

No. 710,066.

Patented Sept. 30, 1902.

A. A. LOW.
TYPE DISTRIBUTING APPARATUS.

(Application filed Jan. 29, 1901.)

(No Model.)

3 Sheets—Sheet 2.

Fig. 3.

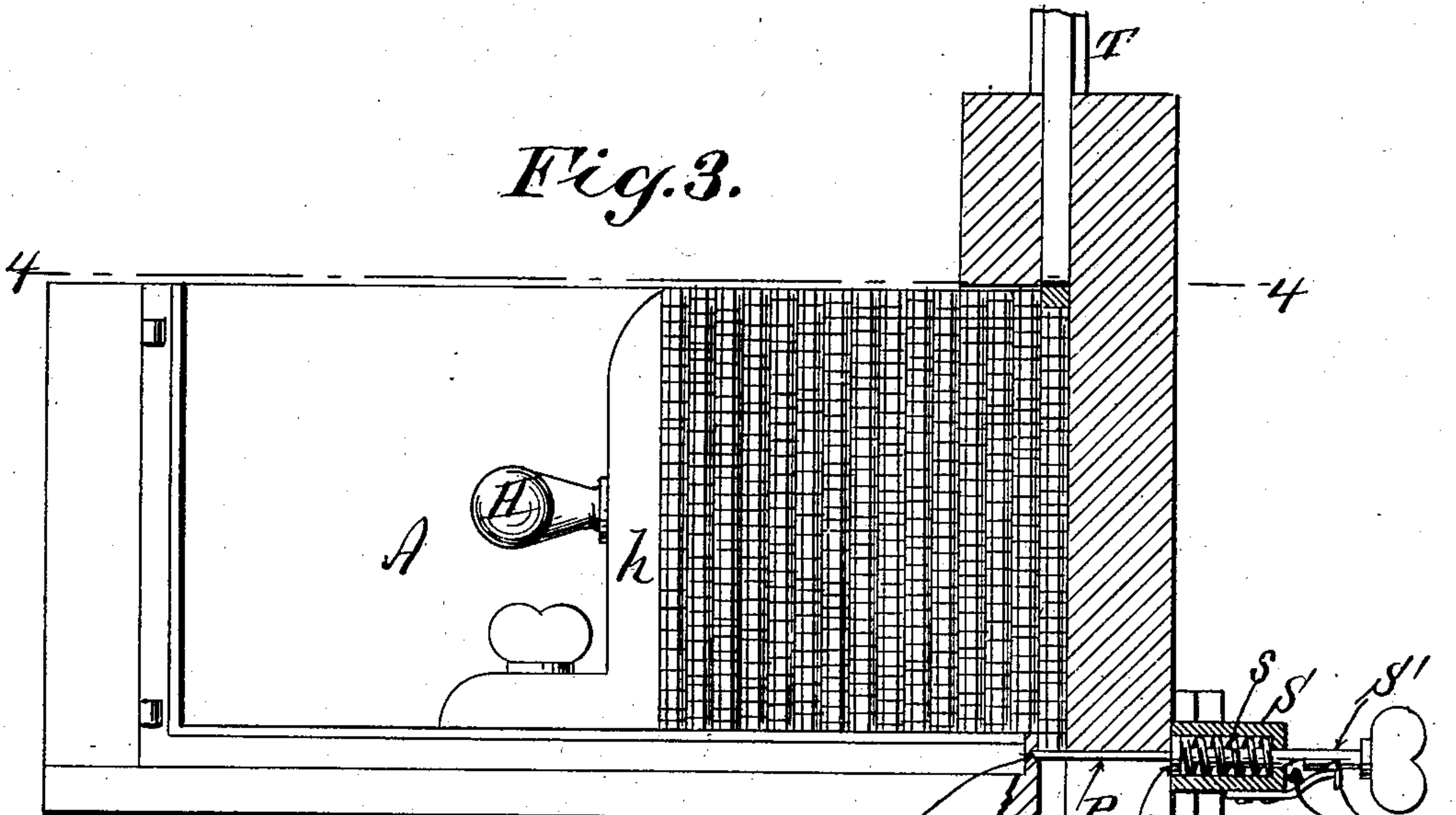


Fig. 5.

