F. W. AUER.

WATER CLOSET CONSTRUCTION.

APPLICATION FILED APR. 6. 1917.

1,333,368.

Patented Mar. 9, 1920.

2 SHEETS—SHEET 1.

Fig. 1.

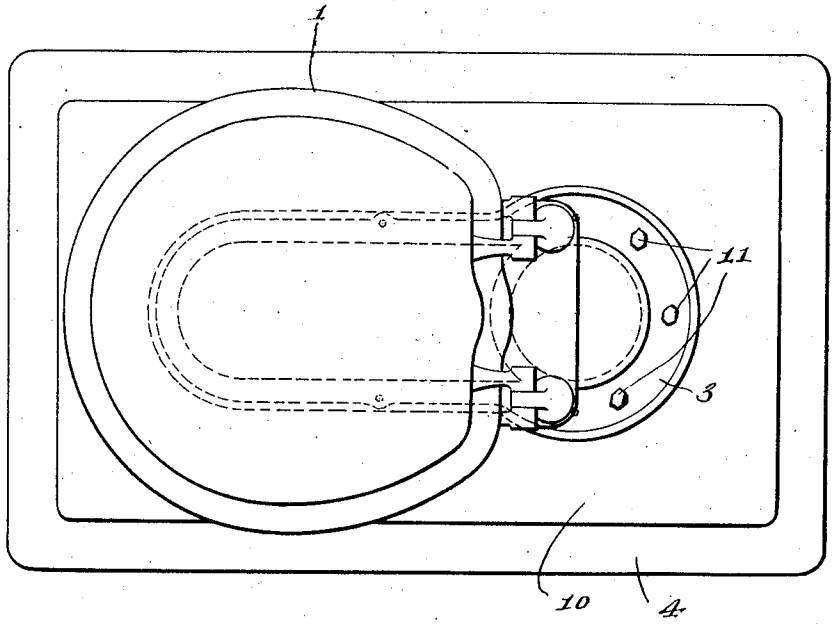


Fig. 4.

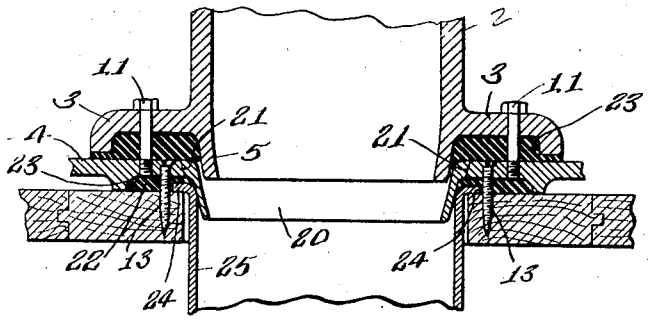
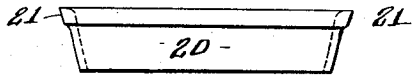


Fig. 5.



INVENTOR

Frank W. Auer.

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2 SHEETS—SHEET 2.

