Jan. 22, 1929. 1,699,555

O. WILLIAMS

CURTAIN FIXTURE

Filed March 23, 1925

FIG. 1.

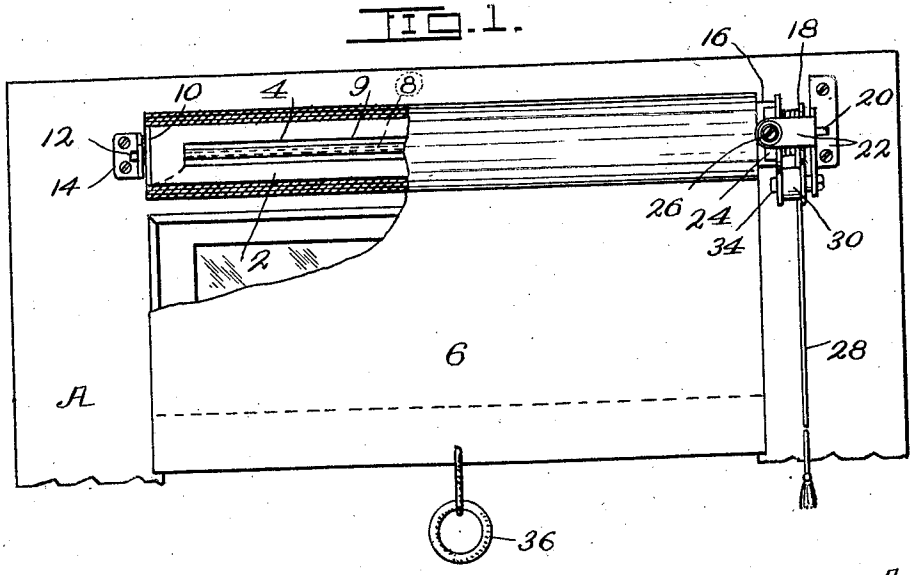


FIG. 2.

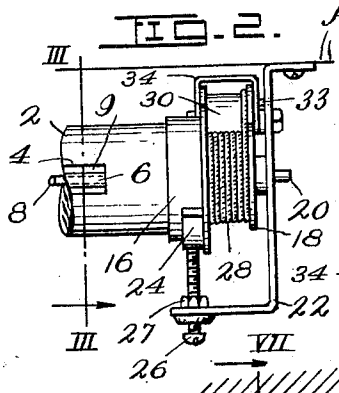


FIG. 3.

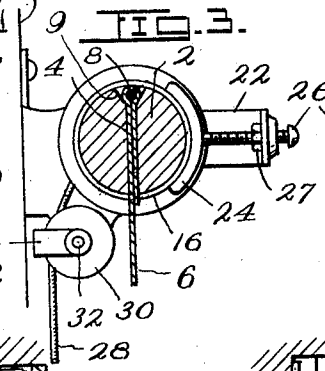


FIG. 4.

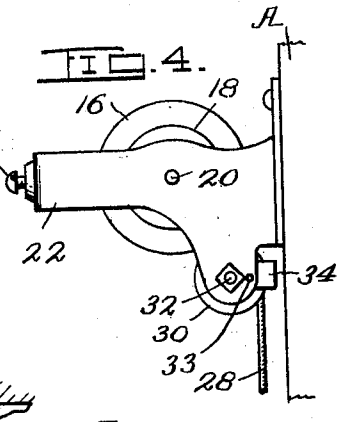


FIG. 5.

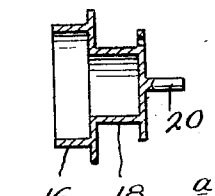


FIG. 6.

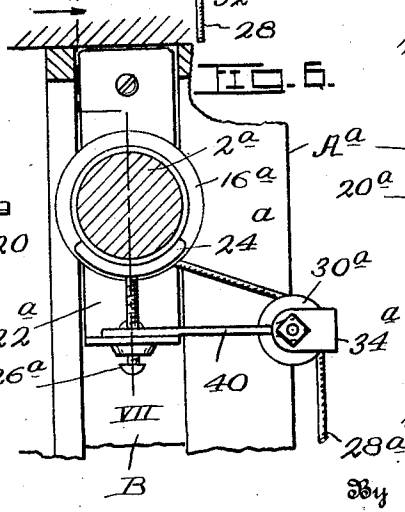
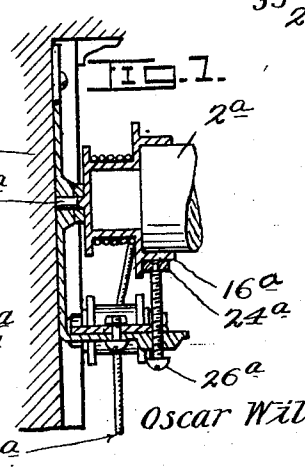


FIG. 7.



