M. G. DELANEY.

ADJUSTABLE FILM REEL.

APPLICATION FILED FEB. 21, 1914.

1,132,766. Patented Mar. 23, 1915.

Fig. 1.

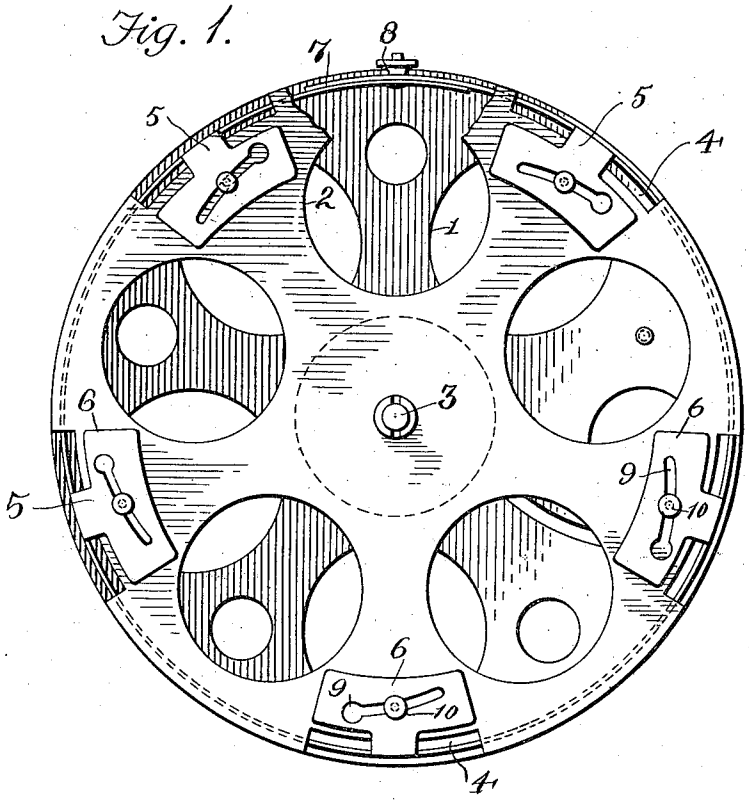
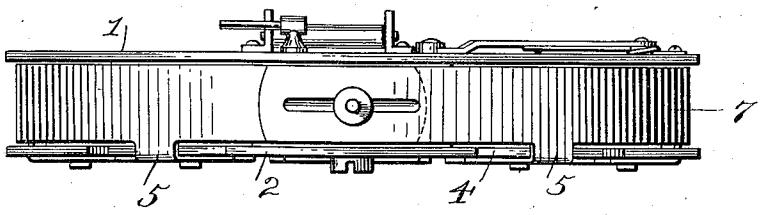


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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ADJUSTABLE FILM-REEL.

1,132,766. Specification of Letters Patent. Patented Mar. 23, 1915.

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To all whom it may concern:

Be it known that I, MICHAEL G. DELANEY, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Adjustable Film-Reels, of which the following is a specification, reference being had therein to the accompanying drawings.

In the use of films on the reels of moving picture machines, it frequently happens that because of the different lengths of the films, the reels are not fully loaded and if the ordinary rim cover is used, the film becomes loose and shifts while the reel is in shipment, frequently to the detriment of the film.

This invention relates to a reel for picture films having an adjustable casing or cover whereby it may be rapidly and quickly contracted or expanded to suit particular requirements of service and whereby the film when closely secured thereon is rigidly held without the possibility of unwinding or kinking.

The invention consists in the matters hereinafter more fully set forth and more particularly pointed out in the appended claims.

In the drawings: Figure 1 is a view partially in side elevation and partially broken away and in section of a form of reel that embodies features of the invention, and, Fig. 2 is a view of the rim thereof.

Referring to the drawings, a circular plate 1 and corresponding plate 2 are held in spaced relation on a journal 3 or shaft so as to be operatively-mounted in the magazine holder or casing of a projecting machine. The method of securing the parts together is not *per se* of this invention and it is suitable for either standard reels or reels that are provided with both side and center delivery openings. The plate 2 has marginal recesses indicated at 14 at regular intervals around its periphery in which the tongues 5 of guide lugs 6 are free to play. The inner ends of the tongues are secured to or integrally formed on the margin of a spring band 7 whose end portions overlap and are slotted to be adjustably-secured as by a thumb screw 8 or the like. The lugs 6 have sliding engagement against the plate 2 and are provided with curved obliquely-disposed slots 9 in which headed studs or pins 10 of the adjacent plate have sliding engagement. The slots are enlarged at corresponding ends to permit the withdrawal over the heads of the studs. Because of the disposition of the spring band between the plates, it may be contracted or expanded as desired by loosening the thumb nut, so as to closely encircle a film that is rolled upon the reel regardless of whether the reel is completely filled or not. This makes the device particularly adaptable for shipping purposes as it prevents any chafing or wearing of the film which would occur of the film were not held closely wrapped about the journal of the reel.

Obviously, changes in the details of construction may be made without departing from the spirit of the invention, and I do not care to limit myself to any particular form and arrangement of parts except as set forth in the appended claims.

I claim as my invention:—

1. A film reel having side plates in spaced relation, a spring rim with overlapped ends lying between the marginal portions of the plate, means for securing the overlapping ends in adjusted relation, and lateral extensions on the rim in adjustably interlocked relation with one of the plates with one of the sides.

2. In a film reel having side plates in spaced relation, a collapsible rim lying between the plates, extensions integrally formed on the rim in sliding interlocked relation with one of the plates, the end portions of the rim lying in overlapped relation, and means for securing the overlapped ends in adjusted position, the connections between the extensions and contiguous plate maintaining the rim in substantially concentric position.

3. In a film reel having side plates in spaced relation, a collapsible rim with overlapped ends that lies between the marginal portions of the plate, lateral extensions on the rim loosely-engaging marginal recesses in one of the side plates and having sliding engagement with the face of the plate, means on the latter plate detachably securing the plate and contiguous portions of the rim, and means for securing the overlapped ends in adjusted relation.

4. A film reel having a pair of side plates in spaced relation, studs on one of the plates, a collapsible rim with overlapped portions

that lies between the plates, extensions of the rim bent to have sliding engagement with the face of the plate and provided with oblique slots engaged by the studs, and means for securing the overlapping end portions in adjusted relation.

5. In a film reel having side plates in spaced relation, a collapsible rim of spring material having overlapped slotted end portions, means engaging the slotted end portions for securing them in adjustable relation, lateral extensions of the rim bent to bear against a face of one of the plates with which they have sliding engagement, and projections on the plate interlocking with guide slots on the extensions for defining the motion of the rim and maintaining it substantially in concentric relation in the reel.

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

MICHAEL G. DELANEY.

Witnesses:
OTTO F. BARTHEL,
C. R. STICKNEY.