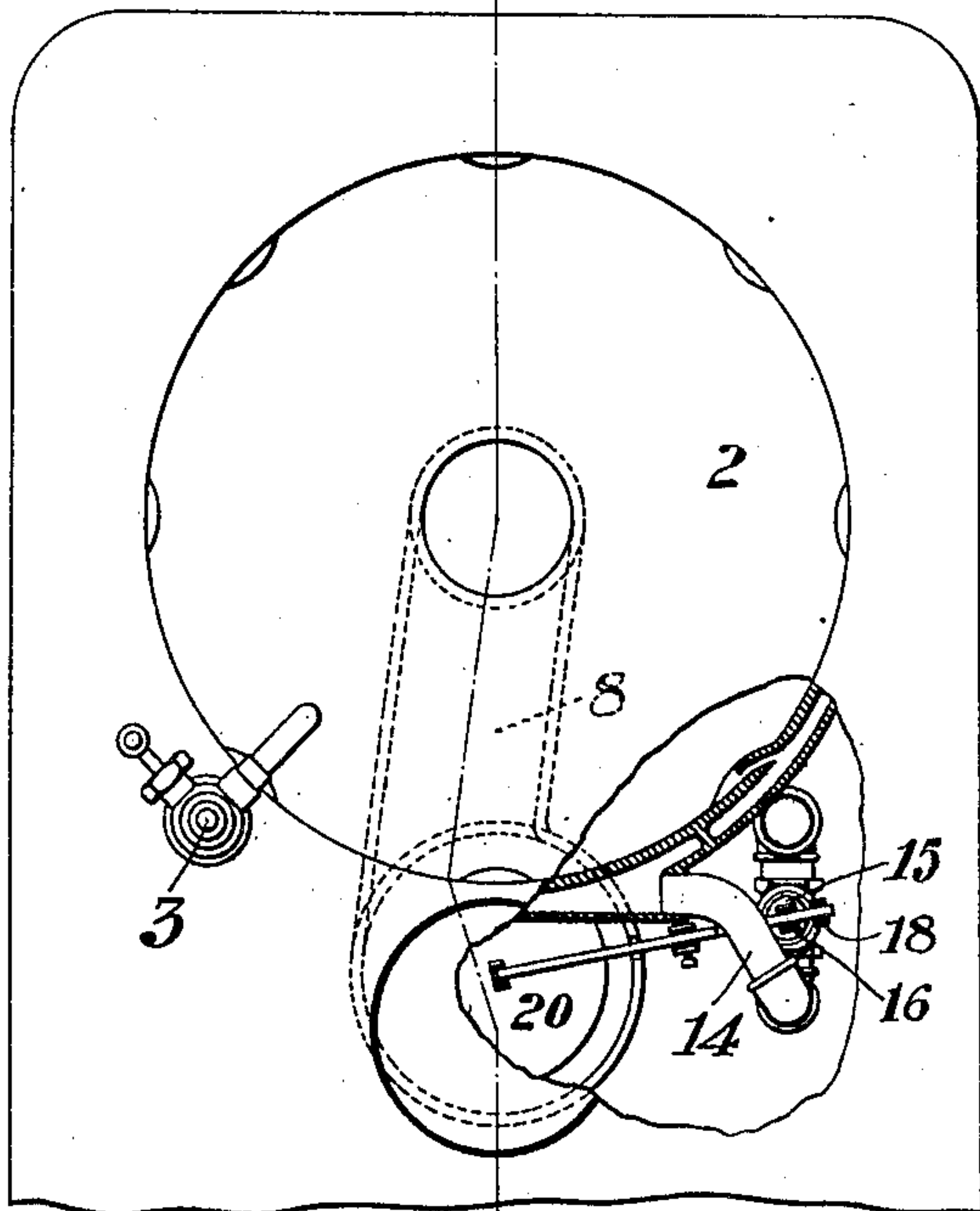


C. F. TOLLZIEN.
SANITARY WASHBOWL.
APPLICATION FILED DEC. 24, 1908.

913,323.

