

UNITED STATES PATENT OFFICE.

JOSEPH W. PUTNAM, OF NEW ORLEANS, LOUISIANA.

WOOD-PRESERVING COMPOUND.

SPECIFICATION forming part of Letters Patent No. 405,908, dated June 25, 1889.

Application filed May 13, 1889. Serial No. 310,630. (No specimens.)

To all whom it may concern:

Be it known that I, JOSEPH W. PUTNAM, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented new and useful Improvements in Compounds for Preserving Timber, of which the following is a specification.

The object of my invention is to provide an improved compound for the purpose of preserving timber from decay and for protecting it from the attacks of land and marine animals.

My invention consists in a wood-preserving compound containing rosin, creosote, and pine-wood oil, (or oil extracted from resinous timber by destructive distillation,) and may also contain petroleum, crude or refined, or its products.

Heretofore the oils employed in the preservation of timber have been used in a very volatile condition, and are liable to be dissipated and their preservative qualities lost under the action of air, heat, and moisture.

While the oils remain in the timber they are a protection against decay and the ravages of insects; but as the oils usually employed are to a certain extent soluble in water they are liable to be washed out or removed by the action of water on the wood.

By the addition of rosin to the oils usually employed they are rendered more tenacious and their staying qualities greatly increased, so that wood saturated with a suitable mixture of rosin and

oil is made more durable and better able to resist the attacks of insects and marine animals and the deteriorating influences of air and moisture. According to my present invention I prefer to employ a mixture of rosin,

creosote-oil, and pine-wood oil; but I may also use petroleum (mineral oil) or its products, and instead of creosote I may use any oil from the distillation of coal-tar.

In preparing the compound the rosin and oils are mingled by natural solution or by heat, either natural or artificial, according to climate, ordinary summer temperature being sufficient to enable the oil or oils to dissolve the rosin. When artificial heat is employed, the temperature may be increased to 200° Fahrenheit, though the rosin and oil will readily combine at a lower temperature.

No particular proportions of the rosin and oils need be observed in preparing the compound, except that the quantity of oil or oils should be sufficient in excess of the rosin to facilitate its thorough solution, the object being to produce a compound possessing the preservative and protective qualities of the oils, and which can be forced into and through the timber while hot as readily as the oils, and which shall, when cool and at ordinary summer temperatures, remain too thick to readily flow out, and also become comparatively insoluble in water, either salt or fresh.

The compound may be applied to the timber in any suitable or well-known way.

I would have it understood that I do not herein claim a wood-preserving compound containing rosin, petroleum, and creosote-oil, as such is described and claimed in an application filed by me February 21, 1889, Serial No. 300,747; neither do I herein claim a compound containing rosin, petroleum, and pine-wood oil, as such is claimed in another application filed by me of even date herewith.

What I claim as my invention is—

A wood-preserving compound containing rosin, creosote, and pine-wood oil, substantially as described.

In testimony whereof I have affixed my signature in presence of two witnesses.

JOSEPH W. PUTNAM.

Witnesses:

GEO. W. REA,

JAMES A. RUTHERFORD.