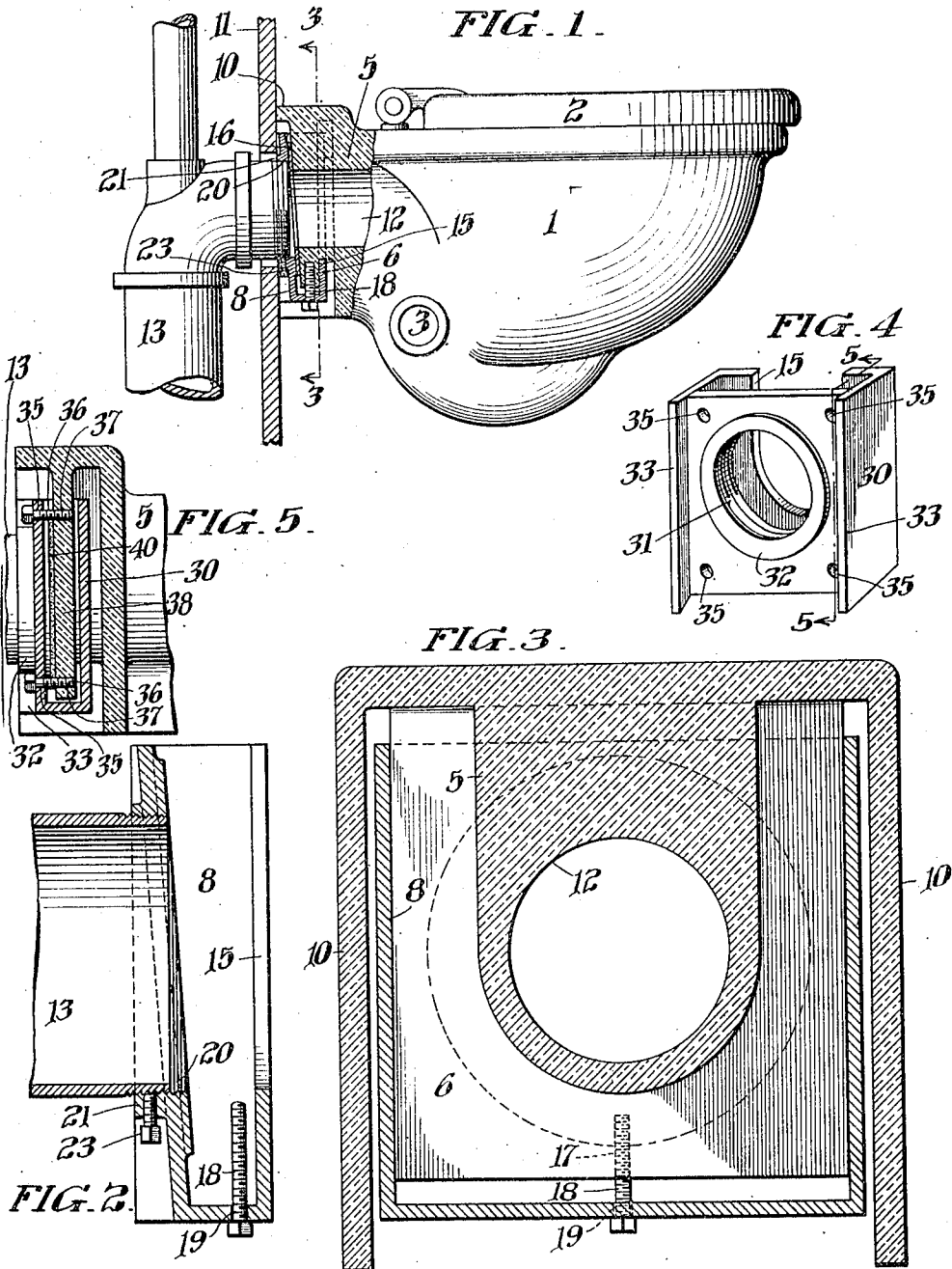


W. U. GRIFFITHS.
WALL CONNECTION FOR PLUMBING FIXTURES.
APPLICATION FILED MAY 12, 1915.

1,291,849.

Patented Jan. 21, 1919.



WITNESSES

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WILLIAM U. GRIFFITHS, OF PHILADELPHIA, PENNSYLVANIA.

WALL CONNECTION FOR PLUMBING-FIXTURES.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM U. GRIFFITHS, a citizen of the United States, and a resident of the city of Philadelphia, county of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Wall Connections for Plumbing-Fixtures, of which the following is a specification.

