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FILM MAGAZINES AND CONTAINERS

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Serial No.
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Fig. 1

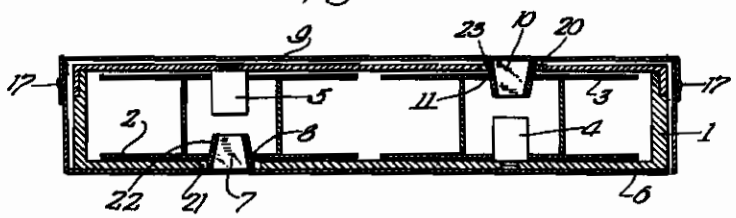


Fig. 2

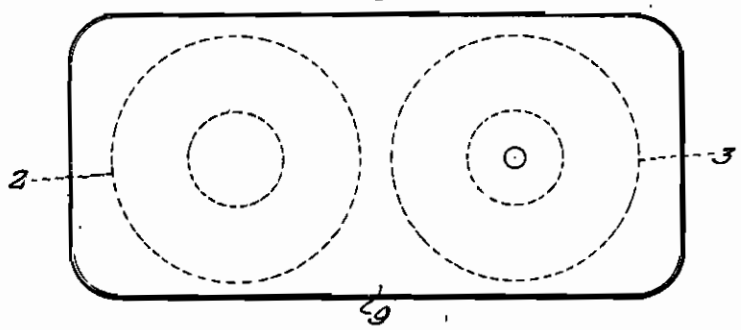


Fig. 3

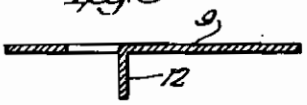


Fig. 5

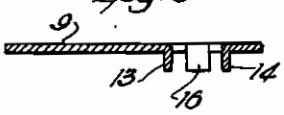


Fig. 4

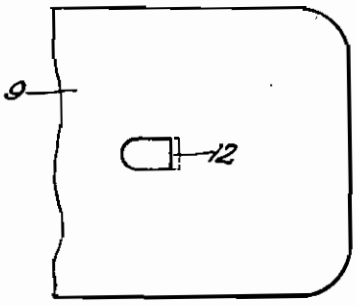
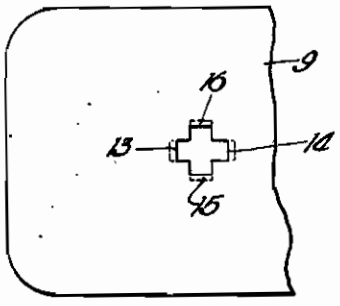


Fig. 6



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ALIEN PROPERTY CUSTODIAN

FILM MAGAZINES AND CONTAINERS

Rudolf Taesler, Dresden-A, Germany; vested in the Alien Property Custodian

Application filed June 16, 1939

This invention relates to improvements in film magazines and containers.

An object of the invention is to provide a film magazine in which the film coiled on the reel is prevented from loosening these coils during storage or transportation of the magazine.

Another object of the invention is to provide a film magazine with a storage casing for the magazine and to maintain in association with the storage casing means for preventing the film reeled up in the magazine from changing its position on the reel.

It is an object of the invention to provide a film magazine with means for preventing the coils of the film on the reel from loosening themselves during storage or transportation, while at the same time maintaining the volume or interior space of the magazine of about the same order as that interior space of a magazine in which no such means are provided.

It is another object of the invention to provide in association with the outer casing of a film magazine means for entering the film magazine and to apply friction enhancing material on said entering means.

Another object of the invention is to provide in association with an outer casing for a film magazine means which extend into the interior of the magazine itself and which engage film reels stored in said magazine so as to prevent said reels from changing the position in which they have been placed at the time the magazine was charged.

With these and other objects in view, a plurality of embodiments of the subject matter of the invention have been shown in the accompanying drawings to which reference is made in the following specification.

In the drawing:

Fig. 1 is a horizontal section through a film magazine and its outer casing.

Fig. 2 is a top plan view of the outer casing.

Fig. 3 is a fragmentary sectional view through an element adapted to lock the film reel within the magazine against rotation.

Fig. 4 is a top plan view of the fragment shown in Fig. 3;

Fig. 5 is a fragmentary sectional view through the wall of a modified casing having means for preventing rotation of a film reel within a magazine surrounded by said casing, and

Fig. 6 is a top plan view of said last named embodiment.

