

H. S. MOYER.

RIBBON BOLT.

APPLICATION FILED JULY 31, 1908.

959,781.

Patented May 31, 1910.

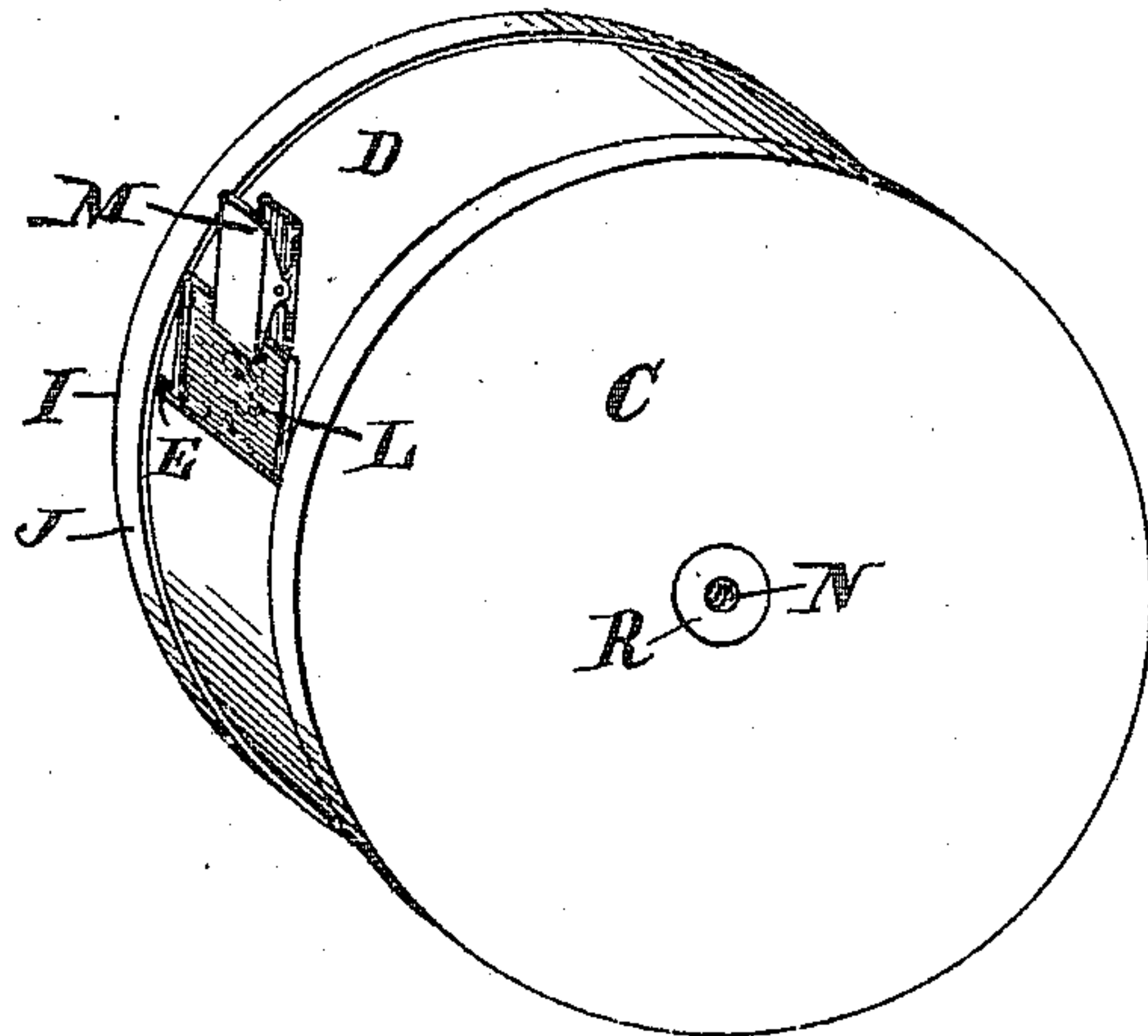


FIG. 1

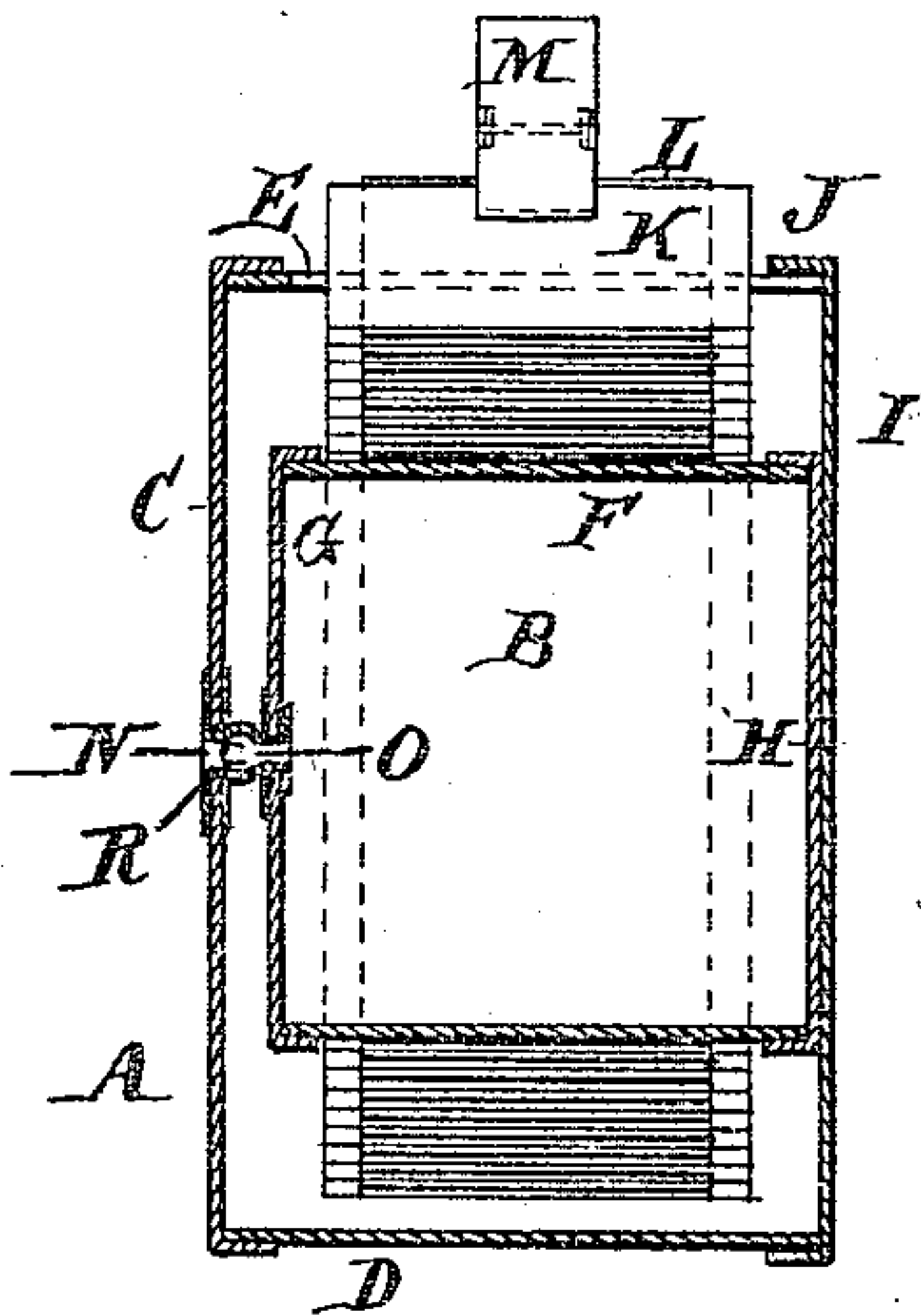


FIG. 2

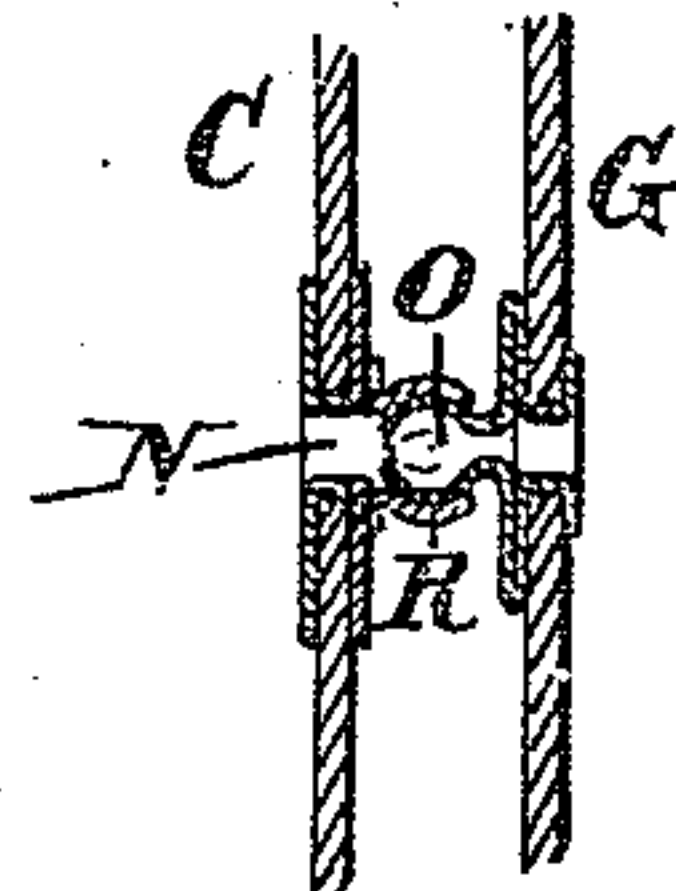


FIG. 4

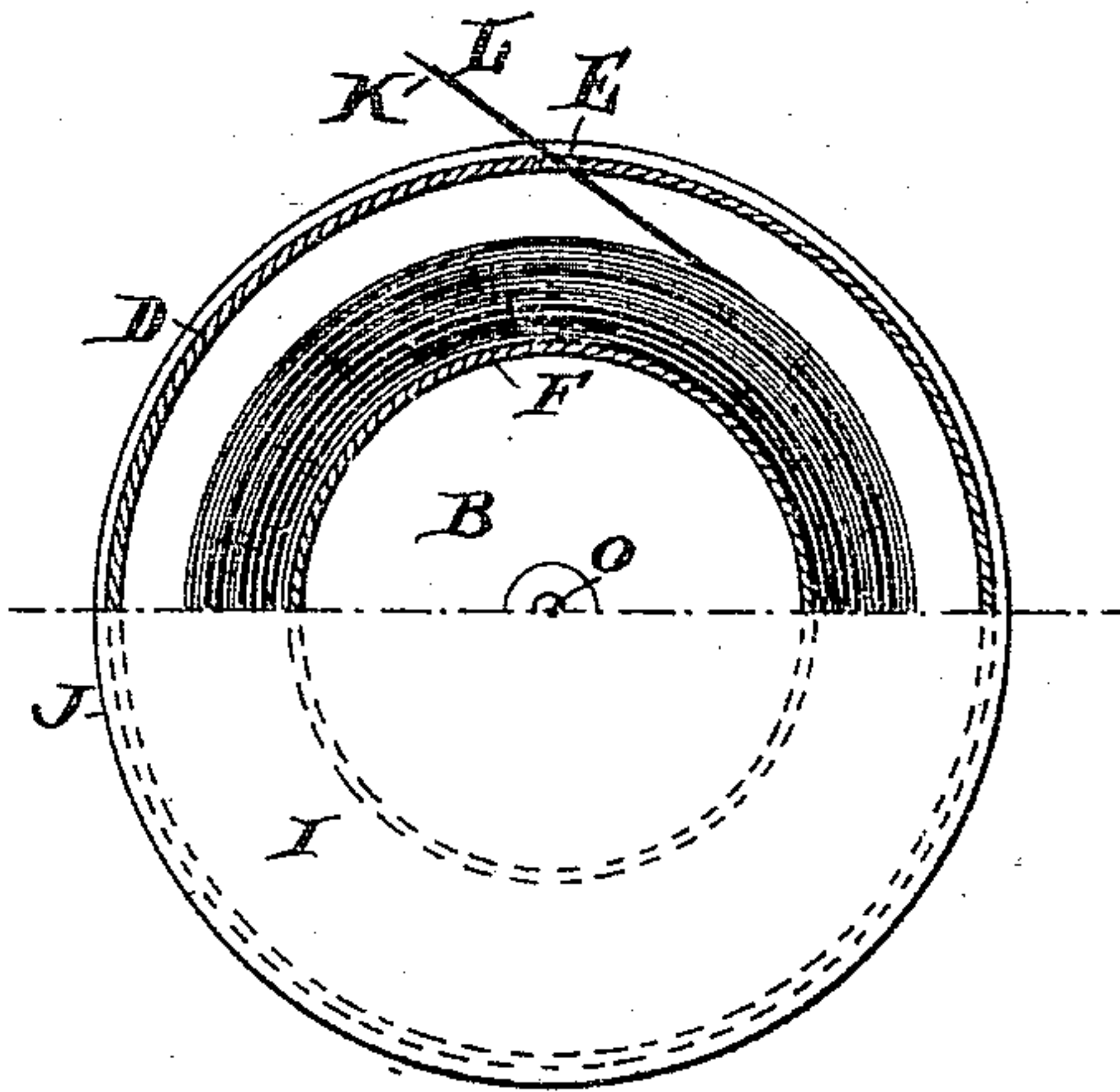


FIG. 3

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UNITED STATES PATENT OFFICE.

HARVEY S. MOYER, OF LANSDALE, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO
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RIBBON-BOLT.

959,781.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HARVEY S. MOYER, a citizen of the United States, and resident of Lansdale, Montgomery county, State of Pennsylvania, have invented an Improvement in Ribbon-Bolts, of which the following is a specification.

My invention has reference to ribbon bolts, and consists of certain improvements which are fully set forth in the following specification and shown in the accompanying drawings which form a part thereof.