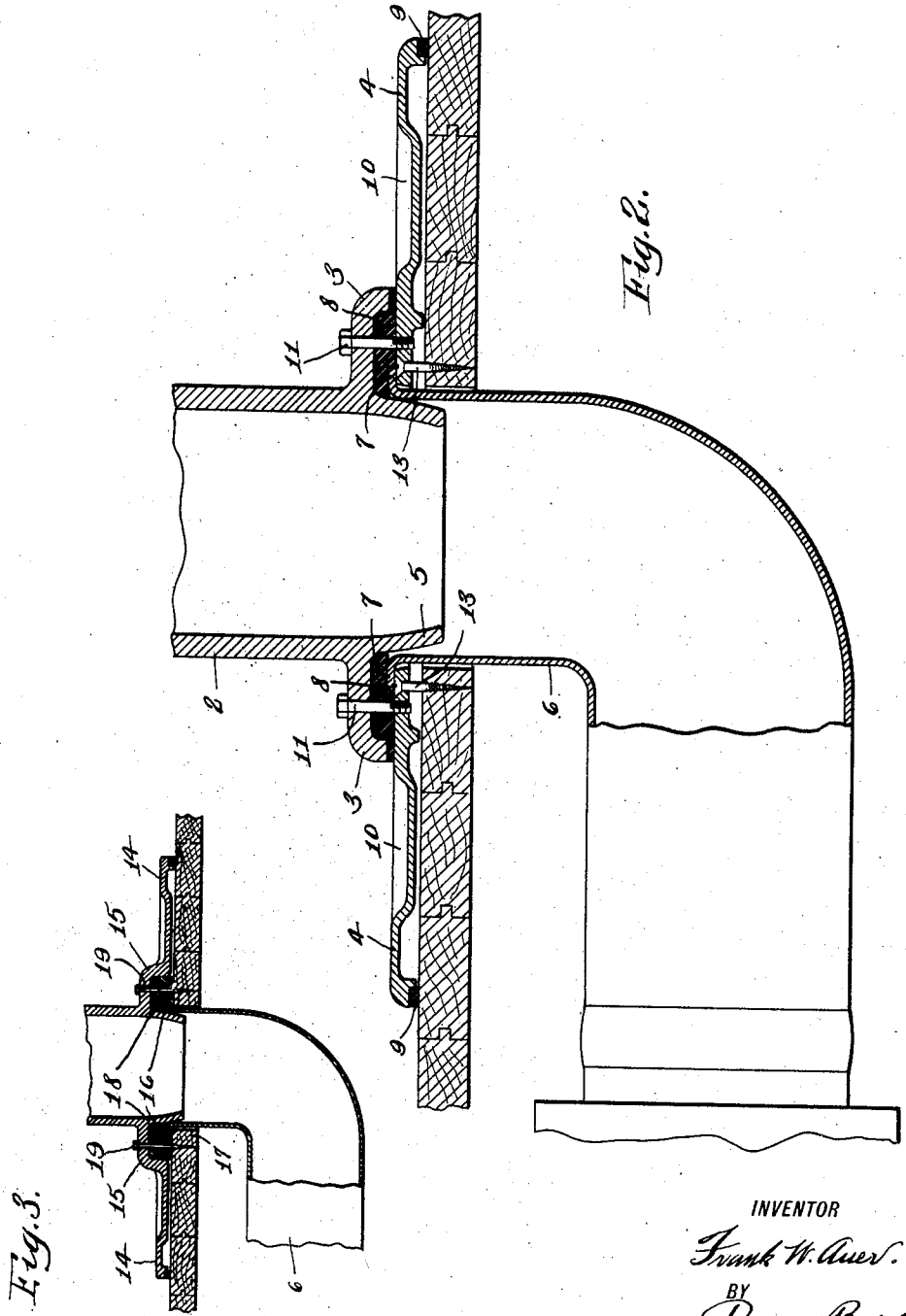

Fig. 2.

Fig. 3.

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WATER-CLOSET CONSTRUCTION.

1,333,368. Specification of Letters Patent. Patented Mar. 9, 1920.

Application filed April 6, 1917. Serial No. 160,116.

To all whom it may concern:

Be it known that I, FRANK W. AUER, a citizen of the United States, and a resident of Syracuse, in the county of Onondaga and State of New York, have invented a certain new and useful Water-Closet Construction, of which the following is a specification.

This invention relates to water closet bowls and has for its object a particularly simple and efficient construction for mounting the bowl on the floor, and for connecting its discharge pipe to the branch pipe leading to the soil pipe; and the invention consists in the combinations and constructions hereinafter set forth and claimed.

In describing this invention, reference is had to the accompanying drawings in which like characters designate corresponding parts in all the views.

Figure 1 is a plan view of a closet embodying my invention.

Fig. 2 is an enlarged sectional view through the lower portion of a closet embodying one form of my invention, the contiguous portion of the branch of the soil pipe and the floor being also shown.

Fig. 3 is a view similar to Fig. 4 of another embodiment of my invention.

Fig. 4 is a view similar to Figs. 2 and 3 of a third embodiment of my invention.

Fig. 5 is a detail view of the detachable nipple.

This water closet construction comprises generally a bowl having a discharge pipe, an external base flange, a floor plate on which the base flange is supported, and a nipple at the lower end of the discharge pipe extending below the plane of the floor plate, and a soil pipe branch having its upper end flanged and encircling the nipple and joined to the floor plate.

1 designates the closet bowl having a discharge pipe 2, an external recessed base flange 3, and a floor plate 4 supporting the flange 3.

5 is the nipple at the lower end of the discharge pipe which nipple extends below the plane of the floor plate 4.

6 is the laterally extending branch of the soil pipe having its upper end encireling the nipple 5 and provided with an outwardly extending annular flange 7. The pipe 6 is for convenience called herein a "soil pipe branch". In the construction shown in Figs. 2 and 4, the base flange 3 and floor plate 4 are separable and the inner margin of the floor plate extends under the recessed base plate 3, and the flange of the soil pipe branch overlies the inner margin of the floor plate 4 within the recess of the base flange 3, said soil pipe branch extending across the inner edge face of the floor plate.

The base flange is usually recessed to receive a packing 8 extending around the joint formed by said plate, the base flange and the upper end of the soil pipe branch and also around the entire base of the closet. A packing 9 is also located in the groove or rabbet at the outer edge of the floor plate to prevent water from entering or backing up under the floor plate. The upper face of the floor plate is also formed with a depression 10 for holding any spilled water and preventing it from running on the floor.

