

C. E. SHARLOW.
 FILM REEL FOR MOVING PICTURE MACHINES.
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1,118,689.

Patented Nov. 24, 1914.

Fig. 1.

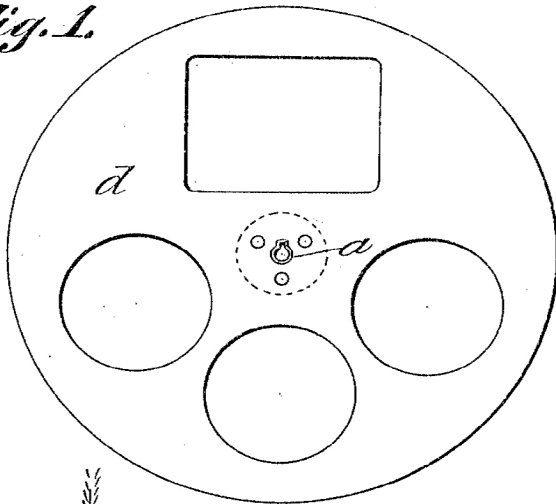
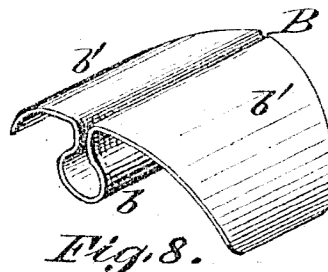
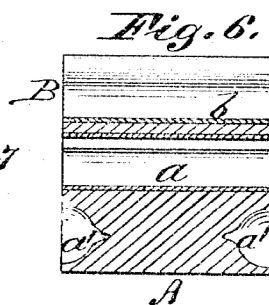
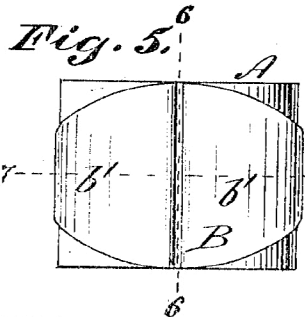
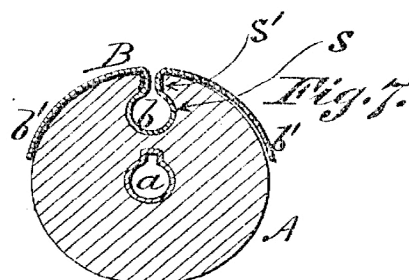
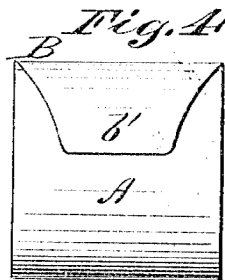
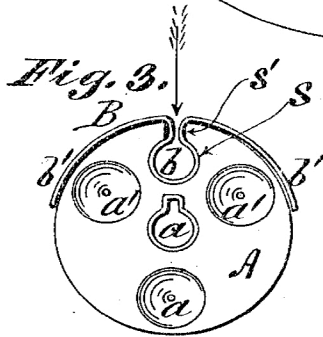
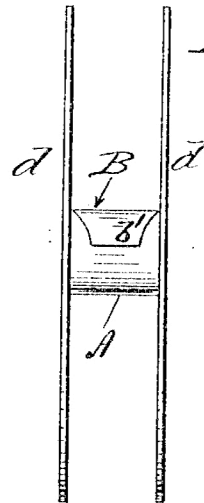


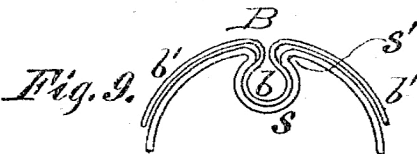
Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES EDWIN SHARLOW, OF UNION HILL, NEW JERSEY.

FILM-REEL FOR MOVING-PICTURE MACHINES.

1,118,689.

Specification of Letters Patent.

Patented Nov. 24, 1914.

Application filed June 5, 1913. Serial No. 771,788.

To all whom it may concern:

Be it known that I, CHARLES EDWIN SHARLOW, a citizen of the United States, residing at Union Hill, Hudson county, State of New Jersey, have invented certain new and useful Improvements in Film-Reels for Moving-Picture Machines, of which the following is a specification.

My invention relates more particularly to the hubs of film reels used in connection with motion-picture machines, and is designed to afford means which are simple, substantial and effective, whereby the end of a film may be quickly and conveniently connected with, or disconnected from, the reel.

The invention consists in the specific construction and arrangement of parts described and claimed, a distinctive feature being the film-clasp, consisting of a tubular central portion fitting in a corresponding recess in the hub and formed with lateral wings or extensions which conform to the periphery of the hub and are adapted to perform the function of film end holders, as hereinafter more fully set forth.

