

(No Model.)

2 Sheets—Sheet 1.

W. BUNTING, Jr.
WATER CLOSET.

No. 408,371.

Patented Aug. 6, 1889.

Fig. 1,

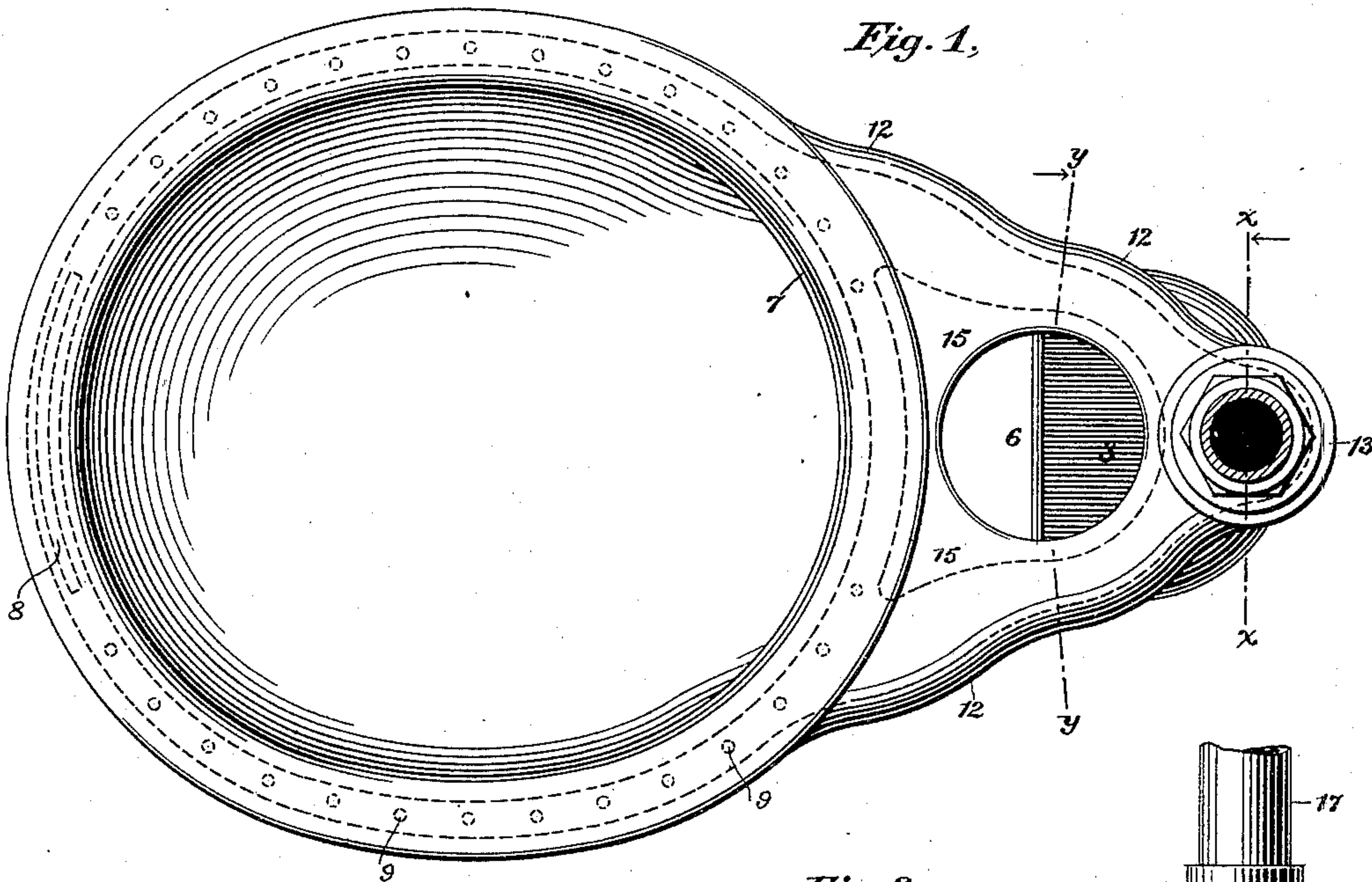