10 Broadly speaking, my invention relates to plumbing fixtures and has particular relation to an improved means for connecting a closet bowl, sink or the like to the upper end of a soil or outlet pipe, such closet bowl, sink or the like being supported against the side of a wall.

One of the objects of my invention is to provide a construction such that the operation and work necessary in making the connection between the closet bowl, sink or the like and the upper end of a soil or outlet pipe is greatly simplified and cheapened.

20 A further object is to provide a construction whereby the closet bowl, sink or the like may be readily adjusted and positioned with respect to the end of the soil or outlet pipe.

25 A still further object of my invention is to provide a construction whereby the connections between the bowl, sink or the like are completely concealed and hidden from view.

Other objects and advantages of my invention will be referred to in the detailed description thereof which follows or will be apparent from such description.

35 In the accompanying drawings I have illustrated certain convenient embodiments of my invention but it will be understood that changes in the details of construction may be made within the scope of the claims without departing from my invention.

In the drawings:—

Figure 1 is a view in which the upper end portion of the soil or outlet pipe and the greater portion of a closet bowl are shown in side elevation while a section of the connection between the two is shown taken in a central vertical plane extending from front to rear of the device;

50 Fig. 2 is a central vertical section of the upper end of the soil or outlet pipe and of a member of the connecting means secured thereto;

Fig. 3 is a transverse vertical sectional view taken on the line 3—3 of Fig. 1;

Fig. 4 is a view in perspective of a modified

form of one member of the connecting means; and

Fig. 5 is a view taken on the line 5—5 of Fig. 4 with the parts of the connecting means in assembled relation with respect to each other.

Referring to the drawings, 1 designates the bowl of a water closet having a seat 2 pivotally connected therewith. The water for flushing the closet is admitted from a pipe (not shown) having connection with the bowl at the point 3 or at any other convenient point. The rear end of the bowl is provided with what may be termed a projection 5 having a flange 6 which terminates the same and which constitutes a head for fitting into and cooperating with a socket member 8 constituting a member of the connecting means. The rearwardly projecting end portion of the bowl 1 is also provided with a flange-like portion 10 which extends beyond and is spaced from the head 6 so that when the bowl is in position against the side of a wall, as 11, the connections by means of which the bowl is supported are concealed and hidden from view, thereby producing a very neat and slightly appearing effect. The edges of the upper horizontal portion and the depending portions of the flange 10 rest against the wall 11 when the fixture is in place.

The socket member 8 of the connection in the construction shown in Figs. 1, 2 and 3 of the drawing is generally speaking of rectangular shape but is somewhat wider at the top (which is open) than at the bottom, as is clearly shown in Figs. 1 and 2 of the drawing.

The front wall of the socket member 8 of the fastening is substantially vertical, that is to say, it is arranged substantially at right angles to the axis of the outlet opening 12 leading from the bowl 1 to the soil or outlet pipe 13. The opposite or rear wall of the socket member 8 is inclined from the top toward the bottom as shown. The rear side of the head 6 is correspondingly inclined so that when the said head is placed within the socket the rear surface or face thereof is in substantial parallel relation to the inner face or surface of the rear wall of the socket member 8.

When the head is placed in position within the socket member as described the projecting or neck portion 5 which connects the head 6 to the main body of the closet

bowl 1 extends into a notch or opening 15 in the front upright or vertical wall of the socket member 8.

In order to insure that the joint between the rear surface or face of the head 6 and the adjacent opposing inner surface or face of the inclined rear wall of the socket member 8 shall be water-tight I have provided a washer 16 of suitable material.

For the purpose of drawing the head 6 firmly and tightly down into the socket member 8 I have provided in the lower edge of the said head a screw-threaded opening or hole 17, as indicated, with which is engaged a screw-threaded bolt 18 which extends upwardly through a hole 19 in the bottom wall of the socket member 8.

The rear inclined wall of the socket member 8 is provided with a screw-threaded opening 20 which is surrounded by an annular flange 21 of the same internal diameter as the opening 20 and which is correspondingly screw-threaded by means of which said socket member 8 is adapted to be connected with and disconnected from the screw-threaded end of the soil or outlet pipe 13.

When the socket member 8 has been screwed on to the screw-thread end of the soil or outlet pipe 13 it is held in such position by means of a clamping screw 23 which is provided in the lower side of the flange 21 as illustrated in Figs. 1 and 2 of the drawings.

