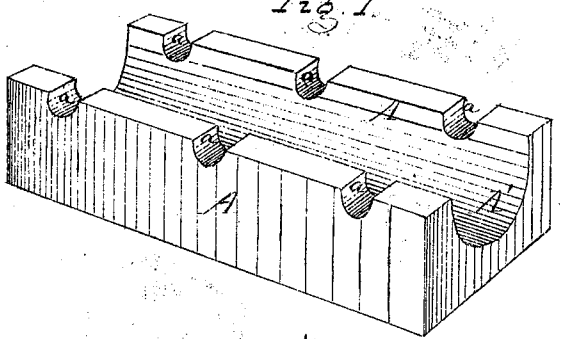
No 93890

Norris Jones.

Impd Brick Drain Tile.

PATENTED
AUG 17 1869

Fig. 1.



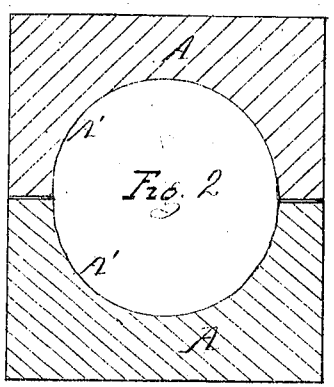


Fig. 2

Fig. 3

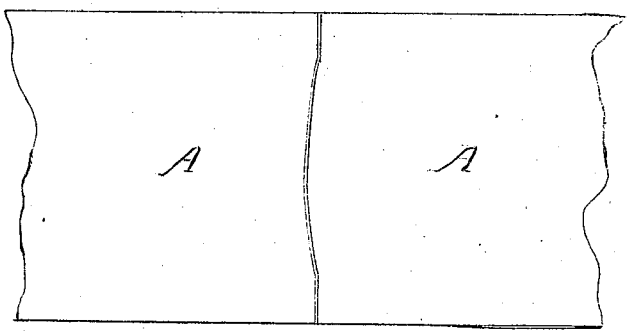
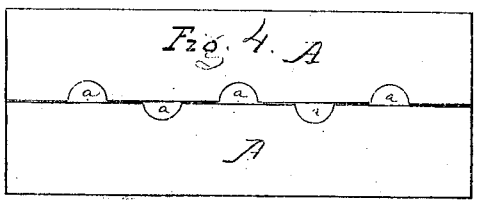


Fig. 4.



Attest
C. T. Clausen
A. Ruppert

Norris Jones
Inventor
D. P. Holloway & Co
Attys

United States Patent Office.

NORRIS JONES, OF CENTREVILLE, INDIANA.

Letters Patent No. 93,890, *dated August* 17, 1869.

IMPROVEMENT IN BRICK DRAIN-TILE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, NORRIS JONES, of Centreville, in the county of Wayne, and State of Indiana, have invented a Brick Drain-Tile; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 represents a perspective view of my brick drain-tile;

Figure 2, a transverse section of two united, forming a pipe or passage;

Figure 3, a plan or top view, showing the formation of the ends; and

Figure 4, a side view thereof.

Corresponding letters refer to corresponding parts in the several figures.

The nature of my invention consists in providing a brick having a semicircular groove in one side, and concave and convex ends, which may be used in building brick walls, for ventilating-purposes, or to form suitable passages in walls, in which to place gas and water-pipes, or which may be used as drain-tile for draining land, guttering sidewalks, &c.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A, in the drawings, represents a brick of my construction, which may be made of clay, as ordinary bricks, and of the same size as these, or any size which may be required.

In one side a semicircular groove, A′, is to be formed, and when it is to be used for drain-tile, a series of small semicircular recesses, *a*, may be made in this side, as shown in figs. 1 and 4, for the purpose of permitting the water to enter more freely.

These bricks are to be made with concave and convex ends, as shown in fig. 3, which will hold them firmly in place when laid; and, as the ends cannot warp, they will always fit well here.

By reference to figs. 2 and 4, it will be seen that in laying the bricks, the sides having the grooves are to be brought together, thus forming pipes through which water may be conducted, and affording a convenient means for ventilating brick walls, or of forming passages in them for gas and water-pipes.

Having thus described my invention,

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

A brick, having a semicircular groove in one side, and formed with concave and convex ends, substantially as described, and for the purposes set forth.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

NORRIS JONES.

Witnesses:
J. FORKNER,
J. B. JULIAN.