

No. 731,834.

PATENTED JUNE 23, 1903.

F. F. ANDERSON.
TYPE WRITING MACHINE.
APPLICATION FILED APR. 26, 1902.

NO MODEL.

Fig. 1.

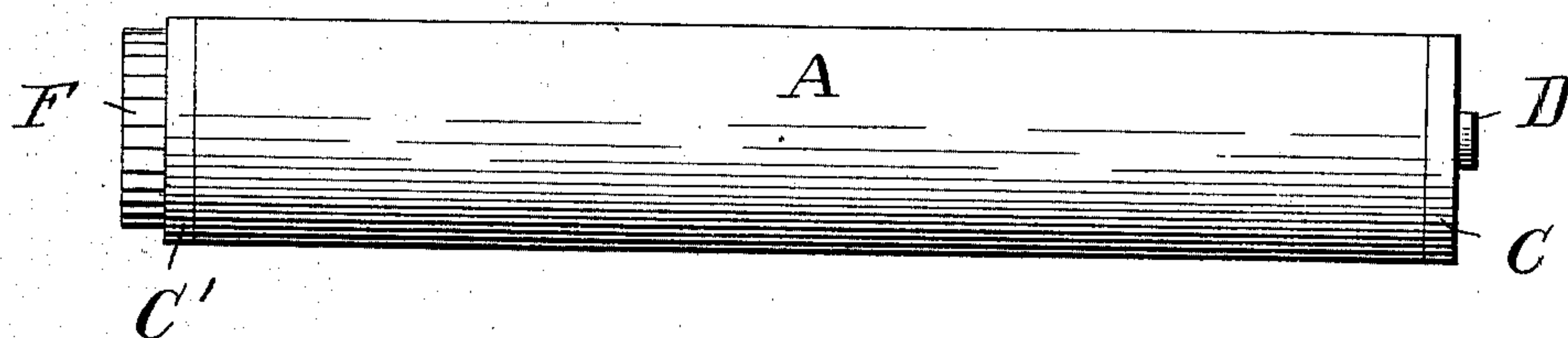


Fig. 2.

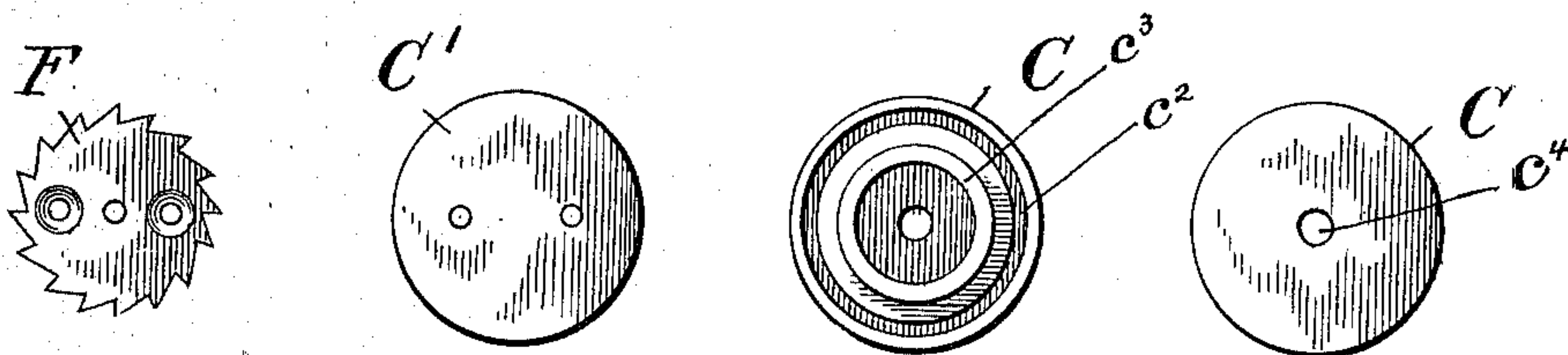


Fig. 3.

