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FASTENING MEANS FOR WATER CLOSETS AND THE LIKE.

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1,217,965. Patented Mar. 6, 1917.

Fig. 1.

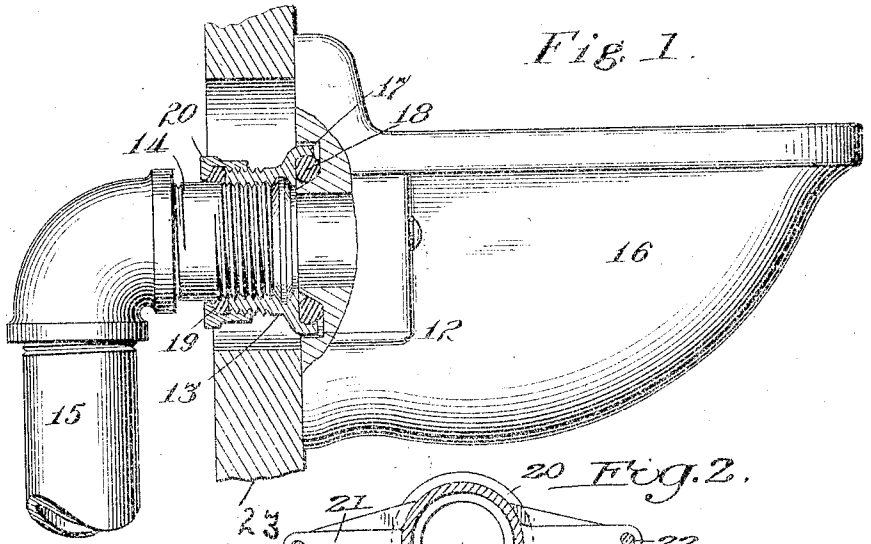
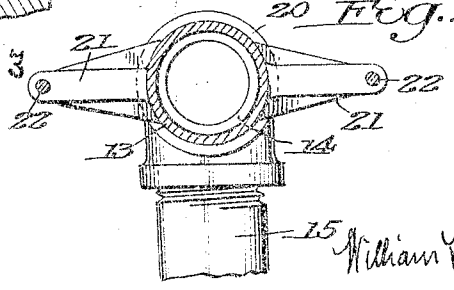


Fig. 2.



Witnesses.

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FASTENING MEANS FOR WATER-CLOSETS AND THE LIKE.

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To all whom it may concern:

Be it known that I, WILLIAM H. LLOYD, a citizen of the United States, and resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fastening Means for Water-Closets and the like, of which the following is a full, clear, and exact description, reference being had to the annexed drawing, which forms a part of my specification.

My invention, which relates to that type of water closet (or other plumbing fixture) known as the wall closet in contradistinction to the floor closet, relates more especially to the manner of fastening the bowl of the closet, or other plumbing fixture, to the side wall of a room, as will more fully appear from the following detailed description and drawing; in which,

Figure 1 is a side elevation of a bowl, the fastening means being shown in vertical section, together with a slab or wall, and

Fig. 2 is a detailed view of the fastening means as employed in my invention, with a soil pipe attachment.

My invention is especially fitted for use with the so-called wall-type of water closet in which the bowl 1 has its entire support by means of a soil pipe connection 14, thus leaving a clear and unobstructed space beneath the bowl and floor; and, as the rear portion of the bowl is made flat it can very easily be fastened to the wall or slab so as to leave practically no space between the wall and bowl.

One object of my invention is to provide a method of fastening which may be used in structures where comparatively light or thin marble walls or slabs are employed, and where any excess strain or pull might crack or dislodge the slab, and yet which will give the requisite element of stability.

It is necessary in water closets of this type that the connecting or fastening means be stiff and rigid and the bowl be retained in its proper horizontal position so as to take all undue strains from the wall or slab and at the same time prevent leaks or breaks between the outlet and soil-pipe joints.

One form of my invention is disclosed in Figs. 1 and 2, and is intended to be put into use in cases where the wall or slab is constructed of heavy materials or is of great thickness, so that there is not much probability of damage to the wall by reason of strains, etc.

In this form I employ a collar 13 which is very wide, has no bolts taking up against the rear side of the wall or slab, and has an internal screw-thread for the purpose of meshing with the external thread on the soil-pipe connection 14 leading to the waste or soil-pipe 15.

This collar 13 is also provided with a flange, as shown at 17, see Fig. 1, in order to form a seat for a gasket 18 so as to create a water tight joint in the usual manner, the bowl 16 having a cut out portion or depression 12, at the outlet thereof, as is shown in Fig. 1 of the drawing.

A more perfect water tight joint may be obtained by employing an additional gasket 19 in conjunction with a nut 20, which latter overlaps the soil-pipe connection 14 and is made screw-threaded so as to take around the rear edge of the collar 13 and compress the gasket 19.

The method of installing my device is as follows: The collar 13 is slipped over the hub of soil pipe connection 14 and is firmly fastened in place by means of the screw threads on the collar meshing with the external thread on the soil pipe connection, the extensions or projections 21 being provided with screw threaded apertures through which rods 22 are passed and extend into the apertures formed in the sides of the bowl 16, thus holding the bowl firmly in place and flush against the heavy wall or slab 23; the proper position of collar 13 being perpendicular to the soil pipe connection 14 and substantially parallel with the wall or slab; the gaskets 18 and 19 having been previously inserted and being compressed into place by means of the flange 17 and nut 20, thus creating a water-tight joint.

It is thus seen that by employing my improved method of fastening, the bowl 16 is prevented from dropping or sagging away from the wall or slab and the pressure and strains on the wall or slab caused by the bowl, are evenly distributed and spread over the entire fixture by the fastening means, thus preventing loose joints, leaks, or damage to the wall or slab by reason of undue pressure or strains thereon.

What I do claim as novel and original, and desire to obtain by Letters Patent, is:—

1. The combination of a soil-pipe, a bowl

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provided with a vertical rear face having a discharge-opening therein, a cylindrical member adapted to have screw-threaded engagement with the soil-pipe and having a flared end adapted to surround the discharge-opening in the bowl, said member being provided with integral arms disposed radially, means intermediate of the arms and the bowl for securing the latter in place, with means adjustably secured about the soil-pipe and said member for effecting a water-tight connection.

2. The combination of a soil-pipe provided with a lateral connection externally threaded, a bowl provided with a vertical rear face having a discharge-opening therein, said disharge-opening being surrounded by a counter-sunk portion, a cylindrical member adapted to screw onto the lateral connection, of the soil-pipe and provided with a flared end adapted to extend into the counter-sunk portion of the bowl and to receive fluid-tight forming means in said flared end, said member being provided with integral arms disposed radially, a gasket-compressing member adapted to screw onto the soil-pipe end of said cylindrical member so as to effect a water-tight connection between the cylindrical member and the soil-pipe, with means intermediate of the arms of said member and the bowl for securing the latter in place.

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