E. W. HULETT.

MOTION PICTURE STRIP REEL ALARM.

APPLICATION FILED JUNE 10, 1918.

1,323,863. Patented Dec. 2, 1919.

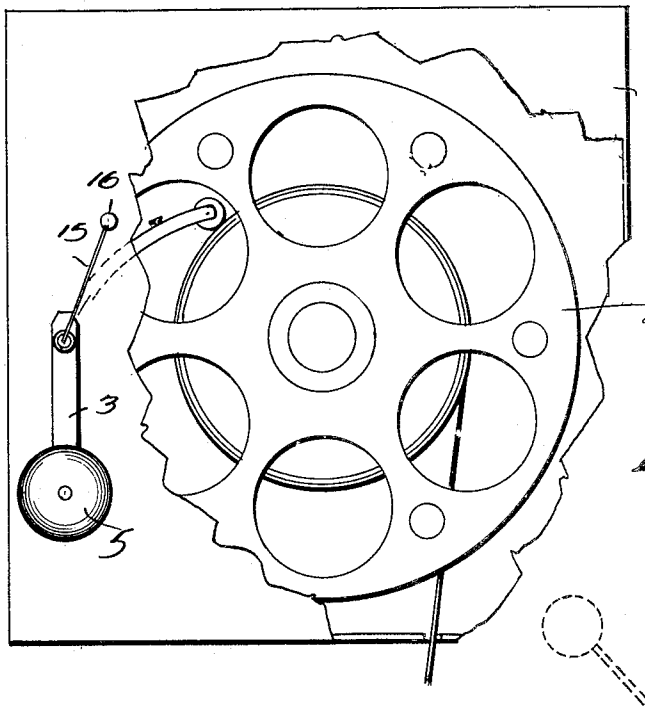
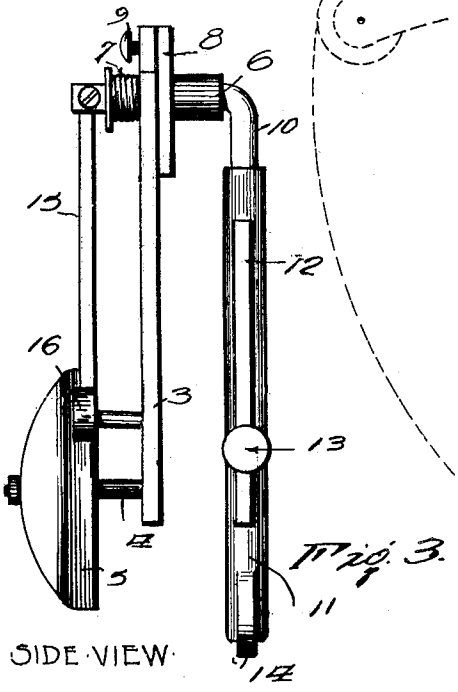


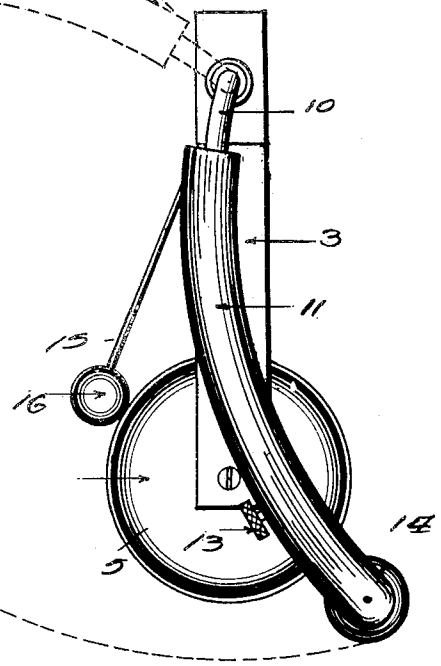
Fig. 1.

Fig. 2.



SIDE VIEW.

Fig. 3.



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MOTION-PICTURE-STRIP-REEL ALARM.

1,323,863. Specification of Letters Patent. Patented Dec. 2, 1919.

Application filed June 10, 1918. Serial No. 239,172.

To all whom it may concern:

Be it known that I, EVERETT W. HULETT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Motion-Picture-Strip-Reel Alarms, of which the following is a specification.

This invention relates to improvements in alarms and it is the principal object of the invention to provide an alarm for use in connection with motion picture strip reels which when the reel is empty will be automatically operated, thus signaling the operator and allowing him sufficient time to stop the projecting apparatus.

