E. G. WATROUS.

CLOSET.

APPLICATION FILED AUG. 8, 1918.

1,363,027.

Patented Dec. 21, 1920.

2 SHEETS—SHEET 1.

Fig. 1.

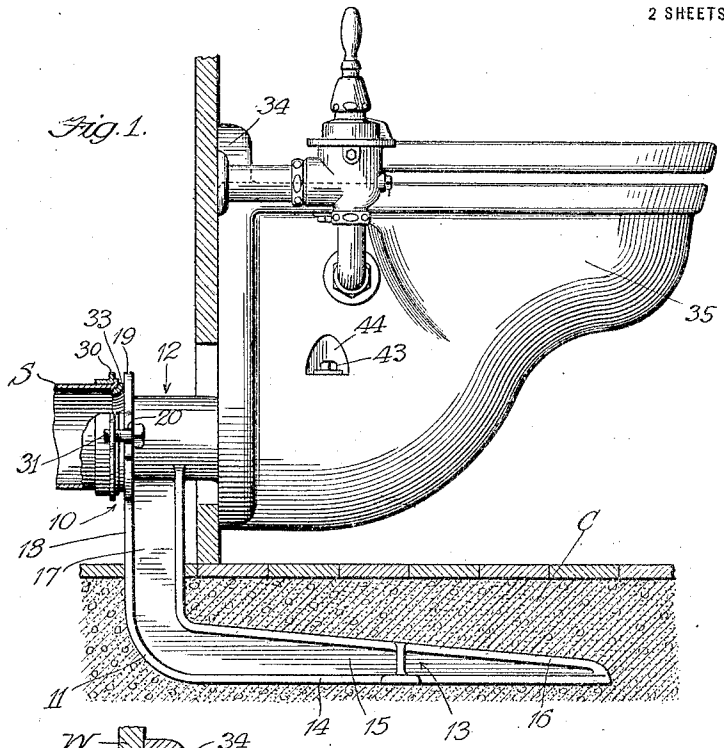
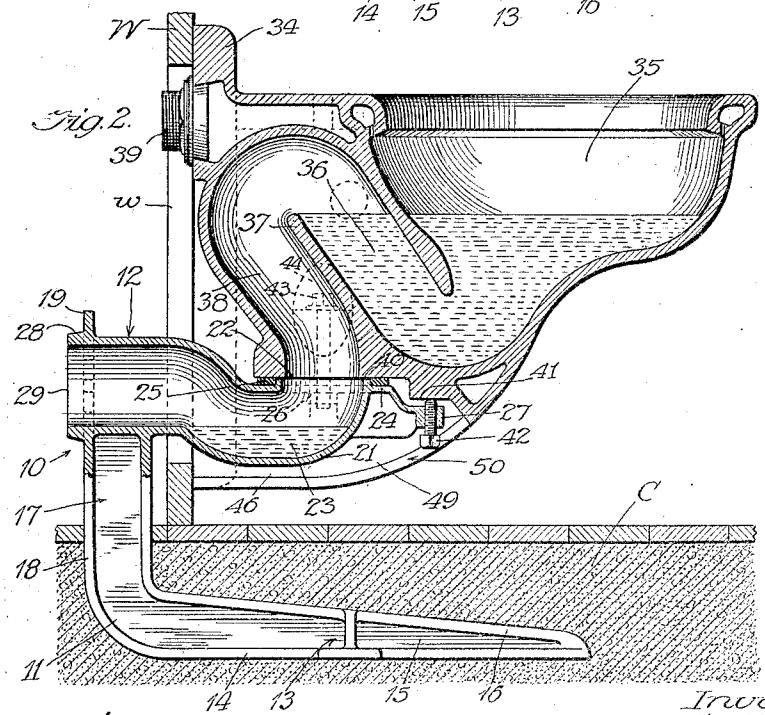


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

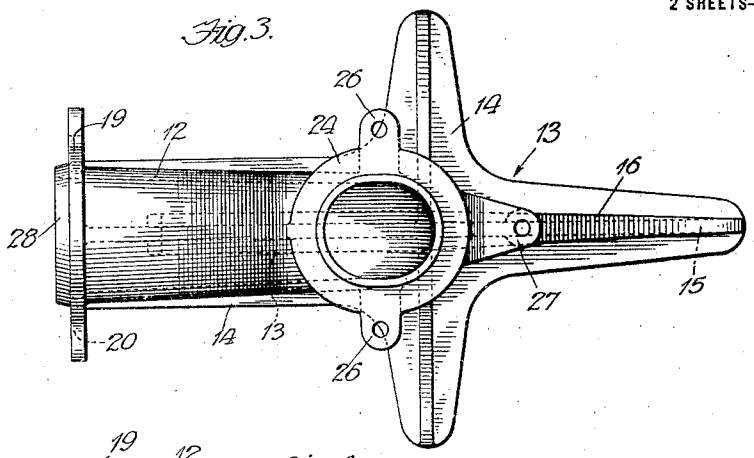


Fig. 4.