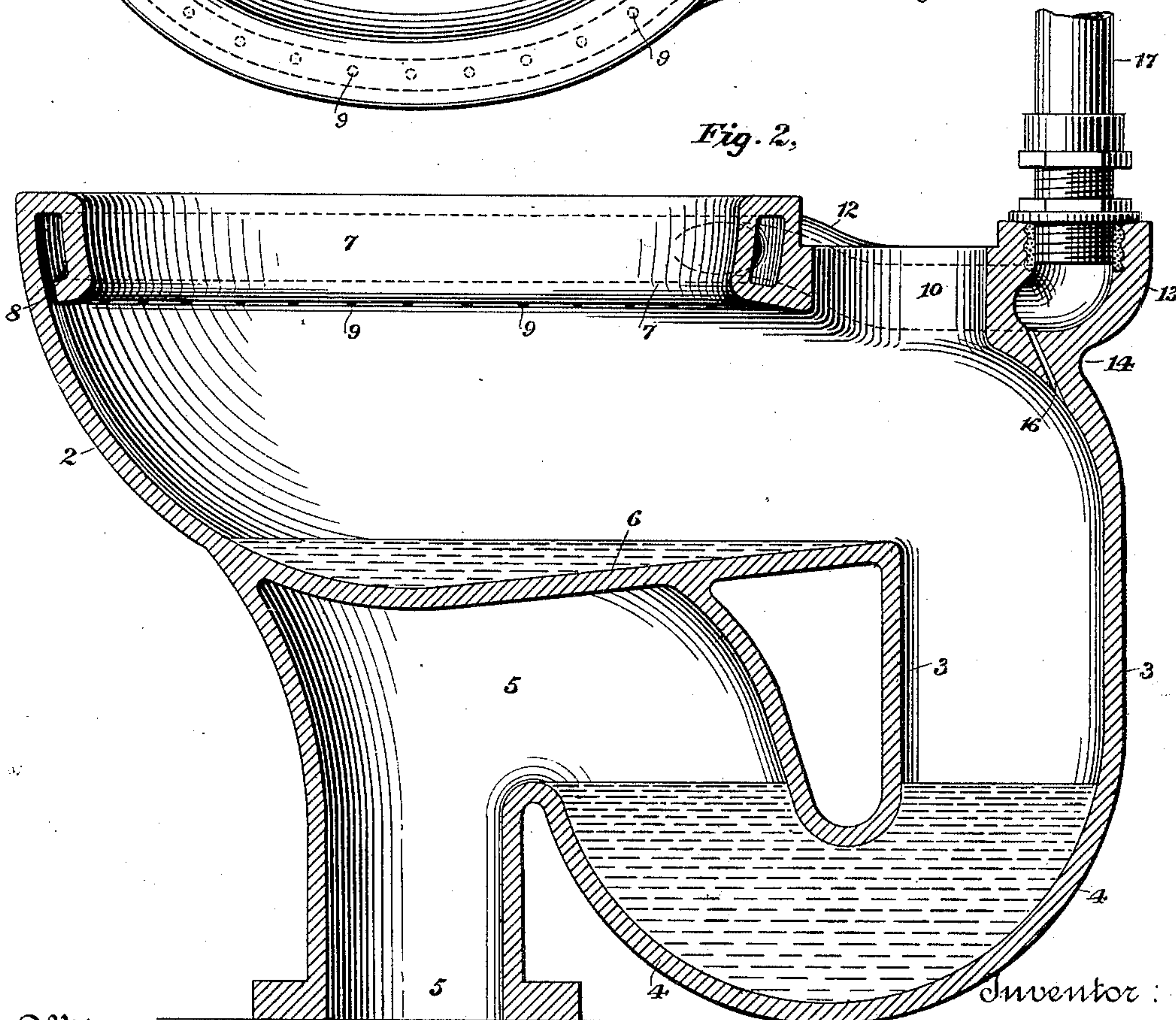


Fig. 2,



Witnesses

Geo. W. Brock
Edward Thorpe

Inventor:
William Bunting Jr.
By his Attorney
Jacob Felbel

(No Model.)

