

UNITED STATES PATENT OFFICE.

WALTER S. HANNA AND JOSEPH D. BRYANT, OF COLUMBUS, OHIO.

PAINT AND VARNISH REMOVER.

No. 870,508.

Specification of Letters Patent.

Patented Nov. 5, 1907.

Application filed April 8, 1907. Serial No. 366,759.

To all whom it may concern:

Be it known that we, WALTER S. HANNA and JOSEPH D. BRYANT, citizens of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Paint and Varnish Removers, of which the following is a specification.

The object of this invention is to provide an improved paint and varnish remover of economical and effective form.

The remover, according to our invention and as we manufacture it, is made by mixing the following materials in the following recited quantities by weight, to-wit: fat in the form of lard or tallow, five pounds; nitric acid, two pounds; rosin oil, twelve and one-half pounds; benzol, three hundred and fifty pounds; alcohol, three hundred and fifty pounds; oil of citronella, two and one-half pounds. We prepare or mix these materials, in the proportions stated, in the following manner, to-wit: The benzol and lard or tallow are mixed together and heated in a kettle to the boiling point and for the purpose of dissolving the lard or tallow. We then remove the kettle from the fire and add to the mixture therein the alcohol, and after this the acid, and finally the rosin oil and oil of citronella. The dissolving of the fat is promoted by stirring, and we also stir the contents of the kettle when adding the other ingredients.

The function of the fat and rosin oil in our compound is to retard evaporation of the benzol and alcohol when the compound is applied for the purpose of softening the paint or varnish to be removed. The rosin oil also gives volume, imparts an attractive color and renders the mixture more freely fluent.

The function of the nitric acid is to attack and "cut" the varnish or paint to be removed, and the function of the benzol and alcohol is to soften the paint or varnish and make it easy of removal. It may be that there are some other or different functions performed by these ingredients but those stated we believe to be the important ones. It may be also that there are some

chemical reactions but we are not advised as to these. Our practice has taught us that the compound as we prepare it is effective for the purpose stated.

Rosin oil is the second distillate of the sap of the pine tree after the spirits of turpentine have been distilled off. The rosin oil may be omitted. The oil of citronella may also be omitted, as this is merely added for the purpose of imparting a pleasant odor to the remover. Any other suitable perfuming material can be used in the place of the oil specified for this purpose.

We do not wish to be understood as confining ourselves to precisely the respective or relative quantities of the materials specified, nor to the recited order and manner of mixing them, although our experiments have demonstrated that the best results are obtained by the compound manufactured as particularly set forth.

The remover should be applied with a brush to the paint or varnish desired to be removed, and after a few moments it may be wiped off with a cloth, taking with it the softened varnish or paint, as the case may be.

What we claim and desire to secure by Letters Patent is:

1. A compound for the purpose specified prepared of fat, nitric acid, rosin oil, benzol, and alcohol.
2. A compound for the purpose specified prepared of fat, nitric acid, rosin oil, benzol, alcohol and a perfuming material.
3. A compound for the purpose specified prepared of fat, nitric acid, benzol, and alcohol.
4. A compound for the purpose specified prepared of fat, nitric acid, benzol, alcohol, and oil of citronella.
5. A compound for the purpose specified prepared of fat, nitric acid, benzol, alcohol and a perfuming material.
6. A compound for the purpose specified prepared of fat, nitric acid, rosin oil, benzol, alcohol and oil of citronella.
7. A compound for the purpose specified, prepared of fat, a suitable acid, rosin oil, benzol and alcohol.

WALTER S. HANNA.
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Witnesses:

BENJAMIN FINCKEL,
ALICE B. COOK.

no ref.