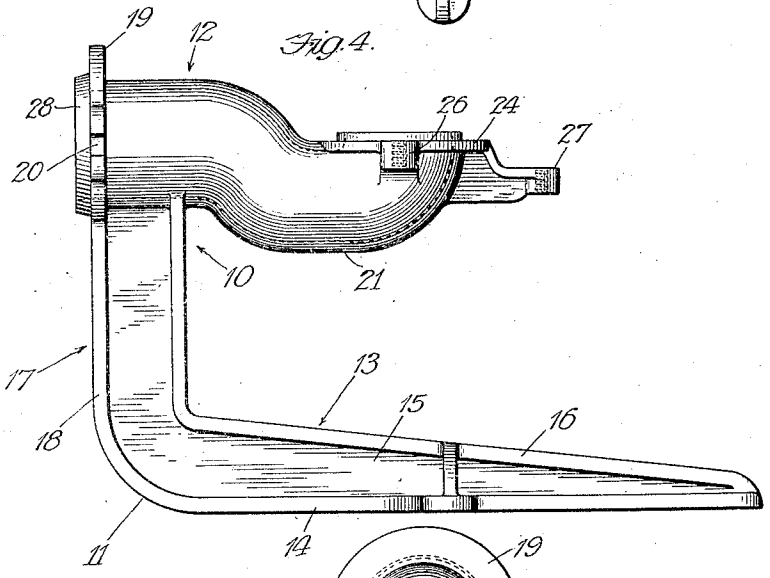
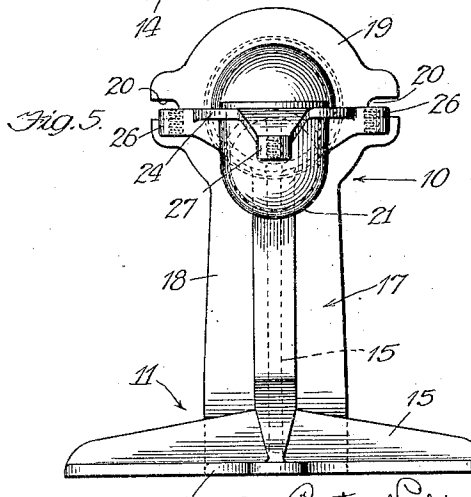


Fig. 5.



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UNITED STATES PATENT OFFICE.

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CLOSET.

1,363,027. Specification of Letters Patent. Patented Dec. 21, 1920.

Application filed August 8, 1918. Serial No. 248,990.

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 Closets, of which the following is a specification.

My invention relates to closets, and in some of its features more particularly to those of the siphonic type. Its general object is to provide a closet to be mounted flush against a wall, out of contact with the floor, and another object is to afford a simple, effective mounting of the bowl on a combined soil-pipe and supporting bracket that is adapted to be built into concrete floor structure.

Other features of my invention, consisting of the construction and combinations of parts hereinafter set forth and claimed, will become apparent to those skilled in the art in the following description taken in conjunction with the accompanying drawings. In such drawings I have illustrated a single embodiment of my invention that involves features common to my co-pending application Serial No. 248989 filed of even date herewith. Such common features are not claimed herein and it will be understood that my present invention is not restricted to the specific embodiment thereof thus illustratively chosen.

In the drawings Figure 1 is a side elevation of the closet set up; Fig. 2 is a longitudinal vertical section therethrough and Figs. 3, 4 and 5 are respectively a plan view of a side elevation and a front elevation of the supporting element.

