No. 824,230. PATENTED JUNE 26, 1906.

J. M. BERRY.

CURTAIN ROLLER CAP.

APPLICATION FILED MAY 4, 1905.

Fig. 1.

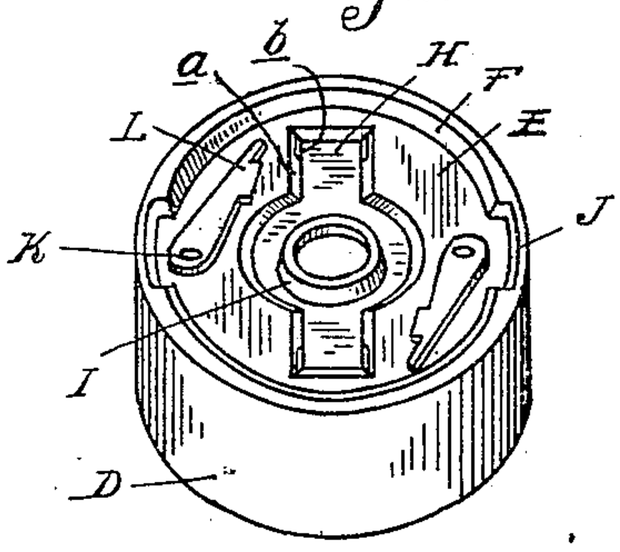


Fig. 2.

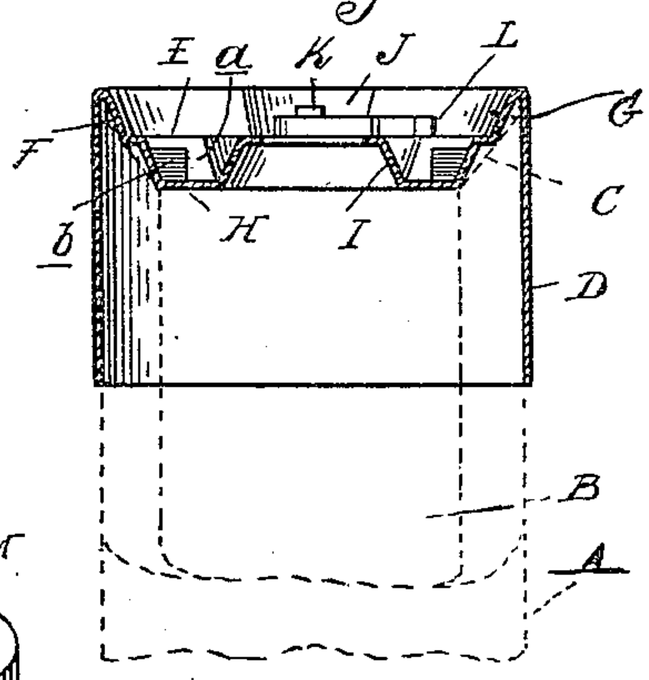
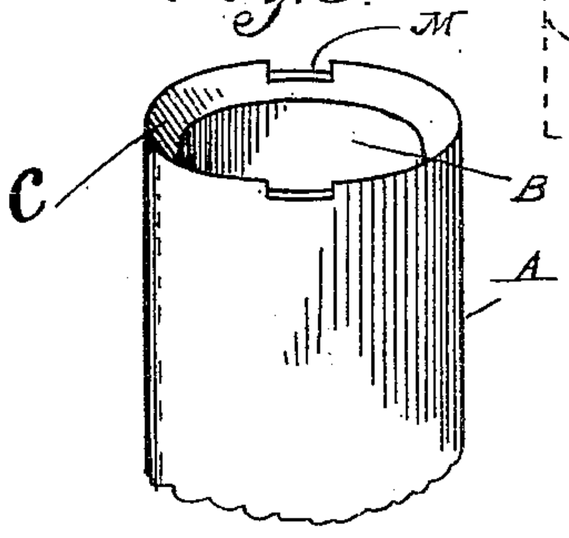


Fig. 3.



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UNITED STATES PATENT OFFICE.

JAMES M. BERRY, OF DETROIT, MICHIGAN.

CURTAIN-ROLLER CAP.

