

UNITED STATES PATENT OFFICE.

JULIUS WESSEL, OF NEW YORK, N. Y.

WATERPROOFING COMPOSITION.

No. 823,246.

Specification of Letters Patent.

Patented June 12, 1906.

Application filed May 11, 1905. Serial No. 259,995.

To all whom it may concern:

Be it known that I, JULIUS WESSEL, a citizen of the United States, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Waterproofing Compositions, of which the following is a specification.

The object of my invention is to overcome difficulties experienced in waterproofing fabrics owing to the improper density or the objectionable odor or to the dyeing or coloring effects of the compositions in common use.

Paraffin is the basis of the compositions generally employed; but its density even when melted is too great for the proper impregnation of the fabric, and the reducing agents, as turpentine, benzin, &c., either impart an odor to or change the dye in the fabric treated. Further, some of the agents employed make mixtures which are deleteriously affected by changes in temperature, the volatile portions being driven off by heat. To avoid these results, I combine with the paraffin what is known on the market as "liquid albolene," the same being a bleached hydrocarbon which is odorless, of uniform density under all usual temperatures, not affected by such temperatures, and which when mixed with liquefied paraffin will combine therewith and make a stable mixture. The liquid albolene consists chiefly of hydrocarbon of the marsh-gas series and is prepared from petroleum by distilling off the more volatile portions and purifying that portion of the distillate having the proper consistence, the specific gravity being about 0.875 to 0.945 at 59°

Fahrenheit. The albolene and paraffin are used in the proportion generally of twenty parts of liquid albolene to seventy-five parts of paraffin, and with these are combined five parts of stearic acid, the proportions, however, being varied according to the character of the fabric to be treated. This composition has proved effective as one which will readily penetrate and coat the fabrics without discoloring even the most delicate tints and without imparting any odor whatever to the fabrics.

The stearic acid has proved to be an important factor in this composition, as without it the goods treated by the albolene and paraffin mixture have a greasy unctuous character, which makes them objectionable to handle, while the addition of the stearic acid results in overcoming this result, so that the waterproofed goods can hardly be detected by their feel from those that have not been treated.

I claim as my invention—

A composition of matter for the purpose specified, consisting of a mixture of pure white paraffin and a colorless distillate of petroleum of the specific gravity of 0.875 or 0.945 and stearic acid.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JULIUS WESSEL.

Witnesses:

HARRY N. WESSEL,
HERBERT LUSCOMB.