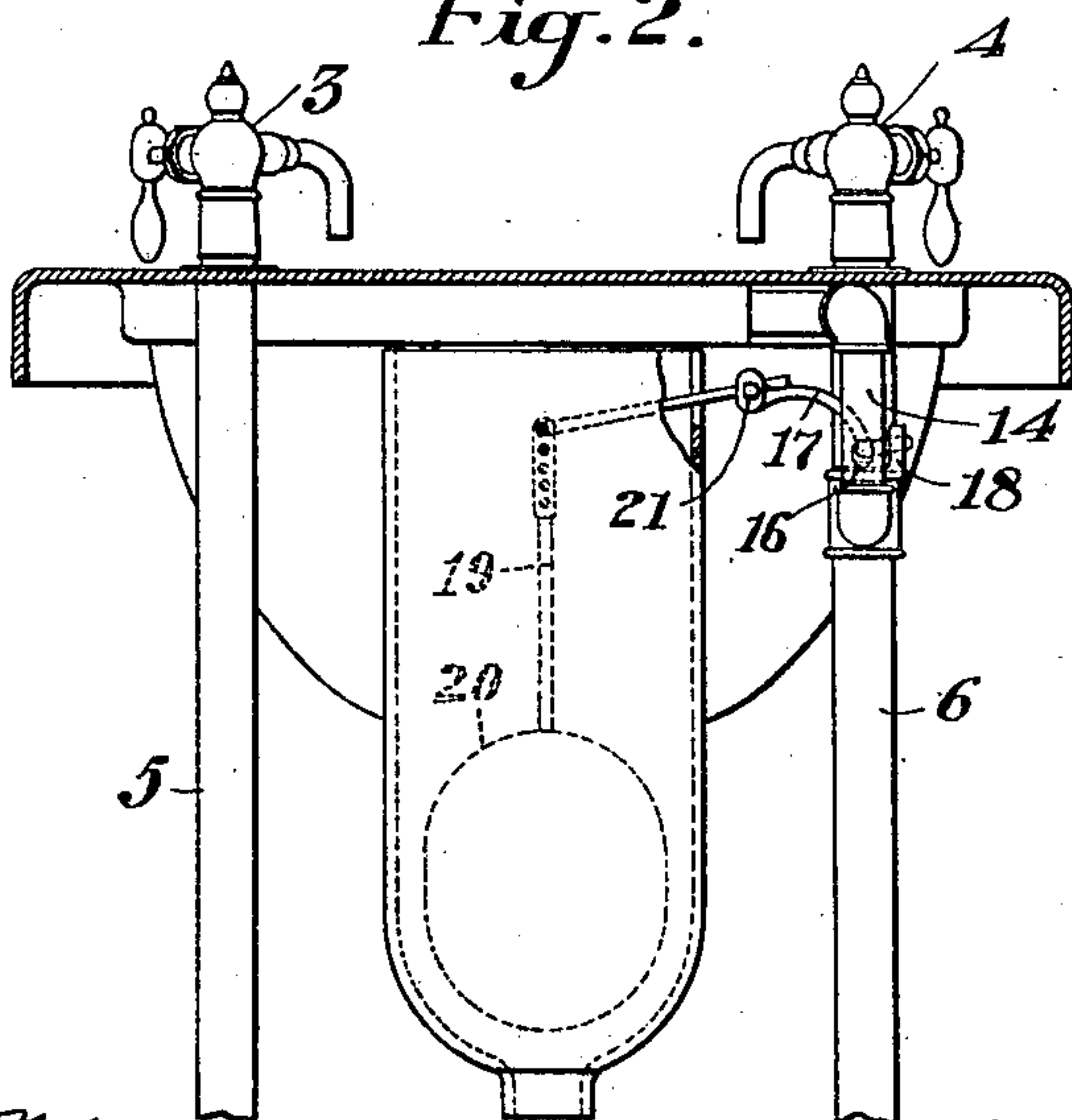
Patented Feb. 23, 1909.
2 SHEETS—SHEET 1.

Fig. 1. III



III

Fig. 2.



WITNESSES

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2 SHEETS—SHEET 2.

Fig. 3.

