J. R. HUNT.

ADJUSTABLE APERTURE PLATE.

APPLICATION FILED JAN. 23, 1920.

1,357,983. **Patented Nov. 9, 1920.**

FIG. 1

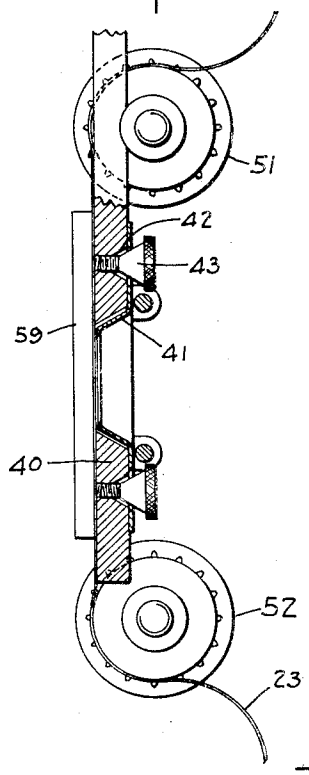


FIG. 2

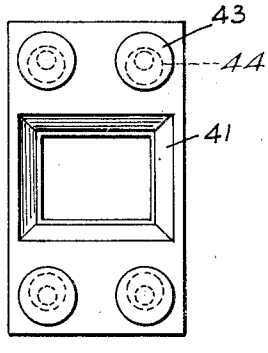
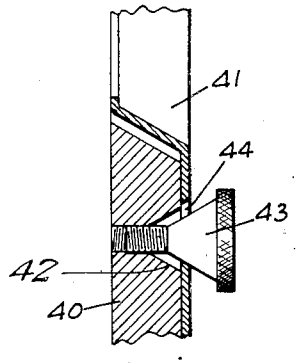


FIG. 3



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JOHN ROY HUNT, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO INTERNATIONAL MOVING PICTURE & FILM COMPANY, A CORPORATION OF TENNESSEE.

ADJUSTABLE APERTURE-PLATE.

1,357,983. Specification of Letters Patent. Patented Nov. 9, 1920.

Original application filed June 16, 1919, Serial No. 304,686. Divided and this application filed January 23, 1920. Serial No. 353,390.

To all whom it may concern:

Be it known that I, JOHN ROY HUNT, a citizen of the United States, and a resident of Indianapolis, county of Marion, and State of Indiana, have invented a certain new and useful Adjustable Aperture-Plate; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like numerals refer to like parts.

This invention is divided out of my former application filed June 16, 1919, No. 304,686 for machine for projecting colored moving pictures; and it relates to means for easily effecting adjustment of the aperture plate in the machine for printing or for projecting motion pictures.

One feature of the invention consists in providing the aperture plate with a screw hole in each corner thereof and a screw passing eccentrically through each screw hole for securing the plate to the frame, whereby the aperture plate can readily be given quite a variety of adjustments in order to bring the aperture in exactly the desired location.

The full nature of this invention will be understood from the accompanying drawings and the following description and claim:

In the drawings Figure 1 is a vertical section through a portion of the feeding, tracking and aperture mechanism of moving picture projecting machine. Fig. 2 is an elevation of the aperture plate with the screws shown by dotted lines. Fig. 3 is a portion of Fig. 1 on a larger scale.

There is shown in the drawings herein a film 23, a tracker plate 40 having the usual opening therein controlled by the aperture plate 41.

The tracker plate has holes 42 with the outer ends inclined for receiving the screws 43 which extend through holes in the aperture plate 41 and secure it to the tracker plate.

In order to make the aperture plate adjustable radially in various directions in order to bring the aperture therein in proper location, the holes 44 in the aperture plate through which the screws 43 project are eccentric with relation to the holes 42 in the tracker plate. That is, said holes 44 do not register squarely or eccentrically with all of the holes 42, as shown in Fig. 2, and since the screws 43 have conical heads, by screwing some of the screws in farther than others, the plate 41 can be adjusted vertically, laterally, diagonally or angularly. Thus it can be given direct vertical adjustment as a whole or direct transverse adjustment, or one end can be adjusted in one direction, or both ends adjusted laterally in the opposite directions.

The film is fed by the brackets 51 and 52 and between the tracker plate and the guide bar 59.

The invention claimed is:

A machine for projecting motion pictures including a frame, an aperture plate with a screw hole in each corner thereof, and a screw passing eccentrically through each opening for securing the plate to the frame, whereby the aperture can be readily adjusted.

In witness whereof I have hereunto affixed my signature.

JOHN ROY HUNT.