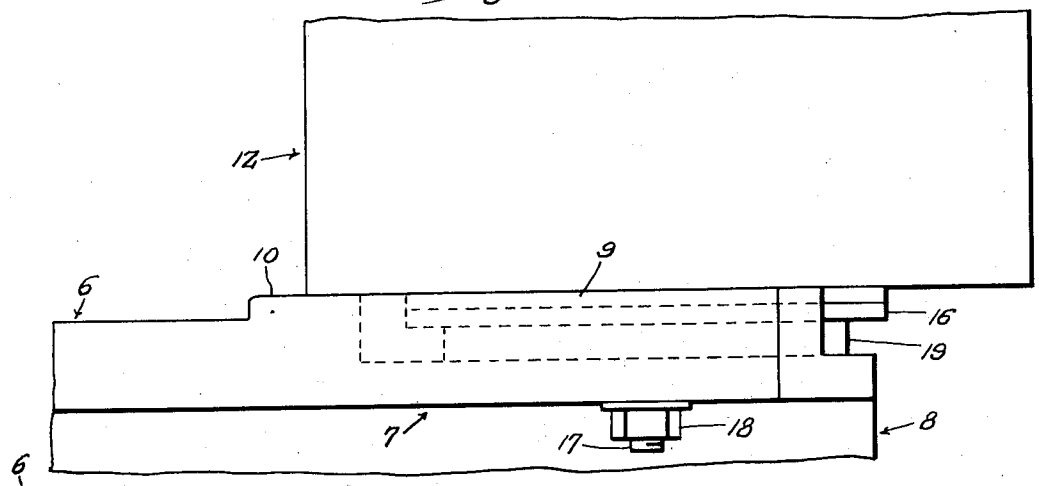
June 19, 1934. B. M. McMANAMA 1,963,709

FLUSH TANK AND HOPPER ENSEMBLE

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Fig. 1.



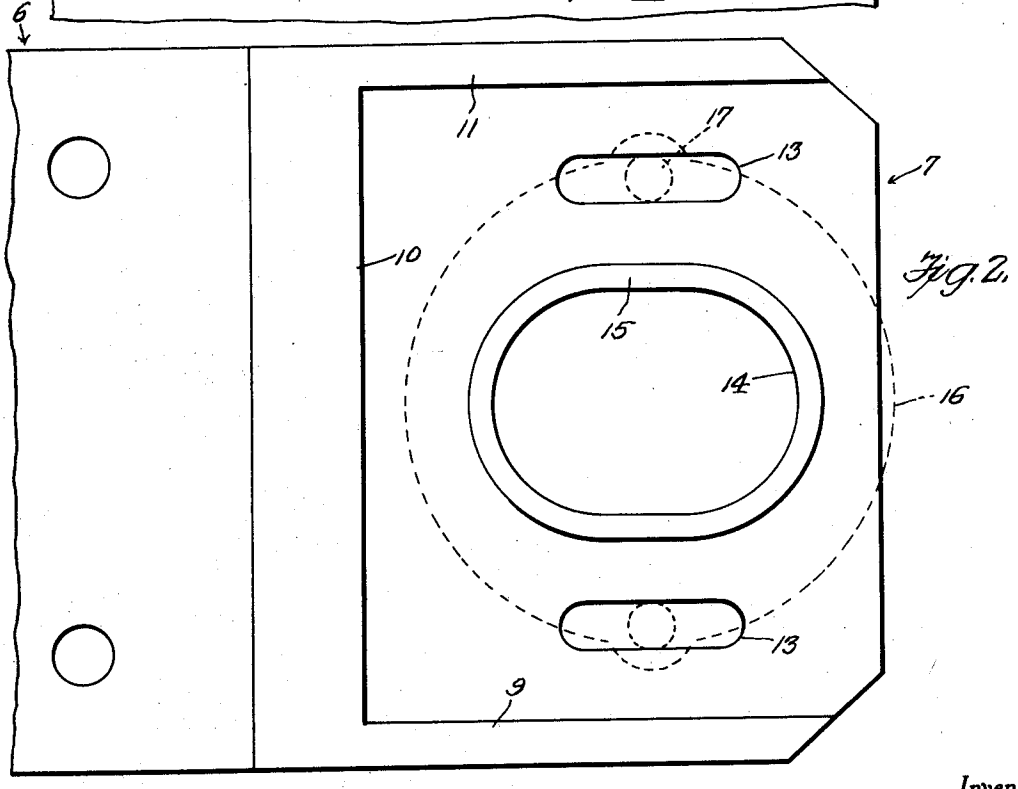
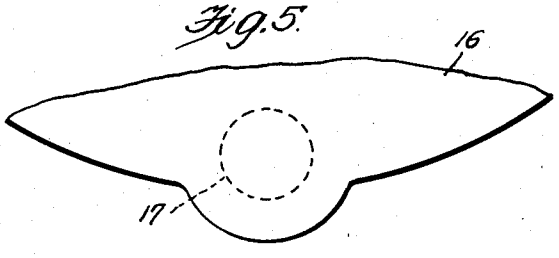


Fig. 2.