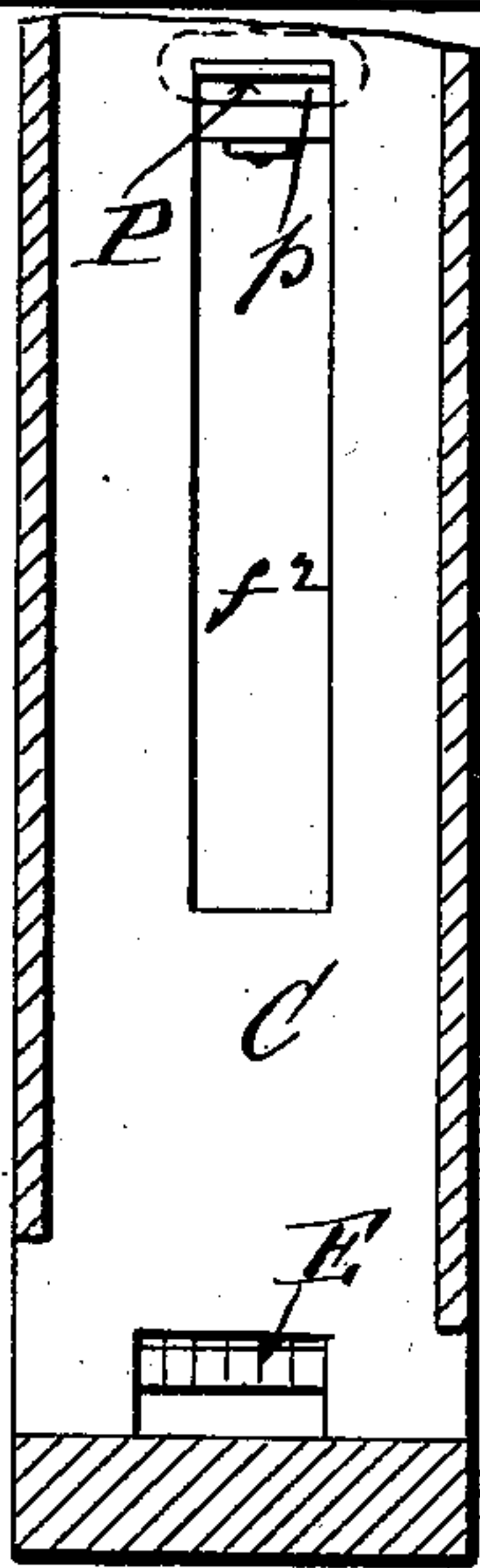
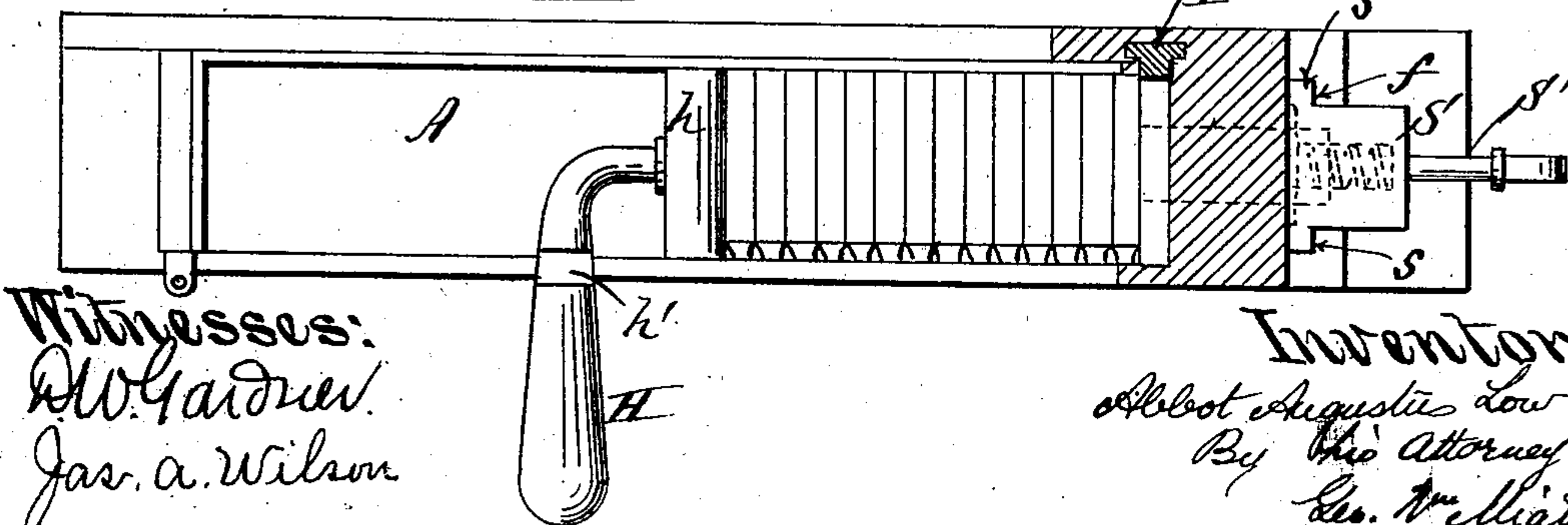
