No. 746,949. PATENTED DEC. 15, 1903.

H. D. GARDNER.

CESSPOOL.

APPLICATION FILED JULY 14, 1903.

NO MODEL.

Fig. 1

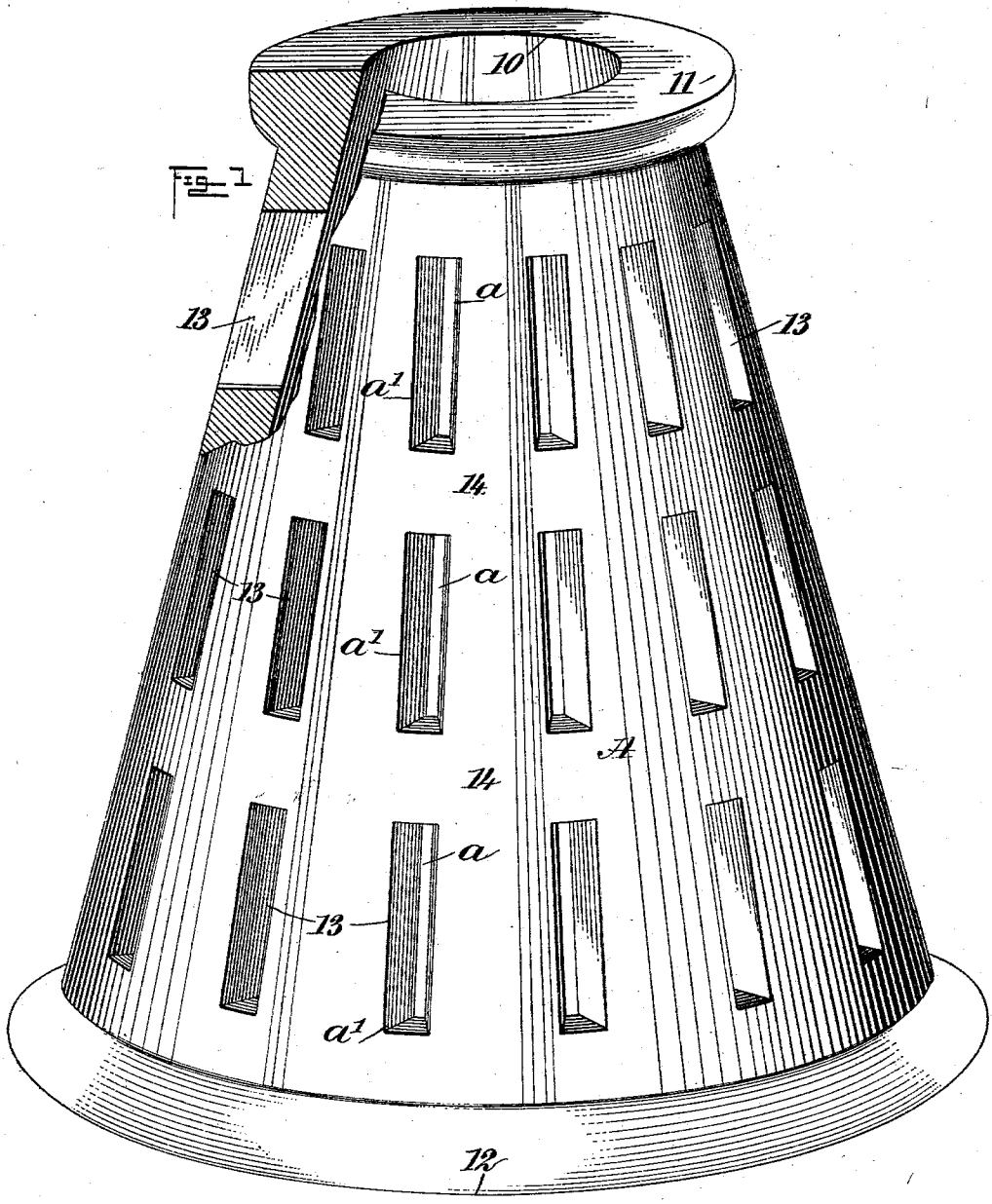
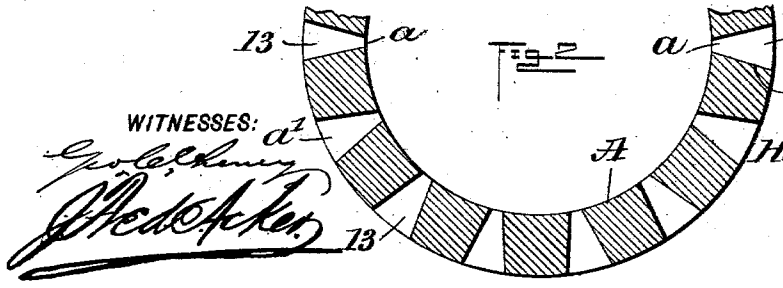


Fig. 2



WITNESSES:

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No. 746,949. Patented December 15, 1903.

