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PATENTED JULY 31, 1906.

F. W. WEEKS.
LINE HOLDER AND CYLINDRICAL TYPE CHASE.
APPLICATION FILED JULY 21, 1905.

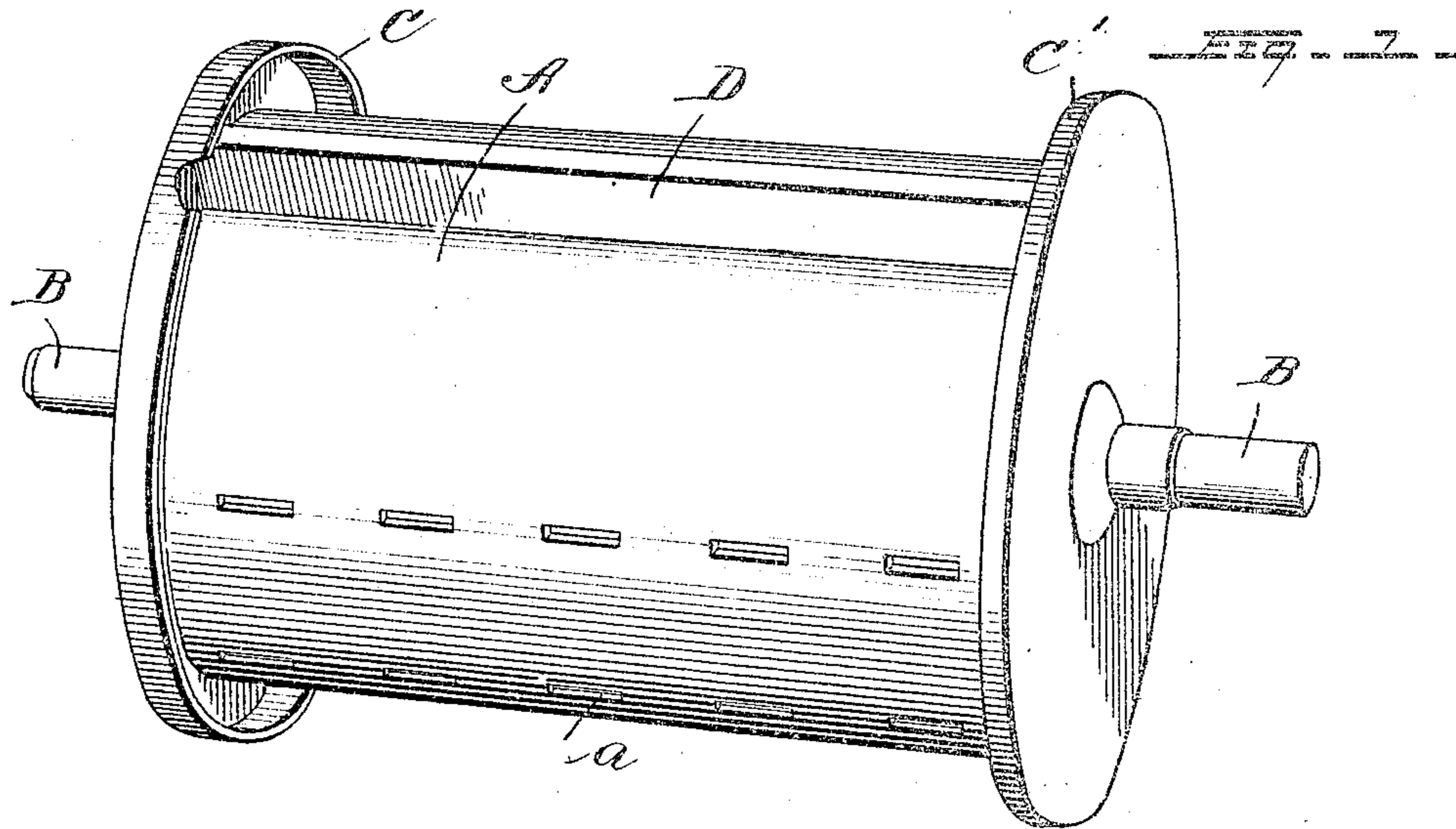


Fig. 1.

