

# UNITED STATES PATENT OFFICE.

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## COATING FOR PILES, &c.

SPECIFICATION forming part of Letters Patent No. 454,744, dated June 23, 1891.

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*To all whom it may concern:*

Be it known that I, FREDERICK E. LAMPERT, of San Francisco, in the county of San Francisco and State of California, have invented a new and useful Coating Compound for Piles, of which the following is a specification.

This invention relates to a compound for coating piles and other timber, and has for its object to produce a compound which, when applied to piles and other submerged timber as a coating before submerging the same, will prevent teredo and other worms boring into and weakening the same, and also preserve the timber against water-rot or decay.

With these objects in view my invention consists in compounding a mixture of coal-tar, asphalt, oxide of copper, fish-oil, oxalic acid, and salt, in the proportions hereinafter set forth, and then coating a stripped and trimmed pile or timber with said compound in a heated and liquid state.

In a compound of one hundred parts, by weight, the several ingredients are mixed in the following proportions: asphalt, seventy-three parts; coal-tar, nineteen parts; oxide of copper, four and three-fourths parts; fish-oil, two parts; oxalic acid, one-fourth part; salt, one one-hundredth part. These ingredients are thoroughly intermingled and heated until the mass assumes a liquid state, when a thorough mixture will take place.

In order to apply the coating compound, the pile or other timber to be submerged is preferably stripped of its bark and the knots trimmed down. The pile thus stripped and trimmed is then given a light coat of fish-oil and oxide of copper and allowed to dry. The compound is then applied when in a liquid state, and when dried the pile is ready for

use. The coating thus applied is impenetrable to the teredo and other boring worms, and also forms a compound which will act as a preservative against water-rot or decay, salt and fresh water having no effect upon the coating other than to harden the same. This coating will not chip or peel and climatic changes have no effect whatever upon it.

In order to protect the coating compound when the pile is being hauled up and placed, I secure a series of thin strips to the pile, extending from end to end of the same. These strips, about six in number, are placed around the pile, and in handling the same all damage will be sustained by the strips, thus preventing the coating compound being nicked or otherwise damaged.

Having thus described my invention, what I claim is—

1. A compound for coating piles and other timbers, consisting of a mixture of asphalt, coal-tar, oxide of copper, fish-oil, oxalic acid, and salt, in about the proportions specified, and for the purpose set forth.

2. A compound for coating piles and other timbers, consisting of asphalt, seventy-three parts; coal-tar, nineteen parts; oxide of copper, four and three-fourths parts; fish-oil, two parts; oxalic acid, one-fourth part, and salt, one part, all mixed in the manner specified.

3. An improved compound for coating piles, consisting of asphaltum, oxide of copper, fish-oil, oxalic acid, and salt, all mixed in about the proportions specified.

FREDERICK E. LAMPERT.

Witnesses:

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