2 Sheets—Sheet 2.

W. BUNTING, Jr.
WATER CLOSET.

No. 408,371.

Patented Aug. 6, 1889.

Fig. 3,

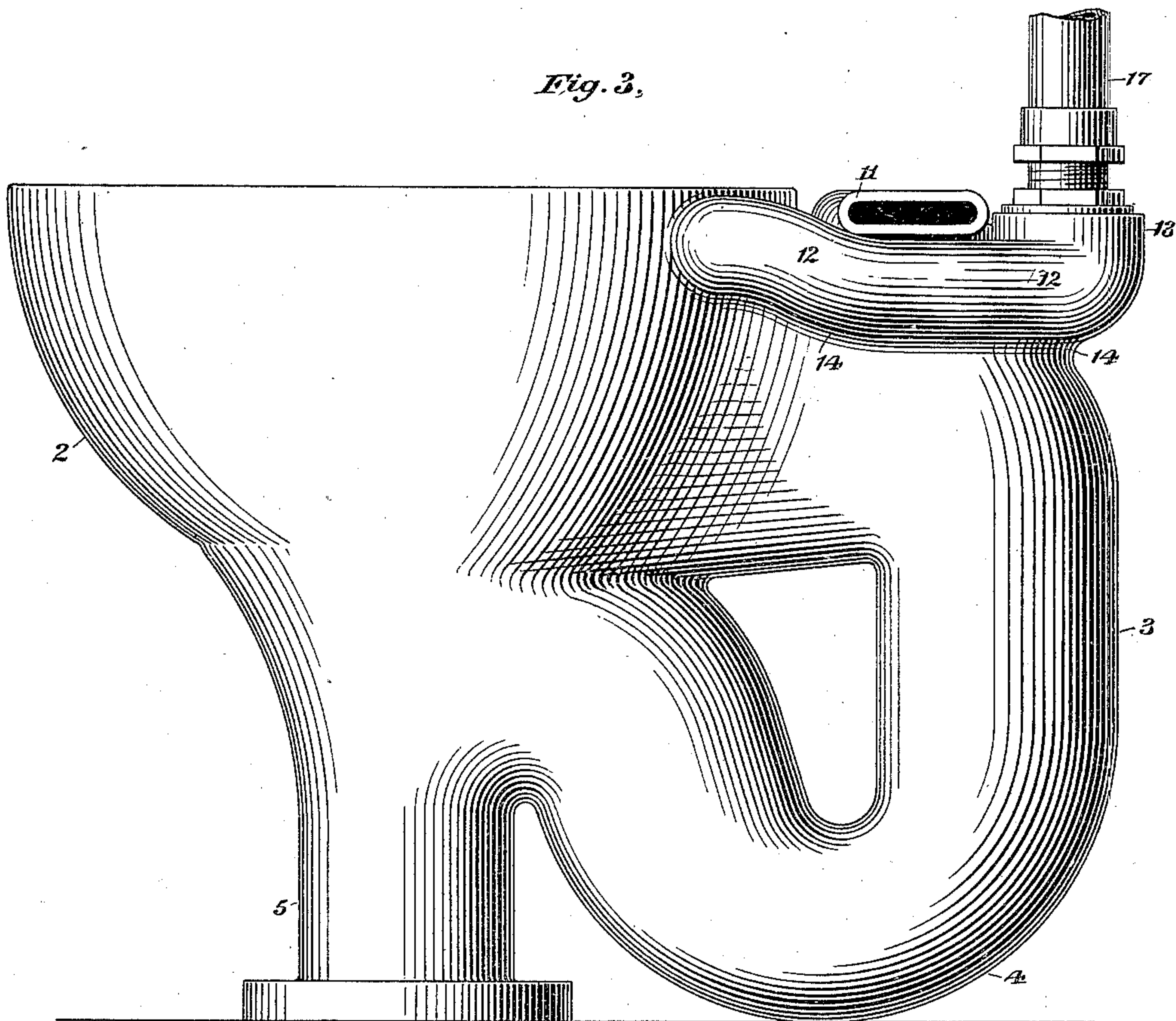