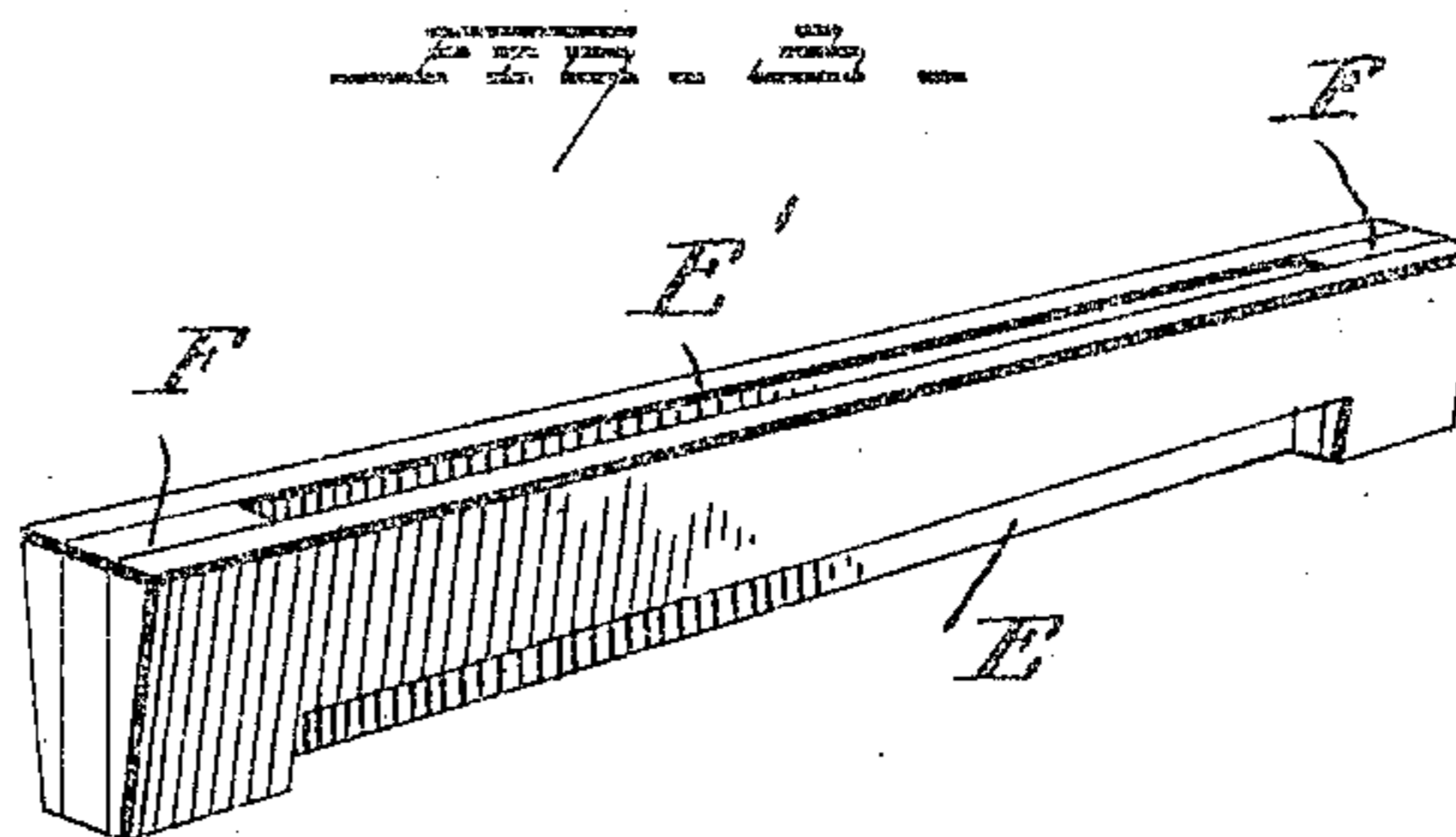
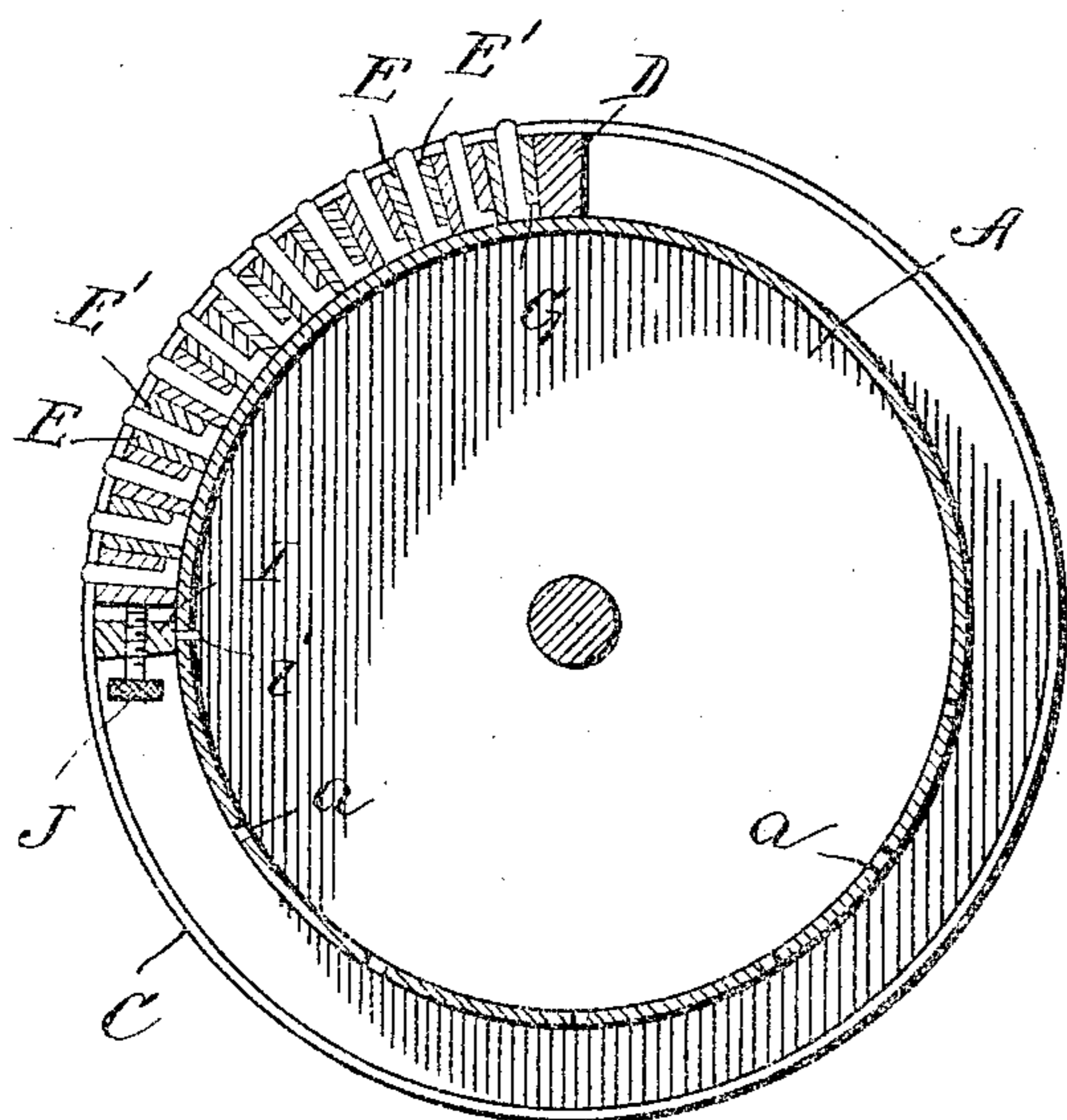