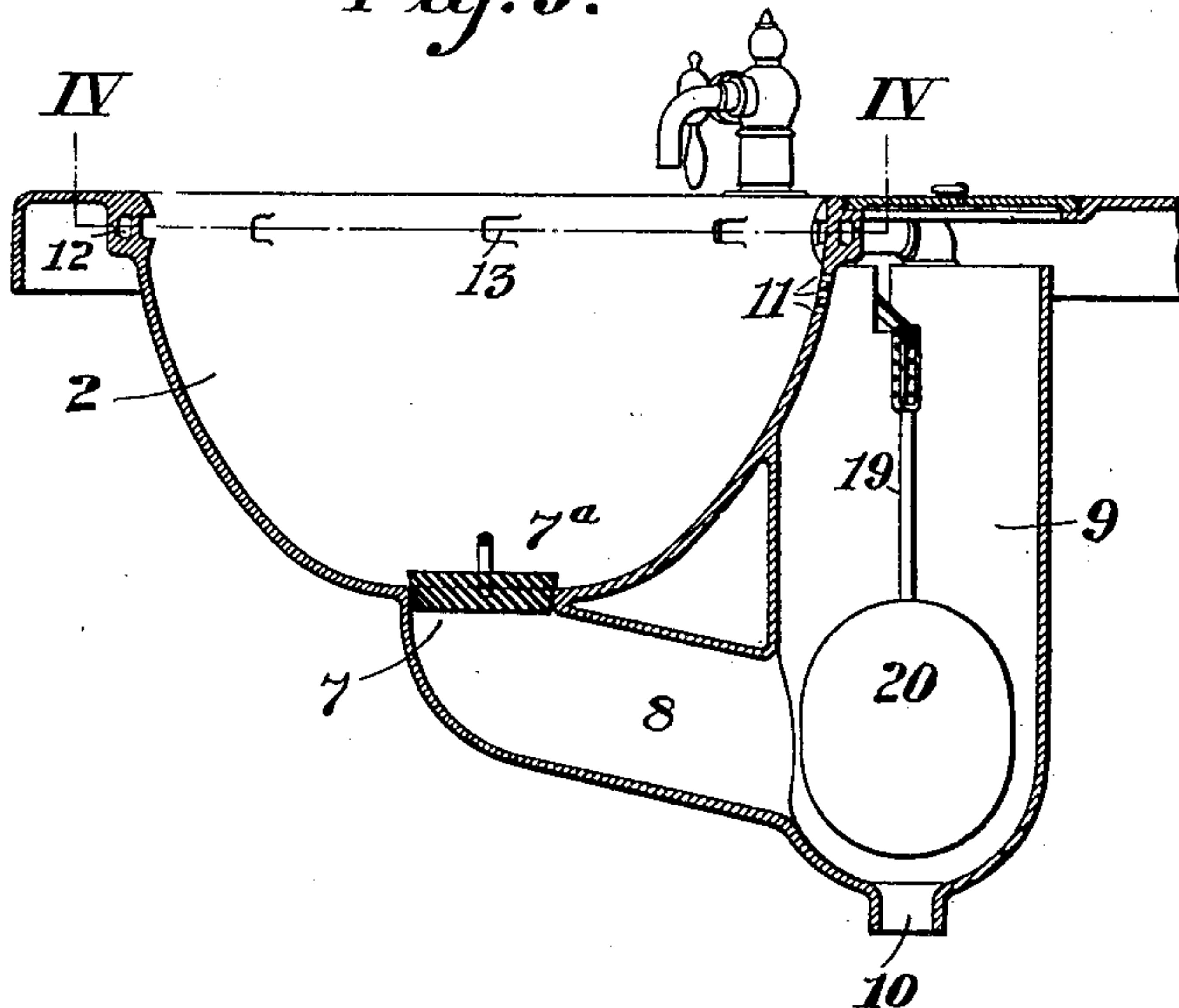
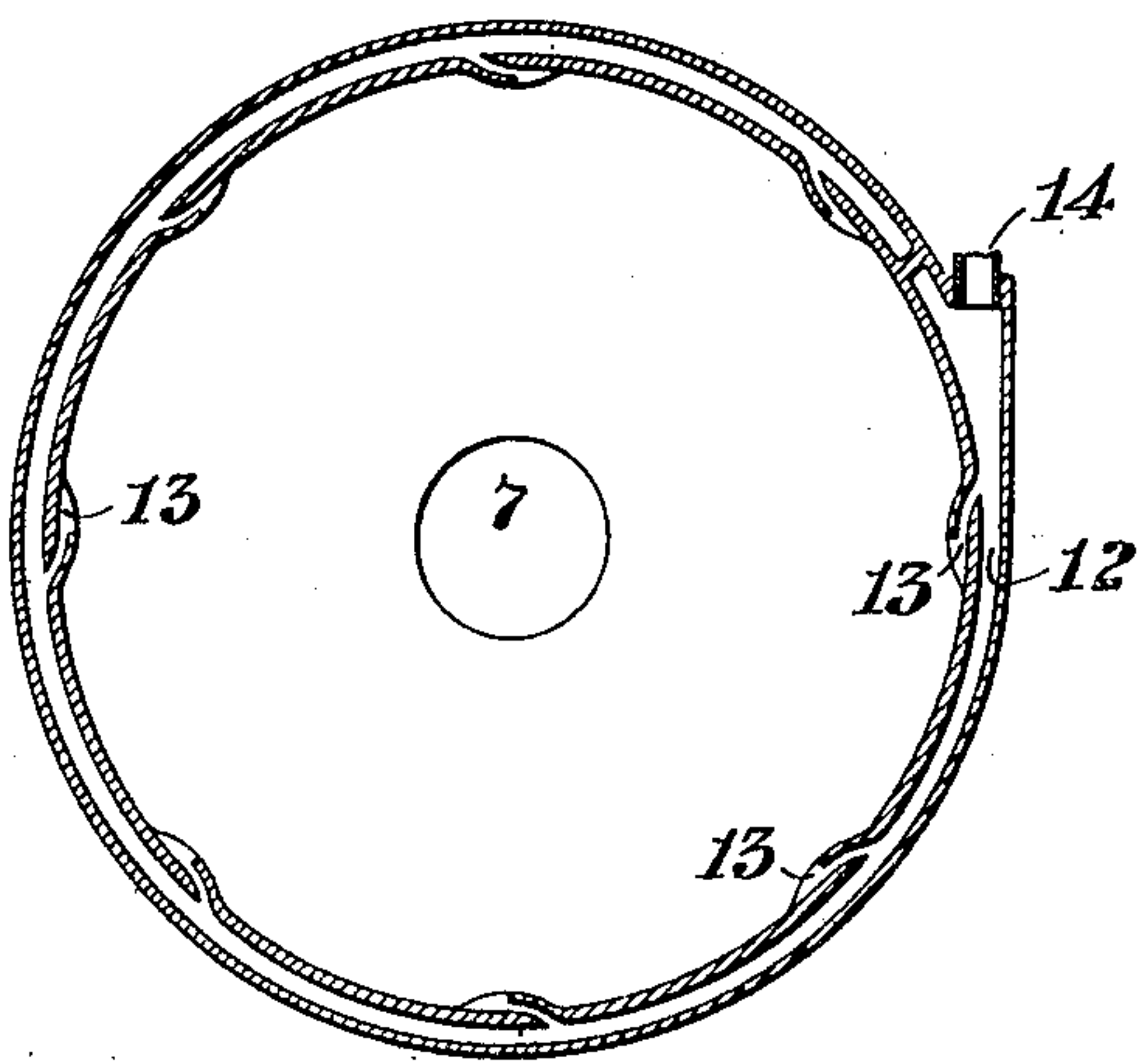