Fig. 4,

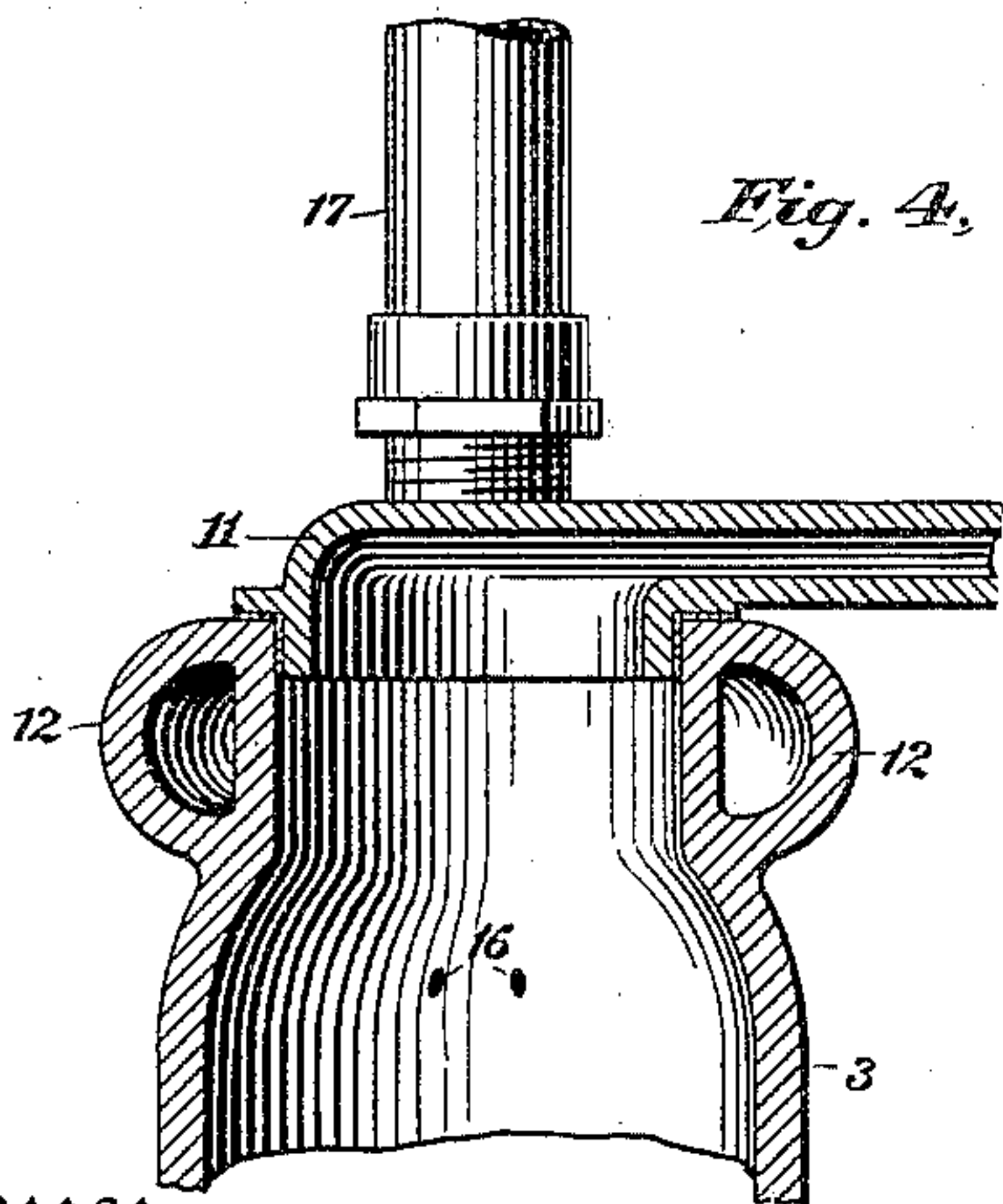
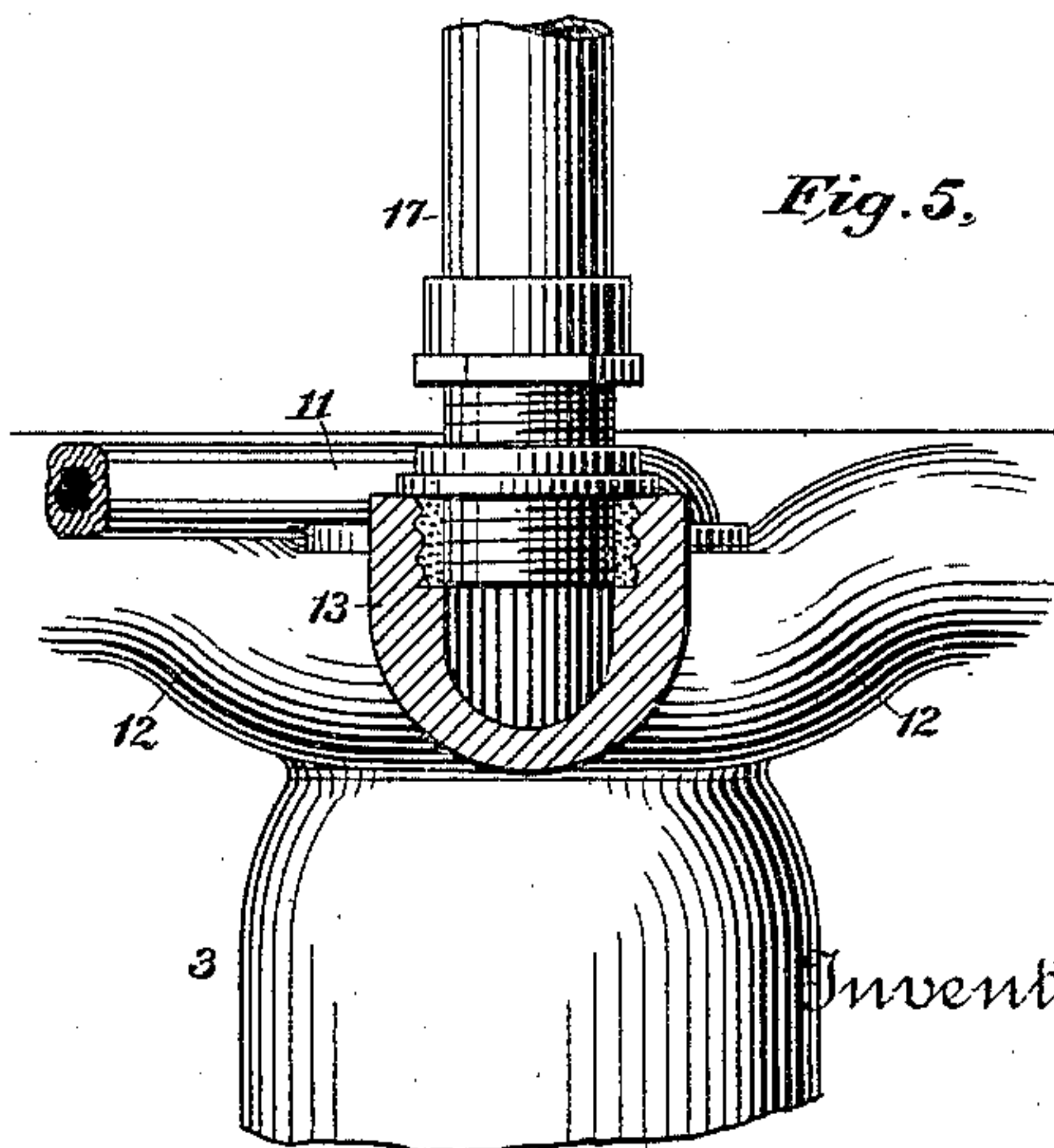


Fig. 5,



Witnesses

Geo. W. Breech
Edward Thorpe

By his Attorney William Bunting Jr.
Jacob Felbel

UNITED STATES PATENT OFFICE.

