(No Model.) 2 Sheets—Sheet 1.

A. D. McGILL.
DRAINING DEVICE.

No. 528,888. Patented Nov. 6, 1894.

Fig. 1.

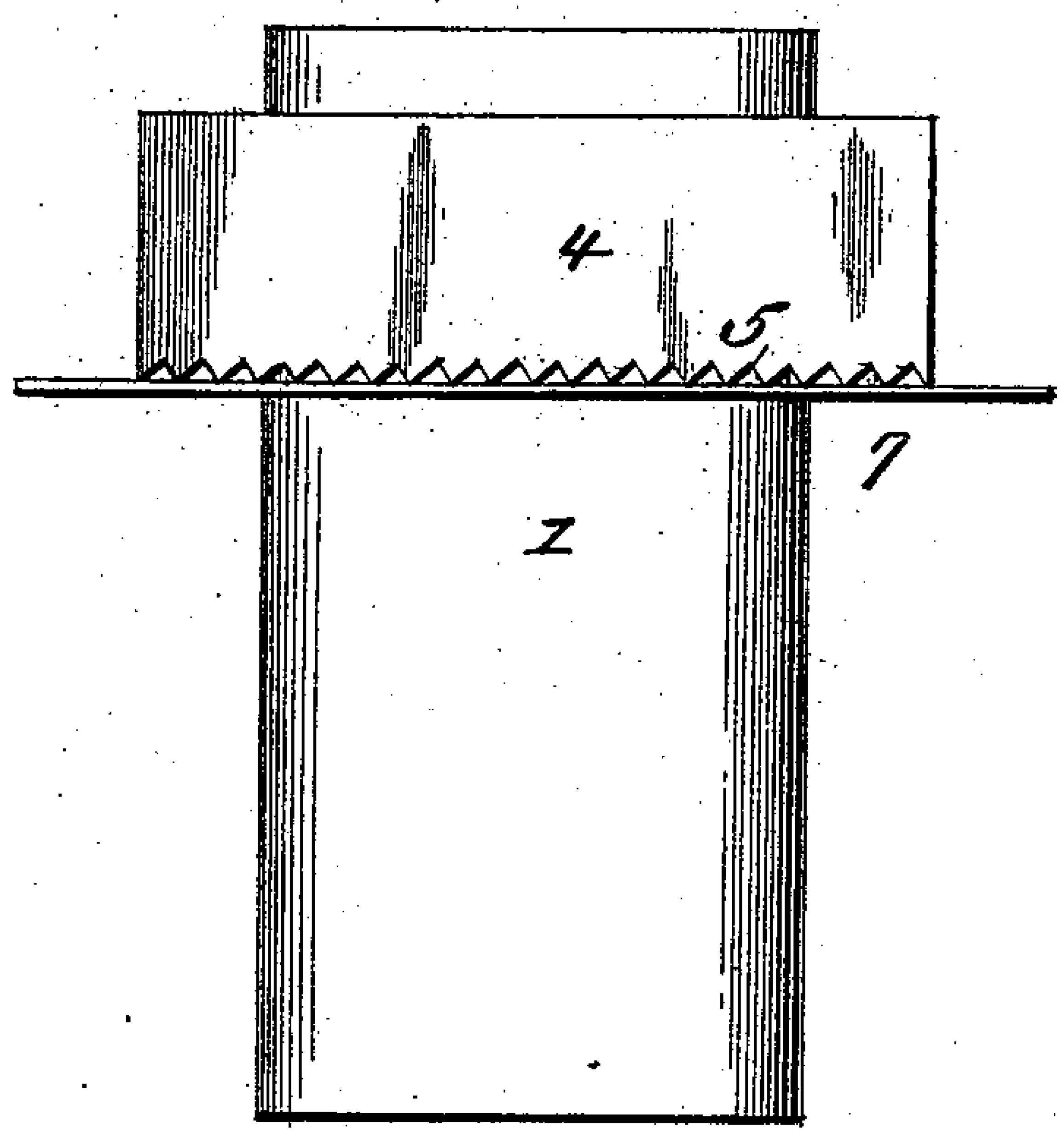