The object of my invention is to provide a construction of ribbon bolt which will completely shield or protect the ribbon by forming a case around it and at the same time permit the ribbon to be drawn out or rewound, at will.

My invention consists of a drum upon which the ribbon is wound, combined with a slotted case within which the drum is arranged and axially connected, and whereby the ribbon may be withdrawn through the slot in the case and at the same time cause the drum to be rotated; my invention further consists in providing the drum at one end with a flanged head which fits over the open end of the case and guided thereon, and at the other end with a detachable axial connection with the closed end of the case, whereby the drum may be withdrawn when desired but is normally held in detachable relation with the case.

My invention also comprehends details of construction which, together with the features above specified, will be better understood by reference to the drawings, in which:

Figure 1 is a perspective view of a ribbon bolt embodying my invention; Fig. 2 is a sectional elevation of the same; Fig. 3 is a side elevation with part in section; and Fig. 4 is an enlarged view of a portion of Fig. 2 showing the detachable pivot connection.

A is the outer case and B is the drum upon which the paper and ribbon are wound. The case A is formed of a solid flanged head C having a tubular body D having the slot E, preferably extending to the lateral edge of the body. The drum part B consists of a cylindrical body F having heads G and H, and secured to the latter is a flanged head I, whose flange J fits over the body part D and by which the drum B is centered within the case. The ribbon L and

paper strip or web K are wound upon the drum and the free ends of said parts are extended through the slot E.

The end G of the drum may have its center provided with a head R which is adapted to engage and interlock with a socket O secured to the head C of the case A. These parts R and O constitute a detachable axial interlock, acting as a pivot for the drum and also as an interlock to detachably secure the drum to the case. The center of the socket O is open as at N through which a pin or point of a lead pencil or other means may be thrust when it is desired to detach the drum. Any other means for attaching the case and drum together may be employed in place of the means above described.

By the employment of the construction above described, it is evident that the drum B may be freely revolved within the case A by holding the latter in one hand and grasping the flanged head I of the drum B in the other hand, the drum B being axially journaled at one end by the detachable interlocking parts O, R, and at the other end by the flange J of the head I fitting over the outer end of the cylindrical part D of the case A.