WILLIAM BUNTING, JR., OF FLUSHING, ASSIGNOR TO THE MEYER-SNIFFIN COMPANY, (LIMITED,) OF NEW YORK, N. Y.

WATER-CLOSET.

SPECIFICATION forming part of Letters Patent No. 408,371, dated August 6, 1889.

Application filed November 30, 1888. Serial No. 292,175. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM BUNTING, JR., a citizen of the United States, and a resident of Flushing, in the county of Queens and State of New York, have invented certain new and useful Improvements in Water-Closets, of which the following is a specification.

My invention relates more particularly to that class of water-closets shown in the Letters Patent No. 253,152, dated January 31, 1882, granted to Daniel T. Bostel, and also shown in the Letters Patent No. 307,520, granted to me on the 4th of November, 1884. To water-closets of the construction shown in said patents (which I may remark have an extensive sale) there exists only one serious objection—namely, the liability of breakage of the projecting inlet-nozzles E E (see said patents) both in transportation of the fixture and in handling in setting the same up for use. These inlet-nozzles E E are made separate from the bowl, and are subsequently joined thereto at one end in the process of producing the finished structure. Being connected at one end only, they necessarily have but little support and are comparatively easily detached or stripped from the bowl. Plumbers frequently break off these nozzles in connecting to them the branch pipes G G, leading from the supply-pipe F, thus rendering the closet useless and giving considerable annoyance.

My invention has for its object to improve this species of water-closet, and not only avoid the objection hitherto urged against the same, but at the same time effect a considerable saving in cost therein; and to these main ends my invention consists in the features of construction hereinafter more fully described, and particularly pointed out in the appended claims.

In the drawings accompanying this specification and forming a part thereof, Figure 1 is a top or plan view of a water-closet embracing my improvements. Fig. 2 is a central vertical section of the same. Fig. 3 is a side elevation thereof, with the ventilating-cover in place. Fig. 4 is a vertical section taken at the line *y y* of Fig. 1, with the cover on and looking in the direction of the arrow

thereat; and Fig. 5 is a similar section taken at the line *x x* of Fig. 1, viewed in the direction indicated by the arrow at said line.

In the several views the same parts will be found designated by the same numerals of reference.

The water-closet is made of a single piece of porcelain or earthenware, and consists, primarily, of a bowl or basin 2, a vertical trunk or chamber 3, a trap 4, and an outlet 5. The bottom of the bowl is made dishing, as seen at 6, to hold a small body of water at all times, and the top of the bowl is provided with a flushing-rim 7, having a slot 8 at the front of the bowl and a series of perforations 9 around each side of the bowl for the discharge of the flushing-water. The trunk is located at the rear of the closet and about centrally of the bowl. It is curved or bent forward slightly at its upper end, and is formed with an opening 10, through which access may be obtained to the trunk and trap, and through which these portions may be ventilated by means of the hollow cover 11, made the subject of my patent aforesaid.

Formed integral with the bowl and the upper portion of the trunk are conduits 12 12, which extend rearwardly from the bowl to a vertically-arranged inlet-nozzle 13, formed at the upper end of the trunk about centrally of the structure lengthwise. These conduits are arranged one on each side of the trunk, and converging meet at the inlet nozzle 13 at the rear of the closet. The forward ends of the conduits communicate with the flushing-rim 7 on each side of the center at the rear of the bowl, and the rearwardly-extending portions are preferably depressed slightly, as shown, in order that the ventilating-cover 11 may not project above the plane of the bowl and interfere with the proper fitting of the seat and wood-work surrounding the closet. The passage-ways in the conduits are shown in dotted lines at Fig. 1.

The conduits, it will be seen, are made bulging or in relief exteriorly, and are joined for their full length to the bowl and the trunk along the irregular line 14, and finally vanish into the inlet-nozzle on opposite sides thereof. In addition to the union along the line 14 the

conduits are united to the bowl and the trunk and to each other by a horizontally-arranged stay or web 15, as seen at Fig. 1.

