No. 855,652. PATENTED JUNE 4, 1907.

H. MORI.

DRAIN TILE.

APPLICATION FILED FEB. 19, 1907.

Fig. 1.

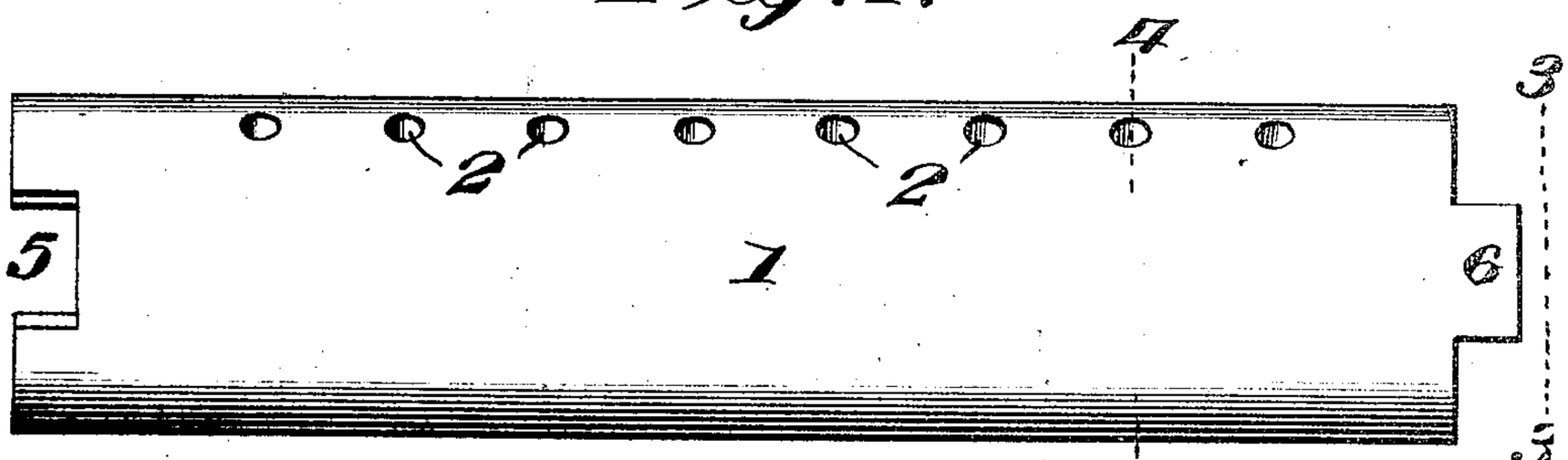


Fig. 2.

