

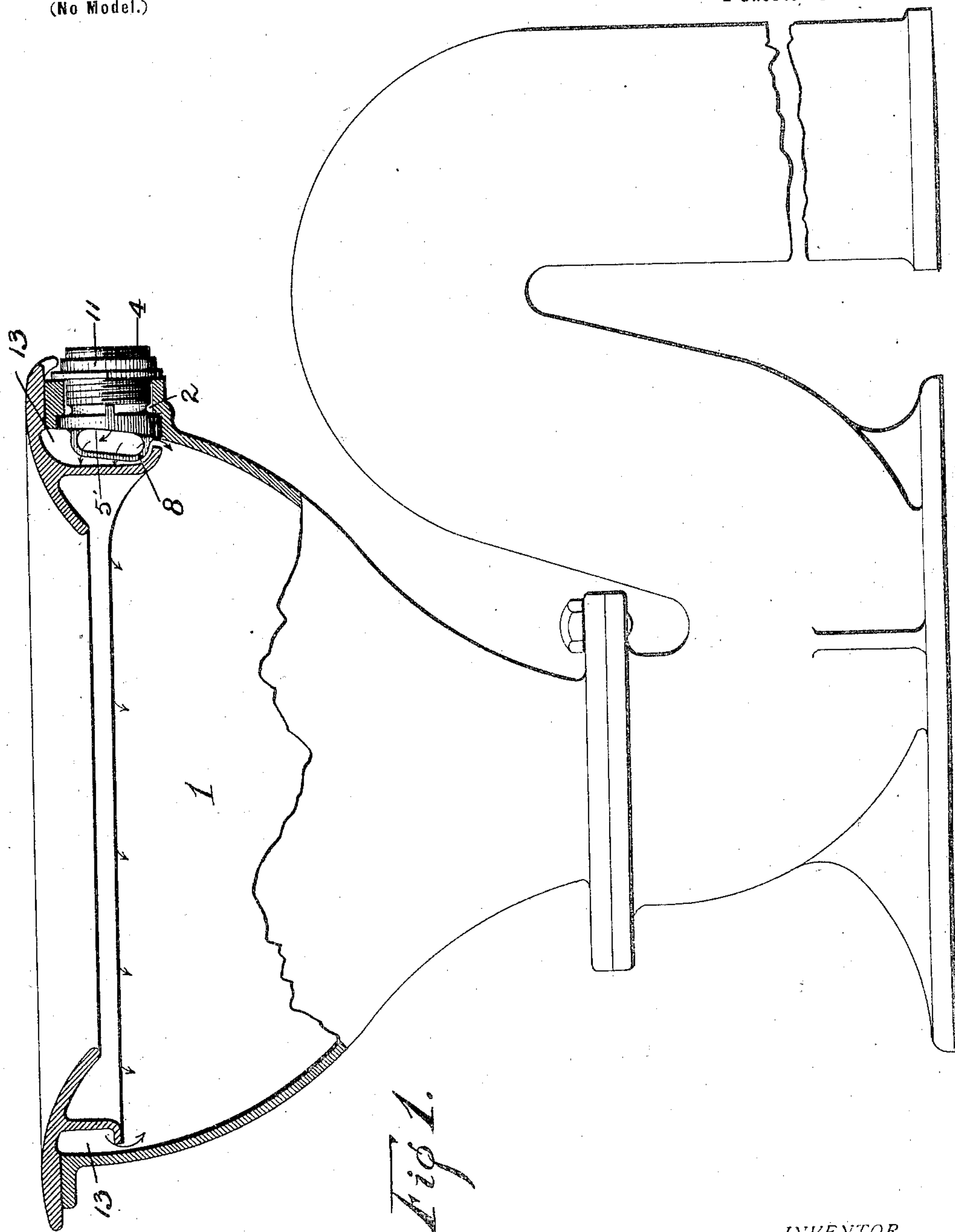
No. 706,990.

Patented Aug. 12, 1902.

P. J. McGUIRE.  
WATER CLOSET BOWL.  
(Application filed Nov. 8, 1900.)

2 Sheets—Sheet 1.

(No Model.)



WITNESSES:

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2 Sheets—Sheet 2.

Fig 3.

