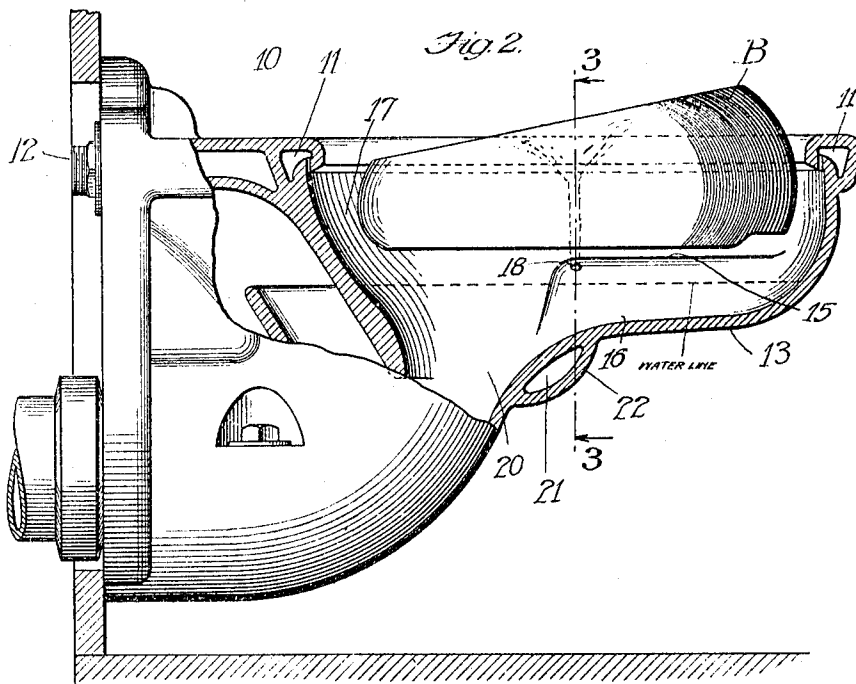
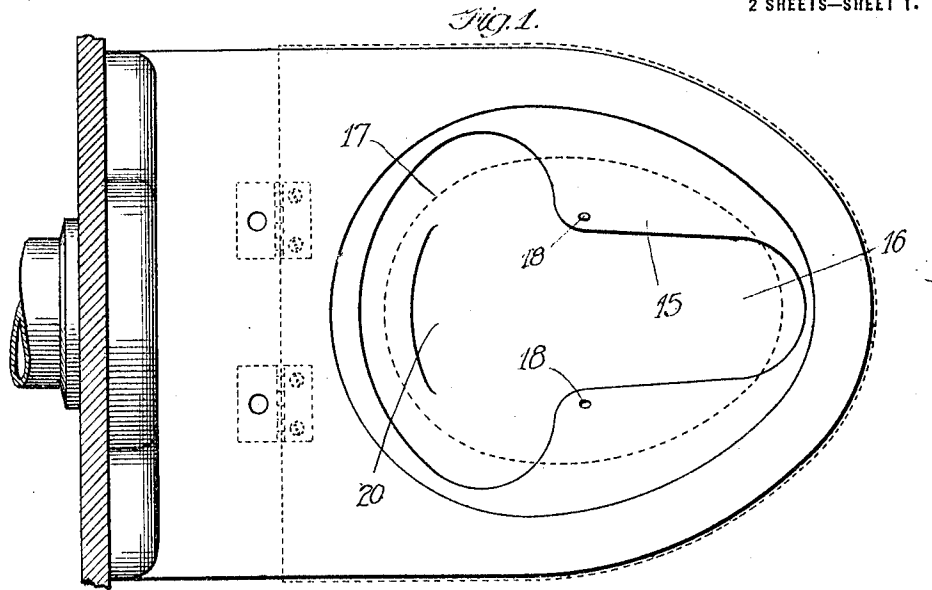


E. G. WATROUS.
WATER CLOSET.
APPLICATION FILED APR. 15, 1918.

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Patented Sept. 23, 1919.
2 SHEETS—SHEET 1.



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Fig. 3.