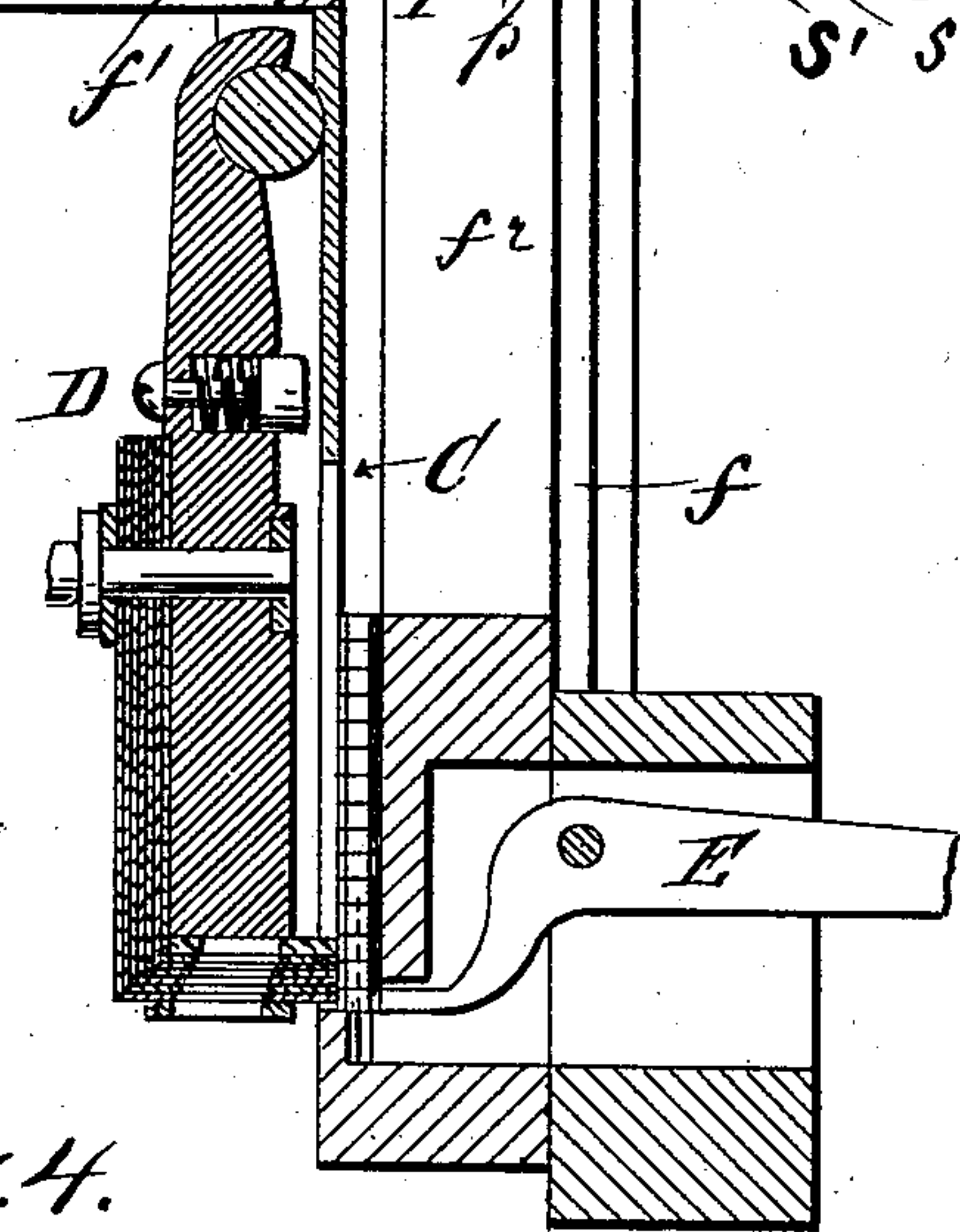