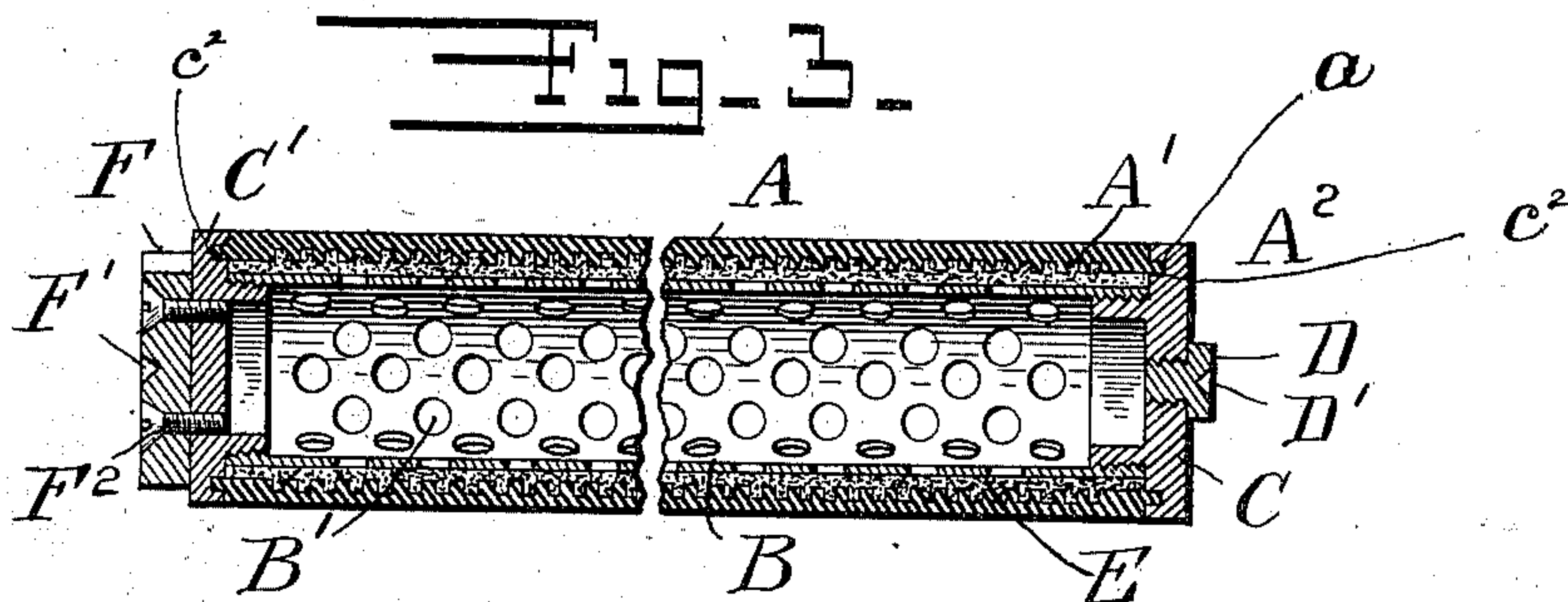
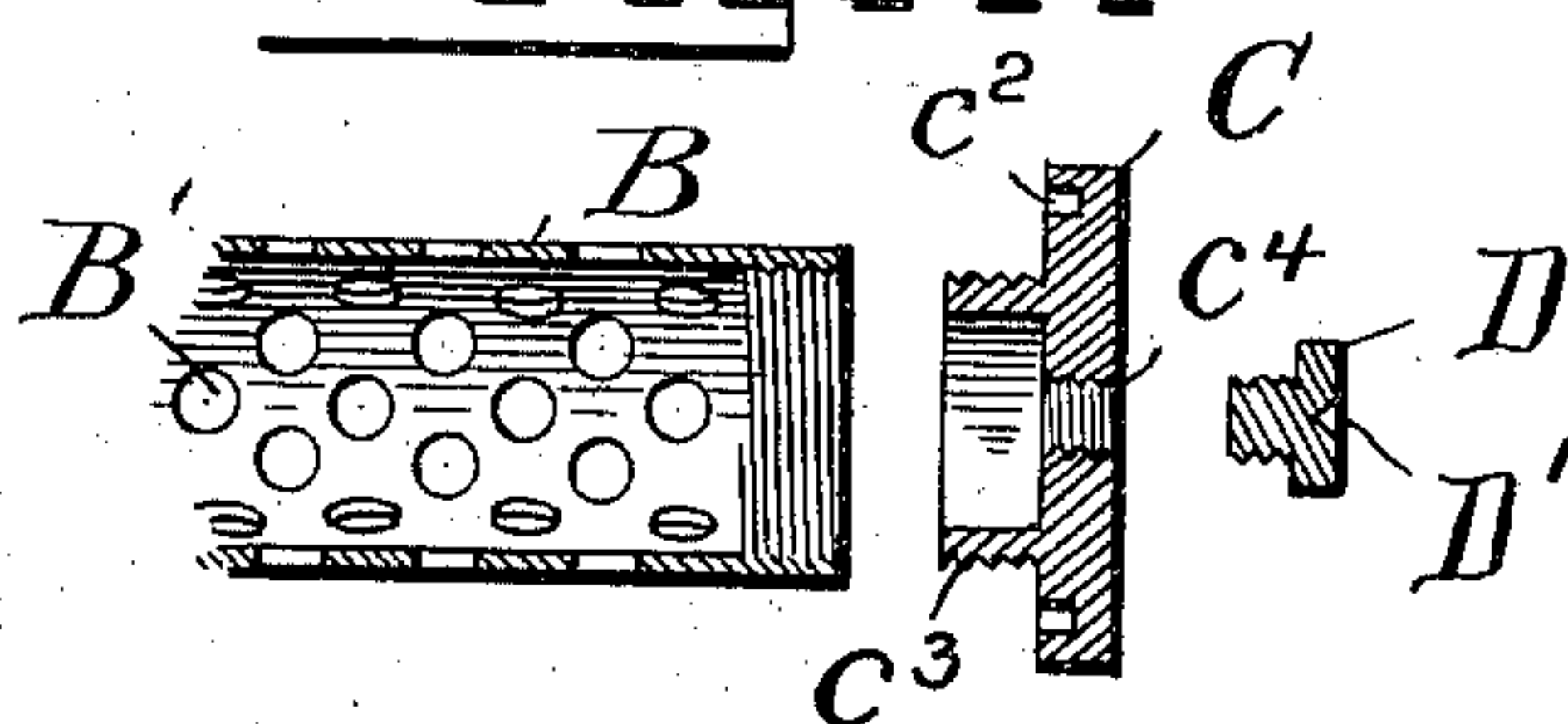


