H. J. TROXELL.

FILM REEL AND CASING.

APPLICATION FILED FEB. 7, 1913.

1,106,754.

Patented Aug. 11, 1914.

Fig. 1.

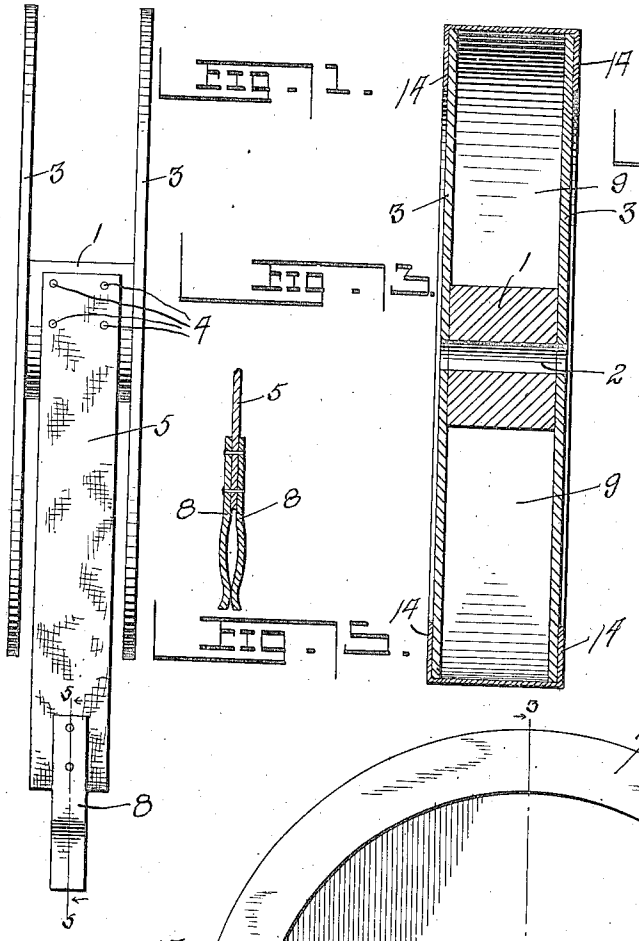


Fig. 3.

Fig. 4.

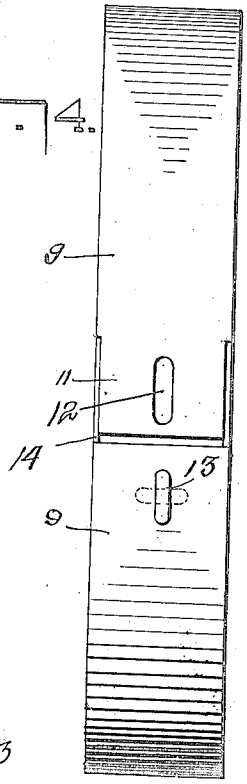
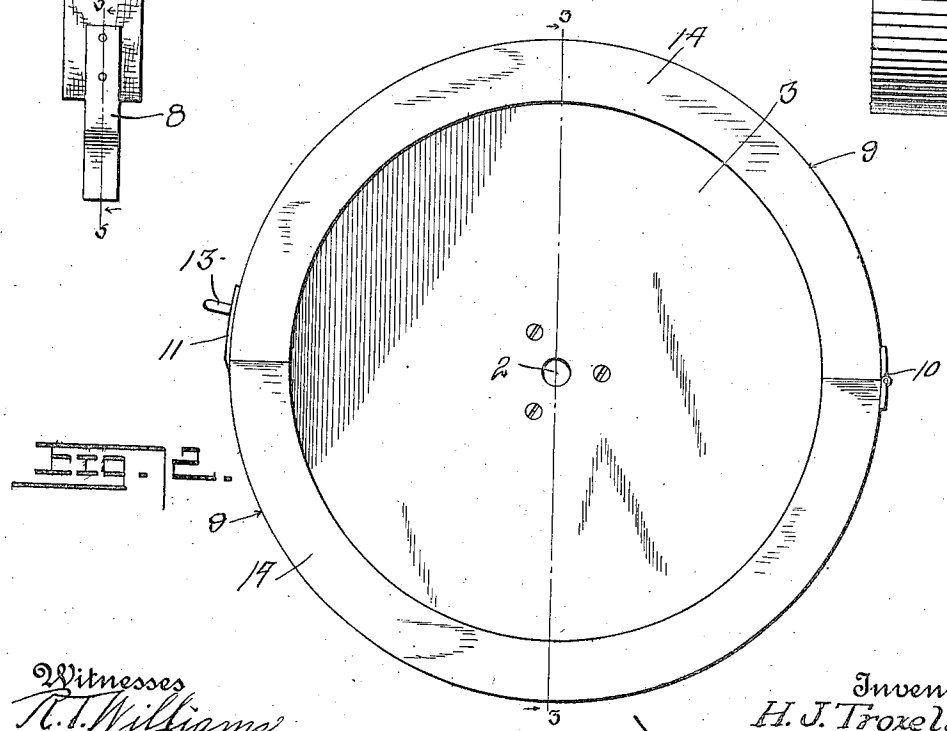


Fig. 5.

Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

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FILM REEL AND CASING.

1,106,754. Specification of Letters Patent. Patented Aug. 11, 1914.

Application filed February 7, 1913. Serial No. 746,920.

To all whom it may concern:

Be it known that I, HARRY J. TROXELL, a citizen of the United States, residing at Gettysburg, in the county of Adams, State of Pennsylvania, have invented certain new and useful Improvements in Film Reels and Casings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain novel and useful improvements in a combined reel and casing for motion picture films. It is required by the authorities that when a reel of this character is intended for shipment, it must be placed in a metal case and inclosed in wood or fiber boxes. It is, therefore, the custom at the present time to place the ordinary film reel in a metal casing and inclose this casing in a box for shipment. This reel which consists of a hub and the end plates or flanges has attached to the hub a small clasp to which one end of the film is attached, and when completely reeled the film is secured by a rubber or paper band surrounding the same. This ordinary type of reel usually has the end disks or plates perforated, and the operator may reach through these perforations for the purpose of attaching the end of the film to the clasp.

In carrying out my invention it is my purpose to provide a device which is capable of fulfilling the functions of both a reel and a casing so that in preparing the film for shipment it is unnecessary to employ an additional metallic casing for receiving the reel.

Still a further object of my invention is the provision of a reel having solid or imperforate end plates or flanges, the hub being provided with a novel form of film attaching clasp which extends beyond the periphery of the reel when the end of the film is to be attached so that the operator need not reach in through the body of the reel to fasten the film.

It is also my purpose to provide the reel portion proper of the device with flanged rim or bands fitting around the periphery so that when the parts are assembled a complete protective casing is provided, which may not only be employed to comply with the laws as to the shipment of films of this character, but may be used to incase the reels stored in the picture booth and protect the same against fire.

With the above recited object and others of a similar nature in view, my invention consists in the construction, combination and arrangement of parts set forth in and falling within the scope of the appended claim.

In the drawings: Figure 1 is a view in side elevation of a reel member embodying my invention, the clasp being shown in extended position to receive the end of the film. Fig. 2 is a view in end elevation of the device with the flanged rim or band sections applied to the reel to incase the film. Fig. 3 is a vertical sectional view taken on the line 3—3 of Fig. 2. Fig. 4 is a detail view of the flanged rim or band. Fig. 5 is a sectional view through the film engaging clip on the line 5—5 of Fig. 1.

Referring now to the accompanying drawings in detail the numeral 1 designates the hub or drum of the reel which is axially perforated as at 2. At each end of the drum is secured a relatively large imperforate disk or plate 3, which is preferably formed of any suitable hard metal, such as rolled steel. These circular plates or disks, together with the hub form the reel or spool proper, and when surrounded by the attached flanged rim sections, as hereinafter described, these plates form faces or sides of the casing. In order to attach the film to the reel I fasten to the hub by means of small tacks 4 or other fastening devices a tape 5 which when extended radially will project beyond the periphery of the reel. To the free end of this flexible tape I fasten a film engaging clip 8 which is designed to receive the end of the film so in the winding operation both the tape and the film may be reeled in the usual manner.

To provide a casing for the film, as when it is desired to ship the latter, I employ a pair of semi-circular rim sections 9 hinged at their adjacent ends at 10, while the opposite end of one section is provided with a tongue 11 slotted as at 12 for the reception of the turn button 13 carried by the adjacent free end of the opposite rim section. Each of said rim sections is provided with the semi-circular inwardly extending flanges 14, these flanges being designed when the band or rim is positioned on the reel to embrace the peripheral edge portions of the plates or disks of the reel, as shown in Figs. 2 and

3 so that the film is completely incased by the plates or disks of the reels and the flanged band or rim, the latter being fastened in place by operating the turn button so that it may pass through the slot 12, and then turning such button crosswise of the slot in the manner readily understood. It is, of course, to be further understood that the flanged rim is also formed of suitable metal or other material which will serve the purposes in a protective casing of this character, and although I have herein shown and described said flanged rim as formed of but two sections, it is to be understood that it may be made of any suitable number of hinged or flexibly connected sections.

It will be seen that by making the end plates or disks of the reel solid or imperforate, I am enabled to employ these as the side members of the protective casing, which could not be done were these plates formed with openings as in the ordinary reel. To enable the film to be attached to the hub, some other method must be employed than reaching through the end plates of the reel, and this is provided for by the use of the tape or flexible connection carrying the clasp at the free end.

While I have herein shown and described one particular embodiment of my invention, I wish it to be understood that I do not confine myself to all the precise details of construction herein set forth by way of illustration, as modification and variation may be made without departing from the spirit of the invention or exceeding the scope of the appended claim.

What I claim is:

In a portable combined film reel and casing, the combination with a reel member including a hub and imperforate metallic plates secured at the ends of the hub, means for attaching a film to the reel member, a removable flanged rim formed of a plurality of connected sections fitting over and surrounding and fitting closely to the peripheral portions of the plates, said plates and flanged rim forming a complete closure for the film, and means for locking the flanged rim on the reel.

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

HARRY J. TROXELL.

Witnesses:
JOHN KEITH,
RAYMOND F. TOPPER.