Oct. 27, 1936. L. GOLDHAMMER 2,058,438

FILM REEL

Filed June 12, 1933

Fig. 1.

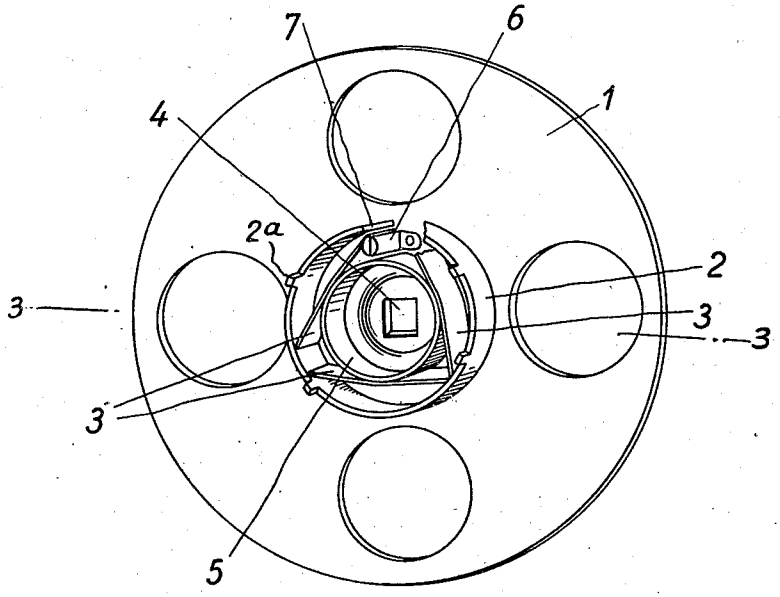


Fig. 2.

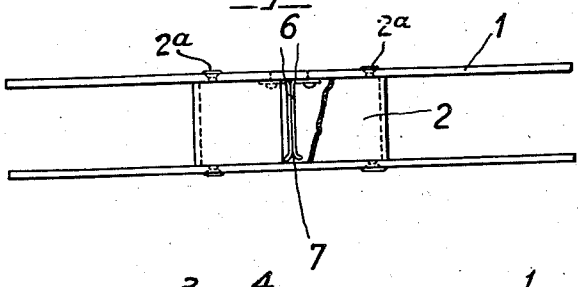
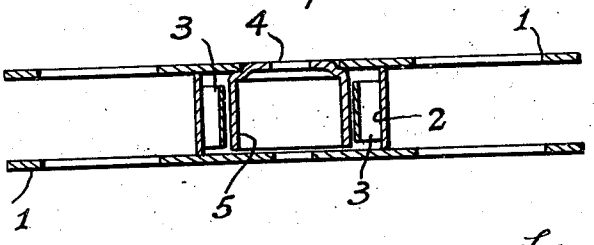


Fig. 3.



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UNITED STATES PATENT OFFICE

2,058,438

FILM REEL

Leo Goldhammer, Munich, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of New York

Application June 12, 1933, Serial No. 675,471
In Germany June 15, 1932

2 Claims. (Cl. 242—70)

My present invention relates to a film reel for cinematographic apparatus and more particularly to an improvement in the film reel described in a co-pending application of myself and another, now Patent No. 1,924,093, Aug. 29, 1933.

That invention relates to an exchangeable film reel for cinematographic apparatus, wherein a core is mounted in the interior of the film reel hub in such a manner that it grips frictionally.

According to this invention the frictional grip between the reel hub and the core is effected by loosely providing between these parts two or more leaf springs which, when the reel is rotated are in a more or less strong frictional grip with the core.

The invention is illustrated by the accompanying drawing in which Fig. 1 represents a front elevation of the film reel according to the invention, and part of the hub and one of the leaf springs having been broken away. Fig. 2 represents a plan view of the reel shown in Fig. 1. Fig. 3 represents a section of the reel on line 3—3 of Fig. 1.

Inside the hub 2 connecting in any known manner, for instance, by bent flaps 2a the flanges 1 to form a reel, there are loosely mounted several, preferably three, leaf springs 3. These leaf springs 3 surround the core 5 having an opening 4. The core 5 touches the leaf springs at three points forming with the centre of the reel three angles of 120°. Depending upon the particular strength of the leaf springs 3 used and which springs may easily be exchanged for others, the friction produced between the hub and the core is more or less intense. The leaf springs need not be fastened or secured, a slip in an axial direction being prevented by the flanges 1 and in a radial direction by the core 5.

The leaf springs cannot move with the core 5, as springs 6 which are fixed to the flanges and extend along the hub 2 between the leaf springs 3, prevent this movement. The springs 6 serve to fasten the end of the film introduced through the slit 7 of the hub 2. The tube-like ends of core 5 are preferably extended through the spool flanges 1.

What I claim is:

1. A film reel for cinematographic apparatus which comprises two flanges, a hub connecting said flanges to form a reel, in said hub a core of substantially less diameter than said hub, leaf springs extending perpendicularly to the axis of said reel and mounted between said hub and said core so that they are tensioned by said core and thus hold said core in central relation to and at a substantial distance from said hub.

2. A film reel for cinematographic apparatus which comprises two flanges, a hub connecting said flanges to form a reel, in said hub a core somewhat longer than the breadth of said hub and of substantially less diameter than said hub, leaf springs extending perpendicularly to the axis of said reel, and mounted between said hub and said core so that they are tensioned by said core and thus hold said core in central relation to and at a substantial distance from said hub.

LEO GOLDHAMMER.