The inlet-nozzle is preferably arranged to terminate in a vertical direction to save the expense of a bend from the usual vertical supply-pipe from the flushing-tank. The bore of the inlet-nozzle is curved from near its upper end to terminate in a horizontal direction at the junction of the horizontally-arranged conduits. From the bottom of said inlet-nozzle extend downwardly in an oblique direction one or more perforations 16, which during the flushing operation emit a stream or streams against the inner vertical wall of the trunk for the purpose of removing any light pieces of paper which may have clung thereto, and which also after the cessation of the flushing operation serve to carry off any surplus water in the conduits and inlet-nozzle.

To the upper end of the inlet-nozzle is connected by the coupling shown, or by any other suitable means, the supply-pipe 17, which, as usual, is attached to the flushing-tank or other source of water-supply.

In the operation of the closet the flushing-water descending through the supply-pipe enters the inlet-nozzle and passes thence into the conduits or channels 12 12 on either side, from which the two separate bodies of water are directed into the flushing-rim 7, one on each side, and rushing around the same are caused to meet at the front of the bowl. During the passage of the water round the flushing-rim small streams are discharged through the perforations 9 to wash down the walls of the bowl; but the bulk of the water is discharged at the slot 8, and by its force and direction the contents of the receiver or dish 6 are carried rearwardly into the trunk through the trap and the outlet to the sewer or waste connections.

It will be seen that by my invention is provided a closet of the washout side-delivery type, in which the flushing-rim inlets and branches are made of a piece or integral with the bowl and trunk and extend rearwardly around the opening in the trunk to the inlet from the supply-pipe, whereby a structure of great strength is produced, and one in which the objections made to prior closets of this description are wholly obviated.

It will be seen, furthermore, that by making the prior inlet nozzles and branches one and the same piece, and forming them integral or *en masse* with the bowl and trunk, instead of making two projecting inlet-nozzles, and uniting these in the fitting up of the closet by metallic connections or branches and bends, I am not only enabled to avoid the expense of making two connections, but also the consid-

erable expense of the metallic fittings which must accompany such prior construction of closets.

If desired, the inlet-nozzle may be arranged to terminate in a horizontal direction, and other variations may be made without departing from the spirit of my invention.

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

1. In a water-closet having a bowl provided with a flushing-rim, and having also a trunk, the two rearwardly-projecting conduits 12, formed integral or of a piece with the bowl and trunk, communicating with the flushing-rim on opposite sides and extending therefrom around the trunk to a common inlet-nozzle, substantially as shown and described.

2. In a water-closet having a bowl provided with a flushing-rim, and having also an open trunk, the two rearwardly-projecting conduits 12, formed integral or of a piece with the bowl and trunk, communicating with the flushing-rim on opposite sides, extending therefrom around the trunk-opening to a common inlet-nozzle, and connected to each other at the front side of said opening by a web or ligament 15 made integral therewith, substantially as shown and described.

3. In a water-closet having a bowl provided with a flushing-rim, and having also a trunk, the two rearwardly-projecting conduits 12, joined to the bowl and the trunk, and communicating with the flushing-rim on opposite sides, and extending to and communicating with a vertically-terminating inlet-nozzle, the bowl, the flushing-rim, the trunk, the conduits, and the inlet being all made from a single piece of earthenware, substantially as shown and described.

4. A water-closet consisting of a bowl provided with a flushing-rim and a dish or basin, a vertical trunk in rear of the bowl, two rearwardly-projecting conduits formed integral with the bowl and trunk and extending from the flushing-rim on opposite sides, and a vertically-terminating inlet-nozzle at the junction of said conduits provided with one or more perforations extending to the inner vertical wall of the trunk above the plane of the bowl's dish, whereby a stream or streams of water may be discharged upon said wall for the purpose of removing any matter which in the washout of the basin may have lodged thereon, substantially as shown and described.

Signed at New York city, in the county of New York and State of New York, this 24th day of November, A. D. 1888.

WILLIAM BUNTING, JR.

Witnesses:

JACOB FELBEL,
MARTIN LAYDEN.