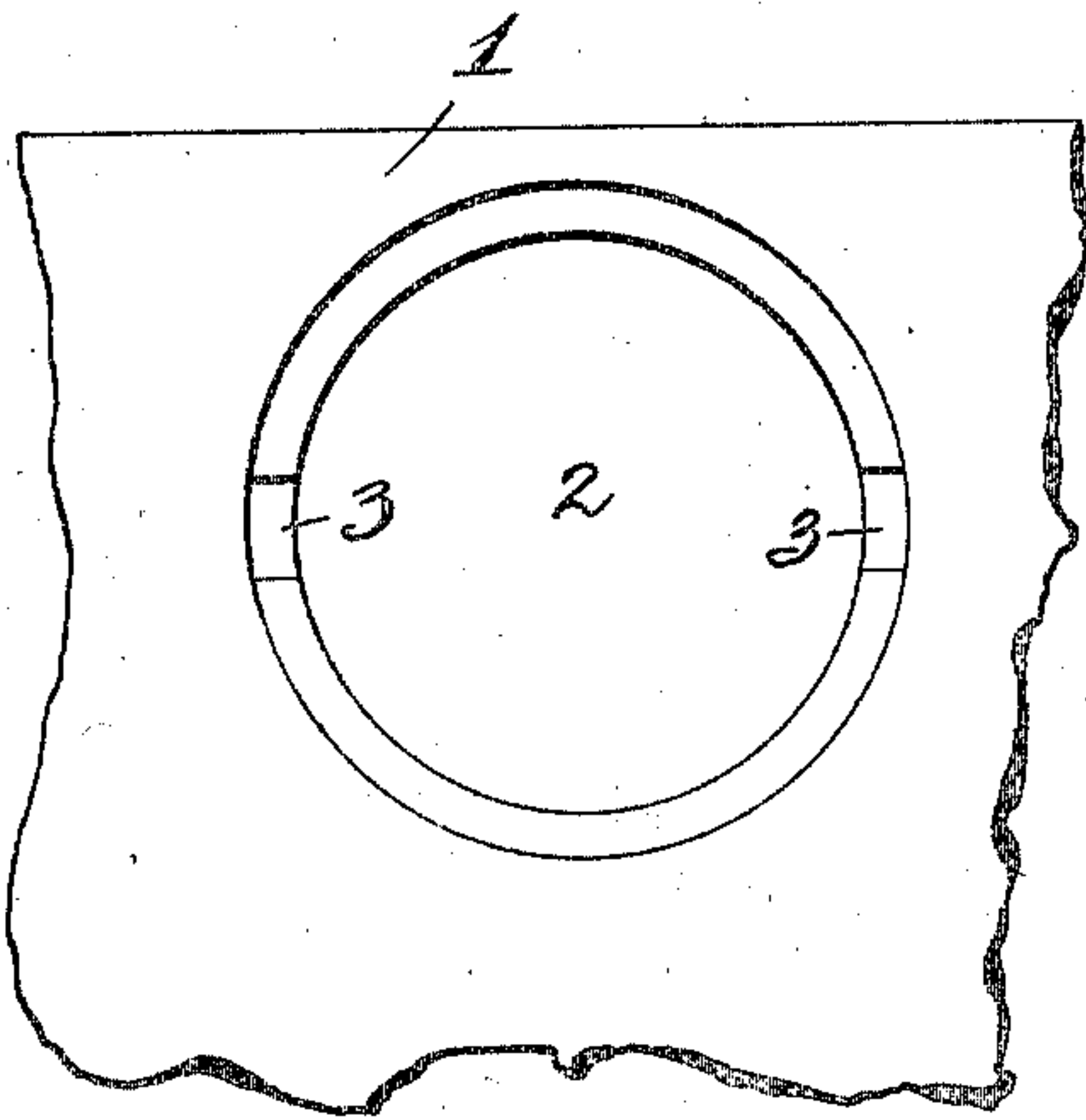


Fig 2.

