

(metallic)

5 lbs.

as pigment

Silica

Pine tar

Benzine

Kidney oil

Rosin

as vehicle

3/4 gal.

UNITED STATES PATENT OFFICE.

652,971

HARRY LOUDERBOUGH, OF JERSEY CITY, NEW JERSEY.

PAINT FOR SHIPS' BOTTOMS.

SPECIFICATION forming part of Letters Patent No. 652,971, dated July 3, 1900.

Application filed September 9, 1899. Serial No. 729,898. (No specimens.)

To all whom it may concern:

Be it known that I, HARRY LOUDERBOUGH, a citizen of the United States of America, residing at Jersey City, Hudson county, New Jersey, have invented certain new and useful Improvements in Antifouling-Paints, of which the following is a specification.

My invention relates to antifouling-paints for marine use.

Heretofore antifouling-paints have been used wherein copper constituted an essential ingredient of the paint; but many disadvantages were presented to the use of such paint. Thus, for instance, paint in which copper enters as an element cannot be used upon the bottoms of iron vessels, because of the liability of the paint to attack and corrode the iron, and if the paint is used upon wooden vessels it will corrode and destroy the iron bolts or fastenings. Furthermore, the use of copper renders the paint in which it is employed expensive.

The object of my invention is to overcome the disadvantages above pointed out and to provide a cheap and efficient antifouling-paint for marine use which may be applied to either iron or wooden structures—such as the iron or wooden bottom of ships, to docks, &c.—without injury thereto and which will preserve such structures from the encroachments of barnacle and vegetable growth and the teredo worm, so destructive to wooden structures.

To these ends my invention consists of a paint of the character to be hereinafter described and claimed.

In making an antifouling-paint in accordance with my invention I preferably employ to each gallon of the paint to be made three quarters of a gallon of a suitable vehicle, five pounds of a metallic antimony, and one and one-half pounds of a suitable metallic dry paint or pigment. The vehicle which I prefer to use consists of forty per cent. pine-tar, forty per cent. benzin, ten per cent. kidney-oil,

and ten per cent. rosin. The metallic dry paint or pigment preferably consists of forty per cent. metallic iron, fifty-five per cent. silica, and five per cent. metallic aluminium.

These substances or their equivalents are mixed with the metallic antimony in substantially the proportions specified, though obviously the proportions may be varied in accordance with the differences in condition and materials of the surfaces treated, though ordinarily I prefer to use the substances in the proportions stated.

A great advantage of the paint made in accordance with my invention other than those above enumerated is that it has great tenacity and can be applied to the bottoms of vessels, whether the same be wet or dry, and the vessels after having been coated with the paint can, without liability of injury to the paint, be immediately placed back into the water. Furthermore, the paint herein described can be made at about one-half the cost of the ordinary antifouling copper paint which is now in general use. It will thus be seen that paint made in accordance with my invention possesses many meritorious advantages over the copper paints heretofore employed.

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

1. An antifouling-paint comprising pine-tar, benzin, kidney-oil, rosin, a suitable metallic pigment, and antimony in substantially the proportions specified.

2. An antifouling-paint comprising a "vehicle," iron, silica, aluminium and antimony in substantially the proportions specified.

3. An antifouling-paint comprising pine-tar, benzin, kidney-oil, rosin, iron, silica, aluminium and antimony in substantially the proportions specified.

HARRY LOUDERBOUGH.

Witnesses:

CHARLES E. SMITH.

JOHANNA M. STROPP.