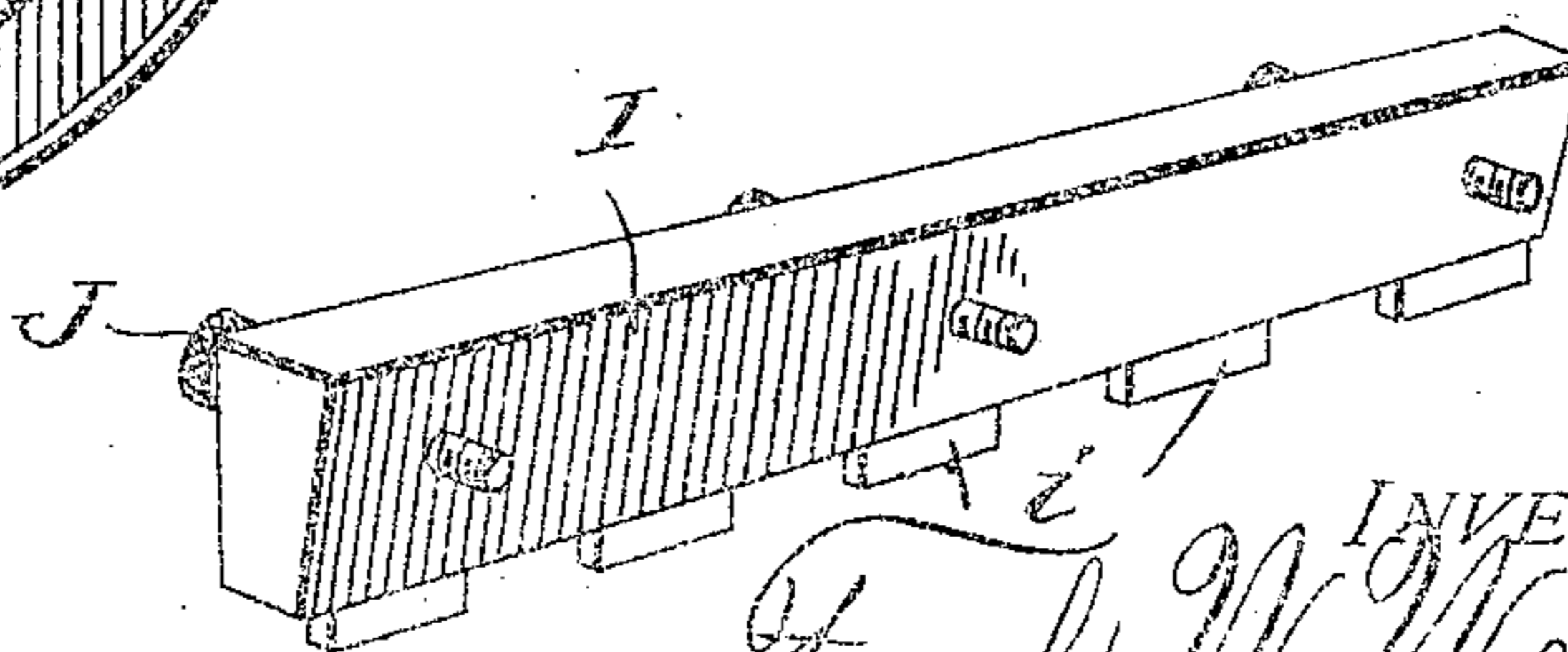


