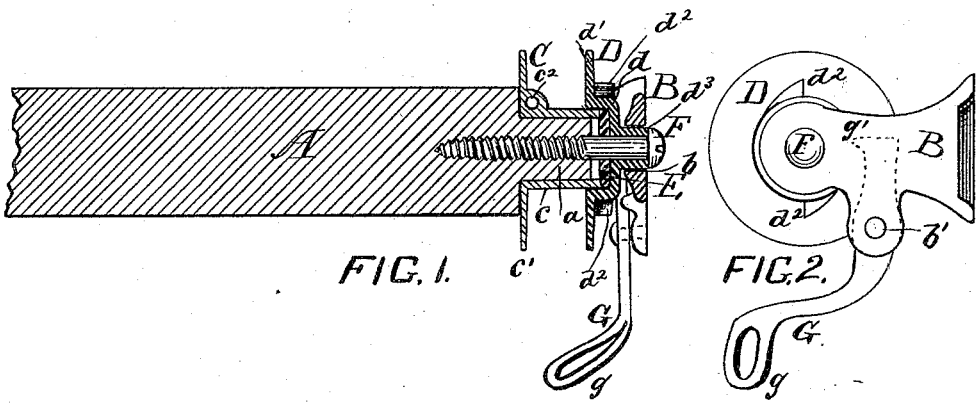
(No Model.)

# J. C. MAYER.

## CURTAIN FIXTURE.

No. 344,846. Patented July 6, 1886.

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# UNITED STATES PATENT OFFICE.

JULIUS C. MAYER, OF CLEVELAND, OHIO.

## CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 344,846, dated July 6, 1886.

Application filed October 31, 1885. Serial No. 181,491. (No model.)

*To all whom it may concern:*

Be it known that I, JULIUS C. MAYER, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Curtain-Fixtures; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to that class of curtain-fixtures in which the operating-cord winds upon a spool secured to the curtain-roller and leads through an eye in a lever-pawl in such manner that when the cord is manipulated to raise the curtain it will force the lever-pawl out of engagement with a ratchet rigid with the roller, and when the cord is released the pawl will gravitate into engagement to hold the roller against backward movement.

The object of the invention is to simplify the construction of the metal working parts and to modify their arrangement with relation to each other and their adaptation to the work, as will be more fully hereinafter set forth, and specifically pointed out in the claims.

I form the spool and ratchet of two simple castings peculiarly adapted to each other, and upon the outer of these castings I form the journal-seat of the pawl-supporting bracket.

The drawings which accompany this specification and form a part thereof fully illustrate the essential features of the invention.

Figure 1 is a central section, and Fig. 2 an end elevation.

Referring to said drawings, A designates an ordinary curtain-roller, and C a flanged casting secured thereto. This casting consists, essentially, of a barrel, $c$, a flange, $c'$, and a cord-engaging eye, $c^2$. It is fitted neatly on a tenon, $a$, of the roller.

D designates a flanged casting, having a recessed portion, $d$, which fits snugly over the barrel $c$ of the casting C, and an outwardly-extending flange, $d'$, which forms the outer flange of the cord-holding spool. The recessed portion $d$ forms a cup-shaped projection upon the casting D, and upon the periphery of this part I form two or more teeth, $d^2$. Upon the central portion of this part $d$, I form a boss or journal, $d^3$, which is tubular to receive the screw F, and between the inner surface of the part $d$ and the end of the roller and casting I place a flexible wad or packing, E. The part $d^3$ forms a journal, which works loosely in a bearing, $b$, formed in a bracket, B, and at $b'$ to this casting B, I pivot the lever-pawl G, having an eye, $g$, at one end, through which the curtain-cord passes, and a tooth, $g'$, at the other end, which engages the ratchets $d^2$. The arm of the pawl G which lies below the pivot $b'$ is heavier than the upper arm, and when the cord (not shown) is not under tension this arm by its gravity insures the engagement of the tooth $g'$ with the ratchets $d^2$.

The device is simply and cheaply made, readily placed in position, and not liable to get out of order.

The several parts work together efficiently for a useful purpose.

While I have described the parts as castings, they may be struck up or otherwise constructed without departing from the principle or sacrificing the advantages of the invention, the essential features of which will be readily understood.

I am aware that in curtain-fixtures one head of the drum has been formed of a flat ratchet-disk, which bears fairly against the outer end of the barrel and is secured by a central spindle. In my device the corresponding disk, D, is recessed to receive the end of the barrel, and carries a packing, while a boss formed on the outer face serves as a journal, the disk being secured to the roller by a central screw.

What I claim as new is—

1. In a curtain-fixture, the spool formed of the parts C D, matched together as shown, and the latter formed with recess $d$, ratchets

$d^2$, and boss $d^3$, which forms the bracket-journal, combined with the pawl G, packing E, roller A, and screw F, as set forth.

2. The curtain-fixture described, consisting of the casting C, having flange $c'$, barrel $c$, and eye $c^2$, the part D, having recess $d$, flange $d'$, ratchets $d^2$, and tubular journal $d^3$, the packing E, screw F, pawl G $g$ $g'$, and bracket B, all arranged for joint operation with a roller and cord, as set forth.

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

JULIUS C. MAYER.

Witnesses:

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THEODORE M. BATES.