There is formed between the case and the drum an annular space sufficient to receive the ribbon L and paper web K, upon which it is laid when rolled tightly upon the drum, as clearly indicated in Figs. 2 and 3. The end of the ribbon is extended through the slot E in the cylindrical part D of the case A and may be grasped and any desired length of the ribbon withdrawn from the case, as may be required. Should more than sufficient be withdrawn, both it and the paper strip with which it is associated may be rewound upon the drum by revolving the head I, as before stated. In this manner the ribbon may be protected within the case both during shipment and when on exhibition in the stores.

To prevent the free ends of the ribbon and paper from being unintentionally withdrawn into the case, any suitable means may be detachably connected to the free ends and for this purpose I prefer a small spring clamp, such as indicated at M, for example. The employment of this clamp will constitute an obstruction when it reaches the slot E and prevent further winding of the ribbon within the case.

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The slot E in the case A is preferably extended forward to the free end adjacent to the head I, so that the ribbon may be readily inserted when introducing the drum and its contents within the case, but it is not essential that this slot shall be of greater length through the cylindrical part D than is sufficient to allow the ribbon and paper to be threaded therethrough.

10 In practice I form my improved bolt with the exception of the clamp M and the detachable interlock O, R, of card board so that it is light and clean and free from deterioration by lapse of time. It is, however, 15 evident that the structure may be made of any other suitable material, such as light sheet metal if so desired.

The general construction of my ribbon bolt embodies two parts which are detach- 20 able axially and in which there are means on one part for supporting the ribbon in a wound condition and means on the other part for guiding the ribbon, and while I have shown the construction of such parts as I prefer to make them for commercial 25 use, I do not restrict myself to the details thereof, as they may be varied without departing from the spirit of the invention.

Having now described my invention, what 30 I claim as new and desire to secure by Letters Patent, is:

1. In a ribbon bolt, the combination of a hollow drum of card-board upon which the ribbon is rolled having at one end a flanged 35 head of approximately the diameter of the drum and at the other end having a flanged head of a diameter greatly in excess of the diameter of the drum, a case of larger diameter than the drum closed at one end and its 40 open end adjustably fitting the large flanged head of the drum and also having a slot for the passage of the ribbon, means independent of the structure of the drum for detachably locking the drum and case together consisting of a snap socket piece on 45 the center of the closed end of the case, and a headed stud on the center of the drum and of greatly less diameter than it adapted to snap into the socket piece, and the ribbon 50 rolled upon the drum and having its end arranged through the slot in the case.

2. In a ribbon bolt, the combination of a sheet material drum for the ribbon having a flanged head of large diameter, a cylindrical 55 box-shaped case of sheet material and of

greater depth than the depth of the drum for inclosing the drum and having its open end adjustably fitted to the flanged head and also having its cylindrical body slotted from the open end inward for the ribbon, 60 and a clamping pivot independent of the drum and case between the center of the drum and the center of the closed end of the cylindrical case for centering them relatively to each other and detachably holding 65 them together.

3. In a ribbon bolt, the combination of a cylindrical slotted case open at one end and formed of a stamped sheet with an annular flange within which is secured the slotted 70 case, a ribbon supporting hollow drum of sheet material journaled within the case and having a flanged head of large diameter fitting over the open end of the cylindrical case, means for detachably locking the case 75 and hollow drum together while permitting of the rotation of the drum portion, and a ribbon wound upon the drum and having its end extended through the slot in the case.

4. In a ribbon bolt, the combination of a 80 drum upon which the ribbon is rolled formed of flanged heads with a tubular interposed body and a flanged head of large diameter secured to one end of the said drum, a case of larger diameter than the 85 drum closed at one end and its open end adjustably fitting the large flanged head of the drum and also having a slot for the passage of the ribbon extending beyond the flange, means for detachably locking the 90 adjacent head of the drum and closed end of the case together, and the ribbon rolled upon the drum and having its end arranged through the slot in the case.

5. A ribbon support consisting of a case 95 formed of a cylindrical slotted body of card-board closed at one end by a cardboard flanged head, combined with a cylindrical drum of smaller diameter than the body and having at one end a large flanged head 100 of card-board the flange of which fits over the open end of the cylindrical slotted body, whereby the drum is centrally supported and may be rotated.

In testimony of which invention, I have 105 hereunto set my hand.

HARVEY S. MOYER.

Witnesses:

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