

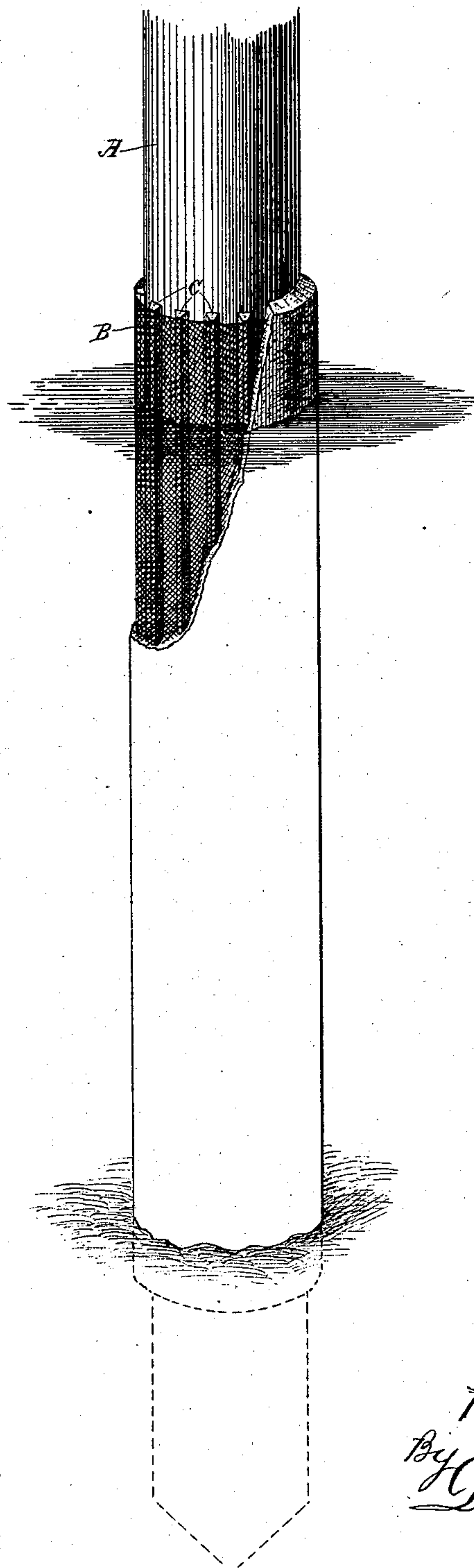
(No Model.)

R. W. GORRILL.

PILE PROTECTOR.

No. 372,141.

Patented Oct. 25, 1887.



Witnesses,
Geo. H. Strong
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UNITED STATES PATENT OFFICE.

RICHARD W. GORRILL, OF OAKLAND, CALIFORNIA.

PILE-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 372,141, dated October 25, 1887.

Application filed August 24, 1887. Serial No. 247,791. (No model.)

To all whom it may concern:

Be it known that I, RICHARD W. GORRILL, of Oakland, Alameda county, State of California, have invented an Improvement in Pile-Protectors; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to an improved device for protecting piles and other timbers from the ravages of marine insects; and it consists of an inclosing-covering of wire cloth, lath, or netting, with supports by which it is retained a short distance from the body of the pile, and a covering or filling of hydraulic cement or other setting compound.

Referring to the accompanying drawing for a more complete explanation of my invention, the figure shows a section of a pile with my coating or protecting devices.

A is the pile, and B is the wire net-work, which is preferably of that kind known as wire lath.

C C are vertical strips of metal, or other suitable material, secured to the pile at regular intervals, so that when the sheet of wire lath B is secured around the outside it will be supported at a short distance away from the outer surface of the pile. This wire lath is placed about the pile so as to extend from a point just above low-water line to a point just below the mud or bottom when the pile has been driven. After the wire lath has been secured in place, hydraulic cement or other setting compound having the proper consistency is spread upon the lath, being also forced through the interstices so as to form a complete filling between the lath and the body of the pile which it surrounds and protects, and it is

spread on thick enough to cover the outside of the wire lath as well. When the compound has set, it forms a complete stone or hard coating, surrounding the pile to such a depth that the wire lath is embedded in it, and is also protected from the action of salt-water thereby.

This coating forms a complete protection from all forms of marine insects, and will preserve the pile as long as it remains unbroken.

The wire netting or coating imbedded in it serves to prevent its easily breaking away, and is itself preserved by it from injurious action of salt-water.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. An improved protection for piles, consisting of the wire lathing or netting secured around the pile and the interstices afterward filled with hydraulic or other hard-setting cement, which is spread over it so as to embed the netting, substantially as herein described.

2. A protection for piles and other structures, consisting of a wire netting or lathing secured around the pile, vertical supports or strips by which it is kept out of contact therewith, and hydraulic or other hard setting cement spread over so as to fill the space between the netting and the pile and also cover the netting, substantially as herein described.

In witness whereof I have hereunto set my hand.

RICHARD W. GORRILL.

Witnesses:

GEO. H. STRONG,
S. H. NOURSE.