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J. M. GORDON

2,339,009

FILM REEL

Filed March 27, 1943

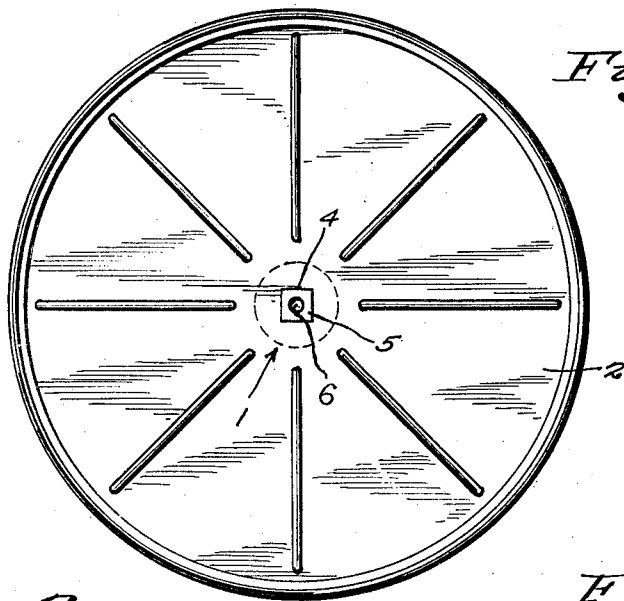


Fig. 1.

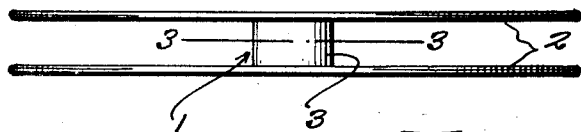


Fig. 2.

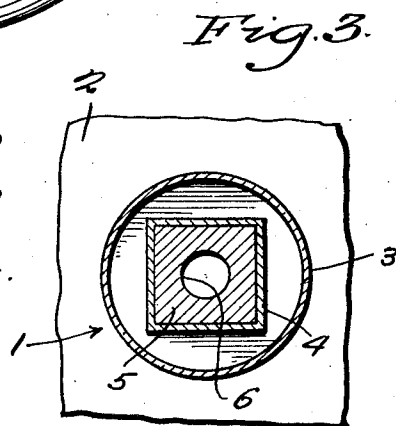


Fig. 3.

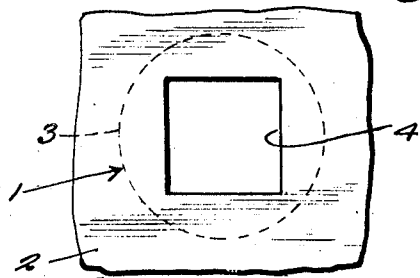


Fig. 4.

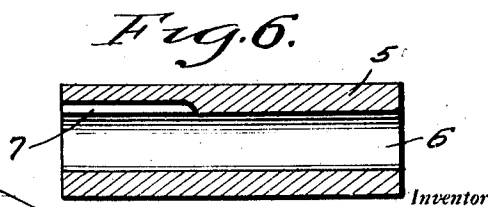


Fig. 5.

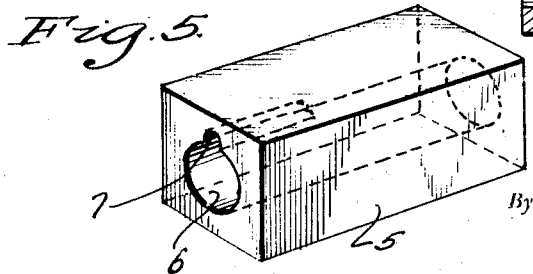


Fig. 6.

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UNITED STATES PATENT OFFICE

2,339,009

FILM REEL

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Application March 27, 1943, Serial No. 480,809

1 Claim. (Cl. 242—70)

This invention pertains to new and useful improvements in motion picture film reels, and has for its principal object to provide a device of this character embodying a novel hub construction including a bearing which is removable for the accommodation of a carrier, such, for example, as that constituting the subject matter of my co-pending application Serial Number 480,808, entitled "Reel carrier," filed on even date.

Other objects of the invention are to provide a film reel hub of relatively simple construction, which will be strong, durable, compact, and which may be manufactured at reasonable cost.

The foregoing and other objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a view in side elevation of a motion picture film reel embodying a hub constructed in accordance with the present invention.

Figure 2 is a view in edge elevation of the reel.

Figure 3 is a cross-sectional view through the hub, taken substantially on the line 2—3 of Figure 2.

Figure 4 is a view in side elevation of the hub with the bearing or bushing removed.

Figure 5 is a perspective view of the removable bearing or bushing.

Figure 6 is a view in longitudinal section through the bearing or bushing.

Referring to the drawing in detail, it will be observed that reference numeral 1 designates generally a hub structure. Circular metallic heads 2 are mounted on the hub structure 1.

The hub structure 1 includes a drum 3 having extending therethrough a tube 4 of square cross-section.

The tube 4 is open at its ends for slidably receiving a removable bearing 5. The bearing 5 is also square in cross-section to conform to the tube 4. The bore 6 of the bearing 5 has extending longitudinally thereinto from one end thereof a way 7 for the reception of the usual key or the like on the shaft in the lower film magazine of a projecting machine.

It will thus be seen that a reel has been provided wherein a portion of the hub may be expeditiously removed to facilitate the insertion of a carrying device. The invention contemplates the use of the hub structure in reels which are adapted to be shipped as containers in stacks of two or more secured together by the aforementioned carrying device. A number of the bearings 5 may be kept in the projection room to be inserted in the reels when they are to be used.

It is thought that the many advantages of a film reel comprising a hub structure embodying the present invention will be readily understood, and although a preferred embodiment is as illustrated and described, it is to be understood that changes in the details of construction may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

A film reel of the character described comprising a hub, heads mounted on the ends of said hub, the hub including a drum, a tube of square cross-section extending longitudinally through the drum, said tube being open at its ends, and a removable bearing of square cross-section slidably insertible in the tube, the bore of said bearing having a longitudinal way extending thereinto from one end thereof.

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