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

CLARENCE F. TOLLZIEN, OF SALEM, OHIO.

SANITARY WASHBOWL.

No. 913,323.

Specification of Letters Patent.

Patented Feb. 23, 1909.

Application filed December 24, 1908. Serial No. 469,090.

To all whom it may concern:

Be it known that I, CLARENCE F. TOLLZIEN, of Salem, Columbiana county, Ohio, have invented a new and useful Sanitary Washbowl, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan view of a wash bowl with one form of flushing device attached; Fig. 2 is a rear view; Fig. 3 is a sectional view on the line III—III of Fig. 1; and Fig. 4 is a sectional view on the line IV—IV of Fig. 3.

My invention relates to stationary wash bowls of the type connected to a water supply and having a drain connection and is particularly designed to provide means for flushing the bowl after the drain plug has been withdrawn to allow the water to escape to the drain.

My invention provides a simple, cheap, durable and efficient flushing device which will automatically flush the bowl after each use thereof.

The precise nature of my invention will be best understood by reference to the accompanying drawings, which will now be described, it being premised, however, that changes may be made in the details of construction, and general arrangement of parts by those skilled in the art, without departing from the spirit and scope of my invention, as defined in the appended claims.

In the drawings, the numeral 2 designates a washbowl, provided with the cocks 3 and 4 connected with the respective water pipes 5 and 6. The bottom of the bowl is provided with the usual outlet 7 which is closed by means of the stopper 7^a. This outlet leads into a duct 8, the other end of which is connected to a chamber 9 at the rear of the bowl 2. This duct 8 is tangentially connected with the chamber 9, as shown in Fig. 1, for the purpose hereinafter described.

10 is an outlet leading from the bottom of the chamber 9, and is connected to a suitable drain, not shown. This outlet is of smaller area than the duct 8.

11 are openings leading from the upper portion of the basin into the chamber 9 and are provided for the overflow if either of the cocks 3 and 4 should be left open when the outlet 7 is closed.

Surrounding the upper portion of the

bowl is the inclosed flushing channel 12, provided with a plurality of outlets 13 leading into the upper portion of the bowl. This channel 12 is connected with the water supply pipe 6 by means of the pipe 14, and is provided with a valve 15 between the pipe 6 and the channel 12. This valve may be of any well known type that will perform the required function. In this case, the valve is provided with a stem 16 which is connected to a lever 17. One end of the lever bears against a forked lug 18 on the valve casing; the other end thereof is connected to a stem 19 of a float 20, within the chamber 9. The stem 19 is provided with a series of orifices so that the height of the float 20 can be varied. That portion of the lever 17 between the valve and the stem of the float is provided with adjusting means such as shown at 21 to vary the length of said lever and also to facilitate assembling the parts.