In the accompanying drawings, Figure 1, is a side elevation of the reel; and Fig. 2, an edge view thereof. Fig. 3, is an elevation of either end of the hub, the side disks being omitted; Fig. 4, is an elevation taken at right angles to Fig. 3; Fig. 5, is an elevation looking in the direction of the arrow, Fig. 3; Fig. 6, a section taken upon plane of line 6—6 Fig. 5; Fig. 7, a section taken upon plane of line 7—7 Fig. 5; Fig. 8, an isometrical view of the film clasp; Fig. 9, is a detail view showing a modification in the construction of the reel hub.

The hub A, may be made of wood or other fibrous material, formed with an axial metallic key bushing *a*, and with counter-sinks *a*¹, *a*², for the heads of the screws by which the disks *d*, *d*, are secured to the hub.

The novelty in the construction of the hub in the present case consists in forming it with the socket *s*, parallel to its axis, for the reception of the spine *b*, of the film clasp B. The socket *s*, includes the slot *s*¹, through which the contracted portion of the spine *b*, protrudes, and on either side of which the film-holding wings *b*¹, *b*², extend laterally.

The film clasp B is preferably although not necessarily made of elastic resilient material bent in to the requisite shape. Thus

a blank of sheet metal may be used for the purpose. The enlarged portion of the spine is preferably cylindrical, to fit a cylindrical bore *s*, in the hub A, although obviously other forms in cross section of both socket and spine may be resorted to,—without departing from the spirit and intent of my invention in this respect, the essential feature being a spine with a main portion *b*, of greater width than the slot portion *s*¹, of the socket *s*, so that the spine can only be inserted or withdrawn longitudinally as related to its socket,—the slot portion *s*¹, of the socket serving mainly for the accommodation of the contracted portion of the spine. The width of the slot *s*¹, may however be made sufficient to admit of the utilization of the elasticity and resilience of the spine in inserting the end of a film between the peripheral surface of the hub A, and one of the clamping members *b*¹, and holding it in such position, or releasing it therefrom, as required. Furthermore the end of the film may be inserted into the spine itself if preferred, the contracted portion of the spine acting as spring jaws to retain the same, so that I practically, by my specific construction, afford three means of film attachment, *i. e.* inserting between the lips of the spine, or beneath either of the clasp leaves *b*¹, *b*². Thus it is not necessary ever to turn the reel around in order to attach the film in proper relation thereto, and a third and convenient method of attachment is afforded by the contracted portion of the spine acting as spring jaws as before stated. Furthermore the clasp members *b*¹, *b*², conform snugly to the periphery of the hub, so as to afford a close and symmetrical wind and unwind of the film, thereby obviating undue wear thereof.

In lieu of a solid wooden hub hereinbefore described a metallic hub may be substituted as in Letters Patent No. 971,317, in which case the socket *s*, *s*¹, will be formed by bending over the sheet metal as indicated in Fig. 9.

What I claim as my invention and desire to secure by Letters Patent is,

1. A reel of the character designated comprising a hub with a socket formed parallel to its axis and having a slot leading radially to the periphery of the hub from the socket, and a film-clasp having a spine of greater width than said slot frictionally engaged in

said socket and insertible in the socket longitudinally only with relation to said slot, said clasp having a film-holding wing concentric with the hub.

5 2. In a reel of the character designated, a hub having a socket and slot parallel to its axis formed therein, and a film clasp formed with a spine fitting in said socket and having a contracted portion protruding through
10 said slot, said clasp insertible only lengthwise of the hub being also formed with film-holding members extending laterally on either side of said spine and overlapping the periphery of the hub for the purpose
15 described.

3. In a reel of the character designated, a hub having a cylindrical and slotted socket parallel to its axis formed therein, and a film clasp formed with a spine consisting
20 of a cylindrical portion and a contracted portion fitting in said slotted cylindrical socket, said film-clasp insertible only lengthwise of the hub being also formed with film-holding members extending laterally on
25 either side of the spine and over-lapping the

periphery of the hub for the purpose described.

4. In a reel of the character designated, a hub having formed therein parallel with its axis a cylindrical socket with contracted entrance thereto, and a resilient film clasp formed with a spine comprising a cylindrical portion fitting the cylindrical socket and a contracted portion fitting in and bearing against the walls of said slot, said film
30 clasp being insertible only lengthwise of the hub and formed with film-holding members extending laterally on either side of the spine and overlapping the periphery of the hub and conforming thereto upon opposite
35 sides of said slot, the resiliency of said clasp and the bearing of its contracted portions against the walls of the slot serving to hold the film-holding members snugly against the periphery of the hub.
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Witnesses:

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