In Figs. 4 and 5 I have shown a modified construction of connecting means comprising a socket member 30 having a rectangular socket or opening, open at its top, and which is of the same internal width or thickness both at its top and bottom. It is provided with a notch or opening 15 and with a screw-threaded opening 31 surrounded by an annular flange 32 of the same internal diameter as the opening 31 and which is also screw-threaded. The socket 30 is provided with flanges 33 at its rear opposite edges which are adapted to rest in contact with a wall against which the closet bowl, sink or the like fixture is supported. The rear wall of the socket member 30 is provided with a plurality of holes or openings 35 through which headed screw-threaded bolts 36 extend and engage screw-threaded holes 37 in a head 38 corresponding to the head 6 illustrated in Figs. 1 and 2 of the drawings.

Interposed between the head 38 and the opposing rear wall of the socket member 30 is a washer 40 which extends around the opening 31. When the head 38 has been placed in position within the socket of the socket member 30 the joint between the said head and the rear wall of said socket may be made water tight by screwing up the screw-threaded bolts 36 so as to force

the washer 40 firmly against the rear surface of the said head.

The said socket member 30 is secured upon the adjacent upper end of the soil or outlet pipe in the same manner as illustrated in Figs. 1 and 2 of the drawing.

The internal diameter of the soil or outlet pipe 13 is greater than the diameter of the opening 12 so that it is not necessary that the closet bowl, sink or like member shall be positioned in exact predetermined position with respect to said soil or outlet pipe.

In assembling the structure as illustrated in Figs. 1 to 3 of the drawings the socket member may be first secured to the head 6 with the washer 16 in place, the said socket member being thereafter screwed on to the screw-threaded upper end of the soil or outlet pipe 13. If preferred, however, the socket member may be first placed upon the screw-threaded upper end of the soil or outlet pipe and the head 6 thereafter placed in the socket member and drawn downwardly by means of the screw-threaded bolt 18 so as to firmly clamp the rear wall of the socket member 8 and the said head together.

In assembling the parts of the structure shown in Figs. 4 and 5 the socket member must first be secured upon the head 38 and the front wall of said socket member drawn tightly up against the washer interposed between the said rear wall and the rear surface of the head 38 by means of the tightening screw-threaded bolts 36.

While I have shown herein two different ways of securing and fastening the socket and the head together it should be understood that my invention in its broader aspect is not limited to any specific means of securing the two parts together nor in its broader aspect is it limited to any specific means for rendering the joint between the rear surface of the head and the opposing surface of the rear wall of the socket member water tight.

I claim:

1. In a plumbing fixture, the combination of an outlet pipe, a socket secured to and supported upon the said outlet pipe, said socket having a notch in its front side, a closet bowl having a rearwardly extending projection comprising neck and head portions said portions occupying the said notch and socket respectively, and a flange formed upon said projection and extending rearwardly to partially surround and conceal the said socket member.

2. In a plumbing fixture, the combination of a pipe, a socket member supported upon said pipe, the front wall of said socket member being substantially vertical and the rear wall thereof being inclined rearwardly, and a bowl provided with a socket engag-

ing portion, the front side of which is substantially vertical and the rear side of which inclines rearwardly to adapt the same to the said socket, substantially as described.

5 3. In a plumbing fixture, the combination of a pipe, a socket member detachably connected with the end of said pipe, the central portion of the front wall of said socket member being cut away, a bowl having a
10 rearwardly extending neck portion provided with lateral flanges, which flanges are adapted to fit into the said socket and the portion which extends rearwardly from said bowl being adapted to fit into the cut away
15 portion of the front wall of said socket member, substantially as described.

4. In a plumbing fixture, the combination of a pipe, a socket member having an opening through its rear wall in which opening

the end of said pipe is secured and the front 20 wall of said socket member having a relatively large open ended notch formed therein, a bowl having a rearwardly extending projection, said projection having lateral flange portions upon its rear end, which 25 flange portions are adapted to fit into the opposite edges of the socket opening of the said socket member, and the said rearward projection fitting into the said open ended notch, substantially as described. 30

In testimony that I claim the foregoing as my invention, I have hereunto signed my name this 27th day of April, A. D. 1915.

WILLIAM U. GRIFFITHS.

In the presence of—

CARRIE E. KLEINFELDER,
CLARA H. WISSMANN.

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