The closet-support particularly illustrated, it will be understood, is designed for installation in buildings having concrete floors, although many of the features of the invention may be applied in constructions adapted for other installations. The supporting bracket in the construction specifically shown is a metal casting 10 comprising two main portions; the standard 11 and the soil pipe portion 12. These are preferably integral as shown, though they may be separate pieces secured together. The foot 13 of the standard, preferably of cross shape, as shown, in plan, is preferably of inverted T shape in section with a base web 14, vertical web 15 and a border flange 16, so that the foot portion of the standard that is preferably embedded in the concrete body C of the floor will be very solidly held and will afford near the center of its length a maximum supporting area. At its rear end the foot merges into the upright limb 17 that continues the T-shaped section, the broad rear web 18 (constituting a continuation of the base-web 14) extends up in the wall space and merges into the soil-pipe-flange 19, that is notched at 20 to receive bolts. The soil pipe portion 12 extends generally horizontally forward beyond the limb 17 to project through an opening *w* in the wall W. Between its ends it is preferably tapered forwardly and preferably dips downward somewhat and then sweeps upward so as to form a shallow well or trap 21 and to present its orifice 22 in a horizontal plane in a position nearly in vertical alinement with the center of the cross of the foot. The well 21 normally contains a water body 23 so that the free air passage, at this point, is relatively small. Around its end orifice 22 and slightly below the plane of its end the pipe member has a flange 24 to receive a packing ring 25 such flange having extended lateral ears 26 for the reception of fastening bolts, and a threaded front stud 27 to receive an adjusting screw. At its rear end pipe element 12 is tapered as at 28 around its vertical orifice 29 and the lead pipe stub *s* is connected therewith as by collar 30 engaging the flanged extremity of the stub and drawn up toward flange 19 by bolts 31 engaging in notches 20, so as to seal the stub-end against a packing-ring 33 on taper 28. Other connecting means may be employed however.

The earthenware bowl-unit that is carried by the fitting 10 is intended, in the particular form shown, for support flush against the wall W and out of contact with the floor C. Its sides and top-wall spring from a thick abutting flange or vertical base 34 and sweep forward far enough to leave between the bowl proper 35 and the base 34 the necessary room for seal and downtake walls. As shown, the bowl proper 35, seal space 36, and dam 37 are of the same arrangement referred to in my said co-pending application, the downtake 38 being preferably carried forward in its descent and registering at its bottom with the orifice 22 and the soil pipe fitting 12.

As shown, the flushing connections may be made from a connection stud 39 that will take through the wall opening *w* or in any other desired fashion.

The supporting bottom of the bowl fitting is solid, a flat surface 40 fitting on the packing ring 24, the solid abutment 41 receiving the thrust of adjusting screw 42 that takes through stud 27 to level the bowl; and the bowl unit is bolted to the ears 26 by bolts 43, the head and washers of which are located in flat bottomed recesses 44 formed in the side walls in register with the ears 26 to which the bolts extend through suitable passages formed in said side walls. The side walls are preferably continued down below the level of the bottom of the soil pipe, effectively to form a rear opening chamber 49 to conceal the bowl supporting structure, but the bottom of such chamber has an opening 50 for giving access to the supporting portion, and to enable the bowl casting to be seated on its soil pipe support.

The siphonic action in such a closet will be very effective, and it will be apparent that the particular fitting affording support to the closet and continuation from the soil pipe stub *s* is advantageous in strength, in its solidity of the mounting, in small space requirement, in simplicity and in the functioning of its soil pipe extension portion.

While I have herein described only a single practical embodiment of my invention for purposes of disclosure, it will be understood by those skilled in the art that my invention in its broader aspects is not limited to the details shown, but may be embodied in different specific forms within the spirit of my invention under the scope of the impending claims.

What I claim is:

1. In a closet, the combination of a supporting foot and upright limb, a soil pipe element rigidly carried by the upper end of said limb and projecting forward over the foot and there up-turned to present its one extremity in a horizontal plane, and a bowl having a vertical base for wall contact and a horizontal supporting surface for bearing on the pipe-end, and means positively fastening said bowl to the pipe.

2. In a closet, the combination of a bowl unit, having a vertical base, adapted to be located flush against a wall and free from the floor, said bowl-unit having a downtake that opens through a solid horizontal portion of the structure, a combined piping unit and support for said bowl comprising a foot, a vertical limb and a pipe-portion integral with said limb, said pipe projecting as a coupling boss at the rear of said limb and extending forwardly from the limb and upturned at its forward end and having a horizontal flanged portion receiving and supporting the bowl-structure, and means accessible from the exterior of the bowl securing the bowl unit to the pipe-portion.

3. A combined closet support and soil pipe structure comprising in an integral fitting a foot, an upright limb and a soil pipe projecting from both sides of the limb, on the one side having a coupling stub and on the other side having a forwardly extending portion with an upturned, horizontally flanged, bolt-receptive end.

EARL G. WATROUS.