

UNITED STATES PATENT OFFICE.

PETER NAYLOR, OF NEW YORK, N. Y.

IMPROVEMENT IN METALLIC PIPE OR TUBING.

Specification forming part of Letters Patent No. 122,482, dated January 2, 1872.

To whom it may concern:

Be it known that I, PETER NAYLOR, of the city, county, and State of New York, have invented certain new and useful Improvements in Metallic Pipe or Tubing, of which the following is a specification:

My invention consists of pipe or tubing for plumbing, conveying water, and other uses, made of an alloy of lead and antimony in the proportions substantially as hereinafter described.

I take, in the one hundred parts, from ninety-five to ninety-nine of lead, and from five to one of antimony, and I then melt and thoroughly mix them together. I may at times increase the proportion of antimony—say one or two per cent, or even as high as ten of antimony to ninety of lead—to meet special cases; or I may at other times diminish the percentage. But for ordinary uses it will be found sufficient to make the alloy in the proportions first named. The pipe from this alloy is made in any of the known modes of making tubing, as, for instance, by hydraulic pressure, by pressing the metal out of a cylinder through a die, as in making lead pipe.

The advantages possessed by this tubing are many. The pipe is about twice as strong as common lead pipe, and can therefore be reduced in weight about one-half the weight of lead pipe. This renders it much cheaper than

lead pipe by the running foot. With this increased strength it retains great pliability, and can be worked in a similar manner to lead. As the metal is also harder and brighter than lead, better work can be executed in plumbing houses, &c., by its use.

I am aware that it has been proposed to use lead and antimony in combination, and that type-metal, usually mixed with other ingredients, has been made of such a composition; but I am not aware that pipe or tubing has ever before been made of lead and antimony, as specified, and possessing the characteristics of the tubing above described.

Other ingredients in small quantity might be combined with the lead and antimony without essentially affecting the alloy or changing its characteristics; and, therefore,

What I claim, and desire to secure by Letters Patent, is—

Metallic pipe or tubing, composed in the main or entirely of lead and antimony, in the proportions substantially as herein specified.

In testimony whereof I have signed my name to this specification before two subscribing witnesses.

PETER NAYLOR.

Witnesses:

GEO. G. FISH,
B. HAXTUN.

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