Fig. 4.



Witnesses:
W. Gardner
Jas. A. Wilson

Inventor:
Albert Augustus Low
By His Attorney
Geo. W. Smith

No. 710,066.

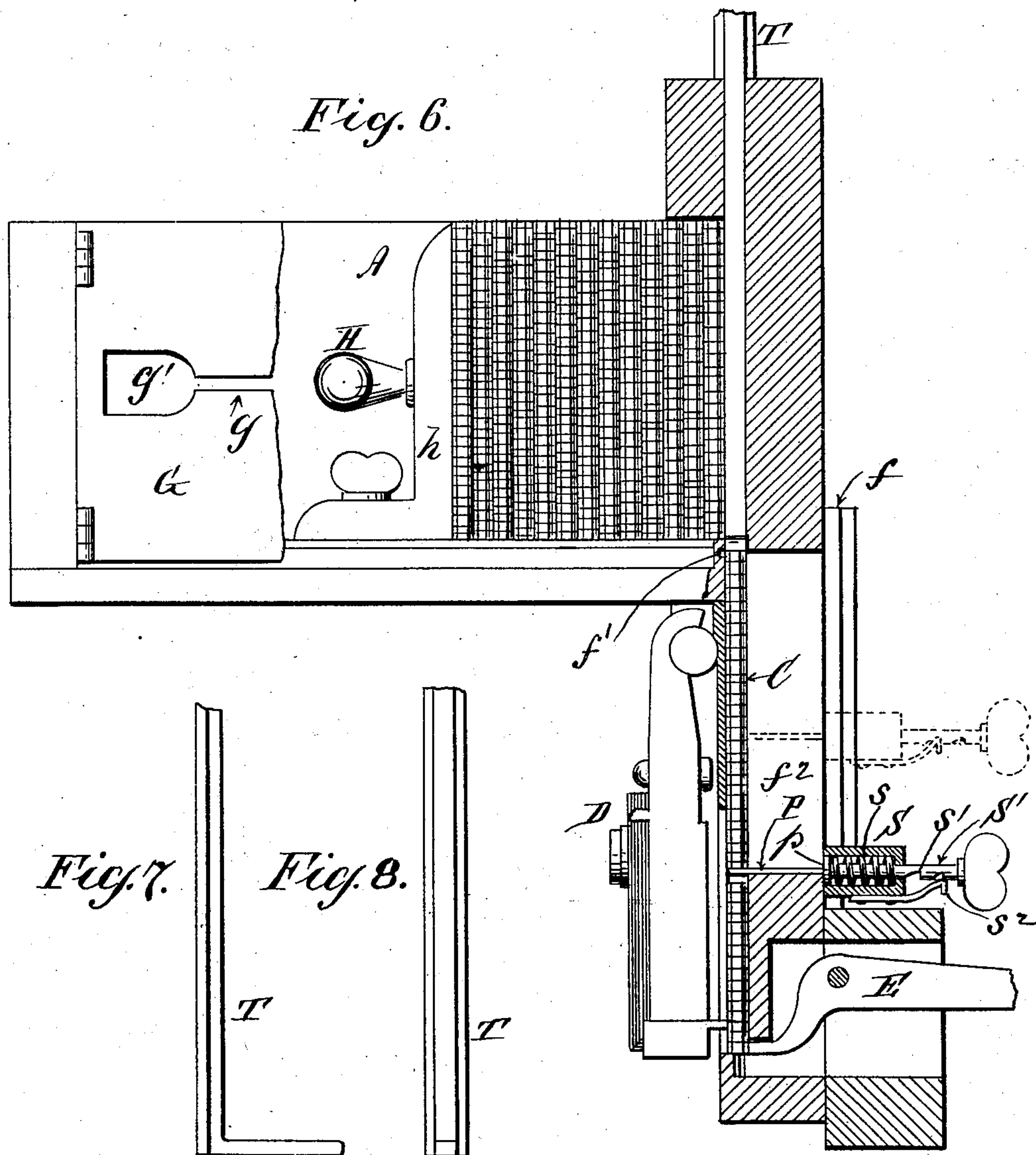
Patented Sept. 30, 1902.

