

NOTE.—The application for a Patent has become void, and the Specification is published in accordance with the provisions of the Patents Act, 1901.

N<sup>o</sup> 19,202



A.D. 1905

(Under International Convention.)

Date claimed under Patents Act, 1901, }  
being date of first Foreign Application (in } 23rd Sept., 1904  
Germany),

Date of Application (in the United Kingdom), 22nd Sept., 1905

Under Section 1 (2) of the Patents Act, 1901, this Specification became open to public inspection at the expiration of twelve months from the date of the application in Germany

Complete not accepted

#### COMPLETE SPECIFICATION.

#### “ Process for the Preparation of Three-colour Screens for use in Colour\*Photography ”.

I, ROBERT KRAYN, of No. 24A Marien Strasse, Berlin, Germany, Engineer, 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 The present invention relates to a process for the production of three colour screens for colour photography according to the Jolly process. The invention effects the production of an absolutely uniform three colour screen of any required fineness, which is covered with the panchromatic layer sensitive to light, and through which the exposure is effected.
- 10 My process consists in pouring a transparent fluid material which when spread out in a thin layer rapidly dries to a thin skin (such as collodion) in three layers coloured according to the three principal colours orange-red, yellow-green and blue in equally maintained sequence in very thin layers upon a horizontal plate so often one over another until the sum of the separate
- 15 layers forms a sufficiently thick block. From this block are then cut transversely to the layers thin veneers in the well known manner and these are polished on both sides. The thin celluloid plates thus constructed form an extremely fine and uniform three colour screen. If this screen be covered with a panchromatic layer sensitive to light, and the exposure of this layer
- 20 be effected through the screen, then after development a negative will be obtained which when viewed by transmitted light in consequence of its combination with the screen appears in the complementary colours of the object photographed. From this there may be obtained from reproduction by means of a similar plate which contains the colours red, green and violet, a dia-
- 25 positive in the natural colours of the object photographed.

The casting plate required for the carrying out of the process can be made of glass or metal plates. As the first layer it is advisable to form a colourless celluloid layer as it is done for roll films. After the drying of this ground

[Price 8d.]



*Process for the Preparation of Three-colour Screens for use in Colour Photography.*

layer, the thin quick drying collodion layers are cast upon it in invariable equal sequence of the colours.

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:—

Improved process for the production of three colour screens for colour photography in which thin transparent quick drying layers of collodion or other suitable material coloured in the three principal colours are superposed in invariably equal sequence of colours one on the other until the sum of these layers forms a block of the required size, thereupon the block is cut into thin plates transversely to the stratification which plates are subsequently polished, substantially as set forth.

Dated this 22nd day of September 1905.

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