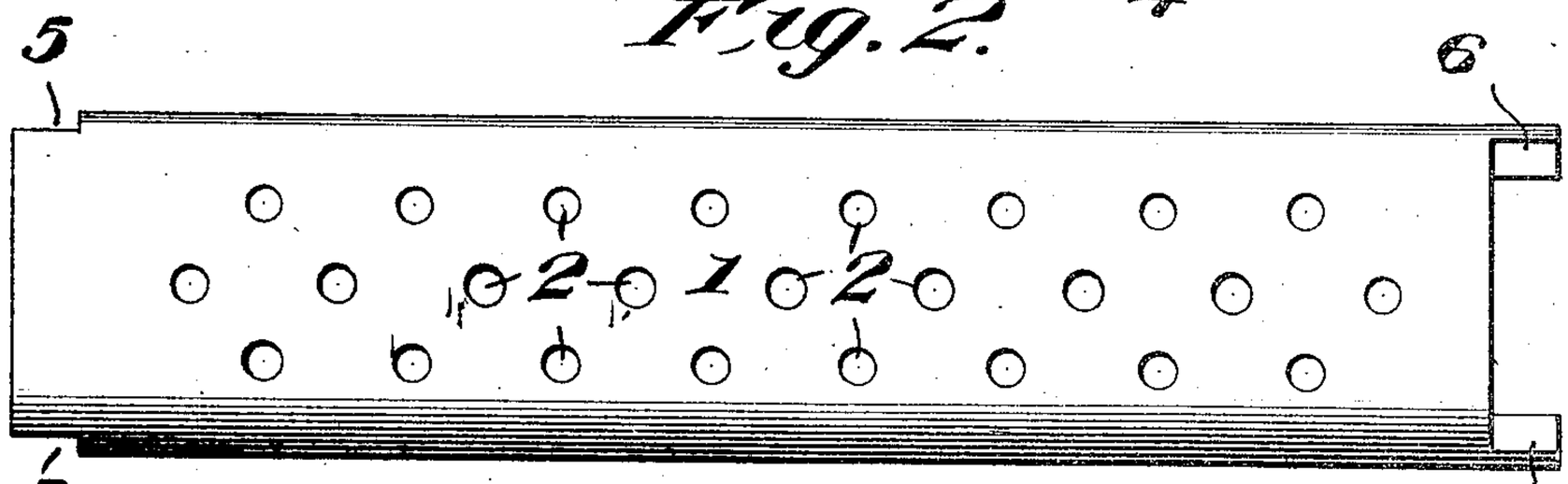


Fig. 3.

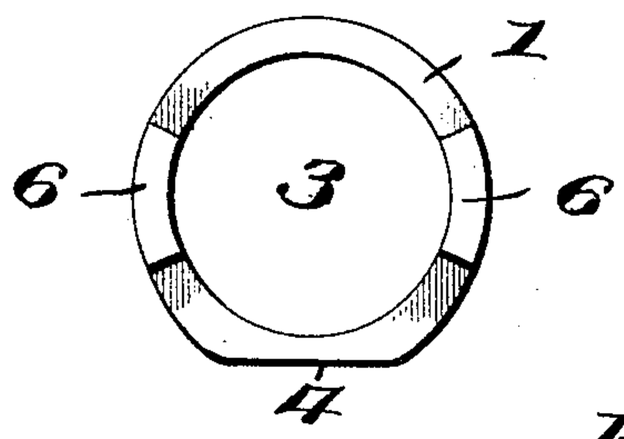


Fig. 4.

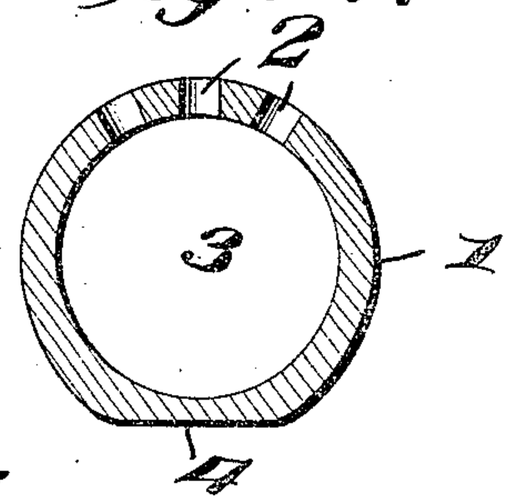
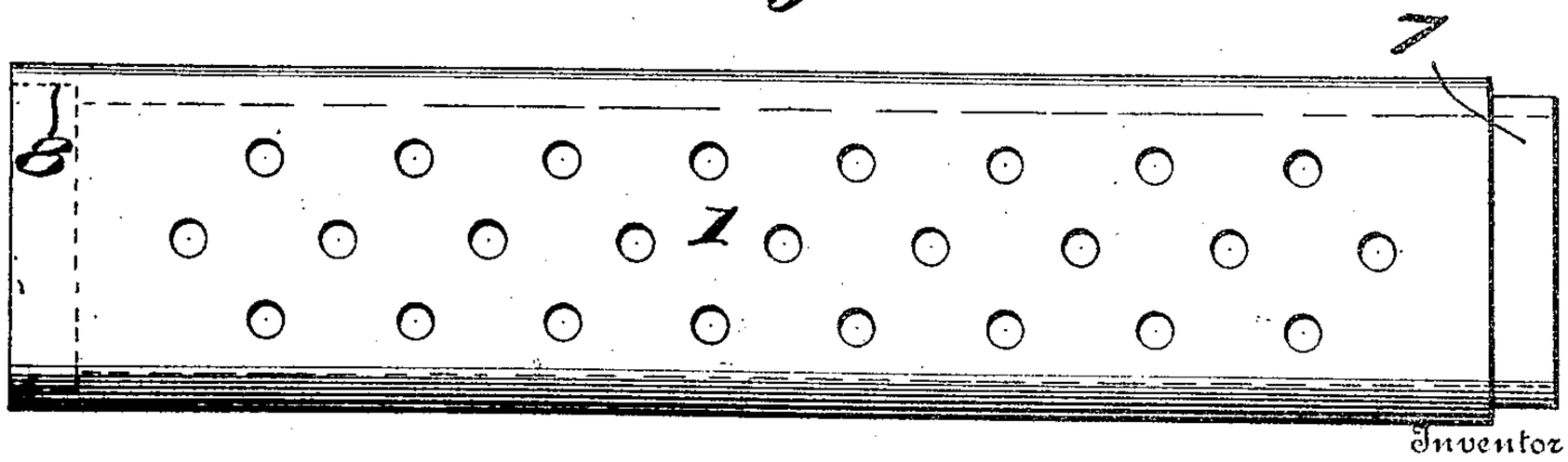


