

A. WEISS.  
MEANS FOR LUBRICATING FILMS.  
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1,308,385.

Patented July 1, 1919.

FIG. 1

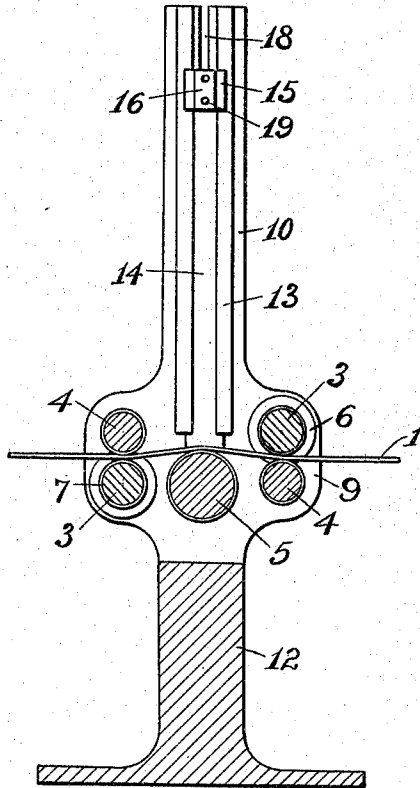


FIG. 2

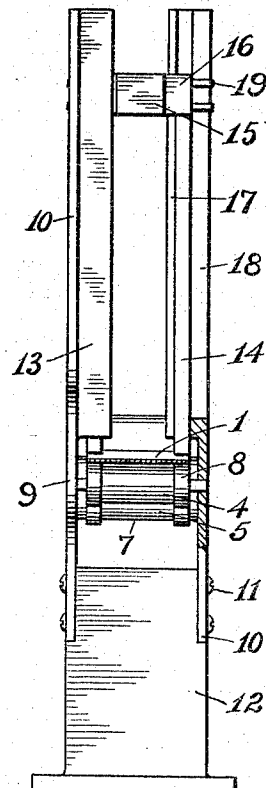


FIG. 3

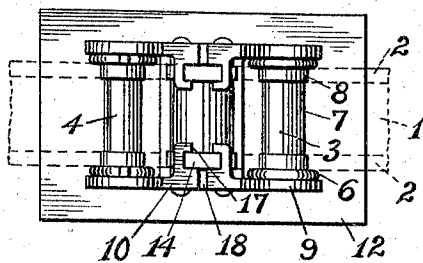
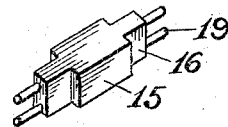


FIG. 4



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# UNITED STATES PATENT OFFICE.

ALEXANDER WEISS, OF CLEVELAND, OHIO, ASSIGNOR OF ONE-HALF TO EARL H. BEIGHLEE, OF CLEVELAND, OHIO.

MEANS FOR LUBRICATING FILMS.

1,308,385.

Specification of Letters Patent.

Patented July 1, 1919.

Application filed January 9, 1917. Serial No. 141,502.

*To all whom it may concern:*

Be it known that I, ALEXANDER WEISS, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Means for Lubricating Films, of which the following is a specification.

This invention relates to means for lubricating films used in connection with motion picture projection machines.

The object of the invention is to provide mechanical means for lubricating the two edges of a film before it is run through a projection machine. The substance used as a coating in the manufacture of films being slightly soft, rubs off when a new film is run for the first few times as it slides over the shoes or tension springs of the projection machine. The substance rubbed off forms a deposit upon said shoes, which deposit becomes hard and rough, and as the film passes thereover, it becomes scratched and the film finally breaks. In this manner, many expensive films are ruined. By lubricating the edges of films, a deposit of the coating substance will be avoided, thereby eliminating the possible damage and ruin of the film.

In order that the invention may be clearly understood, the same will be hereinafter fully described in connection with the accompanying drawings, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings like characters of reference indicate corresponding parts.

Figure 1 is a sectional elevation of a machine for carrying out my invention,

Fig. 2 is a front view of the same, one side being in section,

Fig. 3 is a plan view, the weight being omitted, and

Fig. 4 is a perspective view of the weight.

Referring to the drawings, 1 represents the film to be lubricated upon narrow strips of its two edges and at one side thereof as indicated by 2, which narrow strips are adapted to slide over the shoes or tension springs of the projecting machine. The film passes between pairs of rollers 3 and 4, and over a central roller 5 so positioned that its periphery is a little above the line of travel of the film. The rollers 3 are provided with

flanges 6, between which the rollers 4 rotate, and all of the rollers are reduced in diameter at 7 thereby leaving collars 8 of the same width as the narrow strips 2 of the film. All of said rollers are rotatably mounted in the wide portions 9 of a pair of similar vertical sides 10, which are fixed at 11 to a solid base 12. The sides 10 project above their wide portions 9 and carry upon their inner faces, rectangular shaped guides 13, which are adapted to receive sticks of suitable lubricating material, designated by 14. It will be noted, the guides 13 are so positioned and are of such size in cross section that, the sticks of lubricating material are in alignment with the collars 8 of the rollers. The sticks of lubricating material are adapted to rest upon the narrow strips 2 of the film while passing over the central roller 5, and thereby lubricate the same. In order to cause the sticks of lubricating material to press evenly and firmly upon the film to insure proper lubrication and provide for the feeding of the same as they wear away, suitable separate weights or preferably a single weight as 15 is placed upon the upper ends thereof, and its narrower ends 16 are adapted to extend between the spaced ends of the guides. The vertical sides 10 are provided with slots 18, and a pair of pins 19 projecting from the narrower ends 16 of the weight are adapted to slide in said slots for properly guiding the weight as it gradually moves downwardly.

It will be readily seen from the above that, the two narrow strips of a film, which run over the shoes or tension springs of a motion picture projecting machine, may be easily lubricated by mechanical means.

Having fully described my invention, what I claim is:

1. Means for lubricating a film for motion picture projecting machines, comprising a pair of guides, sticks of lubricating material in the guides adapted to rest upon the film, a weight slidably arranged between the guides and resting upon both sticks of lubricating material, and means for actuating the film, substantially as described.

2. Means for lubricating a film for motion picture projecting machines, comprising a pair of sides, pairs of rollers rotatably mounted in the sides, a central roller ro-

tatably mounted in the sides, the sides carrying guides arranged over the central roller, sticks of lubricating material slidably arranged in the guides, a weight slidably arranged between the guides and resting upon both sticks of lubricating material for exerting pressure thereupon to force them against

the film, the sides being provided with slots, and pairs of pins projecting from the ends of the weight adapted to slide in said slots 10 for guiding the weight, substantially as described.

In testimony whereof I affix my signature.  
ALEXANDER WEISS.

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