A. A. LOW.
TYPE DISTRIBUTING APPARATUS.

(Application filed Jan. 29, 1901.)

(No Model.)

3 Sheets—Sheet 3.



Witnesses:

W. Gardner

Jas. A. Wilson

Inventor:

Abbot Augustus Low
By his Attorney
Geo. W. Mearns

UNITED STATES PATENT OFFICE.

ABBOT AUGUSTUS LOW, OF BROOKLYN, NEW YORK, ASSIGNOR TO
ALDEN TYPE MACHINE COMPANY, OF NEW YORK, N. Y.

TYPE-DISTRIBUTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 710,066, dated September 30, 1902.

Application filed January 29, 1901. Serial No. 45,194. (No model.)

To all whom it may concern:

Be it known that I, ABBOT AUGUSTUS LOW, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Type-Distributing Apparatus, of which the following is a specification sufficient to enable others skilled in the art to which the invention appertains to make and use the same.

My invention relates to type-distributing apparatus, especially to the form known as the "Alden" machine.

The object of my present invention is to effect the feeding of lines directly from the galley into the distributor vertically.

The invention consists, essentially, in means herein shown and described for cutting off a line of type from the end of a vertical galley and lowering it into the feeler-channel in the distributor.

It also includes certain other features of special construction hereinafter described and claimed specifically.

In the accompanying drawings, Figure 1 is an elevation of the parts essential in illustrating my invention. Fig. 2 is a top view of the same. Fig. 3 is a sectional vertical elevation illustrating the use of my improved device. Fig. 4 is a section on plane of line 4 4, Fig. 3. Fig. 5 is a sectional view of the feeler-channel with the detent removed. Fig. 6 is a sectional elevation illustrating the lowering of the type into the feeler-channel. Figs. 7 and 8 are front and side views, respectively, of the type-line cut-off.

In the drawings, A represents a galley in which a page of type has been placed for distribution. This galley A is supported vertically upon the distributor by any suitable means in such relation to the feeler-channel C that its front edge coincides therewith, so that the front line of type may be advanced into the space above said channel. This is accomplished by means of the handle H, attached to the line-follower h. The types thus advanced are supported temporarily upon the transfer-plate P, as illustrated in Fig. 3. This transfer-plate P is mounted upon a cross head or slide S, adapted to be slid up and down vertically by any suitable mechanical

expedient, as by tenons s s, fitting in the grooves f in the distributor-frame.

