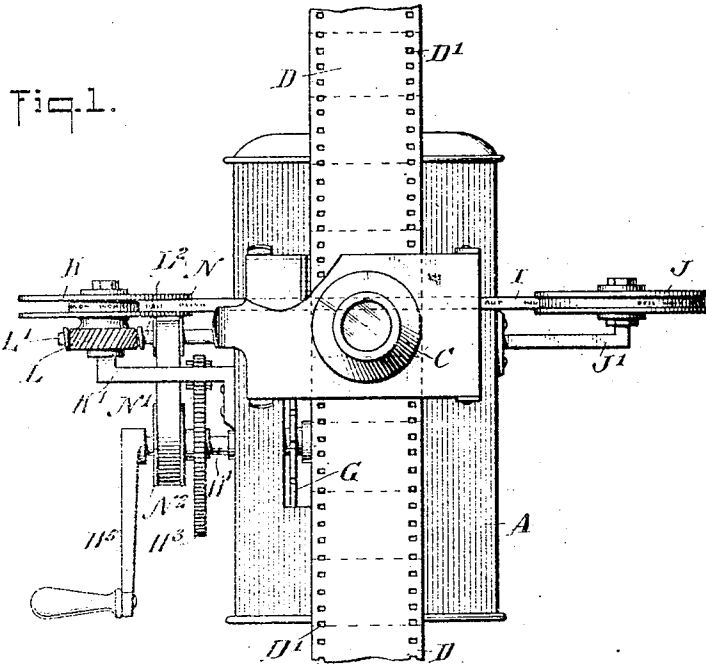
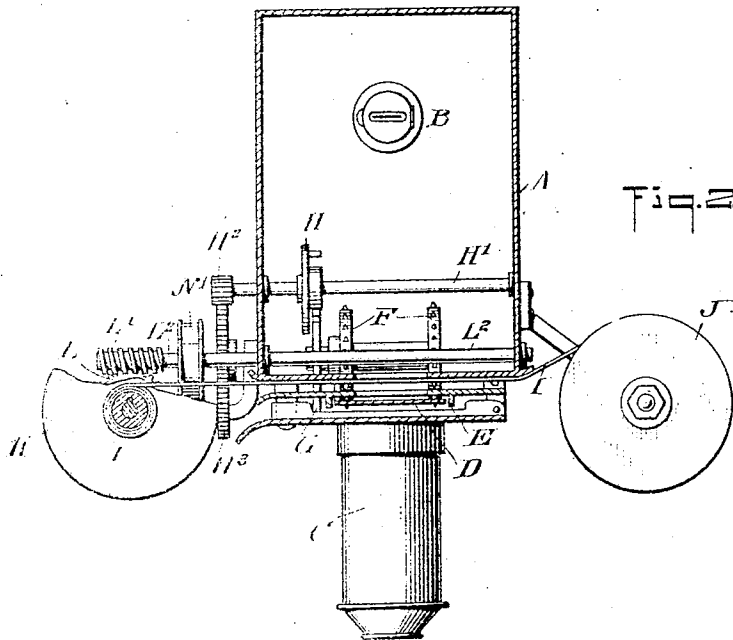


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A. H. F. KURRE.
ATTACHMENT FOR MOVING PICTURE MACHINES.
APPLICATION FILED JUNE 17, 1914.

1,129,693.

Patented Feb. 23, 1915.



WITNESSES
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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR MOVING-PICTURE MACHINES.

1,129,693.

Specification of Letters Patent.

Patented Feb. 23, 1915.

Application filed June 17, 1914. Serial No. 845,612.

To all whom it may concern:

Be it known that I, AUGUST H. F. KURRE, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Attachment for Moving-Picture Machines, of which the following is a full, clear, and exact description.

10 The object of the invention is to provide a new and improved attachment for moving picture machines whereby the title, the text or other legend is supplied to the pictures projected on the screen.

15 In order to accomplish the desired result use is made of a diaphanous band provided with the legend, and means for drawing the band across the film at the projecting area of the moving picture machine to cause a simultaneous projecting of the film matter and the legend of the band on the screen.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in both views.

