

(Specimens.)

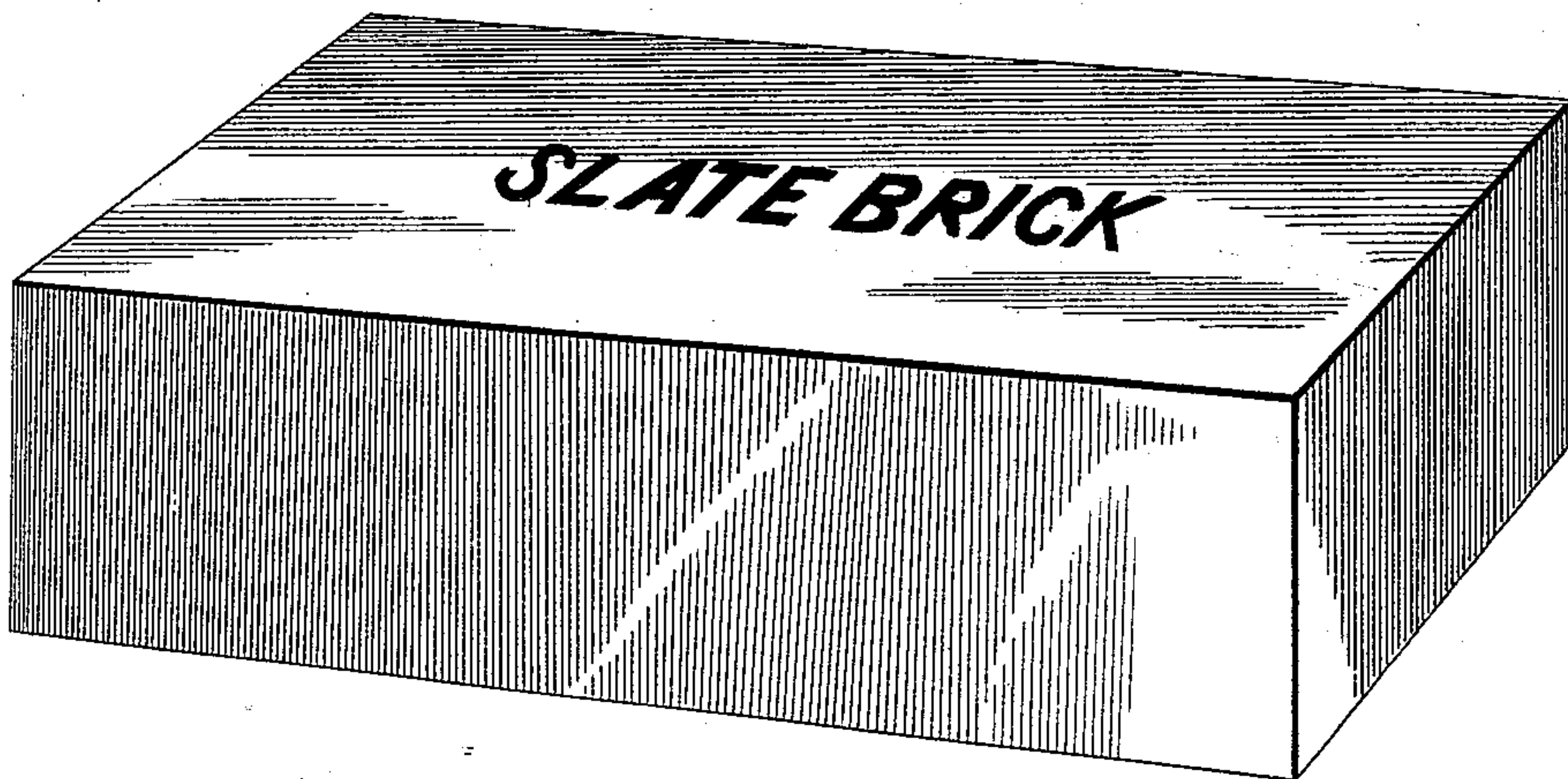
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BRICK, TILE, DRAIN PIPE, &c.

