

NOTE.—The application for a Patent has become void.

This print shows the Specification as it became open to public inspection.

# PATENT SPECIFICATION

Convention Date (Germany): Jan. 13, 1927.

283,548

Application Date (in United Kingdom): Dec. 31, 1927. No. 35,403 / 27.

Complete not Accepted.

## COMPLETE SPECIFICATION.

### Improvements in or relating to Films.



We, "SIRIUS" KLEUREN FILM MAATSCHAPPIJ, a Dutch Company, of Utrecht, Netherlands, (Assignees of HANS HORST, of 22, Kaiser-Allee, Berlin-Wilmersdorf, Germany) 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:—

10 The present invention relates to films and more particularly to a film strip covered with light sensitive layers on both sides for the production of coloured animated pictures and by means of which 15 pictures in particularly clear colours may be obtained.

It is known to produce subtractive two c. three colour films by covering a carrier of celluloid or the like on both sides with 20 layers of sensitive emulsions and copying the part pictures of the negative film on these positive films in such a manner that the individual colours cover one another when viewed against the light.

25 It is then, for instance, necessary to prevent that the one picture, which may correspond with red part pictures, when exposed to the light in the copying frame acts through the carrier and exposes the 30 back of the green part picture to the light, so that two different part pictures are located in a single layer.

As a remedy it has been proposed either to colour the carrier itself with a bright 35 colour, such as yellow, or to coat the carrier on both sides with opaque layers located between the celluloid and the halogen silver gelatine.

40 We have found a new way to simplify this last mentioned process still further. We have ascertained that it is not necessary to apply the opaque layers on both sides of the celluloid carrier, but that it is quite sufficient to provide one side of 45 the carrier only with an opaque layer whereby both sensitive layers are simultaneously protected against wrong light.

The new or improved film thus has the following structure; a layer of light sen-

sitive emulsion, an opaque intermediate 50 layer, a carrier of celluloid and a layer of light sensitive emulsion.

The opaque layer may be stained in known manner by means of peroxide of 55 manganese or an inactinic dyestuff soluble in the developing and fixing baths.

By the presence of a single opaque layer special advantages are obtained. The 60 casting of the double layer raw film is considerably simplified and the developing and fixing baths last longer because a film provided with a single intermediate layer compared with a film with two 65 such layers consume only one half the quantity of sulphite and other oxidisable substances, from which the life of the baths substantially depends.

The intermediate layer specified, furthermore, differs from the already known 70 intermediate layers in that it does not act as a filter for the light, but renders all the light harmless which may have passed through the front layer, so that it cannot 75 change the second layer photo-chemically.

Various modifications and changes may be made without departing from the 80 spirit and the scope of the invention.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to 85 be performed, we declare that what we claim is:—

1. A double coated film for colour kinematography and covered with light 85 sensitive layers on both sides in which an opaque layer is provided intermediate a carrier or foundation and one of the light sensitive emulsion layers on one side 90 only of such layer, the layer being adapted to dissolve in developing and fixing baths substantially as described.

2. A method of preparing a double coated film for colour kinematography 95 consisting in coating a carrier or foundation on one side only with an opaque layer and then applying a light sensitive emulsion layer on the outer surface of such coating and on the upper surface of

the carrier or foundation substantially as described.

5 3. A double coated film for colour kinematography consisting of a light sensitive emulsion layer, a carrier or foundation, an opaque layer and a second light sensitive emulsion layer all in the order enumerated substantially as described.

4. A double coated film for colour kinematography prepared substantially as 10 described.

Dated this 24th day of December, 1927.

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Chartered & Registered Patent Agents.