R. A. RIESTERER.

FILM CLEANING DEVICE.

APPLICATION FILED JULY 23, 1920.

1,418,830. Patented June 6, 1922.

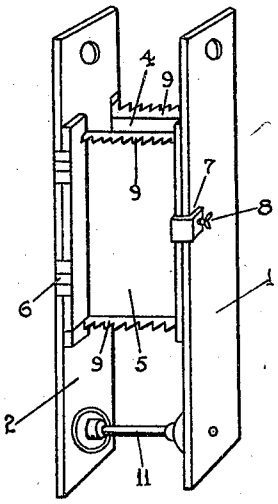


Fig. 1

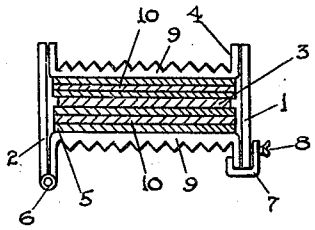


Fig. 2

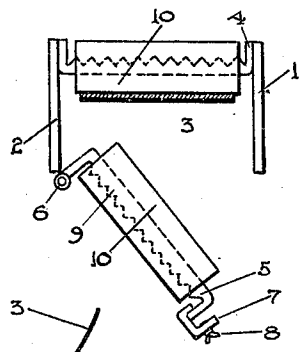


Fig. 3

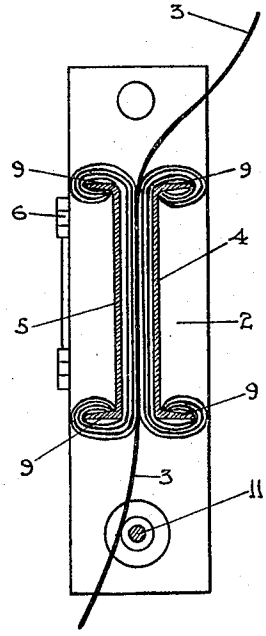


Fig. 4

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FILM-CLEANING DEVICE.

1,418,830. Specification of Letters Patent. Patented June 6, 1922.

Application filed July 23, 1920. Serial No. 398,438.

To all whom it may concern:

Be it known that I, ROBERT A. RIESTERER, a subject of the King of Great Britain, and a resident of the city of Vancouver, in the Province of British Columbia, Canada, have invented certain new and useful Improvements in Film-Cleaning Devices, of which the following is a specification.

My invention relates to improvements in film cleaning devices, and the object of my invention is to provide a means for cleaning film as it passes through a moving picture machine in a simple and highly efficient manner and which is easy to install, convenient to use, and inexpensive.

I attain this object by the construction illustrated in the accompanying drawings in which—

Fig. 1 is a perspective view of the device.

Fig. 2 is a plan view of the device, closed, in part section.

Fig. 3 is a plan view of the device open.

Fig. 4 is a view of the device with one side removed.

Similar figures of reference indicate similar parts throughout the several views

1 and 2 indicate the side walls of the device, formed preferably of sheet metal plates, which walls are placed apart sufficiently to permit of the free passage of a film between them, the film being indicated in Figs. 2, 3, and 4 by the numeral 3. The walls are connected together by transverse walls 4 and 5, also of sheet metal plate, the wall 4 being rigidly secured in place while wall 5 is hinged at one side to wall 1, as at 6, and at its other side it is detachably connected to wall 2 by means of a lug 7 and thumbscrew 8, so that by unscrewing screw 8, the wall 5 may be swung outwardly as indicated in Fig. 3. The upper and lower edges of the walls 4 and 5 are turned outwardly and serrated, as at 9, and covering the inner face of each wall 4 and 5 are layers of suitable cleaning material, such as flannel or the like, indicated by the numeral 10, the layers being held securely in place by the serrations 9 which pierce the layers 10 while at the same time permitting their removal for renewal, the thickness of the layers being such as will ensure the film rubbing against them as it passes between them. 11 indicates a roller mounted between the walls 1 and 2 adjacent their lower ends on which the film 3 runs.

The device is mounted on the film magazine in any approved manner such as by soldering it adjacent the film magazine trap, so that the film will pass freely between the layers 10 as it is operated and thus it is always kept clean by contact with the material of which the layers are composed. When it is desired to renew the cleaning material, the wall 5 is swung outwardly and the old layers 10 are removed, the new material being then laid over inside of the walls 4 and 5 and hooked over the serrations 9.

From the foregoing it will be seen that I have provided a simple, inexpensive, and highly efficient film cleaning device.

What I claim as my invention is:—

A film cleaning device for moving picture machines comprising a pair of side plates adapted to be mounted in a vertical position between the upper and lower magazines of the machine, a vertical transverse plate rigidly connecting the said side plates together, said plate being serrated along its upper and lower edges and being provided on its inner surface with layers of cleaning material held in place by engagement with the serrations, a second transverse vertical plate arranged opposite the first one also serrated along its upper and lower edges and provided with layers of cleaning material held in place by the serrations, said second plate being hingedly connected at one side to one of the said side plates whereby it is capable of being swung outwardly to permit removal and replacement of its cleaning layers during operation of the machine, and means for detachably connecting the opposite side of the said second plate to the other side plate.

Signed at Vancouver, B. C., Canada, this 7th day of July, 1920.

ROBERT A. RIESTERER.