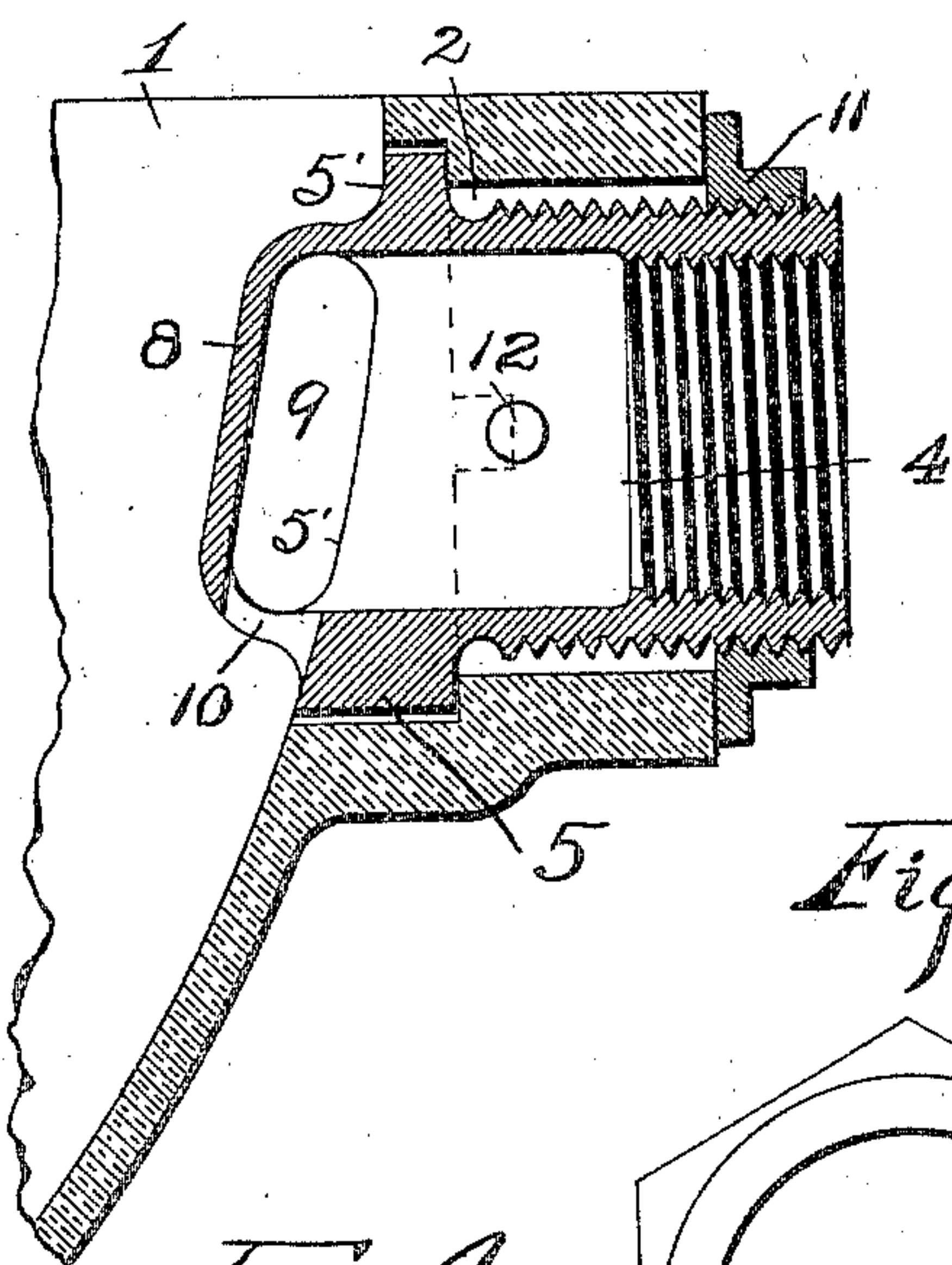


Fig 5.

