March 15, 1949. A. V. L. C. DEBRIE 2,464,673

MAGAZINE BOX FOR CINEMATOGRAPHIC FILMS

Filed Sept. 19, 1945 2 Sheets-Sheet 1

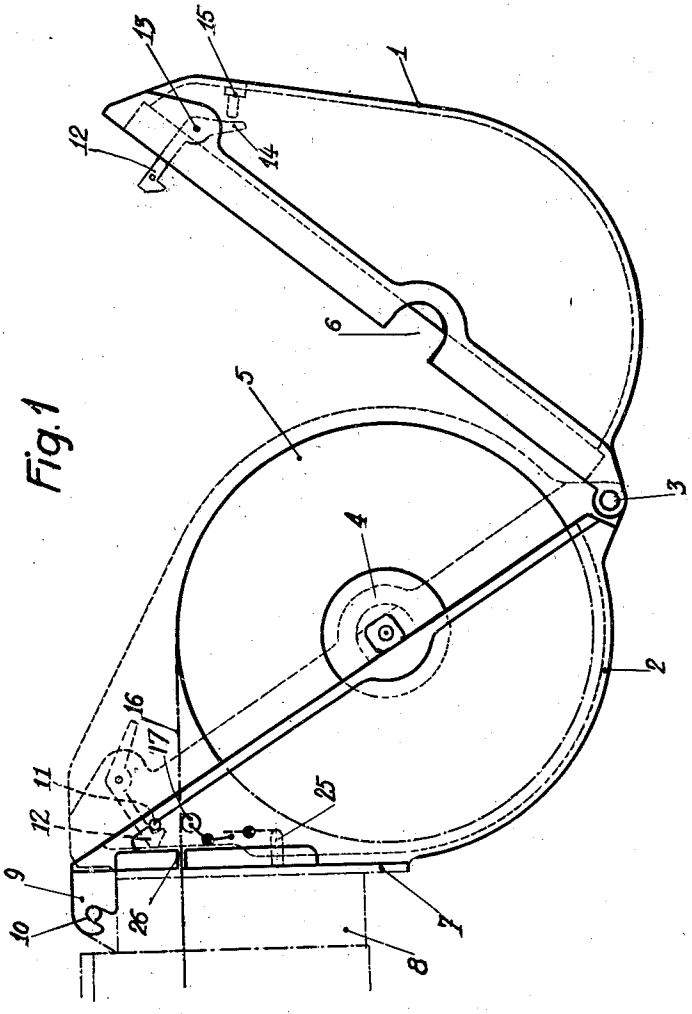


Fig. 1

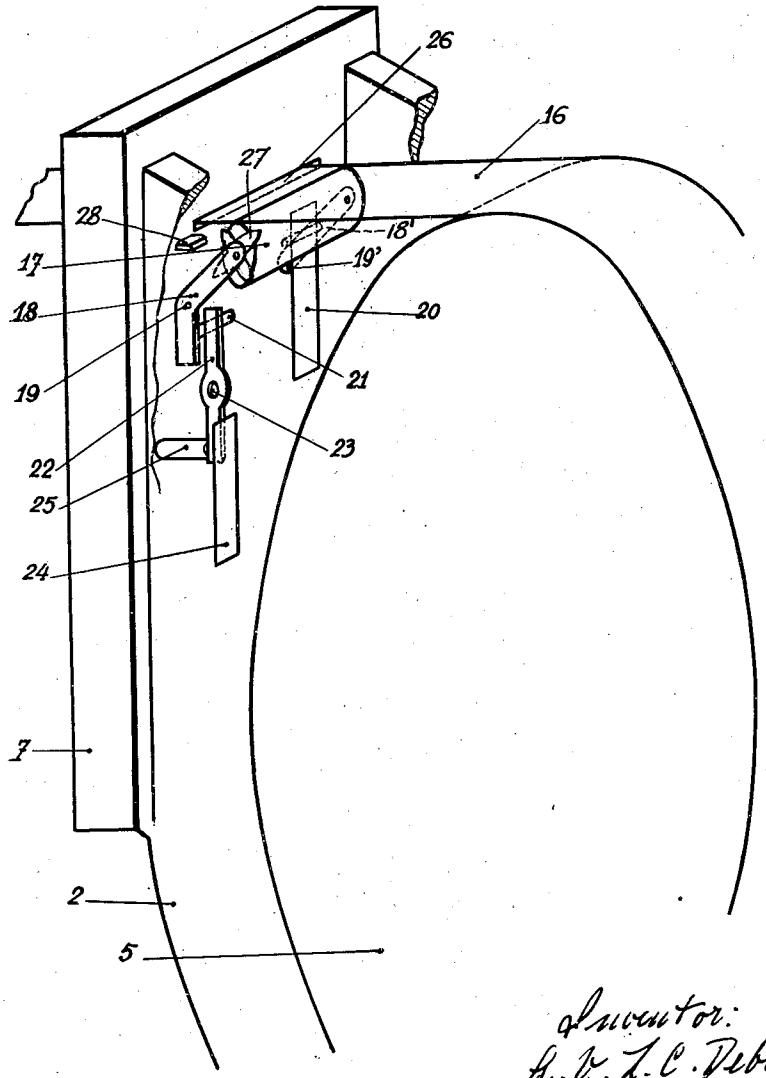
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Fig. 2