The magazine 1 may be of any suitable shape or material for insertion into a camera. In the embodiment illustrated, the magazine 1 is shown as having elongated therefrom for receiving in its interior two film reels 2, 3 which are maintained in a predetermined location within the magazine 1 by means of pins 4, 5 respectively entering the center openings 20 of the film reels, said centering or locating pins 4 and 5 advisably being riveted to the wall of the magazine 1 or being fixed thereto in some other suitable way.

In axial alinement with the opening 20 in one disc of each reel there is provided an axial opening 21 in the opposite wall of the reel in a manner well known in the art.

The magazine 1 with the reels 3 and 4 located therein by the pins 4 and 5 is hermetically closed, and in this condition it is insertable into the camera for which it is intended. The means for acuating one or both of said film reels do not form part of the present invention and are not illustrated in the drawing.

The magazine 1 is maintained in stock and furnished to the user while it is enclosed within an outer casing 6 which may be of suitable material, stiff cardboard, sheet metal or the like, and which is provided with a pin 7 in such relation to the magazine 1 enclosed by said outer casing 6 that said in 7 is in axial alinement with the locating pin 5 riveted to the casing. This pin 7 projects through the opening 21 of the magazine and also through the opening 8 in the reel 2 in the interior of the magazine. It is this element 21 projecting from the outer casing 6 into the interior of the reel 2 which during storage and transportation prevents said reel from turning about its axis and thereby also prevents the coils of film wound on said reel from becoming loose for any reason whatsoever.

The outer casing or container 6 for the magazine preferably is provided with a cover 9 which may be secured to the body of the outer container or casing 6 in any suitable way, as indicated by the fastening means 17 diagrammatically shown in Fig. 1, and this cover 9 also is provided with a companion pin 10 for the pin 4 projecting from the wall of the casing 1 into the interior of the reel 3. This companion pin 10 projects through the opening 20 in the casing into alinement with the locating pin 4 for the reel 3.

The openings in the reels through which the pins 7 and 10 respectively project, normally are square openings, and the pins 7 and 10 locking the reels 2 and 3 against rotation within the magazine also may be advisably of a formation in accordance with the shape of the openings 8 and

11 respectively of the reels. In order to safeguard to a higher degree even against accidental movement of the reels on the locking pins 7 and 10, the locking pins may be provided with frictional coatings, as indicated at 22 and 23 respectively. It is further apparent from Fig. 1 that the locking elements 7 and 10 mounted on the outer casing 6 for the retention of the reels 2 and 3 against rotation may be of conical shape so as to facilitate the insertion of these locking elements into the reels 2 and 3 in the interior of the magazine 1.

In Fig. 3, the cover 9 of the outer casing only is shown as being provided with a tongue 12 partly punched from the material of which said cover is made and then deflected from the plane of said cover so as to enter the opening in the reel. Since this tongue also engages the opposite edges of the square opening in the reel, rotation of said reel about the axis of the locating pins 4 within the magazine cannot take place.

In Fig. 5 a similar embodiment of the cover 9 of another casing is illustrated as being provided with a plurality of tongues 13 to 15 punched from the material of the cover 9 and then deflected from the plane of the cover, and in such relation to each other that they upon insertion of the ends of these tongues into the openings 11 or 8 respectively of the reels will lock said reels against rotation in the interior of the magazine.

While in Figs. 3 to 6, the cover 9 only of the outer casing is shown, it is obvious that the opposite wall of this outer casing, not shown, is provided with a locking element adapted for holding the other reel within the casing against rotation similarly to the showing made in Figs. 1 and 2.

It is, furthermore, obvious that an outer casing may enclose a plurality of magazines side by side with the reels located in each magazine similar to the manner indicated in Figs. 1 and 2. The outer casing may then be provided with a plurality of locking elements adapted for cooperation with the locating elements within the magazines to enter said magazines and hold the reels therein against rotation.

It is also obvious that in outer casings a plurality of magazines may be stacked on top of each other with locking elements of the character described in the above specification forming part of partition walls inserted between each two superimposed magazines.

It is also feasible to provide an outer casing in which locking elements for holding the reels in the interior of the magazine against rotation may be inserted, for instance, by piercing the wall or cover respectively of the magazine, in which case the magazine may be provided with indications showing to the user where these locking elements should be inserted.

The locking elements illustrated in Figs. 1 and 2 entering the magazine and reels from the outer casing or cover respectively also are provided with a coating which will prevent the entry of light into the interior of the reel.

It will be noticed that in the present invention the reels fixedly located in the magazines are additionally locked against rotation and that in spite of these additional locking means, no springs or other holding means acting upon the circumferential edge of the reels or film are necessary.

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