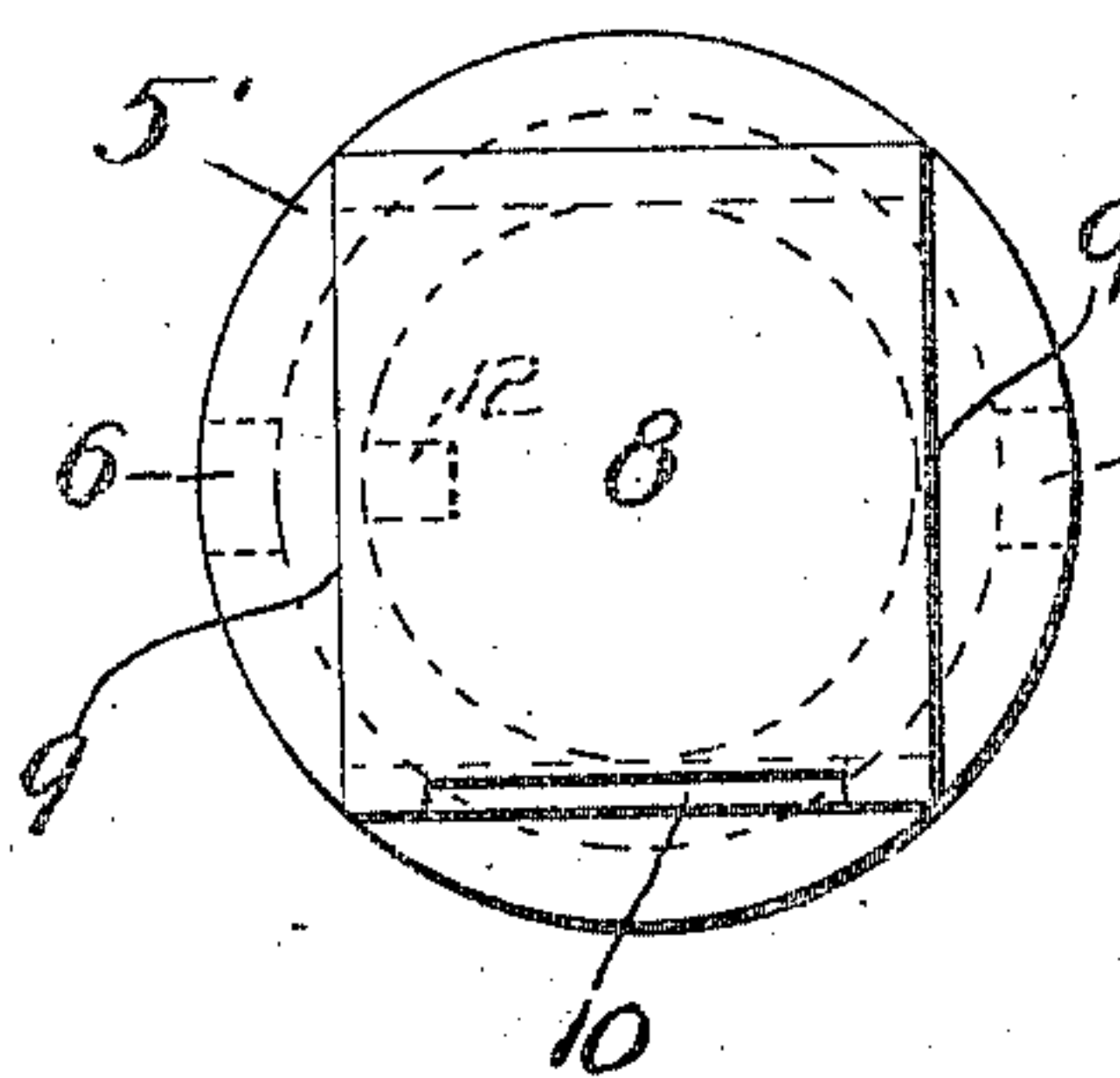


Fig 4.

