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UNITED STATES PATENT OFFICE.

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WOOD-PRESERVING COMPOSITION.

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Our invention relates to the preservation of wood of all kinds from the deleterious effects of the elements as well as against the ravages of all kinds of destructive insects such as toredos, termites, etc., and it refers especially to a preservative which may be applied without the intervention of heat, either with a brush as for paint, or by immersion.

One of the objects of our invention is to furnish a cheap and convenient method of preserving wooden buildings, pilings, wharves, the hulls of ships, telegraph poles, wooden silos, and wooden structures of all kinds, whether exposed or unexposed.

Another object of our invention is to provide a cheap and suitable preservative for wood which may be used as a priming coat and filler, preparatory to the application of any kind of paint with the exception of white paint.

A further object of our invention is to provide a wood preservative which may be applied easily and cheaply without the use of heat, and which will penetrate the pores of the wood and fill the same with a substance which hardens in the pores.

A still further object of our invention is to provide a wood preservative which may be applied in any manner suitable to the application of paint and which will penetrate the pores of the wood to which it is applied, and carry with it certain poisons which are destructive of toredos, termites, ants, worms and other insects which destroy the wood fibre.

Our composition consists of the following ingredients in about the following proportions:

Paraffine oil	2	gallons
Naphthalene	2	gallons
Benzol	3	gallons
Creosote (light	2½	gallons
Creosote (heavy)	2½	gallons
Oil of coal tar	5	gallons
Cement	5	pounds
Hydrated lime	5	pounds
Sulphur	5	pounds
Paris green	20	ounces.

In the preparation of our composition, we place our paraffine oil in a suitable container in which the whole of the ingredients may be thoroughly mixed. To the paraffine oil we add the naphthalene and thoroughly mix with the paraffine oil before any other ingredients are put in. Next is added the benzol, then the creosote, both light and heavy, and last the oil of tar, keeping the mixture in the meantime in constant agitation.

After these ingredients are thoroughly incorporated, we add thereto, while the mass is in constant agitation, the cement, hydrated lime, sulphur and Paris green, in the order named. These should be added slowly, and each succeeding one should be added only after the previous one has become thoroughly incorporated with the general mixture. The last four named ingredients are first reduced to an impalpable powder.

After these ingredients are in and this mixture is thoroughly incorporated, it is ready to be placed in cans or other suitable receptacles for storage or shipment as may be desired. It will not deteriorate by time to any appreciable extent and is unaffected by climatic conditions, but it should be kept free from the air to prevent the evaporation of the volatile oils.

By the use of this composition the fibre of the wood on which it is used is penetrated and saturated with poisons destructive to the life of insects which burrow in wood, and the cement and the lime fill the pores and harden therein, thus preventing the evaporation or dissipation of the poisons.

In giving the proportions of the various ingredients used in our composition, we desire to be understood as giving them in the quantities which we consider the best, but we do not confine ourselves strictly to these proportions, as they may be slightly varied without materially detracting from the value of the composition; and it is to be understood that in and by the claims following the description herein we intend to cover our invention in whatever form it may be embodied.

We are aware that some of the ingredients used in our composition have been and are used in the preparation of a variety of wood preservatives, but we are not aware that any or all of them have ever been used or prepared in the manner in which we are using and preparing them.

Having described our invention, we claim:

1. The herein described wood-preserving composition consisting of about the proportions of 2 gallons of paraffine oil, 2 gallons of naphthalene, 3 gallons of benzol, 2½ gallons of light creosote, 2½ gallons of heavy creosote, 5 gallons of oil of tar, 5 pounds of ce-

ment, 5 pounds of hydrated lime, 5 pounds of sulphur, and 20 ounces of Paris green.

2. The herein described wood-preserving composition comprising of about the proportions of 2 gallons of paraffine oil, 2 gallons of napthalene, 3 gallons of benzol, 2½ gallons of light creosote, 2½ gallons of heavy creosote, 5 gallons of oil of tar, 5 pounds of cement, and 5 pounds of hydrated lime.

3. The process of forming a wood-preserving composition which comprises in placing paraffine oil in a suitable container, adding naphthalene thereto, and thoroughly mixing said paraffine oil and said naphthalene, adding bezol and creosote and oil of tar, while agitating the mass, and finally adding powdered cement and powdered hydrated lime, all in about the proportions stated.

4. The process of forming a wood-preserving composition which consists in placing paraffine oil in a suitable container, adding naphthalene thereto, and thoroughly mixing said paraffine oil and said naphthalene, adding benzol and creosote and oil, while agitating the mass, and finally adding powdered cement and powdered, hydrated lime, powdered sulphur and powdered Paris green, all in about the proportions stated.

In testimony whereof we affix our signatures.

CHARLES WILLIAMS.
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