25 Figure 1 is a front elevation of a moving picture machine provided with the attachment; and Fig. 2 is a sectional plan view of the same.

In the housing A of a moving picture machine of any approved construction is arranged the usual source of light B, and on the front of the casing A is mounted the objective C for projecting the pictures or other matter on the film D onto a distant screen. The film D moves vertically in a guide E forming part of the casing A, and the film D is moved intermittently past the objective C by the use of an intermittent mechanism such as is common in moving picture machines. As shown, for instance, this intermittent mechanism consists of sprocket wheels F engaging the rows of apertures D' on the sides of the film D, the sprocket wheels F being secured on a shaft F' journaled in the housing A. On the shaft F' is fastened a star wheel G engaged by a detent H secured on a shaft H' journaled in the housing A and provided at one outer end with a pinion H² in mesh with a gear wheel H³ secured on a shaft H⁴ journaled on the housing and provided with a crank arm H⁵ under the control of the operator of the machine. Thus when the crank

arm H⁵ is turned an intermittent rotary motion is given to the sprocket wheels F by the mechanism just described so that the film D is fed intermittently past the objective C.

60 Across the film D, preferably in the rear thereof and at the projecting area of the moving picture machine, extends a diaphanous tape, band or web I, provided with titles, text or other legends pertaining to the subject matter on the film D. The band I unwinds from a horizontally-disposed drum or spool J journaled on a bracket J' attached to one side of the housing A, and the said band I winds up on a winding-up drum K journaled on a bracket K' attached to the other side of the housing A. On the under side of the drum K is secured a worm wheel L in mesh with a worm L' held on a shaft L² journaled in suitable bearings arranged on the housing A, and on the said shaft L² is secured a pulley N over which passes a belt N' also passing around a pulley N² secured on the driving shaft H⁴ of the moving picture machine. Now when the driving shaft H⁴ is rotated as previously explained then a rotary motion is transmitted by the pulley N², belt N' and pulley N to the worm shaft L² which by the worm L' and the worm wheel L rotates the winding-up drum K whereby the band I is wound up on the drum K and is hence drawn across the projecting area of the moving picture machine so that the legends on the said band I are projected onto the screen together with the subject matter of the film D. As the legends pertain to the subject matter of the film D it is evident that the spectators while observing the projected pictures can also read the projected legend pertaining to the subject matter of the pictures.

The diaphanous band I is so arranged relative to each film picture in projection at the time, that it extends either across the top or the bottom of the picture, as desired, it being understood that the drums or spools J and K are located correspondingly. The band I is very narrow so that the space occupied by the legend does not materially affect the picture.

105 Although I have shown one particular form of imparting an intermittent rotary motion to the film D and for driving the winding-up drum K from the driving shaft of the moving picture machine, it is evident 110

that other devices may be employed for accomplishing the same result and consequently I do not limit myself to the particular means shown and described above.

5 Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. An attachment for a moving picture machine, comprising a diaphanous band
10 provided with a legend pertaining to the subject matter of the film of the moving picture machine, and means for moving the said band across the film at the projecting area of the moving picture machine to cause
15 a simultaneous projecting of the film matter and the legend of the band.

2. In combination with a moving picture machine, an unwinding drum, a winding-up drum, the said drums being mounted on opposite sides of the said moving picture machine, a diaphanous band unwinding from the said unwinding drum and winding up on the said winding-up drum, the said band being provided with a legend and the band
25 passing across the film at the projecting

area of the moving picture machine, and means for turning the winding-up drum.

3. In combination with a moving picture machine, an unwinding drum, a winding-up drum, the said drums being mounted on opposite sides of the said moving picture machine, a diaphanous band unwinding from the said unwinding drum and winding up on the said winding-up drum, the said band being provided with a legend and the band
35 passing across the film at the projecting area of the moving picture machine, and means driven from the film-driving mechanism of the moving picture machine and connected with the said winding-up drum to
40 rotate the latter to wind up the said band and to draw the same across the film in unison therewith.

In testimony whereof I have signed my name to this specification in the presence of
45 two subscribing witnesses.

AUGUST H. F. KURRE.

Witnesses:

FRANK TOUSEY,

WILLIAM G. DECKER.

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