No. 680,548. Patented Aug. 13, 1901.

J. F. SIKES.

DRAIN.

(Application filed May 8, 1901.)

(No Model.)

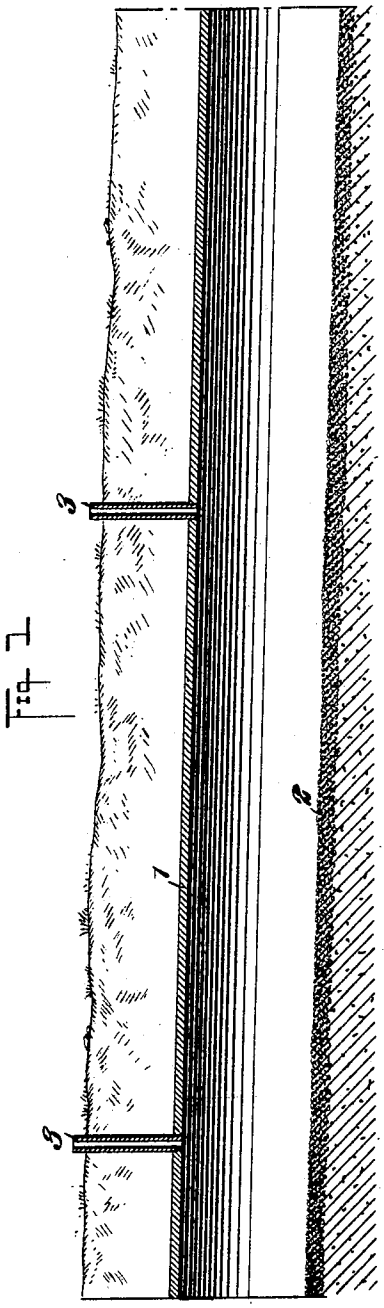


Fig. 1.

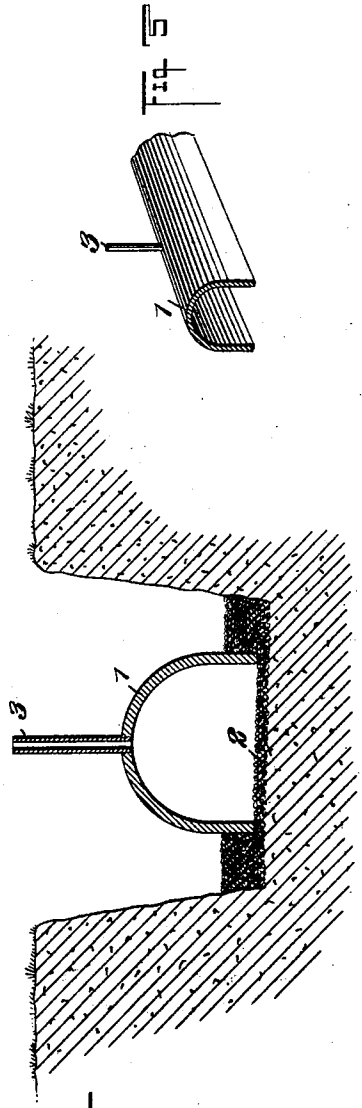


Fig. 2.

WITNESSES:

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JAMES FREDERIC SIKES, OF PALMA SOLA, FLORIDA.

DRAIN.

SPECIFICATION forming part of Letters Patent No. 680,548, dated August 13, 1901.

Application filed May 8, 1901. Serial No. 59,249. (No model.)

To all whom it may concern:

Be it known that I, JAMES FREDERIC SIKES, a citizen of the United States, and a resident of Palma Sola, in the county of Manatee and State of Florida, have invented a new and Improved Drain, of which the following is a full, clear, and exact description.

This invention relates to improvements in devices for drainage and irrigation; and the object is to provide a drain so arranged as to exclude silt or oil, whereby the water may have an uninterrupted flow through the drain.

I will describe a drain embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal section of a drain embodying my invention. Fig. 2 is a cross-section thereof, and Fig. 3 is a perspective view of a portion of the drain.

The drain comprises a pipe 1 of any suitable material, which is continuous or jointless. This drain is open at the bottom and rests upon a filter material 2, consisting of any suitable material—such, for instance, as loose gravel, shells, or the like. The drain-pipe is of course located below the surface of the ground, and extended from the drain at intervals above the surface of the ground are air-pipes 3, designed to permit the entrance of air to facilitate the flow of water and to introduce air to the lower soil.

In operation the drain being seamless or jointless and open at the bottom, the water must pass up through the filter material and then rise into the chamber or pipe to escape, so that the silt by reason of gravity cannot follow, even if passing the filter material.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. An open-bottom continuous drain-pipe, and a bed of filter material on which the pipe rests, substantially as specified.

2. An open-bottom continuous drain-pipe, a bed of filter material on which the pipe rests, and air-tubes leading upward from the drain, substantially as specified.

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

JAMES FREDERIC SIKES.

Witnesses:

J. A. FELTZ,

A. N. PILLSBURY, Jr.