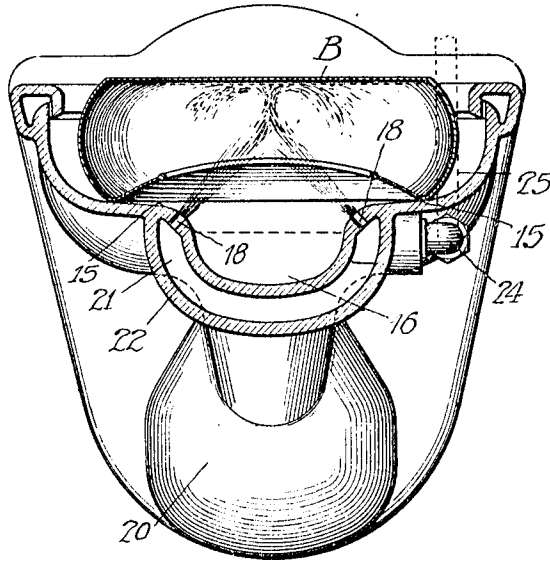
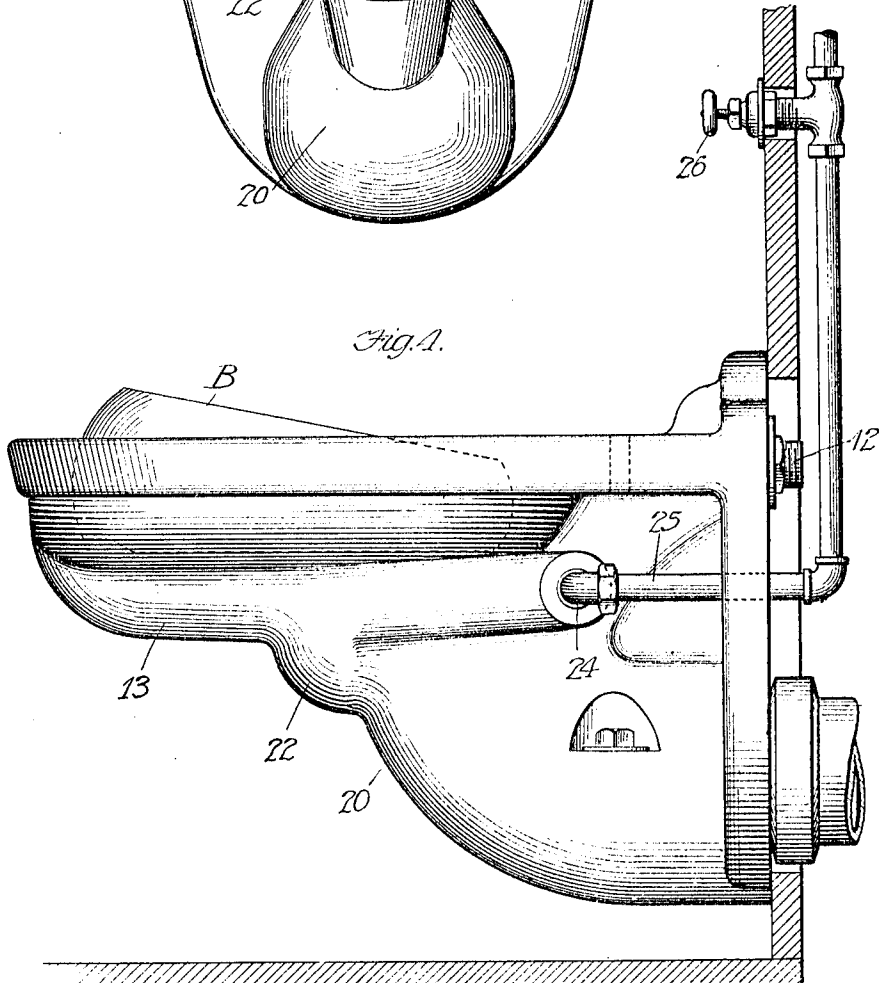


Fig. 4.



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UNITED STATES PATENT OFFICE.

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WATER-CLOSET.

1,316,871.

Specification of Letters Patent. Patented Sept. 23, 1919.

Application filed April 15, 1918. Serial No. 228,535.

To all whom it may concern:

Be it known that I, EARL G. WATROUS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Water-Closets, of which the following is a specification.

My invention provides a water closet constructed for special service, beyond its ordinary utility, in the cleansing of sanitation receptacles such as bed pans, and it consists in the features of construction and combination and arrangement of parts hereinafter more fully described and as specified in the claims.

It has heretofore been suggested by others that a closet be formed with a bowl of plan area adequate to accommodate a bed-pan and that, supplementally to the usual flushing equipment, a central water-jet arrangement be provided for projecting a stream upwardly into the inverted bed-pan placed in the bowl, but my invention affords improvement in many important respects over such closets as heretofore proposed.

In the drawings Figure 1 is a plan view of a closet constituting an embodiment of my invention; Fig. 2 is a section partly in elevation taken longitudinally therethrough; Fig. 3 is a cross section on line 3—3 of Fig. 2, and Fig. 4 is a side elevation.

