V. WOOD.

AUTOMATIC CHANGE-OVER SIGNAL FOR MOTION PICTURE MACHINES.

APPLICATION FILED MAY 9, 1918.

**1,275,995.** Patented Aug. 13, 1918.

FIG. 1.

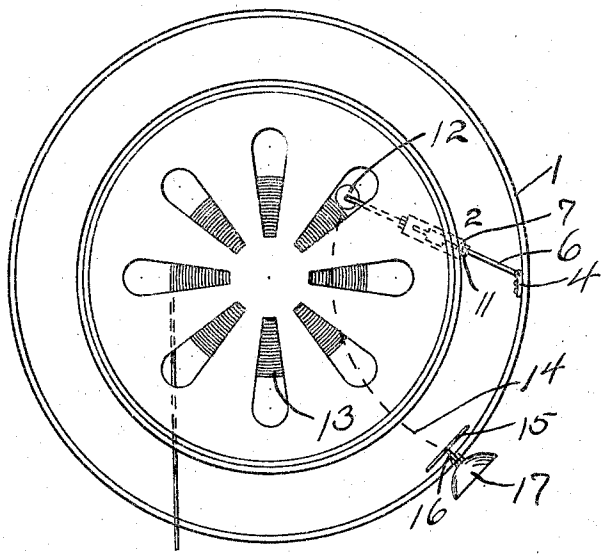



FIG. 5.

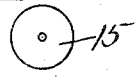



FIG. 2.

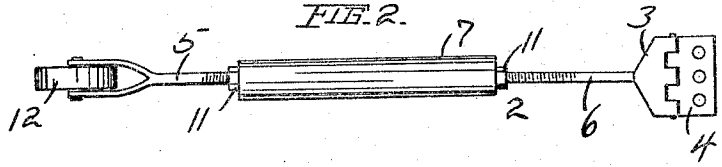



FIG. 3.

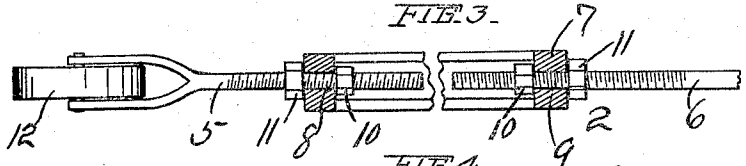
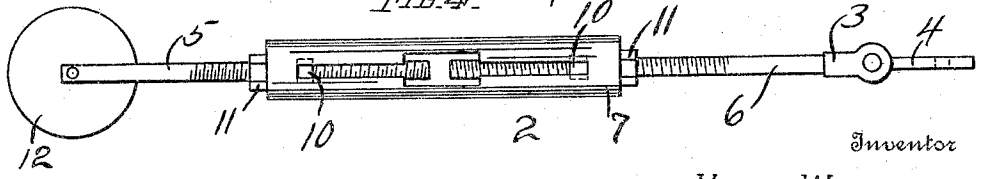



FIG. 4.




Inventor

VICTOR WOOD.

By A. L. Jackson

Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

VICTOR WOOD, OF FORT WORTH, TEXAS, ASSIGNOR OF ONE-HALF TO DE WITT C. FEEGLES, OF FORT WORTH, TEXAS.

## AUTOMATIC CHANGE-OVER SIGNAL FOR MOTION-PICTURE MACHINES.

1,275,995. Specification of Letters Patent. Patented Aug. 13, 1918.

Application filed May 9, 1918. Serial No. 233,543.

*To all whom it may concern:*

Be it known that I, VICTOR WOOD, a citizen of the United States of America, residing at Forth Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Automatic Change-Over Signals for Motion-Picture Machines, of which the following is a specification.

My invention relates to signals for motion picture machines, and the object is to provide a simple device which will automatically signal the time when a film is approaching the end in being reeled off. The object is to give a signal or alarm a few seconds before the film will be completely wound off the reel or drum so that preparations may be made for starting another machine in quick succession. The advantage is that much time may be saved in the operation of the machine and suspense in operation be avoided. Other objects and advantages will be fully explained in the following description and the invention will be more particularly pointed out in the claims.

Reference is had to the accompanying drawings which form a part of this application.

Figure 1 is an elevation, showing the end of a reel casing and a reel with a film thereon mounted in the casing and showing the improved signaling device. Fig. 2 is an enlarged plan view of the signaling device. Fig. 3 is an enlarged horizontal section of the same. Fig. 4 is a side elevation of the same. Fig. 5 is a face view of the plunger or impact member of the plunger which is actuated to strike the bell.

Similar characters of reference are used to indicate the same parts throughout the several views.

The improved signaling device is attached to the casing 1. A striking member 2 is hingedly connected to the interior of the casing 1, having a flattened hinge member 3 and the coöperating hinge member 4 may be attached by rivets to the casing 1. It is preferable to make the striking member in two parts 5 and 6 and connect the same together by a sleeve 7 which has internally threaded portions 8 and 9, the threads running in opposite directions and the ends of the members 5 and 6 being threaded in opposite directions so that the striking member 2 will be adjustable in length. The striking member must be rigid and to make the same rigid jam nuts 10 are screwed in the interior portions of the members 5 and 6 and the jam nuts 11 are screwed on the exterior portions of said members to make the same rigid by bracing them to the sleeve 7. The striking member 2 can be made longer or shorter and made rigid at any adjustment. The striking member carries an antifriction roller 12 which bears against the film 13. While the film is being wound off, the roller 12 bears against the film and follows the film until the film is almost wound off the reel and when the film reel becomes small enough the roller 12 and striker 2 will drop, the roller 12 following substantially the path of the dotted line 14 until the roller strikes the impact member 15 of the plunger 16 which strikes the bell 17. The bell 17 may be attached to the casing 1 in any suitable manner. When the striking member falls, it will ring the bell 17 and this will be the warning or signal that the film will soon be wound off so that preparations can be made for starting another machine. The impact member 15 should have a considerable area so that the roller 12 will be certain to strike it. For making the striking member fall through the same space each time, the hinge members 3 and 4 are made relatively wide so that the striking member will not swerve to one side, but strike directly on the impact member 15. Various changes in the construction and arrangement and proportions of the several parts may be made without departing from my invention.

What I claim is:—

1. A signaling device for motion picture machines comprising in combination with a film reel and its casing, an extensible striking member hingedly connected to the interior of said casing and provided with a roller adapted to bear against the film, and a sounding member attached to said casing and provided with a plunger having an impact face of relatively large area to receive the impact of said roller.

2. A signaling device for motion picture machines comprising in combination with a film reel and its casing, a striking member hingedly connected to said casing and consisting of a sleeve having right and left interior threads and two rod or shaft members engaging said threads and a roller carried by one of said members adapted to bear against the film, and a sounding member

attached to said casing and adapted to receive the impact of said roller.

3. A signaling device for motion picture machines comprising in combination with a film reel and its casing, a striking member hingedly connected to said casing and consisting of a sleeve having right and left interior threads and a rod or shaft in two parts engaging the threads of said sleeve and held in place thereby and jam nuts bracing said parts against said sleeve and a roller carried by said striking member adapted to bear against the film, and a sounding member consisting of a bell attached to said casing and a plunger for striking said bell provided with an impact member adapted to receive the impact of said roller.

In testimony whereof I set my hand, this 4th day of May, 1918.

VICTOR WOOD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."