Patented Oct. 13, 1925. 1,556,973

UNITED STATES PATENT OFFICE.

NATHAN SULZBERGER, OF NEW YORK, N. Y.

ASBESTOS COMPOSITION.

No Drawing. Application filed October 3, 1921. Serial No. 505,097.

To all whom it may concern:

Be it known that I, NATHAN SULZBERGER, a citizen of the United States, residing at New York, in the county of New York, State of New York, have invented certain new and useful Improvements in Asbestos Compositions; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in asbestos compositions and more particularly transparent and translucent sheets, films, etc., which contain asbestos together with other ingredients compounded therewith.

The invention is based upon the discovery that asbestos paper, made, for example, with an inorganic binder such as an inorganic colloid, will form a transparent film or sheet if treated or compounded with a suitable varnish or other material.

For example, an asbestos paper, suitable for use in making the transparent asbestos compositions, may be made with the aid of colloidal aluminum silicate as a binder. If thin asbestos paper made in this way, and prepared with for example, about 10% colloidal aluminum silicate, is dipped (dried and redipped, if desired) in a varnish such as that known to the trade as spar varnish (and made up of a mixture of china-wood oil, ester gum and a drier dissolved in benzene and turpentine) and the thin varnish layer is then permitted to dry, the resulting paper or film is transparent and is also given a considerably increased strength due to the compounding of the varnish with the asbestos paper. The asbestos may be treated at varying temperatures with the varnish, etc. Other suitable and desired material may be embodied with the asbestos, which will not destroy its translucent property.

Where the varnish or cellulose derivative compounded with the asbestos is inflammable, additional ingredients may be added to destroy or reduce the inflammability. If the compounding ingredients do not sufficiently waterproof the asbestos, additional waterproofing agents may be added; also agents of other nature which will not destroy the translucency.

The composite products made as above described are available for various purposes. They may be used for example, for electric insulation or for coating purposes, or as a transparent covering, or for making transparent films for photographic and other purposes.

I use the term translucent as generic to include films or paper which may also be transparent, as well as translucent films or paper that may not be transparent.

I claim:

1. A transparent paper or film including asbestos.

2. A transparent thin flexible paper or film containing asbestos compounded with varnish ingredients.

3. A translucent thin flexible paper or film including asbestos compounded with colloidal aluminum-silicate.

4. A translucent thin flexible paper or film made of asbestos compounded with material which will maintain its translucency.

5. A translucent paper or film made of asbestos coated with spar varnish.

6. A translucent film made of asbestos and colloidal aluminum-silicate and coated with spar varnish.

7. A thin translucent asbestos paper or film which is both translucent and waterproof.

8. A thin translucent asbestos paper or film containing an inorganic colloid and which is water resistant.

9. A thin translucent sheet or film including asbestos, compounded with colloidal aluminum silicate and suitably waterproofed.

In testimony whereof I affix my signature.

NATHAN SULZBERGER.

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