No. 824,230. Specification of Letters Patent. Patented June 26, 1906.

Application filed May 4, 1905. Serial No. 258,811.

To all whom it may concern:

Be it known that I, JAMES M. BERRY, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Curtain-Roller Caps, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to improvements in curtain-fixtures; and it consists particularly in the construction of the cap at the end of the roller which carries the pawls whereby the device is simplified, cheapened, and whereby a better connection is effected between the wooden roller and the cap, as more fully hereinafter described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of an improved cap embodying my invention. Fig. 2 is a vertical central section therethrough, showing the same applied to the wooden roller; and Fig. 3 is a perspective view of the end of the roller.

I have not deemed it necessary in this application to show the spindle, spring, and notched hub that are ordinarily employed, as they may be of known and usual construction, and my invention relates only to the cap and the means of forming the end of the roller.

A represents the usual roller, having a spring and a shaft (not shown) in the chamber B therein, as usual. It is customary in making these rollers to have the ends square and to abut the face-plate of the cap against this end. In this way the pawls project beyond the ends of the roller, and as the cap is secured in position by a small tack or nail the device is not satisfactorily retained in position. In my construction I form, preferably, a projection C, which may be and preferably is, as shown in Fig. 3, a tapering projection at the end of the roller.

D is the cylindrical or body portion of the cap. E is the end or disk portion thereof.

F is an inwardly-extending wall joining the end of the cylindrical portion D with the disk portion E and forming around the disk portion an annular chamber G, in which the extension C of the roller fits, so that the roller will project into this recess to or beyond the plane of the support for the walls, and thus much more firmly hold the cap in position with the usual inadequate means employed in such devices.

I preferably form in the disk portion E the inwardly-extending ribs H, formed by depressing the sheet metal, as clearly shown in Figs. 1 and 2, and these may be connected by extending them around the central hub I for convenience in manufacture. Near the outer ends I preferably perforate the side walls *a* of these ribs, as shown at *b*, so that the end of the spring (not shown) may be engaged through these apertures and locked in position. I also preferably form in the inwardly-extending wall F the oppositely-arranged notched portions J, these being for the purpose of giving the necessary room on the disk E for the pivot-pins K and pawls L. Inasmuch as these notched portions are in the wall F, they will partly close up the annular chamber G at this point, and I therefore when they are employed form the notches M in the extension C of the roller, and when the parts are engaged they will assist in holding the cap on the end of the roller against rotary motion.

What I claim as my invention is—

1. The combination with a curtain-roller, having a notched extension C at its hollow end, an integral cap therefor comprising a cylindrical body portion, a disk or end plate, and an inwardly-extending notched wall forming an annular chamber around the disk, into which the extension C of the roller projects, the notches on said extension C fitting the notches in the wall.

2. A cap for a curtain-roller comprising a cylindrical body, a disk or end plate, and a connecting-wall between the two forming an annular chamber around the disk, the oppositely-arranged notched or indented portions in the connecting-wall, and the pawls pivoted at these points to the end plate.

3. In a cap for curtain-fixtures, the cylindrical body portion, the end plate or disk, and apertured depressed ribs connected by an annular depressed portion in the plane of said ribs, for the purpose described.

4. In a cap for curtain-fixtures, the cylindrical body portion, the end plate or disk, and trough-shaped apertured ribs struck from the end plate or disk, for the purpose described.

5. The combination of a curtain-roller of substantially uniform external diameter recessed at one end and provided with a tapered annular wall surrounding said recess, of an integral sheet-metal cap comprising a cylindrical body portion, an end plate below

the body-top, and an inclined wall connecting the two and forming in connection with the body a tapered annular chamber adapted to receive and frictionally engage with the tapered end of the roller.

6. In a curtain-roller, the combination with a sheet-metal cap comprising a cylindrical body, a depressed disk or end plate and an inclined wall connecting the two and forming with the body portion a tapered annular chamber, of a roller of uniform external diameter having a depressed circular portion at one end surrounded by a tapered annular rim adapted to fit said chamber and frictionally held therein.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES M. BERRY.

Witnesses:
AMELIA WILLIAMS,
EDWARD D. AULT.