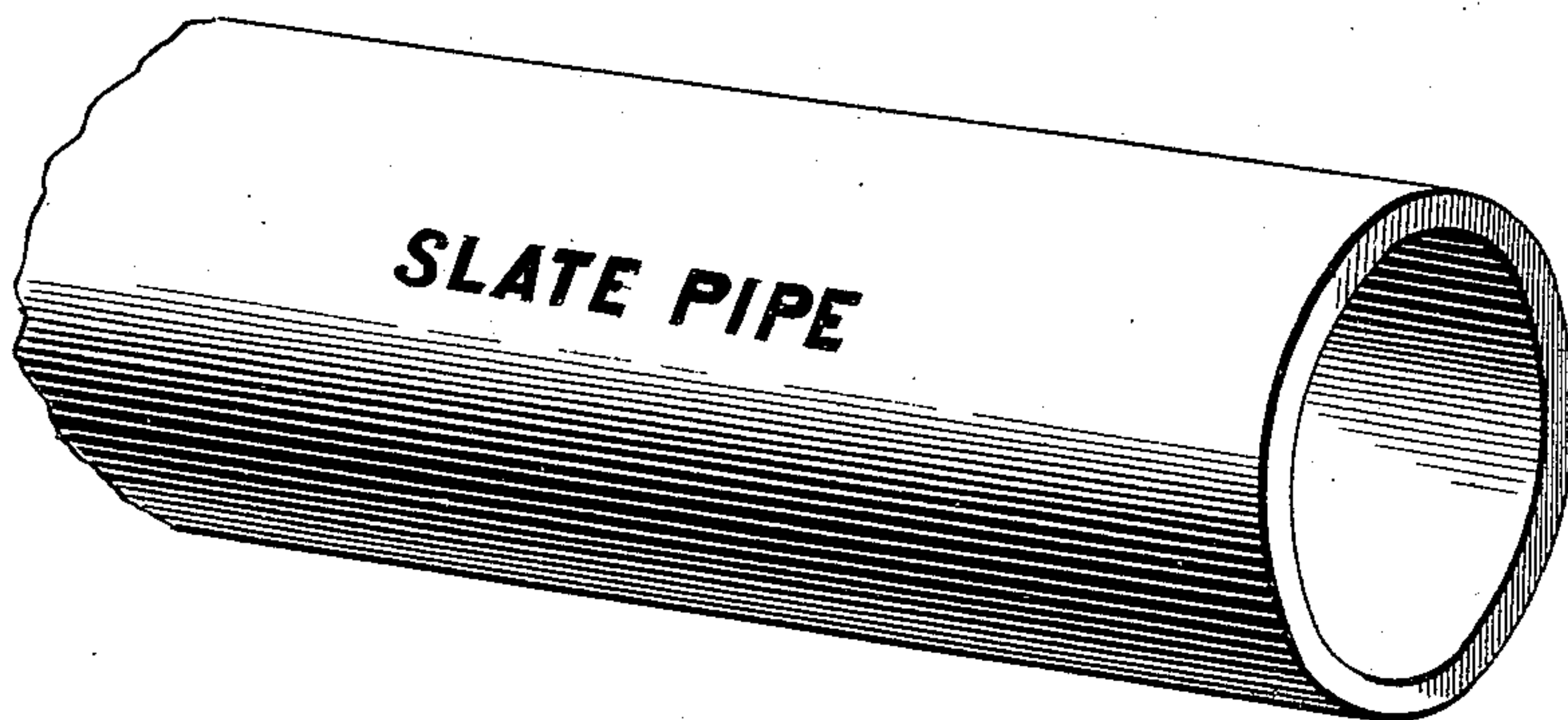
No. 313,480.

Patented Mar. 10, 1885.

*Fig. 1.*



*Fig. 2.*



*Witnesses.*

*A. Rupprecht.*  
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# UNITED STATES PATENT OFFICE.

HENRY DICKSON, OF PITTSBURG, PENNSYLVANIA.

BRICK, TILE, DRAIN-PIPE, &c.

SPECIFICATION forming part of Letters Patent No. 313,480, dated March 10, 1885.

Application filed August 11, 1884. (Specimens.)

*To all whom it may concern:*

Be it known that I, HENRY DICKSON, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Brick, Tile, Drain-Pipe, and Kindred Articles, of which the following is a full, clear, and exact description.

The object of my invention is twofold—first, to utilize the waste of slate quarries; and, second, to produce a brick, tile, drain-pipe, or similar article of finer grain, greater consistency and superior durability to those now in use.

I accomplish this object by the means hereinafter fully set forth.

Figure 1 of the drawings is a view in perspective of a brick, and Fig. 2 of a pipe.

It is a well-known fact that the waste from slate-quarries, accumulated in immense banks, forms a serious and oftentimes insurmountable obstacle to the continued successful working of the quarry. Through a series of experiments I have discovered that this waste slate, when properly pulverized, tempered, and burned, forms a material from which brick, tile, drain-pipe, and kindred articles may be manufactured of greatly superior quality and durability than that now obtained

from aluminous clay. Articles manufactured from said slate are about two-fifths greater in weight, and of corresponding consistency and strength.

In the practice of my invention I grind the refuse of slate-quarries in any manner well known to the trade. The quality of the product (in hardness, smoothness, and strength) of course largely depends upon the degree of fineness to which the slate is pulverized. During the progress of the grinding the material is tempered with water in the ordinary manner, and after grinding the slate is molded to the desired configuration and baked in kilns or ovens in the manner now practiced with brick, tile, drain-pipe, or similar articles, as the case may be.

What I claim as my invention is—

1. A brick, tile, or pipe made of slate.
2. A method of treating slate in making brick, tile, or piping, which consists, first, in pulverizing; secondly, tempering; thirdly, molding; and, finally, burning it, substantially as described.

HENRY DICKSON.

Witnesses:

LENOX SIMPSON,  
J. A. KURTZ.