

UNITED STATES PATENT OFFICE.

ROGER W. ARCHER, OF CORPUS CHRISTI, TEXAS.

IMPROVEMENT IN PROCESSES FOR PRESERVING WOOD.

Specification forming part of Letters Patent No. **153,515**, dated July 28, 1874; application filed June 8, 1874.

To all whom it may concern:

Be it known that I, ROGER W. ARCHER, of Corpus Christi, in the county of Nueces and State of Texas, have invented an Improved Process for Preserving Wood, of which the following is a specification:

My invention relates to a process which is designed more particularly for preserving timber from the ravages of marine insects.

The invention consists in first charring the surface of the wood, and then filling the crevices with sand and coating it with tar.

The wood is first burned until the surface is well charred. The crevices are then filled with dry sand or earth, by rubbing or rolling the wood in the sand, or by any other suitable means, and the surplus sand or earth is swept away, after which the surface is coated with hot coal-tar, applied with a mop, or in any other suitable manner. The friction thus caused mixes the sand, charcoal, and coal-tar together, forming a tough cement, and filling all the crevices. This process renders the wood water-proof, and effectually prevents de-

struction by the teredo and other marine insects. Pine-tar, asphaltum, or pitch may be used for the coating, but I prefer to use coal-tar.

I do not claim the carbonization of wood or timber by subjecting the same to the action of a flame of gas after the wood has been united in a structure; nor do I claim charring wood for the purpose of preventing decay; nor do I claim making a series of openings in wood or timber, and then inserting therein coal-tar and pulverized stone, for neither of such is my invention.

I claim as new and desire to secure by Letters Patent—

The mode herein described of preserving wood, the same consisting in first charring the wood in the usual manner, and then filling the crevices with sand, and then coating the whole with coal-tar, as set forth.

ROGER W. ARCHER.

Witnesses:

D. C. GROVES,
C. McTIERNAN.