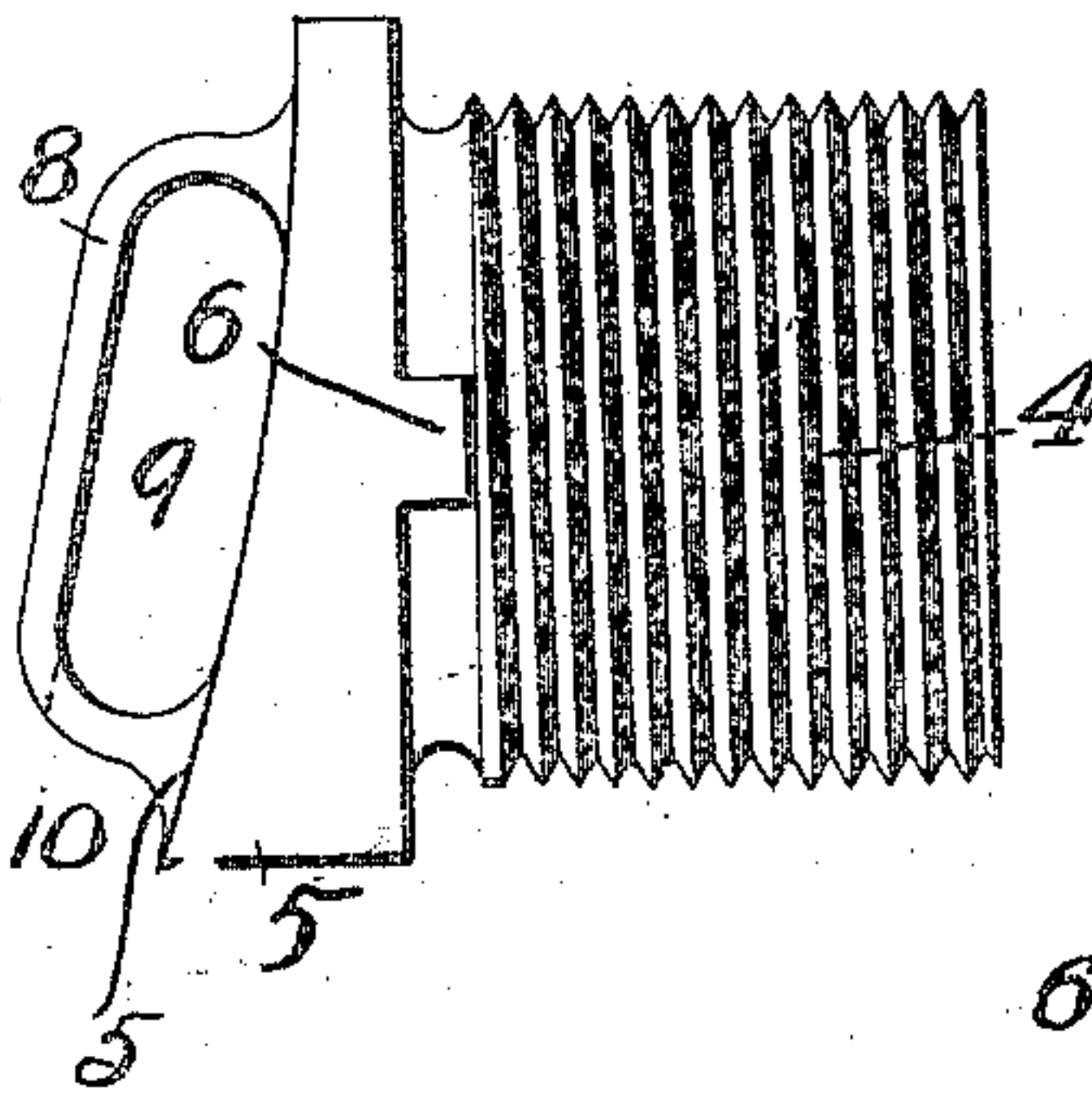


Fig 7.

