, a rear or end view of the same; Fig. 3, a view of the ink-fountain detached; and Fig. 4 shows in detail the edge of the type-carrying roll in section and elevation.

A B represent the delivery-rolls of any ordinary bag-machine, and X may represent a paper bag passing from the delivery-rolls through the printing-rolls C D. C is the upper friction-roll, which may have a surface covered with rubber, cloth, or any suitable material to render it more or less elastic.

D is the lower type-carrying roll, operating in conjunction with the roll C and driven at the same speed that the bag X is traveling, and makes one revolution to each bag. In the face of this roll a transverse tangential recess is formed, within which a type-holding segmental plate D' is secured by a screw d.

E is the type-block, having thereon the numbers or letters to be printed upon the bag. In the drawings it contains the matter "Standard 2." It is seated in a socket in the plate D' and secured by a screw d', passing through the under side of the plate.

F is the inking-roll. It is of the same diameter and is geared to run with the roll D. A central transverse hole or passage f is formed in it, and within this hole the inking-fountain G is secured in such position that its pad g will make contact with the type-block E as the rolls revolve.

The body of the ink-fountain is composed of a tube G', screw-threaded at each end. One end is closed by a solid cap G<sup>2</sup>, and the other

receives an open face or ring cap G<sup>3</sup>, the opening in the cap being preferably about the same width as the bore of the tube. A piece of cloth, felt, or other suitable porous or fibrous material g, placed within the ring-cap G<sup>3</sup>, is clamped at its edges between the cap and the end of the tube. Within the tube G' is a closely-fitting cup-shaped plug H, having a number of apertures h in its head, and between the plug and the cloth g a sufficient number of disks or pieces of woolen cloth or other suitable material g' are placed. In filling the fountain with ink the cup H is pressed outwardly against the cloth g g' and the tube is filled with ink, and the end of the tube is then closed by the cap G<sup>2</sup>, which is provided with a washer H'. The centrifugal force developed by the rotation of the roll keeps the ink against the pad, and the quantity of ink upon the surface of the pad may be regulated by varying the number of cloth or fibrous disks g'.

With this attachment bags may be marked with as great rapidity and ease as they can be delivered from the rolls A B. The face of the pad g' is by the centrifugal action kept supplied with ink, and once in each revolution the pad inks the type-block, and once in each revolution of the roll D a bag is printed and delivered from the machine.

I claim as my invention—

1. The combination of the type-carrying roll, the inking-roll having a passage therein transverse to its axis, and the removable ink-carrying tube arranged in said passage, and having an inking-pad adapted to supply ink to the type, substantially as set forth.

2. The combination, with a roll F, having a transverse central passage f formed therein, of an ink-fountain secured in said passage, consisting of a tube having a removable cap G<sup>3</sup> and a pad g.

3. In combination with a rotating roll or support, an ink-fountain consisting of a body or tube G', having a removable ring-cap G<sup>3</sup>, an interior perforated plug H, and adapted to hold the cloth or fibrous material g g', substantially as set forth.

4. In combination with a rotating roll or

support, an ink-fountain G, consisting of a  
tube G', a solid removable cap G<sup>2</sup> closing it  
at one end and a removable ring-cap G<sup>3</sup> upon  
the other end, the perforated plug H, and the  
5 cloth or fibrous material *g g'*, forming the  
pad and interposed between the plug and the  
ring-cap.

In testimony whereof I have hereunto sub-  
scribed my name.

EDWARD STANLEY.

Witnesses:

A. R. PLACE,  
E. L. HALLMAN.