Fig. 3.



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LINE-HOLDER AND CYLINDRICAL TYPE-CHASE.

No. 827,486.

Specification of Letters Patent.

Patented July 31, 1906

Application filed July 21, 1905. Serial No. 270,896.

To all whom it may concern:

Be it known that I, FRANK W. WEEKS, a citizen of the United States, residing at San Antonio, in the county of Bexar and State of Texas, have invented a new and useful Improvement in Line-Holders and Cylindrical Type-Chases, of which the following is a specification.

My invention relates to improvements in a combined line-holder and cylindrical type-chase, and is particularly designed to be used in connection with a type provided upon one end with a printing character and upon its opposite end with a corresponding proof character.

The object of my invention is to provide means for rapidly and easily setting type by an unskilled person and in which each line is separately set up and held in position and by means of which the same can be inverted and readily placed and held within the cylindrical chase.

In the accompanying drawings, Figure 1 is a perspective view of my improved cylindrical chase. Fig. 2 is a transverse sectional view with several of the line-holders clamped therein. Fig. 3 is a perspective view of the improved line-holder, and Fig. 4 is a perspective view of the clamping-blocks removed.

Referring now to the drawings, A represents a cylindrical member which is preferably made of sheet metal and provided with suitable journals B, by means of which it is placed within the cylindrical press. The ends of said cylinder are extended outwardly beyond the periphery thereof and are turned inwardly, forming the flanges C and C'. Resting upon the cylinder and rigidly secured thereto is a stationary radially-extending rib D, which has both of its sides extending radially from the cylinder. The flange C is about twice the width of the flange C', and this allows of the insertion of the line-holder within the chase and the holding of the same therein against radial movement. The line-holder consists of two plates E and E', which, as shown, are of a length slightly less than the distance between the ends of the cylinder, and in order to insert the holder one end is inserted under the flange C until it strikes the end of the cylinder, and it is then lowered and moved in the opposite direction under the flange C', and the holder is prevented from moving radially within the chase. The said line-holder, as before stated, consists of two plates E and E', which are

spaced and held apart by blocks F, which are of a thickness equal to that of the type, so that the same can be readily placed within the holder. The outer side of each of said plates E and E' forming the holder is thickened so that when a number of them are inserted in the chase and rest upon the cylinder their outer surfaces will fit closely together and will extend radially from the cylinder, so that a cylindrical printing-surface is produced.