UNITED STATES PATENT OFFICE.

HOWARD DILLWORTH GARDNER, OF NEW YORK, N. Y.

CESSPOOL.

SPECIFICATION forming part of Letters Patent No. 746,949, dated December 15, 1903.

Application filed July 14, 1903. Serial No. 165,414. (No model.)

To all whom it may concern:

Be it known that I, HOWARD DILLWORTH GARDNER, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Cesspool, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide a cesspool constructed in its entirety of cement, terra-cotta, or like waterproof material and which may be presented as a complete article of manufacture, being adapted particularly for draining surface water, and to so construct the article that it will be practically in the shape of the frustum of a cone, open at the top and bottom, the top being adapted to receive the regulation strainer or a trap, as desired, and, further, to provide the sides of the article with circumferentially-arranged series of slots wider at their outer than at their inner end portions, so that the solid dirt when packed against the exterior of the cesspool will enter the larger or outer portions of the said openings to such an extent as to prevent mud being driven into the openings from the interior of the cesspool, while the narrow formation of the inner portions of the said openings prevents the earth surrounding the cesspool from falling into the same, yet permitting more or less drainage of water from the surrounding earth into the interior of the cesspool.

Another purpose of the invention is to separate the circumferential series of openings or slots by solid circumferential bands in order to impart solidity to the article and enable it to be made as light as possible consistent with strength.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the 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 sectional perspective view of the improved article, and Fig. 2 is a partial horizontal section taken through a portion of the article having the openings or slots therein.

A represents the body of the cesspool, which may be given any desired shape, but is preferably made tapering, as shown in the drawings, the bottom being wider than the top.

The body of the cesspool may be constructed of cement or a plastic material in which cement is present, or it may be made of glazed terra-cotta or of any waterproof material.

The upper opening 10 of the body is adapted to receive the regulation strainer, and the bottom opening is made very much larger in order to give the article as large an interior area as possible. At the top of the article an exteriorly-extending flange 11 is formed, and at the bottom a similar flange 12 is produced in order to render the article as strong as possible. The body of the article is provided with series of circumferentially-arranged slots 13, which slots extend longitudinally of the article and are V-shaped in cross-section, as is best shown in Fig. 2. The inner portions a of the slots are the contracted portions and the outer portions a' the wider portions of the said slots, so that when the earth is packed around the article the earth will enter the said slots and will be packed therein to such an extent as to prevent mud at the interior of the article from working into the slots. The contracted inner portions a of the said slots also serve to prevent the earth packed against the article from entering the interior thereof, thus leaving the interior of the cesspool perfectly free to receive water and reducing to a minimum the chances of extraneous matter entering the cesspool and filling it up to a greater or less extent.

In order to render the cesspool as light as possible and yet strong, unbroken circumferential belts or bands are formed in the body of the cesspool, dividing the various series of slots, as is best shown in Fig. 1.

It will be observed that the article can be made and sold complete and buried readily in the ground to serve its proper purpose. Furthermore, the article may be very economically yet strongly made and that it will not only receive surface drainage, but will likewise receive water which may be in the

soil around the body portion of the article. It will also in a measure protect the surrounding ground from contamination.

I desire it to be understood that instead of the slots 13 being arranged in regular order, as shown in the drawings, the said slots may be in staggered relation to each other—that is to say, the slots in one circumferential series will be opposite the closed surface between the slots in the next circumferential series and the slots may be plain and arranged vertically, horizontally, or diagonally.

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

1. As an improved article of manufacture, a cesspool, comprising a body open at the top and at the bottom, the top portion being adapted to receive a strainer, the said body being provided with circumferentially-arranged openings between its top and its bottom, as and for the purpose described.

2. A cesspool consisting of a body open at the top and at the bottom and provided with series of openings therein, V-shaped in cross-section, the wider portions of which openings are their outer portions, as described.

3. A cesspool constructed of a waterproof material, comprising a body of tapering formation, wider at the bottom than at the top and open at the top and at the bottom, the said body being provided between its top and bottom edges with series of circumferentially-arranged openings, one series of openings being separated from the other by a continuous or unbroken surface, as set forth.

4. A cesspool constructed of a plastic material impervious to water, comprising a body of tapering form, wider at the bottom than at the top and open at the top and at the bottom, and provided with a series of longitudinally-arranged openings, V-shaped in cross-section, the outer portions of which openings are their wider portions, the series of openings being separated one from the other by unbroken surfaces, whereby to render the structure strong, as described.

5. A cesspool constructed of a plastic material impervious to water, comprising a body conical in general contour and open at top and bottom, being wider at the bottom than at the top and provided with top and bottom exteriorly-formed flanges and series of circumferentially-arranged openings, narrower at their inner portions than at their outer portions, the series of openings being separated one from the other by unbroken surfaces of the body, as and for the purposes described.

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

HOWARD DILLWORTH GARDNER.

Witnesses:

JOHN D. MONTROSS,

WARD L. HARWOOD.