In the construction shown in Figs. 2 and 4, the base flange is secured to the floor plate by means of bolts 11 extending vertically through the base flange 3, the packing 8 and the inner margin of the floor plate; and the floor plate is secured at its inner margin to the floor 12 by screws 13.

In Fig. 3, the floor plate 14 and the recessed base flange 15 are shown as formed integral and the flange 16 at the upper end of the soil pipe branch is shown as overlying the margin of the floor 17 around the upper end of the soil pipe branch. Packing 18 is located in the recess of the base flange 15 and engages the margin of the floor around the soil pipe branch opening and the flange 16 of the soil pipe branch. In this construction, the fastening screws 19 extend through the base flange 15, the packing 18 and into the floor.

The constructions shown in Figs. 2 and 3 are designed particularly for new installations, while that shown in Fig. 4 is for use in connection with repair jobs and to be adapted to the present forms of closets.

In the construction shown in Fig. 4, the base flange and floor plate are practically the same as that shown in Fig. 2, but the nipple 5 extends into a detachable nipple 20 which extends at its lower end into the upper end of the soil pipe branch and meets at its upper end, the inner edge of the floor plate, the meeting edges of the nipple 20 and the floor plate being beveled as shown at 21 so that this nipple 20 is supported at the edge of the floor plate. Packing 22 is interposed between the inner margin of the

floor plate and the floor, the floor plate being recessed at 23 for this purpose. The flange 24 at the upper end of the soil pipe branch 25 overlies the floor, as in Fig. 3.

This water closet construction is particularly advantageous in that the water is prevented from following up or backing up under the closet bowl, at the base flange of the bowl as in the constructions now in general use.

What I claim is:

1. In a water closet construction, the combination of a bowl having a base flange, a floor plate upon which the base flange is supported, the floor plate extending laterally around the base flange, and a discharge pipe having a nipple extending below the floor plate, a soil pipe branch, and a joint between the floor plate, the base flange and the soil pipe branch, the floor plate having means at its outer margin for spacing the same from the floor comprising a packing around the outer edge of the plate, substantially as and for the purpose described.

2. In a water closet construction, the combination of a bowl having a discharge pipe, and a floor plate at the base of the bowl and extending laterally around the base of the bowl, the discharge pipe having a nipple at its lower end extending below the plane of the floor plate, a soil pipe branch, a packing at the outer edge of the plate, and a packing between the nipple, the floor plate, and the soil pipe branch, substantially as and for the purpose specified.

3. In a water closet construction, the combination of a bowl having a discharge pipe, a base and a laterally extending floor plate surrounding the base and extending laterally around the base, the discharge pipe having a nipple at its lower end extending below the plane of the floor plate, a packing surrounding the nipple and a soil pipe branch having a flanged upper end surrounding said nipple and coacting with the packing around the nipple, the floor plate having means around its outer margin for spacing the floor plate away from the floor and a packing associated with said spacing means, substantially as and for the purpose specified.

4. In a water closet construction, the combination of a bowl having a discharge pipe, an outwardly extending recessed base flange, and a floor plate extending laterally around the base flange and having its margin extending under the base flange and engaging a lower edge thereof, packing in the recess between the base flange and the floor plate, fastening means extending through the base flange, the packing and the floor plate, the discharge pipe having a nipple extending below the plane of the floor plate, a soil pipe branch having a flanged upper end inclosing the nipple, and a packing at the outer edge of the floor plate, substantially as and for the purpose described.

5. In a water closet construction, the combination of a bowl having a discharge pipe, a base flange, and a floor plate, the discharge pipe having a nipple at its lower end, a second nipple below the first nipple and surrounding the lower end of the same and meeting the floor plate, a soil pipe branch having a flanged upper end encircling the last mentioned nipple, the flange of said branch extending below the margin of the floor plate, and means for securing the base flange to the floor plate, substantially as and for the purpose described.

6. In a water closet construction, the combination of a bowl having a discharge pipe, a base flange, and a floor plate extending under the base flange, the discharge pipe having a nipple at its lower end, a second nipple below the first nipple and surrounding the lower end of the same and meeting the floor plate, a soil branch having a flanged upper end and encircling the last mentioned nipple, the flange of said branch extending around the first mentioned nipple, and packing between the inner margin of the floor plate and the second mentioned nipple and overlying said flanged upper end of the soil pipe branch, and means for securing the base flange to the floor plate, substantially as and for the purpose specified.

In testimony whereof, I have hereunto signed, my name at Syracuse, in the county of Onondaga, and State of New York, this 29th day of January, 1917.

FRANK W. AUER.