

PATENT SPECIFICATION



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COMPLETE SPECIFICATION.

Improvements in Photographic or Cinematographic Films Provided with Lenticular Elements for Natural Colour Photography Purposes.

We, KELLER-DORIAN & CIE, a French company, of 42, rue d'Enghien, Paris, France, Assignees of STE. KELLER-DORIAN BERTHON ET CIE, a French company, of the same address, 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:—

Processes for colour photography and cinematography are known in which the support in the complete film has a screen of microscopic lenticular elements.

Such screens which are generally formed in the body of the support by calendering the film with hollow engraved cylinders the pattern of which is embossed on the said support, are described for example in Berthon's Specification No. 10,611 of 1909. It has been found that with the size of lenticular elements hitherto employed, the images of the said elements were separately visible on the projection screen.

It was proposed in Specification No. 24,698 of 1914 to use lenticular elements of a width or diameter of about $\frac{1}{25}$ of a millimeter, but according to the present invention the said elements are of a width or diameter less than $\frac{1}{25}$ of a millimeter. Only if the said elements are reduced to

this size is it possible to obtain the desired colour selection without the images of the microscopic elements being separately visible on the projection screen.

It will be appreciated that with a given thickness of film, the smaller the lenticular elements the smaller their relative aperture. Therefore, it is an advantage of the invention that the relative aperture of the lenticular elements is smaller than has been proposed hitherto and consequently the microscopic images of the three-colour screen are better defined than formerly, this resulting in a more accurate rendering of colour.

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:—

A photographic or cinematographic film for natural-colour photography provided with a screen of microscopic lenticular elements characterised in that the said elements are of a width or diameter less than $\frac{1}{25}$ of a millimeter.

Dated this 4th day of December, 1923.

KELLER-DORIAN & CIE,
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Chartered Patent Agents.