The operation of the device shown is as follows:—When the plug in the outlet 7 is withdrawn the water will rush through this opening and the duct 8 into the chamber 9 raise the float 20, and through the medium of its connections, open the valve 15 and flush the basin by means of water flowing from the pipe 6 through valve 15 and pipe 14 into the chamber 12, and passing out through the openings 13 into the basin. As soon as the greater portion of the water passes out of the chamber, the float drops and closes the valve 15. The period during which the valve is open is dependent upon the amount of water released from the bowl (the height of the float,) as well as the ratio of the size of the outlets 7 and 10. It will also be understood that the outlet 10 must be large enough to carry off as much water as would be supplied from the combined cocks 3 and 4, and valve 15.

As shown in the drawings, the openings 13 are provided with projecting lips which will give the water passing through these openings a whirling action in the bowl, to rinse the side of the bowl and remove any sediment deposited from the water released therefrom. The tangential entrance of the duct 8 into the chamber 9 gives the water a whirling motion which retards the exit of the water first entering the chamber, and this whirling motion will also prevent the depositing of dirt and soap on the sides of the chamber and float.

In the construction shown, the outlet from the basin is open and closed by means of an ordinary stopper or plug, which will allow a free outlet for the water leaving the bowl and permit the same to back up in the chamber, raise the float and open the flushing valve.

Various changes can be made in the general construction to meet the requirements in the various types of wash bowls either with or without the use of the float. It can also be used in conjunction with mechanically operated stoppers, and can readily be applied by those skilled in the art so as to flush the bowl when the stopper is removed.

The advantages of my invention result from the provision of automatic means for flushing a wash basin when the water is released from the basin, thereby providing a sanitary basin for public wash rooms and elsewhere, which will be automatically rinsed immediately after each emptying of said basin, and any deposit or sediment removed before the same dries and sets to the bowl.

I claim:—

1. A wash bowl, comprising a flushing channel having an outlet leading from the channel into the bowl, an outlet in the bottom of the bowl, means to close the outlet, a water supply for the flushing channel, and means to open and close the water supply when the outlet from the bowl is opened; substantially as described.

2. A wash bowl, comprising a flushing channel having outlets leading from the channel into the bowl, an outlet in the bottom of the bowl, means to close the outlet, a water supply for the flushing channel, and connections to open and close the water supply when the outlet from the bowl is opened, substantially as described.

3. A wash bowl, comprising a water supply for flushing the bowl, an outlet from the bowl, means to close the outlet, and means to open and close the water supply to flush the bowl when the outlet from the bowl is opened; substantially as described.

4. A washbowl, comprising a water supply for flushing the bowl, an outlet from the bowl, means to close the outlet, and connections to open and close the water supply to

flush the bowl when the outlet from the bowl is opened; substantially as described.

5. A wash bowl, comprising a water supply to flush the bowl, a valve controlling the water supply, an outlet from the bowl, a chamber connected to the bowl outlet, an outlet from the chamber, a float within the chamber, and means controlled by the float to open and close the valve; substantially as described.

6. A wash bowl, comprising a water supply to flush the bowl, a valve controlling the water supply, an outlet from the bowl, a chamber connected to the outlet and having a float therein, an outlet from said chamber, connections between the float and the valve, and means to raise the float to open the valve, and flush the bowl; substantially as described.

7. A wash bowl, comprising a water supply to flush the bowl, a valve controlling the water supply, an outlet from the bowl, a chamber having a float therein, a tangential connection between the bowl outlet and the chamber, an outlet from said chamber, connections between the float and the valve, and means to raise the float to open the valve, and flush the bowl; substantially as described.

8. A wash bowl, comprising a water supply to flush the bowl, a valve controlling the water supply, an outlet from the bowl, a chamber connected to the outlet and having a float therein, an outlet from said chamber, connections between the float and the valve, and means controlled by the outgoing water to raise the float to open the valve and flush the bowl; substantially as described.

9. A wash bowl, comprising a flushing channel having outlets leading from the channel into the bowl, an outlet in the bottom of the bowl, means to close the outlet, a water supply for the flushing channel, and means controlled by the outgoing water to flush the bowl; substantially as described.

In testimony whereof, I have hereunto set my hand.

CLARENCE F. TOLLZIEN.

Witnesses:

C. R. HEACOCK,
E. N. BECK.