Another and equally important object of the invention is to provide a signal which can be adjusted to operate at predetermined periods depending upon the amount of film strips arranged on the reel.

The improvements in the details and arrangement of parts will be apparent from an inspection of the accompanying drawing, in connection with the specific description hereinafter contained, and wherein the preferred embodiment of the invention is disclosed for the purpose of imparting a full understanding of the same.

In the drawings:

Figure 1 is a fragmentary side elevation of a reel magazine or housing having part thereof broken away showing the arrangement of the improved alarm with relation to the reel therein,

Fig. 2 is a side elevation of the improved alarm, and

Fig. 3 is an end view thereof.

Having more particular reference to the drawings, in connection with which like reference characters will designate corresponding parts throughout the several views, 1 represents the magazine or reel housing in which the picture strip receiving reel 2 is rotatably mounted.

Engaged with the outer side of the magazine 1 is an arm 3 having its lower end apertured to permit the insertion of one end of a bolt 4 therein, the remaining end of said bolt carrying a bell 5. As will be noted, the upper end of the arm 3 is also apertured and receives a bearing sleeve 6 therethrough, one portion of which is screw threaded as at 7 while the remaining portion carries a bearing element 8 adapted to be engaged with one side of the reel magazine 1 in order that said arm can be effectually secured thereto upon the turning of the bearing sleeve 6. A set-screw 9 is also engaged with the upper end of the arm 3 and is adapted to be turned into engagement with an adjacent portion of the side wall of the magazine 1 for an obvious purpose.

Rotatably received in the bearing sleeve 6 is the right angularly disposed portion of a curved trip arm 10, the body portion of said arm being telescopically engaged with a hollow curved trip arm 11 which is slotted as at 12 to permit the passage of a lock-screw 13 therein, said lock-screw, of course, being adapted for engagement with suitably formed screw threaded openings in the adjacent portion of the trip arm 10. In this way, it is obvious that the hollow trip arm 11 will be secured in adjusted position with relation to the body portion of the trip arm 10, thus, allowing the same to be made of various lengths, such as conditions or preference may dictate. The outer end of the arm 11 is bifurcated and rotatably receives a roller 14 therebetween, which roller is adapted for engagement with the picture strip arranged about the core of the reel 2, said roller being formed of material which will not scratch or otherwise injure the picture strip.

Engaged with the outer end of the right angularly disposed portion of the trip arm 10 is a spring arm 15 carrying a hammer 16 on its lower end, which hammer is adapted to be engaged with the bell 5, at times.

In operation, the arm 11 is properly adjusted with relation to the arm 10 whereupon the roller 14 carried thereby is engaged with the picture strip arranged about the reel 2. As the reel 2 is rotated to feed the picture strip therefrom, the trip arms 10 and 11 will be allowed to gradually descend until a sufficient quantity of film strip has been removed therefrom to permit the passage of the roller 14 thereby. At this time, the trip arms will fall abruptly downwardly thus causing the hammer 16 to impart a sharp blow to the bell 5, ringing the same and signaling the operator of the condition of the reel and as a consequence, allowing him sufficient time to stop or otherwise regulate the projecting apparatus. As hereinbefore stated, by adjusting the telescopically engaged trip arms 10 and 11, the

alarm can be actuated at predetermined periods depending of course upon the amount of film strip arranged about the reel 2.

Manifestly, the construction shown is capable of considerable modification and such modification as is within the scope of my claims, I consider within the spirit of my invention.

I claim:

1. The combination with a reel housing, of a bracket fitting against the outer face of one wall thereof and provided with a threaded opening registering with an opening formed in the wall, a signal bell carried by said bracket, a bearing sleeve extending through the housing wall from the inner side thereof and having a threaded end portion passing through the threaded opening of the bracket, an abutment collar carried by the sleeve and engaging the inner face of the wall, an arm for engaging a reel in the housing having one end portion provided with an extension forming a pivot pin passing through the sleeve, and a striker connected with the outer end portion of the pivot pin for striking the signal bell when the arm moves downwardly.

2. An alarm for motion picture strip reels including a bell supported in proximity to the reel, telescopically engaged trip arms pivotally mounted adjacent said bell, one end of one of said arms being bent at substantially right angles, a hammer engaged with the right angularly bent portion of the trip arm engageable with said bell, means for locking the telescopically engaged trip arms in adjusted position, and a roller mounted in bearing in the outer end of one of the trip arms engageable with the picture strip on said reel.

In testimony whereof I affix my signature hereto.

EVERETT W. HULETT.