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MAGAZINE BOX FOR CINEMATOGRAPHIC FILMS

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3 Claims. (Cl. 242—71)

1

Magazine boxes used for the unwinding and the winding of films in cinematographic apparatus of all types, are generally constituted by a box made of any suitable material viz: metal, ebonite, plastic material, which is closed by a movable cover which is secured to the box in the direction of the spool axis. This device has the drawback that, in certain cases, for example when two magazines boxes are mounted side by side on the apparatus or when a magazine box is, on the apparatus, in the immediate proximity of a partition, a wall, etc., it is very difficult, if not wholly impossible, to have access to the inside of the magazine in order to introduce therein or extract therefrom a film spool without firstly withdrawing it from the apparatus.

The object of the present invention is a magazine box adapted to serve both for the supply or the take-up and to be used under the best conditions, whatever be the position it is called upon to occupy on the apparatus. The magazine box according to the invention is formed of two half shells pivoted the one to the other by means of a pivot the spindle of which is parallel to the spool spindle. Lastly, the magazine box is completed by a film locking system for preventing the film from unwinding outwardly and for preventing the penetration of light. This system is constituted by a roller of the type which is usually arranged in the film passage of the magazine but mounted on an oscillating support controlled by a finger in such a manner that it wedges the film when the magazine is detached from the apparatus and, on the contrary, it releases it when the magazine is in position. It is, moreover, preferably provided with a device preventing it from rotating when in the locking position.

A form of embodiment of the magazine box according to the invention is illustrated by way of example in the accompanying drawings in which:

Fig. 1 is an elevational view of the box as a whole, when mounted in position and open.

Fig. 2 is a detail view, in perspective and on a larger scale, of the film locking device.

The magazine box is constituted by two half-shells 1 and 2 hinged the one to the other on a spindle 3 parallel to the spindle 4 of the spool or of the film coil 5. This spindle 4 is removable and is tightly held between the two half-shells, the upper pivotable half-shell 1 exhibiting, for this purpose, a notch 6.

The lower half-shell 2 has a plate 7 which is applied against the part 8 of the apparatus and which is secured thereto by means of a hook 9, carried by the half-shell 2, hooking on to a pin 10

2

carried by the apparatus 8. Moreover, the half-shell 2 has a pin 11 on which is automatically hooked, when the half-shell 1 is pivoted over, a closing hook 12 carried by the said half-shell and pivoting about a pin 13. The hook 12 is extended beyond this pin by a finger 14 on which may act a button 15. It will be understood that on pressing this button, the hook 12 is pivoted and is released from the pin 11, whereby the magazine box may be opened.

The film 16 may be held stationary at the outlet from the magazine box by a movable roller 17 actuated by the device shown in detail in Fig. 2. This roller is mounted in arms 18 and 18' pivoted on the pivots 19 and 19' respectively and it is urged upwards by a spring 20. The arm 18 carries a pin 21 on which acts a lever 22 pivoted at 23 and subjected to the action of the spring 24. The latter urges, through the medium of the lever 22, the movable finger 25 outwardly. The outlet passage for the film is shown at 26.

The device operates as follows:

When the magazine is unhooked, the movable finger 25 projects outside thereof and the lever 22, under the action of the spring 20, allows the roller 17 to rise, which roller wedges the film 16 in the passage 26. On the contrary, when the magazine is in position, the finger 25 is pushed inwardly into the box and causes the lever 22 to pivot. This lever, acting on the pin 21, separates the roller 17 from the film by compressing the spring 20; the film may therefore freely slide, with a view to being wound or unwound.

With the device such it has been described, it may happen that the film is insufficiently wedged and may still unwind under the action of a slight traction. This is easily remedied by stopping the roller 17 on its spindle in the locking position. For instance, there are disposed, on one of the roller cheeks, four small blades 27 adapted to come into contact with a stop 28 integral with the magazine. When the roller is in the position "magazine in position," it rotates freely on its spindle, but if the magazine is unhooked, the blades 27 fixed on the shaft of roller 17 come into contact with the stop. The roller 17 may no longer rotate and the film is completely brought to a standstill.

What I claim is:

1. A magazine box for winding and unwinding cinematographic films comprising a film spool, a spindle for said film spool, a half-shell adapted to be hooked to the cinematographic apparatus and comprising an outlet passage for the film, another half-shell pivoted to the first one by means

of a hinge parallel to the spool spindle, a roller, an oscillating support carrying said roller and mounted in the first half-shell, resilient means acting on said roller in order to lock the film in its outlet passage when the magazine box is unhooked, a finger projecting out of the magazine when the latter is unhooked, a lever cooperating with said finger and said oscillating support, so that when the magazine is being hooked on, said finger pivots said lever which, acting on the oscillating support, separates the roller from the film, against the action of the resilient means.

2. A magazine box as claimed in claim 1 comprising a device adapted to prevent, in the locking position, the roller from rotating about its spindle.

3. A magazine box as claimed in claim 1 characterized by small blades carried by one of the roller cheeks and which, in the locking position, abut against a stop integral with the magazine.

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