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UNITED STATES PATENT OFFICE.

ROBERT SKINNER, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN THE MANUFACTURE IN WATER-PIPES.

Specification forming part of Letters Patent No. 51,627, dated December 19, 1865.

To all whom it may concern:

Be it known that I, ROBERT SKINNER, of the city and county of San Francisco, State of California, have invented a new and Improved Mode of making Pipes for Carrying Water for Drainage and other Purposes; and I do hereby declare that the following is a full, clear, and exact description of the construction of the same.

The nature of my invention consists in covering sheet-iron, tin, or other metallic pipes with layers of paper or cloth dipped and saturated in resinous or tarry substances mixed with mineral, earthy, and carbonaceous matter.

To enable others skilled in the art or science to which it most nearly appertains, I will proceed to describe the component parts thereof and the manner of applying the same.

The metallic pipe, being formed of the requisite size, is first immersed in a bath composed of the following proportions, to wit: six pounds of brimstone to one gallon of coal-tar, well boiled together. The metallic tube thus prepared is placed over a revolving cylinder, and a cloth or paper covering immersed in a bath composed of brimstone and coal-tar, also well boiled, and rolled thereon in successive or continuous layers, and while in process of revolution coke-dust and slaked lime is uni-

formly sifted thereon for the purpose of hardening and giving body to the pipe.

To prevent the possible disagreeable taste of the water from the above method of preparing pipes for household or other uses I substitute mineral tar in place of coal-tar.

By the use of my method a cheap, hard, and durable pipe is obtained which is impervious to the action of water and free from any disagreeable taste.

Having thus described my invention for constructing water-pipes so as to enable others skilled in the art to make and use the same, I will now proceed to state what I claim and desire to secure by Letters Patent.

I claim—

The constructing of water-pipes by the use of layers of paper or cloth dipped and saturated in resinous or tarry substances, mixed with mineral, earthy, and carbonaceous matter, in about the proportions herein specified, and for the purpose set forth.

In witness whereof I have hereunto set my hand and affixed my seal this 10th day of May, A. D. 1865.

ROBERT SKINNER. [L. S.]

Witnesses:

C. W. M. SMITH,
J. C. HUTCHINSON.