

N° 24,698



A.D. 1914

(Under International Convention.)

Date claimed for Patent under Patents and Designs Act, 1907, being date of first Foreign Application (in France). } 29th Dec., 1913.

Date of Application (in the United Kingdom), 28th Dec., 1914.

At the expiration of 12 months from the date of the first Foreign Application, the provision of Section 91 (3) (a), of the Patents and Designs Act, 1907, as to inspection of specification, became operative.

Accepted, 23rd Dec., 1915.

COMPLETE SPECIFICATION.

Improved Method of Manufacturing Photographic Films for the Projection of Images in Natural Colours.

I, ALBERT KELLER-DORIAN, of 5, Chemin Rampon, Lyons, France, Manufacturer, 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:—

- 5 This invention relates to an improved method of manufacturing photographic films of the kind in which the surface of the film is covered with transparent refracting lines or points comprising an infinite number of objectives and used for the purpose of reproducing images of objects in the colours of nature with the assistance of colour screens.
- 10 It is known to obtain the lenticulation of such films by rolling them at a suitable temperature between a smooth cylinder and a cylinder carrying in intaglio the engraving of the embossing to be formed on the film.
- In my improved method of manufacturing such films the films at a suitable temperature are passed between a hard and rigid cylinder carrying the engraving
- 15 and a counter cylinder having an elastic surface the elasticity of which allows varying in an extremely delicate manner the depth of the impression of the engraved surface of the film and consequently also of varying the profiles of the formed refracting elements.
- The engraving on the cylinder or plate is obtained by known means that is to
- 20 say, by means of very accurate dividing and cutting machines. This engraving on the plate or cylinder may be sunk or in relief. The points or dots can be round, lenticular or conical or they may be triangular or square or provided with facets. The dots or points can be arranged in lines and in regular formation or they can be engraved irregularly.
- 25 The annexed drawing illustrates on a greatly enlarged scale three forms of films are shown.
- In fig. 1 the refracting elements or objectives are of square pyramidal shape.
In fig. 2 they are in the form of hemi-spherical members arranged in quincunx.
In fig. 3 they are in the form of hexagonal pyramids.

[Price 6d.]

Improved Method of Manufacturing Photographic Films in Natural Colours.

By the use of the elastic surfaced counter roller very delicate manipulation of the impression can be obtained so that refracting elements of such small size as from 100 to 500 per square millimeter can be successfully and accurately formed on the sensitive film the obtention of such minute objectives being essential for the purpose for which the films are used.

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

1. In a method of manufacturing photographic films for the projection of images in natural colours the obtention of microscopically lenticulated films by passing them between two cylinders one of which is hard and rigid and has its surface engraved with the pattern of the lenticulations and the other has an elastic surface and forms a counter-roller the elasticity of which allows of varying the depth of the impression of the engraved surface on the film and consequently also the profiles of the formed refracting elements.

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2. Films obtained by the method claimed in claim 1 wherein the refracting elements thereof are arranged and have the shapes as herein described and as illustrated in Figs. 1 2 or 3 of the annexed drawing.

Dated this 28th day of December 1914.

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FIG. 1

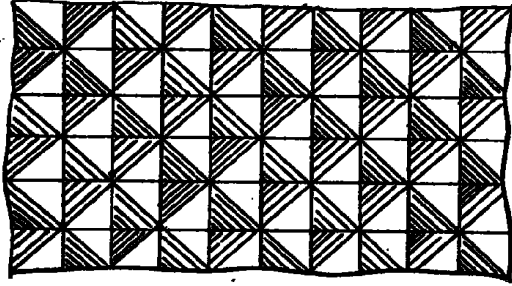


FIG. 2

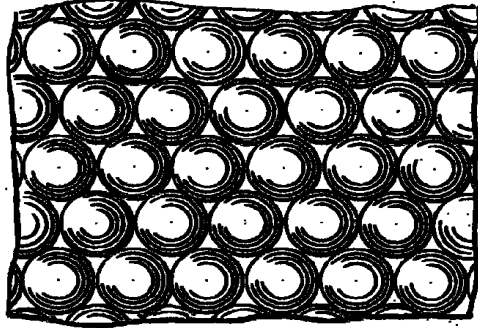
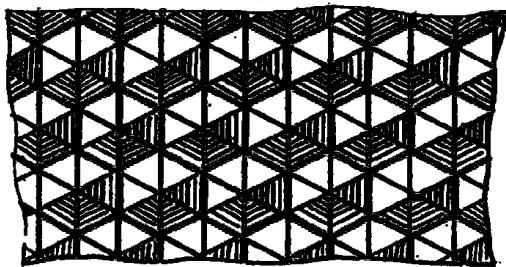


FIG. 3



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