

PATENT SPECIFICATION

Convention Date (France) : Dec. 27, 1924.

245,118

Application Date (in United Kingdom) : Dec. 18, 1925. No. 32,089 / 25.

Complete Accepted : June 20, 1927.



COMPLETE SPECIFICATION.

Improvements in or relating to the Reproduction of Photographic Images on Films having Lenticular Elements thereon.

We, SOCIÉTÉ DU FILM EN COULEURS KELLERDORIAN, of 42, rue d'Enghien, Paris, France, a body corporate organised under the laws of France, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to improvements in the reproduction of photographic images on films having lenticular elements thereon.

It has been proposed to print on films having lenticular elements, from a negative on a similar film, by illuminating the said negative and projecting the image on to the positive film material, through a camera objective in which is placed a colour selector filter. However, the interstices between the lenticular elements on the positive film, allow white light to pass through, thereby producing a fading effect on the colours when the positive picture is projected on a screen.

In order to overcome this disadvantage, according to the present invention, the positive lenticular film is fogged or rendered dark in the interstices between the useful portions of each of the lenticular elements. This is achieved by exposing the positive film (either before or after the exposure for printing) to light projected through a camera objective associated with a central stop thereby forming a ring of illumination which is of such a size that the useful portion of each lenticular element is covered by the image of the stop, while the remaining intermediate portions between the lenticular elements are exposed to the ring of illumination. The said intermediate portions are thus darkened so that colours of the image when the positive picture is subsequently projected on the screen

are not weakened by light passing through clear spaces between the lenticular elements.

Referring to the accompanying drawing,

Figure 1 shows a diaphragm for use with a camera objective. A is a central stop and B is a ring of illumination.

The diaphragm C in Figure 2 may be located within the camera objective D, the film E being positioned so that its lenticular elements F face towards the objective; or as in Figure 4 the stop may be placed between the camera objective and the film. A collimating lens G can be placed between the film and the stop C, as shown in Figure 3.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A photographic printing process for use with films having lenticular elements thereon, characterised by darkening or fogging the positive film in the interstices between the lenticular elements, by exposing it to light projected through a camera objective associated with a central stop, before or after the exposure for printing.

2. The photographic printing process, substantially as described with reference to the accompanying drawings.

3. Photographic films when treated by the process according to Claim 1 or Claim 2.

Dated this 18th day of December, 1925.

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Fig.1.

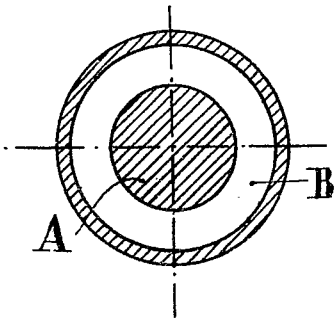


Fig.2.

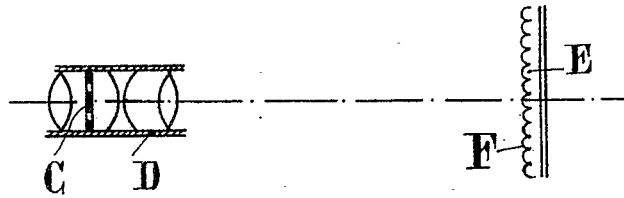


Fig.3.

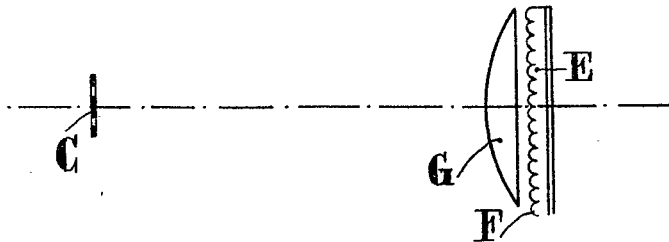
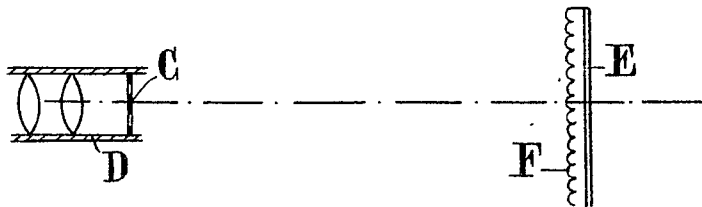


Fig.4.



[This Drawing is a reproduction of the Original on a reduced scale.]