S. J. CARROLL. PHOTOGRAPHIC FILM AND COMPOUND SUPPORT. FILED FEB. 25, 1921.

Photographically Sensitive.

Layer.

Cellulose Ether Layer

Cellulose Ether Layer

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WITNESS

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INVENTOR Stewart J. Carroll, BY R.L. Stinchfield

ATTORNEY

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PHOTOGRAPHIC FILM AND COMPOUND SUPPORT.

Application filed February 25, 1921. Serial No. 447,846.

Be it known that I, Stewart J. Carroll, of a film embodying my invention. a citizen of the United States of America, The nitrocellulose support 1 carries on 5 Monroe and State of New York, have in- tive layer 3 being carried on either ether vented certain new and useful Improve- layer 2. ments in Photographic Film and Compound By way of example, I may dissolve 100 clear, and exact specification.

This invention relates to a photographic 170 parts of ethyl alcohol. Some acetone invention is to provide a film with a support 446.782, filed Feb. 21, 1921. 15 having the usual qualities demanded by This film with its compound support is 20 charges (commonly called "static") are pre-

vented or very greatly minimized. Other objects will hereinafter appear.

Ordinary photographic film, particularly such as is used in motion picture work, gen-But I have found that it can be improved so containing a cellulose ether. as to diminish the fire risk involved in 2. A photographic film having its sensi-30 handling it and so as to minimize the possitive layer carried on a compound film suphave been able to accomplish by coating or ing nitrocellulose coated on both faces with varnishing both faces of the nitrocellulose ethyl cellulose. support with a layer of cellulose ether, of 3. A compound support comprising a 35 the kind indicated in U. S. Patent No. layer containing a cellulose ester bearing on compound cellulosic support thus produced ether. is finally coated with the gelatino-silver 4. A compound support comprising a haloid emulsion or other suitable photo- layer containing nitrocellulose coated on 40 graphic layer. If this layer be one that is each face with a layer containing a celluespecially sensitive, my compound base lose ether. greatly minimizes the possibility of static Signed at Rochester, New York, this 17th trouble cropping out.

In the accompanying drawing the figure

To all whom it may concern: is a sectional view on an exaggerated scale 45

residing at Rochester, in the county of each face a cellulose ether layer 2, the sensi-

Supports, of which the following is a full, parts of ethylcellulose in a compound solvent composed of 340 parts of benzol and film with a compound cellulosic sheet which may also be added to promote adhesion, 55 is particularly adapted for use as a support if desired, as indicated in a copending apin photographic film. The object of this plication of Albert F. Sulzer, Serial No.

commercial conditions in the photographic resistant to static, and the presence of slow- 60 art, which will also possess a diminished burning ether on the surface of the nitrate rate of burning, and will be so constituted appreciably slows down the rate of combusthat the markings due to electrical dis- tion of the latter, thus diminishing the fire risk.

> Having thus described my invention, what 65 I claim as new and desire to secure by Letters Patent is:

1. A photographic film having its sensi-25 erally embodies a support of nitrocellulose. tive layer carried on a compound support, As usually composed, this support has the the latter comprising a layer containing ni- 70 essential qualities for commercial work. trocellulose bearing on each face a layer

bility of static. These desirable effects I port, the latter comprising a layer contain- 75

1,188.376, Lilienfeld, June 20, 1916. The each face a coating containing a cellulose 80

day of February 1921. STEWART J. CARROLL.