Fig. 5.



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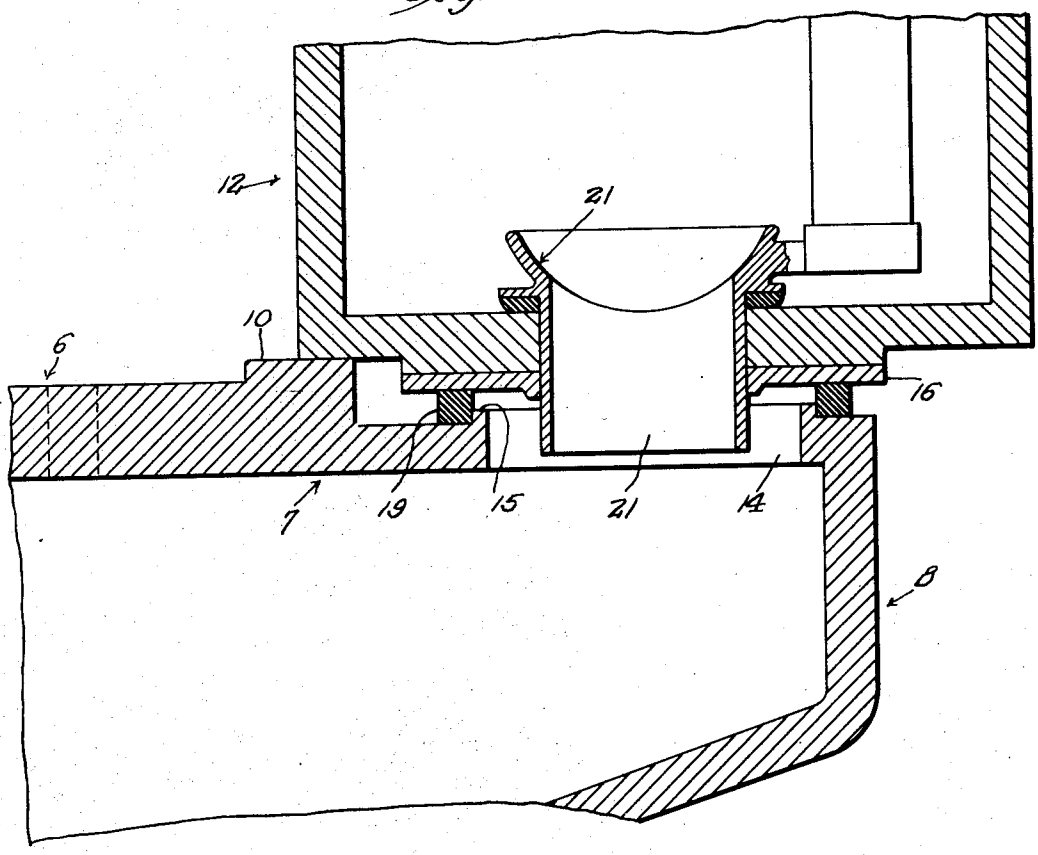
Attorney

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FLUSH TANK AND HOPPER ENSEMBLE

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Fig. 3.



