I. M. KELLEY.

PHOTOGRAPHIC FILM.

APPLICATION FILED OCT. 8, 1917.

1,286,341. Patented Dec. 3, 1918.

Fig. 1.

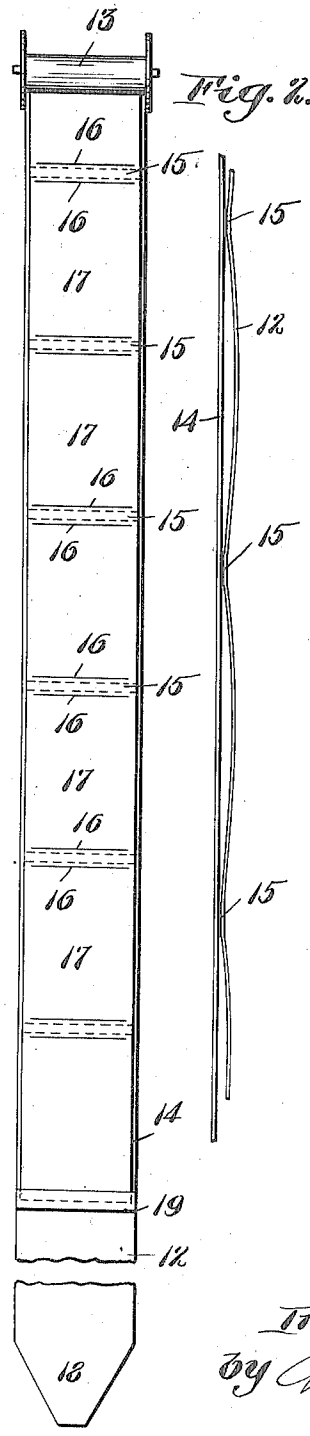


Fig. 2.

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PHOTOGRAPHIC FILM.

1,286,341. Specification of Letters Patent. Patented Dec. 3, 1918.

Application filed October 8, 1917. Serial No. 195,295.

To all whom it may concern:

Be it known that I, IRVIN M. KELLEY, a citizen of the United States, and resident of Laconia, in the county of Belknap and State of New Hampshire, have invented certain new and useful Improvements in Photographic Films, of which the following is a specification.

This invention relates to photographic films of the type known as roll films, and the object of my invention is to provide an improved film which, although so constructed as to provide a series of exposures capable of being developed in the ordinary way, by hand or in a developing machine, will enable the user to make one or more exposures and remove and develop them in a dark room and restore the unused portion of the film to the camera for later exposing.

A further object is to provide a film of this character which, like the ordinary film, provides for a straight and even pull to hold each section flat during exposure. Separate cut films usually buckle or warp.

To these ends my invention consists in the improved film substantially as hereinafter described and claimed.

Of the accompanying drawings:

Figure 1 is a face view of my improved device.

Fig. 2 is an edge view of a portion of the sensitized film and its backing or carrying strip, on a larger scale.

The opaque backing or carrying strip 12 and its carrying spool 13 are or may be the same as commonly used for some years.

Referring now to drawing, the sensitive film 14 is transversely cemented to the strip 12 at intervals as at 15, said film preferably having, at each side of and close to the line of cement, an indication of where the film may be cut, as with scissors. The indications may consist of lines 16 lightly printed upon or impressed in the film. As best shown by Fig. 2, the length of each portion of strip 12 from one cemented point 15 to the next exceeds the length of film between the same two points so that when any section of the film is in position for exposure the portion of strip that is behind said section will be slack, the pull of the strip being transmitted to the film, through said cemented points, so as to hold the said section taut and flat. To facilitate an understanding of the invention, each film section to be acted upon, when exposed, is indicated at 17.

The film and its opaque carrying strip are wound as usual on the carrying roll for marketing, and the end of the strip has a terminal 18 for connection with the usual winding-up roll (not shown) of the camera. The end of the film 14 nearest the terminal 18 of the strip 12 may be secured to said strip in the usual manner, as by a cemented transverse strip 19.

All of the sections 17 can be successively exposed and then developed, in the customary manner, without separation of any sections, as the film is continuous. If, however, it is desired to develop the first one or more of the sections, without waiting until all sections have been exposed, the user can, in the dark room, detach the one or more sections that have been exposed, by cutting on the line 16. As the carrying strip remains intact, and as the unexposed sections are attached thereto, the whole can be returned to the camera with the strip terminal 18 reconnected to the winding-up roll.

Having now described my invention, what I claim is:

1. As a new article of manufacture for the purposes described, a carrier strip having an elongated sensitized film attached thereto at its ends and at intermediate spaced intervals, means being provided to indicate proper locations for cutting the film to remove sections thereof from the strip without separating remaining portions of the film from the strip.

2. As a new article of manufacture for the purposes described, a carrier strip having an elongated sensitized film attached thereto at its ends and having pairs of cutting indications at regular intervals, said strip and film being connected together between the cutting indications of each pair and being otherwise free from each other, whereby sections of film may be cut away individually without disturbing other sections.

In testimony whereof I have affixed my signature.

IRVIN M. KELLEY.