The blocks F are provided with inwardly-extending springs which are adapted to bear against the type and firmly hold the same between the plates. Instead of these springs the blocks F can be made of sponge-rubber and cemented between the plates and also serve as means for spacing the plates apart and frictionally holding the type within the holder. In this form of line-holder I use the type covered by my United States Patent No. 744,836, dated November 24, 1903, and which consists of a type having at one end the printing character and at the opposite end the proof character and provided with the shoulder G, by means of which the type are supported within the holder and the type are set with the proof end up in the regular reading order and the reversing of the holder arranges the type in the printing order.

It is understood that after the type are set within the holder the same is inverted before inserting it in the chase to bring the type side outwardly.

The leads and furniture are necessarily made wedge shape and of a length equal to that of the holders, so that the same can be readily inserted and so that they will extend radially from the cylinder, so as to form the cylindrical printing-surface.

The cylinder A is provided with rows of slots a at various distances from the stationary rib and said slots passing through the shell of the cylinder.

In order to hold the line-holder in the cylindrical chase at the proper position, I provide the blocks I, which are inserted precisely like the line-holders and the leads, and said blocks have one side at an angle to correspond to that of the holders. The lower edge of the blocks is provided with downwardly-extending lugs i, which enter the slots a, and the blocks are held against circular movement on the cylinder. The blocks are provided with thumb-screws J, which pass through the same and either engage the fur-

niture or the holders and firmly clamp them thereon. The cylinder forms the backing for the type, and the shoulder absolutely prevents the type from coming out of the holder.

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

1. A combined line-holder and cylindrical type-chase, comprising a cylinder, a stationary abutment carried thereby, a plurality of separate, wedge-shaped line-holders carried thereon, said cylinder having a series of slots extending across same and a movable abutment resting within said slots and settable at various distances from the stationary abutment, and means adapted to clamp the line-holders between the same and said stationary abutment.

2. A combined line-holder and cylindrical type-chase, comprising a cylinder, a stationary abutment carried thereby, said cylinder having a series of slots extending across the cylinder, a removable abutment having lugs resting within said slots, and set-screws carried thereby and adapted to clamp the line-holder between the same and said solid abutment.

3. A combined line-holder and cylindrical type-chase, comprising a cylinder, inwardly-extending flanges of different widths carried by the ends of the cylinder, a stationary abutment carried by the cylinder beneath the flanges, wedge-shaped line-holders of a length slightly greater than the distance between the flanges and adapted to be placed on the cylinder under the flanges, said cylinder having a series of longitudinally-extending recesses, a removable abutment beneath said flanges and having lugs entering the recesses in the cylinder, and set-screws carried

by the removable abutment and bearing against the line-holder.

4. A line-holder, comprising two wedge-shaped plates having elastic blocks between the same.

5. A line-holder, comprising two wedge-shaped plates having sponge-rubber blocks between the same and cementing the plates together.

6. A line-holder comprising two longitudinally-arranged plates having elastic blocks between their ends and forming a space between said plates intermediate of the blocks adapted to contain type.

7. A line-holder comprising a plurality of longitudinally-arranged plates, and elastic blocks secured between the ends of said plates forming spaces between said plates for the reception of type adapted to impart longitudinal pressure upon the type.

8. A line-holder comprising two longitudinally-arranged plates having elastic blocks between their ends of a thickness equal to the width of the type and forming a space between said plates for the reception of type.

9. A line-holder comprising two longitudinally-arranged plates having elastic blocks between their ends and forming a space between said plates for the reception of type, one of said plates extending beyond the other forming a guide in placing the type within the holder.

In testimony whereof I have hereunto signed my name to this specification in the presence of two subscribing witnesses.

FRANK W. WEEKS.

Witnesses:

LAURA E. WEEKS,
J. BOLTON.