Fig. 4.



WITNESSES:

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FREDERICK F. ANDERSON, OF NEW YORK, N. Y., ASSIGNOR OF ONE-EIGHTH TO EDWARD J. MELLEN, OF WICHITA, KANSAS.

TYPE-WRITING MACHINE.

SPECIFICATION forming part of Letters Patent No. 731,834, dated June 23, 1903.

Application filed April 26, 1902. Serial No. 104,769. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK F. ANDERSON, a citizen of the United States, and a resident of the borough of Manhattan, in the county of New York, city and State of New York, have invented certain new and useful Improvements in Type-Writing Machines, of which the following is a specification.

My invention relates particularly to the platen-roller; and its objects are, among others, to provide means whereby the said platen may be maintained in an elastic condition and enabled to better act in conjunction with the types to cause a clear impression to be made upon the paper. It consists of the combination of parts and arrangement of details hereinafter described and claimed, and illustrated in the accompanying drawings referred to herein.

In the said drawings, Figure 1 is a side view of a platen-cylinder embodying my improvements. Fig. 2 consists of detail views of the disks secured to the ends of said cylinder. Fig. 3 is a vertical longitudinal section of the cylinder with the central portion cut away. Fig. 4 is a like view of the inside cylinder cap and plug.

The ends of the cylinder are provided with central conical recesses adapted to receive suitable projections on the carriage, whereby it is rotatably mounted thereon. These recesses D' F' are located in the plug D and ratchet-disk F , respectively.

The outer layer A of the cylinder is composed of rubber or other suitable composition which will present an elastic yet firm resistance to the impact of the types. The ends of this outer layer are rabbeted and enter annular grooves c^2 on the inner sides of the caps C and C' .

A series of annular grooves or recesses A' are located on the interior of the outer layer. These grooves are filled ground sponge, felt, or other absorbent material, which forms a coating E , covering the entire inner surfaces of the outer layer A . The inner cylinder B is provided with perforations B' , communicating from the interior thereof with the absorbent material E . The ends of this inner cylinder are interiorly threaded and receive the exteriorly-threaded inner portions c^3 of the caps C and C' .

Into the opening c^4 of the cap C the plug D is threaded. This plug is provided with an enlarged head, so that it may be easily removed and replaced, when desired. The object of the removable plug D is to admit of the injection of a suitable softening liquid into the interior of the cylinder, so that it may pass through the perforations of the inner cylinder D and saturate the absorbent coating E in the interior of the outer layer A . In this manner it will be seen that the original elasticity of the platen may be maintained for a considerable period through the application of the softening fluid.

The ratchet-disk F is secured to the cap C' by the screw-bolts F^2 or other suitable means.

What I claim is—

1. In a platen-roll for type-writing machines, the combination of an outer elastic layer and an inner absorbent layer, an opening in the end of said platen, a removable plug in said opening and a conical recess in the outer end of said plug.

2. In a platen, the combination of an outer layer of elastic material, an inner layer of absorbent substance; the inner surfaces of the said outer layer being provided with a plurality of recesses into which the said absorbent substance enters, an opening in the end of said platen and a removable plug in said opening.

3. In a platen-cylinder, the combination of an outer elastic layer, an inner rigid cylinder, caps closing the ends of said cylinder, annular grooves in said caps and projecting portions of the said outer layer held within the said annular grooves.

4. In a platen, the combination of an outer elastic layer, an inner metallic cylinder, absorbent substance interposed between, a cap closing the ends of said inner cylinder, a removable plug in said cap and perforations in the said inner cylinder, whereby a softening substance may be applied to the said absorbent material.

Witness my hand, this 25th day of April, 1902, at the city of New York, county and State of New York.

FREDERICK F. ANDERSON.

Witnesses:

HERMAN MEYER,
ERNEST H. BOISE.