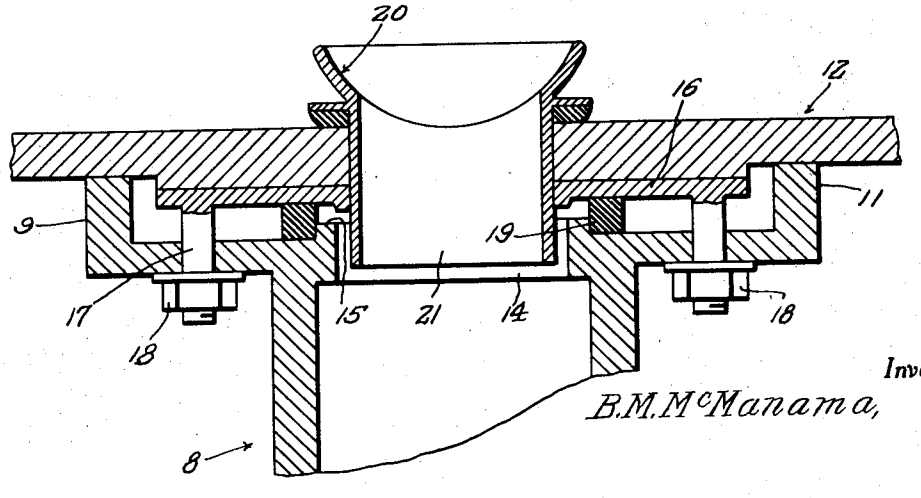


Fig. 4.

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Patented June 19, 1934 1,963,709

UNITED STATES PATENT OFFICE

1,963,709

FLUSH TANK AND HOPPER ENSEMBLE

Bernard M. McManama, Pittsburgh, Pa.

Application May 9, 1932, Serial No. 610,163

1 Claim. (Cl. 4—14)

The present invention relates to lavatory equipment and appliances and has more specific reference to a novel unitary assemblage of a hopper and complemental flush tank.

The gist of the invention is in the provision of a hopper or bowl having its rear end portion formed with an integral flush-tank supporting extension designed to permit the tank to rest firmly and adjustably on said extension in order to provide a more substantial and practical connection between the bowl and tank.

In the accompanying drawings wherein like numerals are employed to designate like parts throughout the same:

Figure 1 is a fragmentary side elevational view of the invention.

Figure 2 is a top plan view of the hopper with the tank removed.

Figure 3 is a sectional view through the structure seen in Figure 1.

Figure 4 is a view similar to Figure 3 taken at right angles thereto.

Figure 5 is a fragmentary detail view.

Referring now to the illustrative drawings representing the preferred embodiment of the invention, it will be observed that the hopper or bowl proper is denoted by the numeral 6 and in accordance with the present invention is formed at its rear portion with an integral tablet-like extension 7 of the general rectangular configuration represented in Figure 2, and an underlying water delivery duct 8.

The extension is formed with an upstanding marginal rim comprising the companion portions 9, 10, and 11, which serve as seating ledges for the base of the flush tank 12. The numerals 13 merely designate elongated bolt slots while the numeral 14 represents the elongated oval-like water inlet hole. This is surrounded by an endless upstanding flange 15.

As seen in Figures 3 and 4, the bottom or base of the tank is provided with a rigid disc-like plate 16 provided with stud bolts 17 which extend down through the slots 13 to accommodate the clamping nuts 18. Interposed between the plate and extension and surrounding the flange 15 is a rubber gasket ring 19 which serves to provide the requisite fluid-tight joint.

The numeral 20 merely designates the tank valve seat having a depending nipple 21 extending down into the delivery or inlet opening 14, whereby to conduct the water from the tank into the delivery duct 8.

The primary novelty is predicated upon the substantially rectangular elevated ledge-equipped extension or plate 7 having the delivery duct 8, all of said parts being formed integral with the main bowl or hopper 6. The elongated slot 13 and correspondingly shaped opening 14 serve to permit the flush tank to be bodily shifted into firm contact with the wall (not shown) after which it may be bolted down securely for rigid maintenance.

This arrangement constitutes a practical advancement in the art and trade which is sturdy, dependable and efficient, and capable of better fulfilling the requirements of an assembly of this class.

Particularly do I wish to emphasize the arrangement wherein the flush tank is seated shiftably on the plate-like extension and provided with readily accessible and dependable clamping and retaining means. In fact, all the parts have been especially selected and mechanically matched to insure effective results.

It is thought that the description taken in connection with the drawings will enable a clear understanding of the invention to be had. Therefore, a more lengthy description is thought unnecessary. While the preferred embodiment of the invention has been shown and described, it is to be understood that minor changes coming within the field of invention claimed may be resorted to if desired.

I claim:

In a structure of the class described, in combination, a closet bowl comprising a one-piece body including a substantially rectangular plate-like extension on its rear portion having an underlying relatively narrow water-delivery duct, formed with an elevated marginal tank-supporting ledge, a central longitudinally elongated water intake hole surrounded by an upstanding flange, and on opposite sides of said hole with elongated bolt slots; together with a flush tank adapted to seat directly on said ledge, said flush tank being provided with an integral plate having studs to extend down through the slots and a gasket ring interposed between the stud-plate and said extension and surrounding said flange.

BERNARD M. McMANAMA.