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W. E. MURRAY

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FILM REEL BAND

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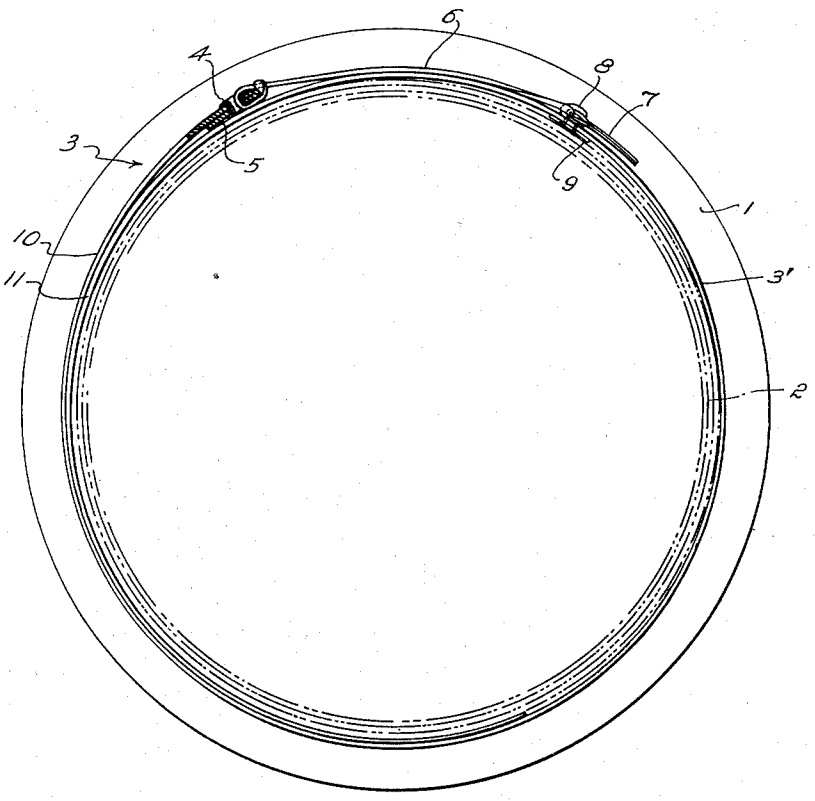


FIG. 1

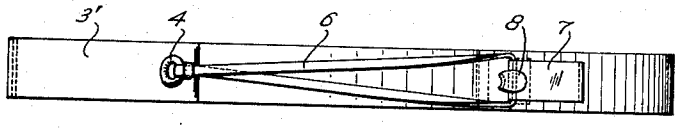


FIG. 2

William E. Murray
INVENTOR.

BY Alex. E. MacRae
Attorney.

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FILM REEL BAND

William E. Murray, Regina, Saskatchewan, Canada, assignor to General Films Limited, Regina, Saskatchewan, Canada, a corporation of Canada

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4 Claims. (Cl. 206—53)

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This invention relates to film reel bands such as are employed to prevent a film from unravelling from its reel.

Heretofore it has been the usual custom to hold film on its reel by means of a band having a string which is tied or looped about the band to hold it in place. Not only is the string awkward to apply but it has a tendency to become untied or to slip over the side of the film and drop between the film and the inner face of the reel, thus permitting the band to become loose. In such cases, the film may fall off the reel in shipping and become damaged.

Various attempts have been made to provide more efficient bands. However, such bands are usually subject to one or more disadvantages, such as costliness of production, insufficient security in use, and possibility of injury to the film.

An object of the present invention is to provide a film reel band which is inexpensive to produce, which may be readily and quickly applied, which is effective in properly maintaining the film on the reel under substantially all conditions of use, and which is non-injurious to the film.

The invention will be described with reference to the accompanying drawing, in which,

Figure 1 is a side elevation of a portion of a film reel, showing the band of the present invention in place thereon, and

Figure 2 is a plan view of the band.

In the drawing, 1 illustrates one of the side plates of a film reel of usual structure and 2 a roll of film thereon. The retaining band 3 comprises a strip 3' of heavy paper or like material such as is usually employed in the construction of such bands. An eyelet 4 of metal or the like is provided closely adjacent one end of the strip. A short portion of the strip is doubled back on itself, as indicated at 5, and the eyelet extends through such double ply portion of the strip, which constitutes a reinforced area surrounding the eyelet.

The band 3 is provided with a resilient section comprising a rubber strip 6 having one end anchored in the eyelet 4. The strip 6 may be an ordinary endless rubber band of commercial type. A band similar to a commercial No. 33 band is satisfactory for the purpose, such band being in unextended condition approximately three and one-half inches in length and one-eighth inch in width. The rubber band 6 may be conveniently anchored in the eyelet simply by looping it therethrough as shown.

Anchored to the other or free end of the resilient section 6 is a tab 7. Such tab may be

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formed integral with the band 6 or it may comprise a rubber strip which is looped through the end of the loop in rubber band 6, and then doubled upon itself with its abutting surfaces adhesively secured together.

Mounted in strip 3' intermediate the ends thereof is a hook 8, the shank of which extends through the strip 3' and is clinched on the under side thereof. Preferably, the mounting of the hook is reinforced by providing a double layer portion of strip 3' in the area of the hook. This is effected by applying a small piece 9 of heavy paper or the like to the under side of strip 3', the shank of the hook also extending through such piece 9.

The portion 10 of the band 3 between the hook 8 and eyelet 4 has a length somewhat less than the general range of circumferences of the film rolls to which the band is to be applied. The remaining portion 11 of the band 3 between the hook 8 and the other or free end of the band has a length preferably at least as great as the major section of the portion 10.

In use, the band is applied as indicated in the drawing, the tab 7 being readily engaged with the hook 8 to hold the band in place. The freely extending end of the tab is conveniently grasped by the operator to apply or release the tab with respect to the hook. Since the portion 10 of the band is always less than the circumference of the film roll, the resilient section 6 is always under tension on application to the roll and thus a retaining pressure is maintained on the roll to hold it rigidly in place. The resilient section 6 also accommodates the band to varying sizes of rolls. The portion 11 of the band always underlies, in use, the resilient section 6 and underlaps to a considerable extent the eyelet end of the band, thus affording adequate protection to the film. The end of the shank of hook 8 is embedded in member 9 and thus there are no projections on the underside of the band to cause injury to the film.

What is claimed is:

1. A film reel band comprising a major inextensible section and a minor elastic section secured to one end of the inextensible section, a tab secured to the free end of the elastic section, and a hook engageable by said tab and mounted in the inextensible section intermediate the ends thereof, the portion of said inextensible section extending from said hook to the other end thereof having a length greater than the normal length of said elastic section thereby to underlie the en-

tire elastic section when the band is mounted on a reel.

2. A film reel band comprising a non-elastic strip, an eyelet extending through an end portion of said strip, a rubber band having one end anchored in said eyelet, a tab secured to the other end of the rubber band, and a hook engageable by said tab and anchored in said strip intermediate the ends thereof, the portion of said strip extending from said hook to the other end thereof having a length considerably greater than the normal length of said rubber band thereby to underlie the entire rubber band when the reel band is mounted on a reel.

3. A film reel band as defined in claim 2 wherein said strip has a double layer section in the area of said eyelet and said hook for reinforcing purposes.

4. A film reel band as defined in claim 2 wherein said rubber band is of the endless type and is looped through said eyelet for anchoring thereto, and wherein said tab comprises a strip of rubber looped through the free end of said rubber band and doubled upon itself, the abutting faces of said rubber strip being adhesively secured together.

WILLIAM E. MURRAY.

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