UNITED STATES PATENT OFFICE.

FREDERICK W. HOCHSTETTER, OF NEW YORK, N. Y., ASSIGNOR TO PAUL M. PIERSON, OF SCARBORO-ON-THE-HUDSON, NEW YORK.

COMPOSITION OF MATTER FOR RESTORING THE PICTURES ON FILMS.

1,139,683. Specification of Letters Patent. Patented May 18, 1915.

No Drawing. Application filed October 7, 1913. Serial No. 793,933.

To all whom it may concern:

Be it known that I, FREDERICK W. HOCHSTETTER, a subject of the Emperor of Germany, and a resident of New York, county and State of New York, have invented a certain new and useful Composition of Matter for Restoring the Pictures on Films, of which the following is a full, clear, and exact specification.

This invention relates to a modified composition of matter disclosed in my pending applications Serial Number 732,465, filed November 20, 1912, Serial Number 770,177, filed May 27, 1913, Serial Number 771,689, filed June 4, 1913, Serial Number 774,864, filed June 20, 1913, Serial Number 785,091, filed August 16, 1913, and Serial Number 793,892, filed October 7, 1913.

My invention has for its object primarily to provide a composition of matter adapted to be utilized for permitting moving picture films to be conveniently restored for exhibition purposes after the film has become hard and brittle, and the transparency of the pictures thereon having become blurred by blemishes due to being scratched and the collection of dust or the like as is incident to the methods at present in use when a film is transmitted through a projecting apparatus, the said composition serving to effectually restore the flexibility of the film by softening its texture as well as clearing the photography of the pictures by removing from the scratches and the surface thereof all particles of foreign substances.

The composition of matter consists of the following ingredients, combined in the proportions stated, viz;—a fatty base, such as lard, tallow, bees wax, paraffin, spermaceti, petrolatum, or any suitable animal, vegetable, or mineral fat 6 ounces, sulfuric ether, by weight 1 ounce.

The ingredients are thoroughly mingled by agitation in a suitable receptacle, and a desired quantity of the mixture or emulsion thus formed is applied by means of a friction pad or dauber upon the surfaces of the moving picture film to form a coating thereon. If the film is especially hard and brittle it may be subjected to the action of the coating for a given period of time, and then by the employment of a suitable friction pad the coating is rubbed until the emulsion has softened the texture of the film and the crevices of the scratches have been thoroughly penetrated. The film is afterward subjected to slight friction by the use of a cleaning pad, and with the removal of all surplus of the coating the particles of dust and foreign substances will be cleared from the scratches and from the photography of the pictures. The flexibility of the film and the transparency of the pictures will thereby be restored, and the "flickers" or "rain" removed therefrom. Thus moving picture films which have become hard and brittle, and the pictures blemished by scratches or the collection of dust and the like may be treated in this manner by my composition so as to be exhibited many times.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

A restorative for moving picture films comprising a fatty base six ounces, and sulfuric ether one ounce, substantially as described and for the purpose specified.

This specification signed and witnessed this sixth day of October A. D. 1913.

FREDERICK W. HOCHSTETTER.

Witnesses:
ROBT. B. ABBOTT,
M. DERMODY.