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UNITED STATES PATENT OFFICE.

OSCAR WILLIAMS, OF KANSAS CITY, MISSOURI.

CURTAIN FIXTURE.

Application filed March 23, 1925. Serial No. 17,783.

My invention relates to improvements in curtain fixtures, and one object is to provide a simple and efficient mechanism whereby the curtain may be rolled up without the use of the conventional roller spring.

A further object is to provide frictional brake means at one end of the curtain roller to prevent the same from rotating under the weight of the curtain.

Another object is to provide simple means for detachably connecting the curtain to the roller, so that tacks and other fastening means which damage the curtain may be dispensed with.

Other features will hereinafter appear and in order that the invention may be fully understood reference will now be had to the accompanying drawing, in which:

Fig. 1 is a front elevation of the curtain fixture in position on a curtain roller and a window frame.

Fig. 2 is an enlarged plan view of the curtain fixture with a portion of the curtain roller broken away.

Fig. 3 is a cross section on line III—III of Fig. 2.

Fig. 4 is a side elevation of the curtain fixture.

Fig. 5 is a section of a brake wheel and a drum forming a part of the curtain fixture.

Fig. 6 is a side elevation of a modified form of curtain fixture with the roller in section.

Fig. 7 is an irregular section on line VII—VII of Fig. 6.

Referring in detail to the different parts, 2 designates a curtain roller having a longitudinal slit 4 to receive the upper end of the curtain 6, which is folded over a rod 8 which fits in the flaring mouth 9 of the slit 4 and detachably secures said curtain 6 to the roller 2.

One end of the roller 2 is provided with a fixedly mounted disk 10 having a trunnion 12 adapted to be mounted in a bracket 14 fixed to one side of the window frame A. The opposite end of the roller 2 is fixedly mounted in a brake wheel 16 provided with a drum 18 having a trunnion 20 adapted to fit within a bracket 22, fixed to the adjacent side of the window frame A.

24 designates a brake shoe for frictionally engaging the brake wheel 16 to prevent the curtain roller 2 from rotating under the weight of the curtain 6. The brake shoe 24 is adjusted into frictional engagement with the brake wheel 16 by a screw 26 threaded through the rectangular terminal 23 of an arm 21 projecting forwardly from the adjacent bracket 22 and secured at any point of its adjustment by a lock nut 27.

28 designates a suitable cord secured at its upper end to the drum 18 and running downwardly over a guide roller 30 mounted on a spindle 32 projecting from the adjacent portion of the bracket 22. A U-shaped guard 34 is mounted on the spindle 32 and fixed to the adjacent portion of the bracket 22 by a pin 33, so that it cannot swing downwardly and clamp the cord 28 against said guide roller 30. Said guard 34 extends around that portion of the guide roller 30 over which the cord 28 runs and thus holds the same on said guide roller.

When the parts are assembled and in operative position as disclosed more particularly by Fig. 1, the curtain 6 may be unrolled from the curtain roller 2 by pulling downwardly upon a ring 36 attached to the lower portion of said curtain 6. As the curtain 6 is pulled downwardly the cord 28 is wound upon the drum 18. Hence when the curtain 6 is to be raised or wound upon the roller 2 it is only necessary to pull downwardly upon said cord 28.

In the form disclosed by Figs. 6 and 7, the parts are constructed and arranged in substantially the same manner as the parts disclosed by Figs. 1 to 5, inclusive, the main difference being that the brackets 22^a are mounted in the upper part of the lower sash slideways B of the window frame A^a, instead of on the face of said window frame, while the guide roller 30^a is mounted on an arm 40 projecting from the adjacent bracket 22^a in order to support the pendant portion of the cord 28^a close to the face of the frame A^a, where it can be easily grasped. In other respects the parts are similar to the preferred form as evidenced by corresponding reference characters with exponents *a*.

From the foregoing description it is apparent that I have provided a curtain fixture embodying the advantages above pointed out, and while I have shown and described two forms of said fixture I reserve the right to all other changes and modifications as properly fall within the spirit and scope of the invention as claimed.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is:

In combination with a curtain roller and a bracket in which one end of said roller is

mounted, a tubular brake-wheel fixedly mounted upon one end of said roller, a hollow drum arranged in axial alinement with said brake wheel and formed integral therewith, an axial trunnion projecting from said drum, a bracket in which said trunnion is journaled and having its lower terminal bent at right angles to the main body of said bracket, a vertical screw threaded in said terminal, a brake-shoe mounted upon the upper terminal of said screw and held thereby in frictional contact with the brake-wheel, an arm projecting forwardly from the lower terminal of the last-mentioned bracket, a guide pulley mounted upon the forward end of said arm, and a cord wound upon the drum and running over said guide pulley.

In testimony whereof I affix my signature.

OSCAR WILLIAMS.