The transfer-plate P is retractable upon the cross-head S, so that it may be withdrawn to release the line of type in the feeler-channel after said line has been lowered into position, as shown in Fig. 6. This retractile movement may be effected by mounting the transfer-plate P upon a spring-bolt S', said spring-bolt S' being formed with a notch or shoulder s' for engagement with a spring s², as shown in dotted lines in Fig. 6, when it is desired to hold the transfer-plate in its retracted position, as after the types have been released and during the movement of the cross-head S upward vertically. A spring s³ acts against a flange p and tends constantly to thrust the transfer-plate P forward, in which position when it is fully raised the front edge of the transfer-plate fits into a notch or recess f' in the front wall of the feeler-channel C, as will be seen by reference to Fig. 3. The transfer-plate P travels up and down in a broad vertical slot f², the flange p upon the spring-bolt S' being of sufficient width to straddle this slot and bear against the inner side walls thereof, as illustrated in Fig. 5, thereby gaging the forward thrust of the transfer-plate.

T is a type-line cut-off, which acts upon the upper end of the type-line to be transferred to the feeler-channel C. It is raised and lowered vertically by any suitable means, the essential feature in this connection being a vertical movable cut-off and follower by which the types may be positively lowered into the feeler-channel C.

D represents the usual detent used in connection with the usual type-feelers E, the construction and operation of both of which are well known in the art.

The galley A is formed with a cover G, hinged or otherwise attached thereto for the purpose of retaining the body of type in the galley when in a vertical position and sustaining them against the disturbing action of the type-line cut-off. This cover G is formed with a horizontal slot g to admit the shank of the handle H, said shank being preferably formed with notches h' to receive the edges of the grooves g, which latter in such case are made with an enlarged area g' at the rear

of the cover G, so that the said cover may be passed over the handle. By this construction the handle H is made to perform the double function of controlling the line-forwarder *h* and of locking the cover G in position vertically.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In type-distributing apparatus, the combination of a vertical type-galley, vertically-movable type-line-transfer plate, a vertical movable type-line cut-off or follower and type-feeling mechanism, arranged and operating substantially in the manner and for the purpose described.

2. In type-distributing apparatus, the combination of a vertical type-galley A, line-forwarder *h*, formed with the handle H, the retractable transfer-plate P, for lowering the types into the feeler-channel C, the type-line cut-off and follower T, and the type-feeling mechanism, all arranged and operating substantially in the manner and for the purpose described.

3. In type-distributing apparatus, the combination of the galley A, the distributor-frame formed with the vertical feeler-channel C, the retractable and vertically-movable transfer-plate P, the type-line cut-off T, type-feeling mechanism and a vertical cover G, upon the galley A, for the purpose of sustaining

the types in the galley A, substantially in the manner described.

4. In type-distributing apparatus, the combination with the vertical galley A, type-line cut-off T, the frame formed with the vertical feeler-channel C, and type-feeling mechanism, of the transfer-plate P, extending through the vertical slot *f*², and mounted upon the end of the spring-bolt S', upon the vertical movable cross-head S, said bolt S', being formed with a shoulder *s*', for engagement with the ends of a ratchet-spring *s*², and with a flange *p*, for the purpose and substantially in the manner described.

5. In type-distributing apparatus, the combination with the type-line cut-off T, retractable transfer-plate P, of a vertical galley A, provided with a cover G, formed with a horizontal slot *g*, said galley being also provided with a line-forwarder *h*, the handle of which H, is formed with notches *h*', for the reception of the edges of the slot *g*, whereby the handle H, is made to lock the cover G, in position during the forward movement of the line-forwarder, substantially in the manner and for the purpose described.

ABBOT AUGUSTUS LOW.

Witnesses:

D. W. GARDNER,
GEO. WM. MIATT.