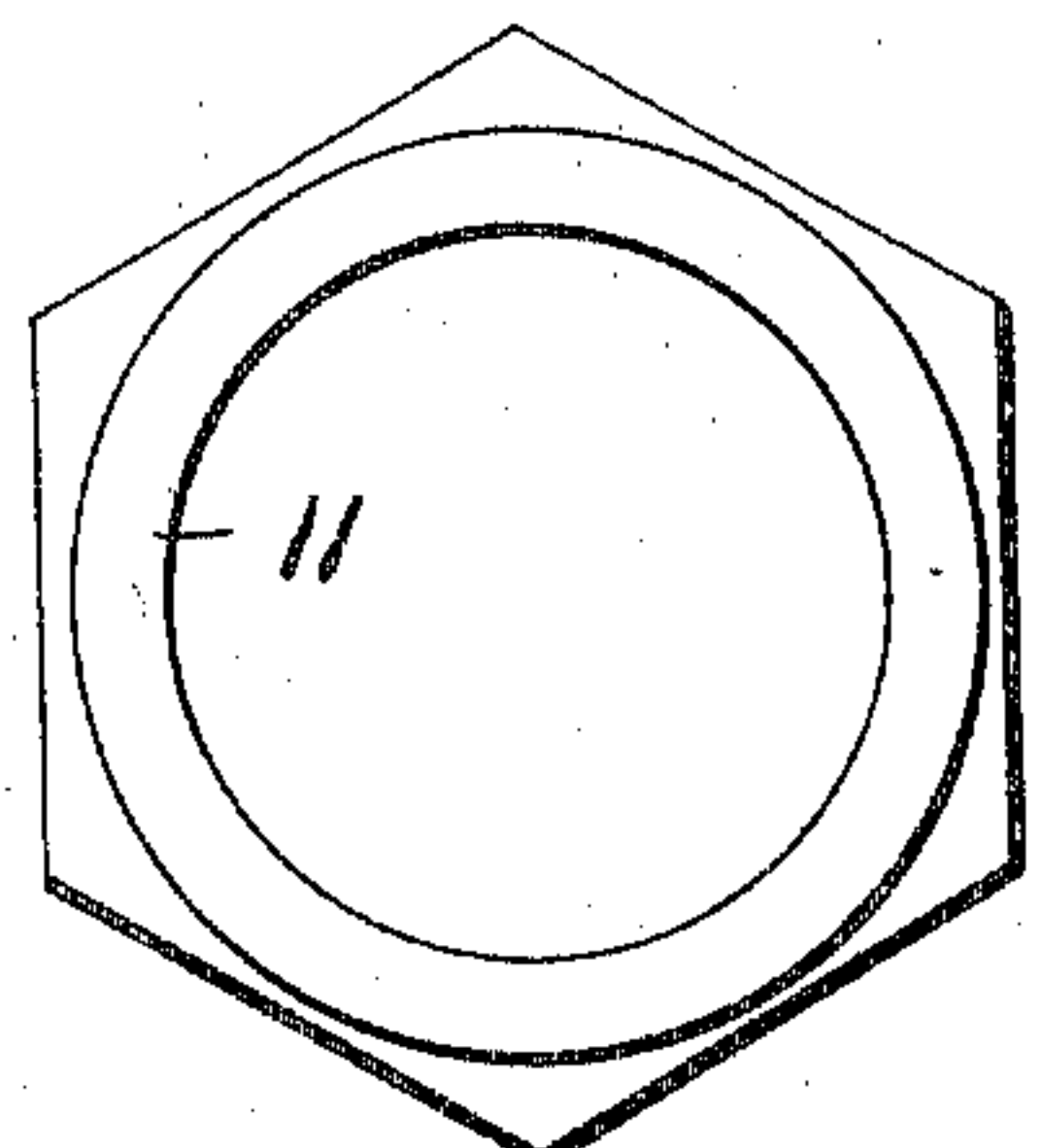
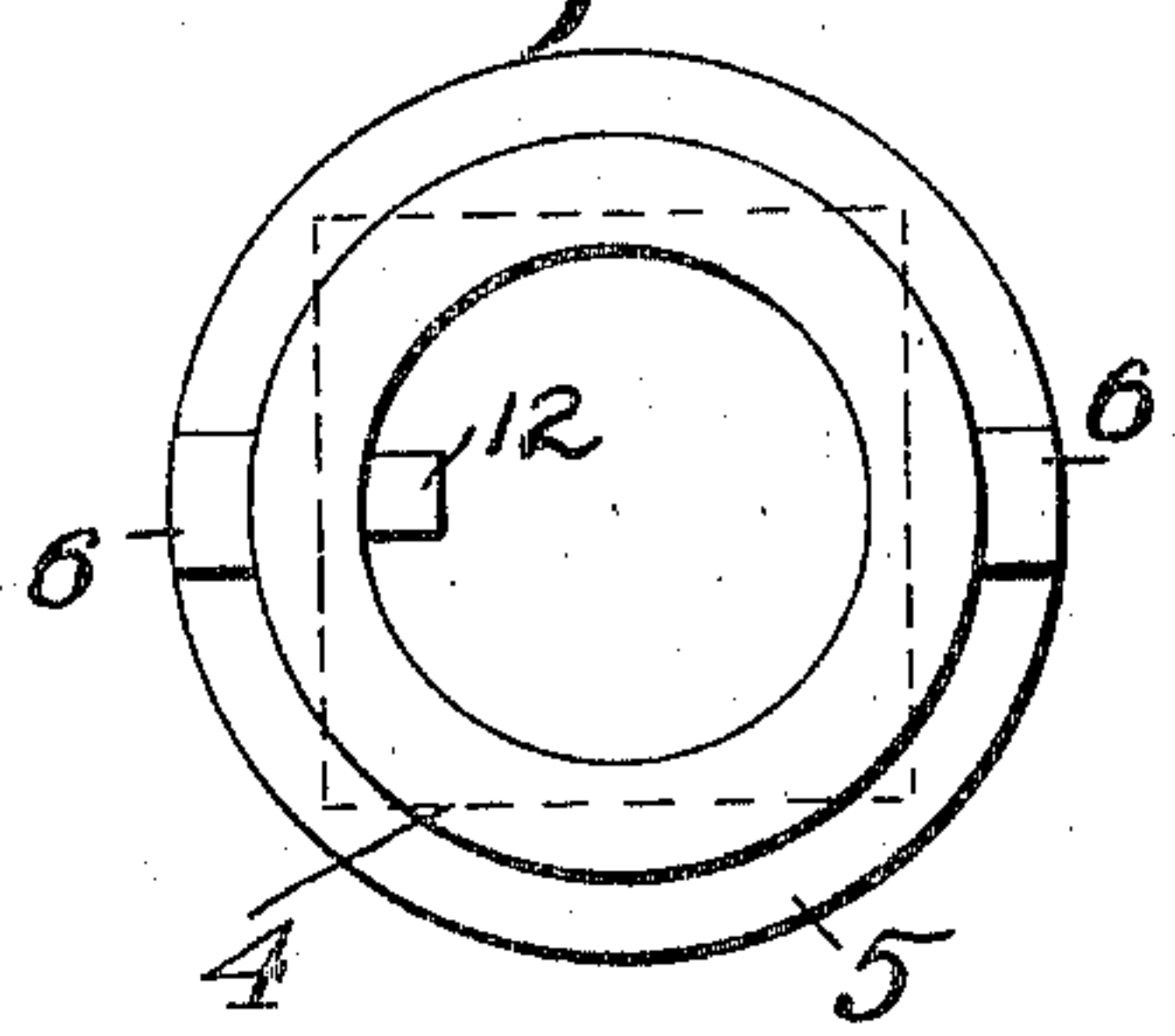