Fig. 5.



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UNITED STATES PATENT OFFICE.

HERMAN MORI, OF HARTVILLE, OHIO.

DRAIN-TILE.

No. 855,652. Specification of Letters Patent. Patented June 4, 1907.

Application filed February 19, 1907. Serial No. 358,299.

To all whom it may concern:

Be it known that I, HERMAN MORI, a citizen of the United States, residing at Hartville, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Drain-Tiles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to new and useful improvements in drain tile and my object is to provide a device of this kind whereby the water may have ready access to the tile and be carried off thereby and the gases collecting in the tile be permitted to escape.

A further object is to provide means for interlocking the meeting ends of the tile whereby the same will be prevented from becoming misplaced after being laid in the trench.

Other objects and advantages will be hereinafter referred to and more particularly pointed out in the claims.

In the accompanying drawings which are made a part of this application, Figure 1 is a side elevation of my improved form of tile. Fig. 2 is a top plan view thereof. Fig. 3 is an end elevation of the tile as seen on line 3—3 Fig. 1. Fig. 4 is a sectional view as seen on line 4—4 Fig. 1, and, Fig. 5 is a top plan view of a slightly different form of tile showing one end of the tile provided with a neck while the opposite end thereof is provided with a socket.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates a tile which is tubular and provided on its upper surface with a plurality of bores 2 through which the water, etc., percolating through the earth may readily enter the opening 3 disposed longitudinally through the tile. At a point diametrically opposite the bores 2, the outer surface of the tile 1 is flattened as shown at 4 so that when the tile is laid in a trench the same will be prevented from rolling or otherwise becoming casually displaced.

In manufacturing tile they are preferably made in sections and in order to secure the tile together and cause the opening in the several tile to register I provide slots 5 in one end of the tile, one upon each side thereof and at diametrically opposite points, and the opposite end thereof with similarly disposed tongues 6, the end walls of the slots 5 being tapered outwardly while the engaging edges of the tongues are correspondingly tapered to fit the tapered portions of the slots so that when the tongues upon one tile are placed into engagement with the slots upon the opposite tile said tiles will be held against lateral movement, the interlocking action of the tongues with the slots rendering the several tile substantially rigid from end to end of the drain.

In Fig. 5 of the drawings I have shown the tile as provided at one end with a reduced portion to form a neck 7 while the opposite end thereof is enlarged interiorly to form a socket which is adapted to receive the neck of the next succeeding tile and thereby forming means for readily securing the several tile together.

It will now be seen that I have provided a tile whereby the water or other seepages will have ready access to the tile and one wherein any gases entering the tile may have ready egress therefrom. It will further be seen that I have provided means for interlocking the several tile so that the same will be substantially rigid throughout the length of the drain.

What I claim is:

1. The herein described tile for drains having a flattened portion upon its outer surface and a plurality of openings at a point diametrically opposite the flattened portion, a pair of tongues at one end of said tile and a pair of slots at the opposite end thereof, said tongues and slots having tapered walls whereby when the tongues upon one tile are disposed into engagement with slots upon the next succeeding tile, said tongues and slots will be interlocked.

2. The herein described drain tile having a longitudinal opening therethrough, a flattened portion on the outer periphery of the

tile and extending longitudinally thereof to form a base, a plurality of bores through the walls of the tile at a point diametrically opposite the flattened portion and projecting means at one end of the tile adapted to interlock with sockets in the next succeeding tile.

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

HERMAN MORI.

Witnesses:
HUGO STANDKE,
H. HOERA.