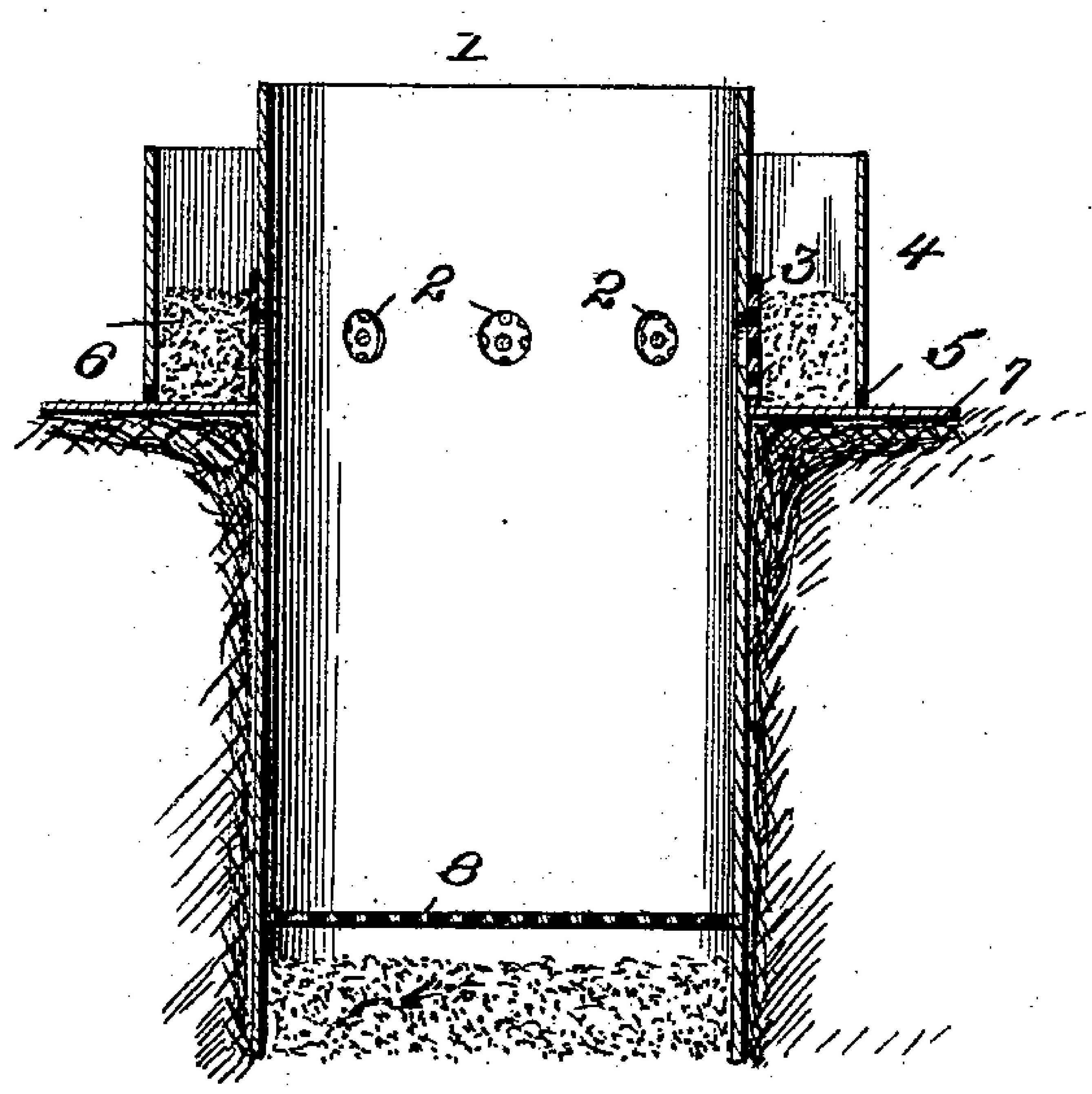


Fig. 2.



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By

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

(No Model.)

