April 28, 1925. 1,535,795

H. SEUFERT

FILM ADJUSTING MECHANISM FOR CINEMATOGRAPHS OR THE LIKE

Filed Nov. 13, 1922

Fig. 1.

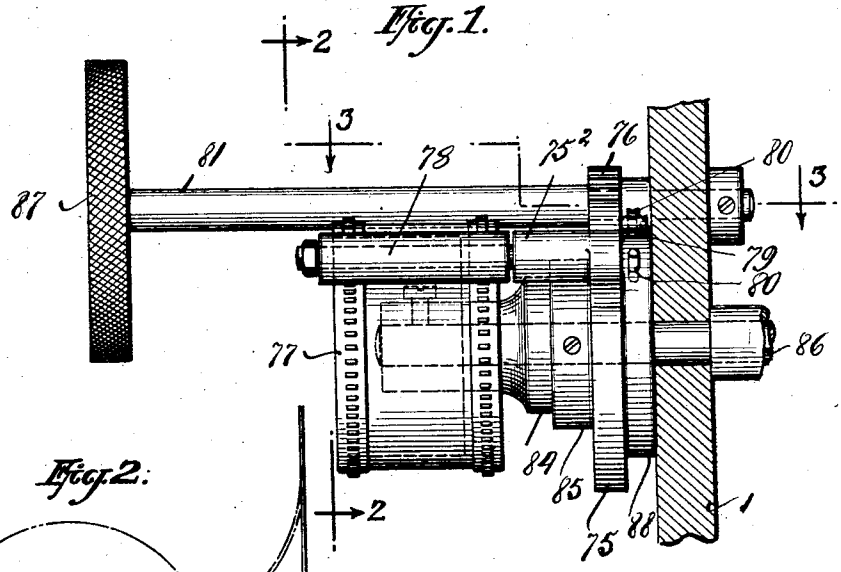


Fig. 2.

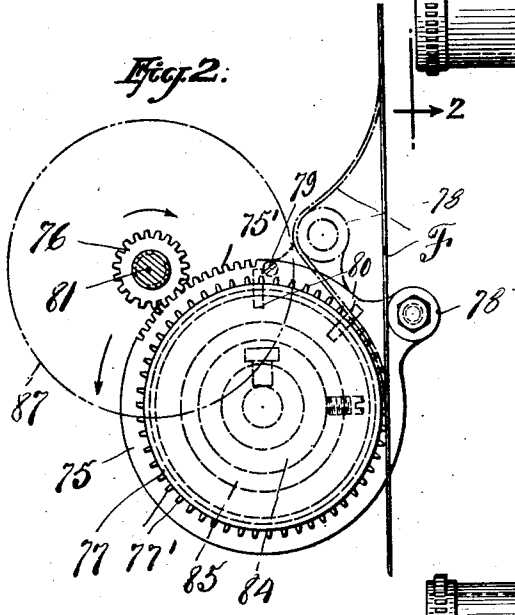
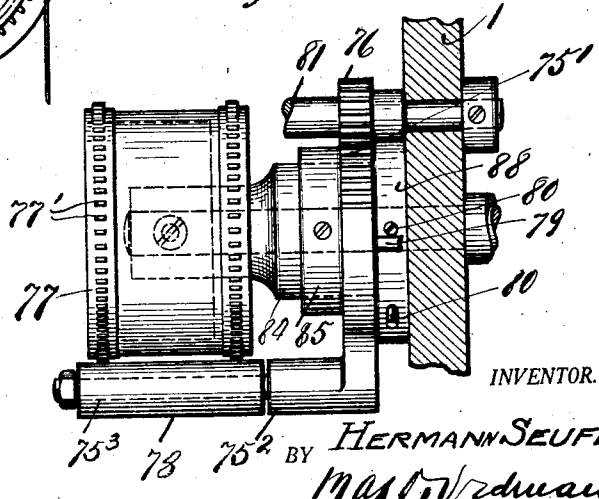


Fig. 3.



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UNITED STATES PATENT OFFICE.

HERMANN SEUFERT, OF BROOKLYN, NEW YORK.

FILM-ADJUSTING MECHANISM FOR CINEMATOGRAPHS OR THE LIKE.

Application filed November 13, 1922. Serial No. 600,574.

To all whom it may concern:

Be it known that I, HERMANN SEUFERT, a citizen of the United States of America, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Film-Adjusting Mechanism for Cinematographs or the like, of which the following is a specification.

The object of this invention is to greatly simplify the film adjusting device in cinematographs or the like, so that the adjustment of the film picture into the focal centre can be readily and easily effected with great accuracy.

My invention will be more fully understood by reference to the accompanying drawing in which similar reference characters denote corresponding parts and in which Fig. 1 is an elevation of the film adjusting device seen in the feeding direction of the film drum; Fig. 2 is a vertical section on line 2—2 of Fig. 1, and Fig. 3 is a sectional plan view seen on line 3—3 of Fig. 1.

Mounted on and fixed to the driven shaft 86 of the film drum 77 is a sleeve 84. Revolubly mounted on the latter between a collar 85 fixed thereon and a disk 88 fixed to the vertical plate 1 of the frame is a wheel 75 formed with a toothed segment 75′. The wheel 75 is provided with a laterally projecting arm 75^2 arranged diametrically opposite its toothed segment 75′, and formed with an elongated extension or pin 75^3 on which is rotatively mounted a roller 78. This roller 78 is adapted to extend across the outer circumference of the film drum 77 and to bear against the outer face of the film band F which, as usual, with its lateral notches engages the teeth 77′ of the film drum. Rotatively mounted in the vertical plate 1 of the frame is a spindle 81 which at one end carries a knob or hand wheel 87 for its manipulation and its opposite end carries a pinion 76 which is adapted to mesh with the toothed segment 75′ of the wheel 75. The wheel 75 also has a pin or projection 79 extending across the fixed disk 88 between two stops 80 projecting from the latter and spaced apart a distance equal to the total length of a film picture.

When the film is found to be out of focal center, the spindle 81 is rotated thru the medium of the hand wheel 87 whereby the wheel 75 thru the pinion 76 is given a partial rotation, the latter being limited, as aforesaid, by the stops 80. In consequence of such rotation the roller 78 is moved from its full line to the dotted line position shown in Fig. 2, whereby the film is folded or curved as indicated by dotted lines and thereby adjusted.

What I claim and desire to secure by Letters Patent is:—

In a cinematograph or the like, the combination with a driven shaft and the film feeding drum thereon, of a film adjusting device comprising a wheel loosely mounted on said shaft and formed on its periphery with a toothed sector and diametrically opposite said sector with an arm extending parallel to said shaft across said drum, a roller rotatable on said drum and adapted to bear against the outer face of said film, a spindle extending parallel to said shaft formed at one end with a hand wheel and at its opposite end with a pinion, said pinion being adapted to mesh with said sector and means for limiting the rotary movement of said wheel to the length of a film picture.

In testimony whereof I affix my signature in presence of two witnesses.

HERMANN SEUFERT.

Witnesses:
MAX D. ORDMANN,
JOSEPH T. MCMAHON.