PUBLISHED

MAY 4, 1943.

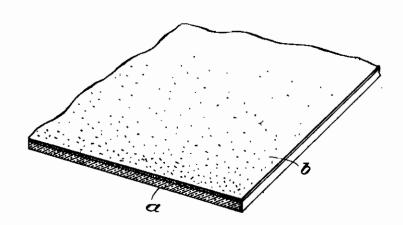
BY A. P. C.

J. SPECHT

FILTER-SCREEN

Filed May 25, 1942

Sial No. 444,354



Inventor: Tohann Spekt Tenstrukus Penstrukus Adorney

## ALIEN PROPERTY CUSTODIAN

## FILTER-SCREEN

Johann Specht, Leverkusen-Kuppersteg, Germany; vested in the Alien Property Custodian

## Application filed May 25, 1942

30

This application is a division of my copending patent application Ser. No. 369,451, filed December 10, 1940.

My invention relates to a filter screen for use in color photography.

By the filter screen the light is decomposed into its component colors in exact conformity with the colors emitted from the object, the negative becoming graduated in accordance with the values of the colors. After the exposure the 10 colored filter screen is free for other exposures, the negative being now capable of letting pass only such color-rays as correspond to the graduation of its sensitive layer.

The new filter-screen forming the object of the present invention is illustrated in perspective view in the accompanying drawing.

The filter-screen consists of a support a, covered with a single layer b, in which all colors in conformity with the colors of the positive material or at least the three basic colors, thoroughly mixed with one another, are contained in form of emulsions. The support a may be of glass or Celluloid or another transparent material. Of course during the exposure the colored layer must touch the sensitized layer of the negative material.

For producing the filter-screen the following receipt I may be followed.

Receipt I	
Distilled waterc. cm	100
A saturated solution of gum arabic, at	
least grms	70

To 100 c. cm of this solution 20 c. cm glycerine are to be added.

Now mix with one another:

5	Distilled waterc. cm	100
	Glycerinedo	20
	So-called filter violetgrms_	4

(This is a compound  $C_{23}H_{17}N_3O_4S_3Na_2$ ) On the other hand a hardening solution is prepared according to the following

## Receipt II

15	Distilled	water	 . cm	100
	Chrome	alum	 rms	

Of this hardening solution 15 c. cm are to be added to said color emulsion, thoroughly mixing both at 35° C. Thereafter the whole is slowly 20 evaporated with continuous stirring and then the resulting product is poured on glass plates. After solidification the foil is ground to a fine powder and the required quantity thereof is mixed with the different color emulsions and spread on the 25 support a.

In any event for these emulsions the same colors are to be used as for the layers used for the positive material.

JOHANN SPECHT.