2 Sheets—Sheet 2.

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Fig. 3.

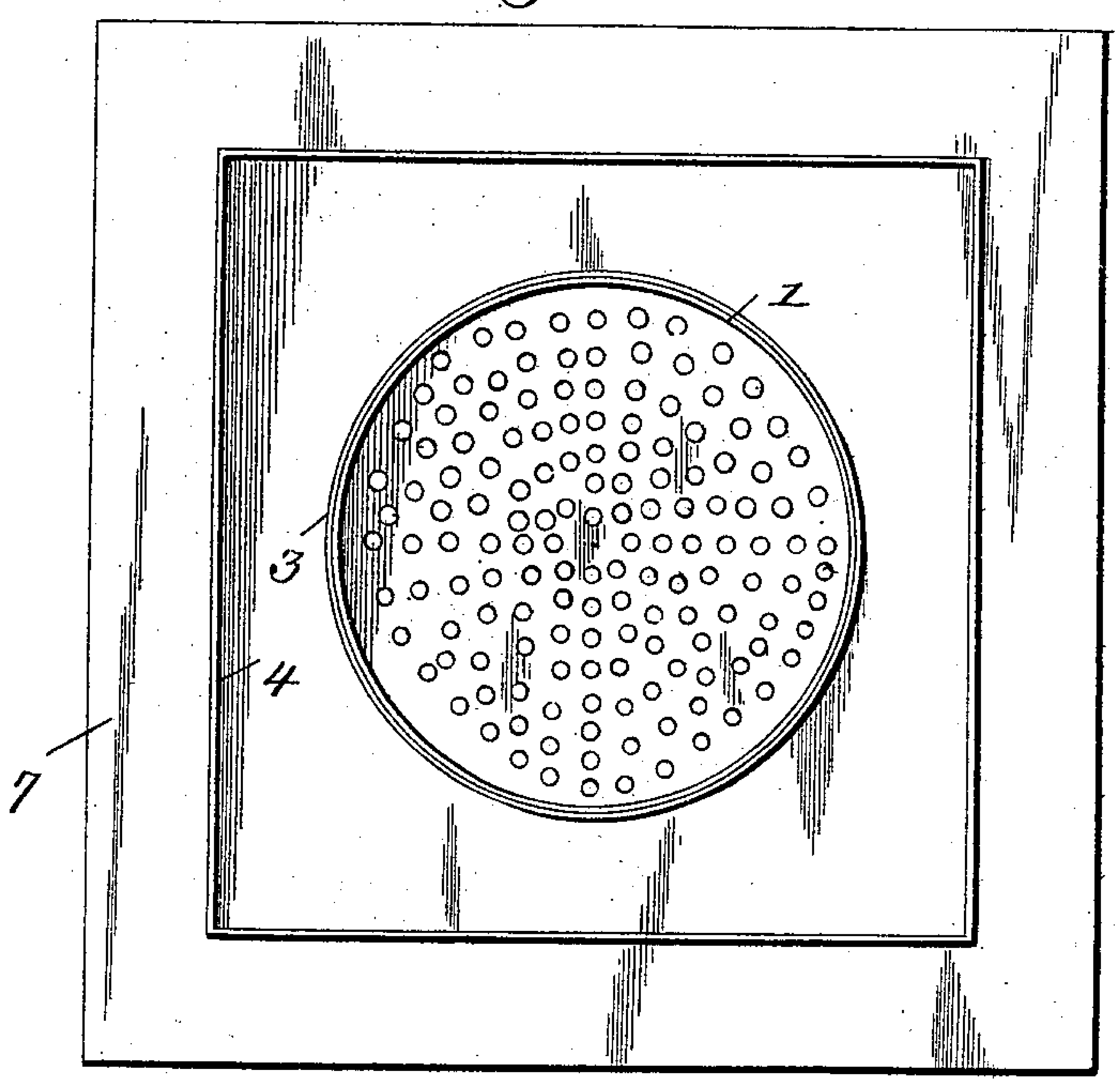
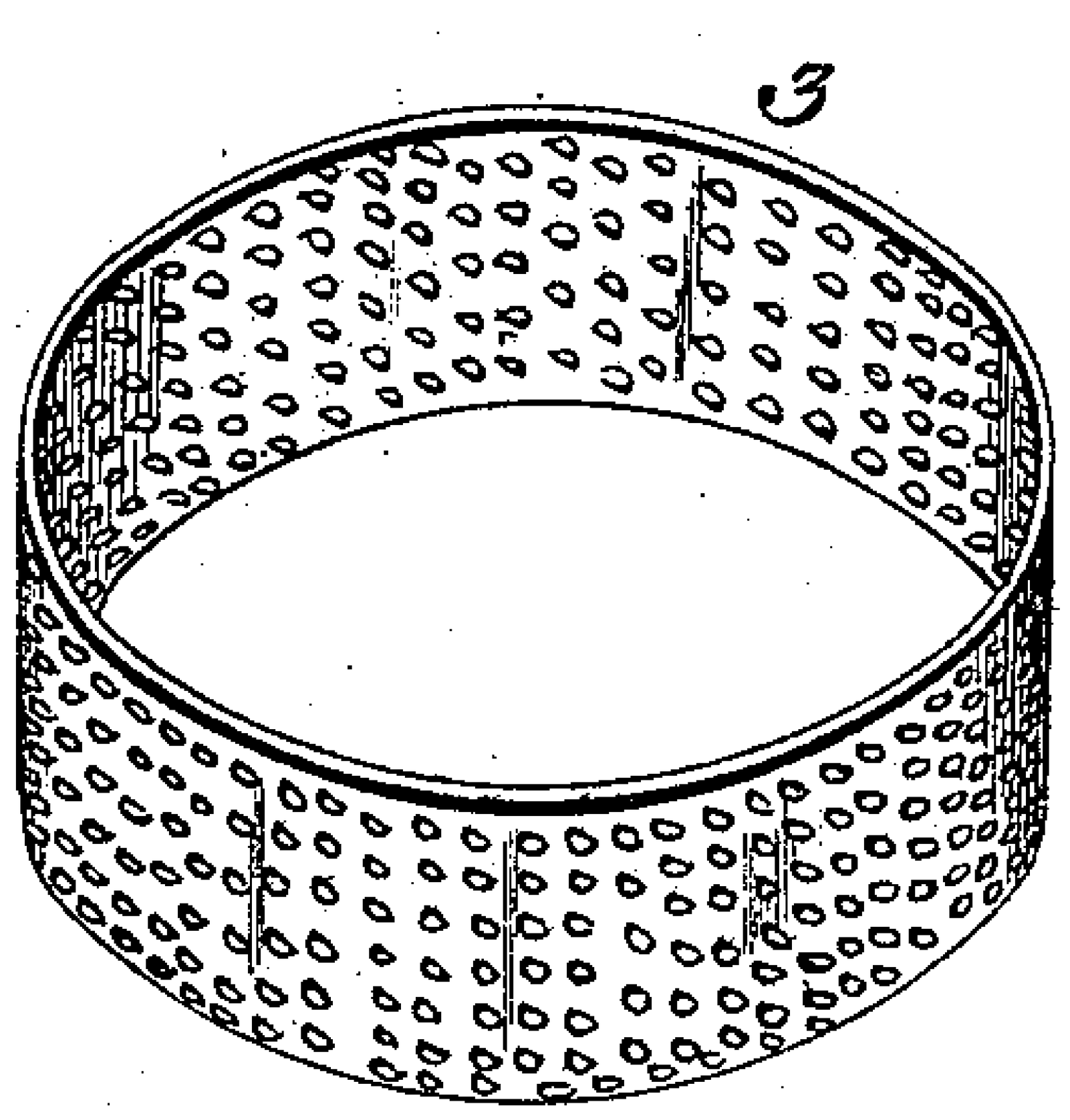