Fig 6.



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# UNITED STATES PATENT OFFICE.

PETER J. MCGUIRE, OF BLAIRSVILLE, PENNSYLVANIA, ASSIGNOR TO THE CHAMPION SANITARY ENAMEL-WARE CO., A CORPORATION OF PENNSYLVANIA.

## WATER-CLOSET BOWL.

SPECIFICATION forming part of Letters Patent No. 706,990, dated August 12, 1902.

Application filed November 8, 1900. Serial No. 35,846. (No model.)

*To all whom it may concern:*

Be it known that I, PETER J. MCGUIRE, a citizen of the United States of America, residing at Blairsville, in the county of Indiana and State of Pennsylvania, have invented certain new and useful Improvements in Water-Closet Bowls; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to new and useful improvements in water-closet bowls.

In my former application, filed February 9, 1900, the flushing-spud of the bowl was provided with a shouldered portion to engage upon the concave surface of the bowl and a ported extension thereon to flush the water against the bowl-surface. In this structure it has been found that the foreign matter accumulates around said shoulder, and therefore, strictly speaking, is not sanitary. My object, therefore, is to overcome this difficulty by providing a bowl wherein the spud-body fits flush with and is of the same concavity as the bowl-surface and the flushing-ports thereof on a line with said surface, thereby insuring a perfect flush about the same.

I accomplish my object by means of the improvements illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a closet-bowl, partly in section, and showing my improvements in connection therewith. Fig. 2 is an enlarged sectional view through a portion of the bowl and flushing-spud. Fig. 3 is a front elevation of that portion of the bowl to which the flushing-spud is attached. Fig. 4 is a side elevation of the flushing-spud detached from the bowl. Fig. 5 is a front elevation of said spud. Fig. 6 is a rear elevation of the same. Fig. 7 is a plan view of the nut employed to secure the spud to the bowl.