The principal closet fitting, generally indicated at 10, is preferably an integral structure and may be of any desired type affording a suitable normal flushing channel 11, that is connected with the source of water supply typified by piping stud 12 and a suitable eduction passage, preferably for siphonic action. The features of bowl construction and auxiliary water supply that constitute my improvements have no especial relation to the operating type (siphonic or otherwise) of the closet except that, as is customary, the eduction passages should be so arranged as to maintain a definite water level in the bowl. The closet fitting includes a specially shaped bowl 13 in which a normal water level as indicated by line WL is maintained, and the inner surface of the bowl affords shoulders 15, above the normal water level, local to the forward portions of the opposite sides so as to leave free from obstruction an I-shaped water-containing zone or area that comprises a central forward zone 16 extending full length of the bowl and a transverse rear

zone, 17, including, full width, the major portion of the rear half of the bowl. These shoulders will afford adequate support for a major portion of the length of the sanitary receptacle to be cleaned and, for hospital service, the whole bowl and its shoulders may be specially designed to receive the particular size of bed-pan B that is adopted as standard. Each of the supporting shoulders is apertured as at 18, near its rear end, these apertures being diagonally positioned, suitably to throw water jets upwardly and convergently; and water supply means, independent of the normal flushing equipment, is provided for such jet openings. In the specific construction shown, and desirably employed, the closet fitting is molded with its bowl 13 having a relatively shallow forward end (Fig. 2) centrally deep enough to afford a quite-shallow water-channel 16, and the sides of this channel merge through smooth curves into the portions that form the shoulders 15. At about the rear ends of the shoulders 15 the bowl-bottom descends in smooth curves, tapering downwardly as at 20, to communicate with the usual eduction passages. Conforming with the under walls of the bowl I provide a channel 21, formed between the bowl walls and a web 22 that curves across the under-side of zone 16 and rearwardly along the under curve of zone 17, this web having an inlet opening 24 communicating, through suitable fittings, with the auxiliary supply pipe 25 controlled by handle 26, so that water may be delivered to jets 18.

It will be apparent that when the customary seat (not shown) is down, the closet serves all its ordinary uses, (the shoulders 15 being localized to normally non-receptive portions of the bowl) and that the flushing of the closet through the customary rim channel 11 will sufficiently cleanse all of its surfaces, the auxiliary water supply devices not being ordinarily called into play. With the seat raised the bed-pan B may be placed upsidedown to rest, above the normal water level, on the shoulders 15 with its opening above the opposed diagonal jet orifices 18, so that when water is admitted from the auxiliary supply pipe 25 it is projected upwardly in convergent streams to meet, preferably, at about the opening of bed-pan and consequently to spread, fan-shaped, lengthwise of the pan thoroughly cleansing

its inner surfaces. By the arrangement described the many disadvantages of a central jet are avoided and an efficient water-delivery arrangement is provided that does not interfere with such provision of water-containing zones as will fully satisfy normal-use requirements.

It will be understood that changes in detail of construction and arrangement may be made to meet requirements of particular sanitary receptacles to be cleansed, and to adapt the invention to closets of particular type or design other than that shown, without departure from the spirit of my invention within the scope of the appended claims.

What I claim is:

1. A closet having a bowl provided with supporting shoulders for reception of a bed-pan or the like and with means for directing water jets upwardly from opposite sides of the bowl above the water line and below the shoulders' level, and means for water supply thereto.

2. A closet providing, within the confines of its bowl, supporting shoulders above the normal water line, local to the forward side portions of the bowl, and means for projecting water upwardly and convergingly from said shoulders.

3. A closet having its walls shaped to afford supporting shoulders along the forward side portions only and a water receptive

channel in rear of and between said shoulders, said shoulders having converged jet orifices therethrough adjacent their inner rear ends, and means for supplying water to said orifices.

4. A closet having its walls shaped to afford supporting shoulders along the forward side portions and a water receptive channel in rear of and between said shoulders, both said shoulders having jet orifices therethrough adjacent their inner rear ends, a web wall bounding a water channel communicating with said orifices, and valve controlled means for supplying the water to said channel.

5. A closet providing a bowl having side walls shaped to provide shoulders along its forward portion and a water receptive channel shallow between, and deeper in rear of, said shoulders, said shoulders having convergent jet orifices adjacent their rear inner ends, there being a water channel formed in the closet wall communicating with the jet orifices.

6. A closet comprising a bowl having a flushing channel near its rim, shoulders projecting inwardly along its front side portions only above the normal water level, convergent jet openings through said shoulders, and a water supply channel communicating with said jet openings.

EARL G. WATROUS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."