Fig. 4



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UNITED STATES PATENT OFFICE.

ARCHIBALD D. McGILL, OF COURTLAND, MISSISSIPPI.

DRAINING DEVICE.

SPECIFICATION forming part of Letters Patent No. 528,888, dated November 6, 1894.

Application filed August 30, 1894. Serial No. 521,751. (No model.)

To all whom it may concern:

Be it known that I, ARCHIBALD D. MCGILL, a citizen of the United States, residing at Courtland, in the county of Panola and State of Mississippi, have invented certain new and useful Improvements in Draining Devices; and I do 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 has relation to drains, and has for its object to provide an improved construction of drain whereby the inconveniences and disadvantages attendant upon the usual methods of draining water from the surface of the land are obviated and a thorough and rapid draining effected.

A further object of my invention is to provide a drain which can be cheaply and readily manufactured or set up in position on any part of a farm or elsewhere and which will be very durable and not liable to become clogged with refuse or soil, &c., and with the above and other objects in view, my invention consists in the novel construction, arrangement and combination of parts as hereinafter fully described, illustrated in the drawings and pointed out in the appended claims.

In the drawings:—Figure 1 is a side view of my drain. Fig. 2 is a vertical sectional view illustrating the drain in position for use in the ground. Fig. 3 is a plan view of the drain. Fig. 4 is a detail side view of the detachable perforated or reticulated cylindrical guard.

In carrying out my invention I provide a cylindrical casing or piping 1 which may be of any desired diameter and depth or length according to the amount of water to be drained off therethrough, though in practice I make the same about twenty-eight inches in diameter. This casing 1 may be made of any suitable or desired material such as wood, metal, &c. Toward its upper end it is provided with a number of openings 2 through which the drain water passes. In order to prevent large pieces of refuse from gaining access to the said openings which would clog them up and prevent proper operation of the device, I provide a cylindrical guard 3 constructed of reticulated or perforated metal and slipped over the upper end of the casing 1 until it covers the openings 2.

4 indicates a rectangular framing preferably constructed of planks arranged over the casing 1 and said framing is notched upon all sides at the lower edges as seen at 5 the function of which notches is to allow free passage of the drain water therethrough and at the same time prevent refuse passing therethrough. The said framing is made sufficiently large to allow considerable space between it and the casing 1 upon all sides, which space in practice is to be filled with sand or gravel as indicated at 6 in Fig. 2 whereby the water passing through the sand will be filtered. Said sand or gravel should be of sufficient height to extend above the perforations in the casing 1.

7 indicates a flooring of plank, brick or cement which should fit water tight around the casing 1.

When the casing 1 communicates at the bottom with a layer of sand or other porous substance, I prefer to provide the casing 1 interiorly with a perforated partition 8 which serves to break the force of water and prevent it from causing the said sand to become packed too tightly and thereby destroy its draining properties. The said partition 8 should be arranged a short distance above the bottom of the casing 1. When the said casing communicates at bottom with a body of water, then I dispense with said partition 8.

In setting up the drain device, I provide a casing of sufficient length to reach to the bottom of the pit dug therefor, and with its perforations extending to a height to receive the drain water. The floor or framing 7 is then built around the casing just below the openings 2 and the framing 4 is then placed in position upon the said flooring. The device is now ready for use.

The advantages to be derived from the use of my device will be readily seen and appreciated.

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

1. The herein described drain device consisting in the combination with a cylindrical casing 1, provided with a series of openings

2, of a reticulated cylindrical guard 3 fitting over the casing and the openings therein, a framing 4 having notched lower edges and constructed to provide a space between it and the casing upon all sides, and a flooring or framing upon which said guard rests, said framing fitting water tight around the casing below the guard and the openings in the casing, for the purpose specified.

2. The herein described drain device consisting in the combination with a cylindrical casing 1, provided with a series of openings 2, of a reticulated cylindrical guard 3 fitting over the casing and the openings therein, a framing 4 having notched lower edges and constructed to provide a space between it and the casing upon all sides, and a flooring or framing upon which said guard rests, said framing fitting water tight around the casing below the guard and the openings in the casing, and a perforated partition arranged within the casing 1 adjacent to its lower end, for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

ARCHIBALD D. McGILL.

Witnesses:
H. B. HARDY,
T. B. WEAVER.