In all views similar parts are designated by numerals of like denomination.

Referring to the drawings, the numeral 1 designates a bowl having a shouldered opening 2 formed through its rear wall for the reception of the flushing-spud. The flushing-spud employed in connection with the bowl

consists of a hollow body 4, threaded part way upon its interior and exterior, and is of such diameter as to easily enter the said opening in the bowl. An annular flange or shoulder 5, having its surface 5' of the same concavity as the bowl, is formed upon one end of the spud to engage within the shouldered portion of the bowl flush with the surface thereof.

To prevent the spud from turning and insure the spud properly fitting in position flush with the bowl-surface, a pair of lugs 6 are formed thereon to engage within recesses 7, formed within the bowl-opening. Across a portion of the face or inner end of the spud is formed a bridge 8, having openings 9 at each side and an opening 10 at its lower end to permit the water to pass out. The spud is inserted into the bowl-opening in such manner that the thick portion of its flange engages that portion of the opening-shoulder which has a depth correspondingly, in which position the lugs 6 of the spud will enter the recesses 7 of the bowl-opening and prevent said spud shifting its position when the nut 11 is applied. As the annular flange of the spud is made in conformity with the shape of the shouldered portion of the bowl-opening and being of the same concavity on its face portion around the bridge as that of the bowl-surface, it will be seen that the fit is perfectly flush, producing, as it were, an uninterrupted or continuation of the bowl-surface. Again, it will be noted that the openings 9 and 10 of the spud are flush with the bowl and spud surfaces, thereby preventing any accumulation of dirt at this point and permitting the water to issue therefrom in a perfect line around the bowl-waterway 13 to all points, as shown by the arrows at Fig. 1, without interruption or resistance of any kind.

In some cases it may be found more convenient to employ a "slip-joint" instead of one of threaded form for connecting the supply-pipe to the spud, and to prevent any possibility of the pipe entering the spud to such distance as to interfere with the water discharging out of the openings 9 and 10 I form upon the interior an abutment in the shape of the small stud 12.

Slight modifications may be made in the de-



tail parts without departing from the principles involved.

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

1. The combination of a closet-bowl having a shouldered opening formed through the wall thereof, and having recesses extending from the shouldered portion into the lesser portion of the opening, a shouldered flushing-spud fitted into said bowl-opening which is provided at its rear end with a nut to secure it therein and lugs upon the rear or engaging side of the shoulder to enter said recesses, and a bridge formed upwardly across the shouldered face of the spud which is open at each side and is provided with an additional opening in its lower connecting end, the face of said spud around the bridge and at the lower edges of said openings being flush with and of the same concavity as that of the bowl-surface, as and for the purpose set forth.

2. The combination of a closet-bowl having a shouldered opening formed through the wall thereof, and having recesses extending from the shouldered portion into the lesser portion, said shoulder having a greater depth at its lower side and decreasing proportionally therefrom at and toward the upper side in conformity with the concavity of the bowl-surface, a flushing-spud fitted into said bowl-opening which has a shouldered inner end to conform with and fill the shouldered portion of said opening, lugs formed upon the rear or

engaging side of the spud-shoulder to enter the recesses in said bowl-opening, a bridge formed upwardly across the shouldered face of the spud which is open at each side and has an additional opening at its lower connecting end, and a nut arranged upon the rear end of the spud to secure it to said bowl, the face of said spud around the bridge and at the lower edges of its openings being flush with and of the same concavity as that of the bowl-surface, as and for the purpose set forth.

3. The combination of a closet-bowl having a shouldered opening formed through the rear wall thereof with recesses in said opening, a shouldered spud fitted into said opening flush with the inner surface of the bowl, lugs formed upon said spud to engage within the recesses of said opening, a bridge formed across the inner or shouldered end of said spud to cause water to issue from the sides thereof around the bowl, an opening in the lower end of said bridge through which a portion of the water flows downward, a nut arranged upon the rear of said spud to secure it to the bowl, and an abutment formed upon the interior of said spud.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

PETER J. MCGUIRE.

Witnesses:

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GEO. G. MEYER.