

W. E. HINSDALE,
SANITARY FIXTURE,
APPLICATION FILED DEC. 27, 1918.

1,335,056.

Patented Mar. 30, 1920.
2 SHEETS—SHEET 1.

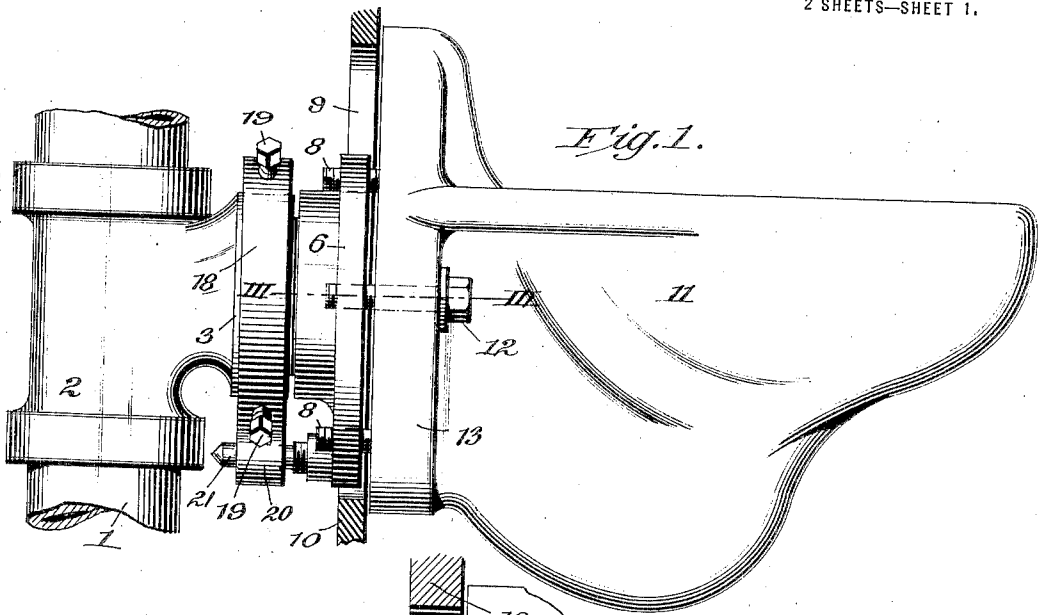


Fig. 1.

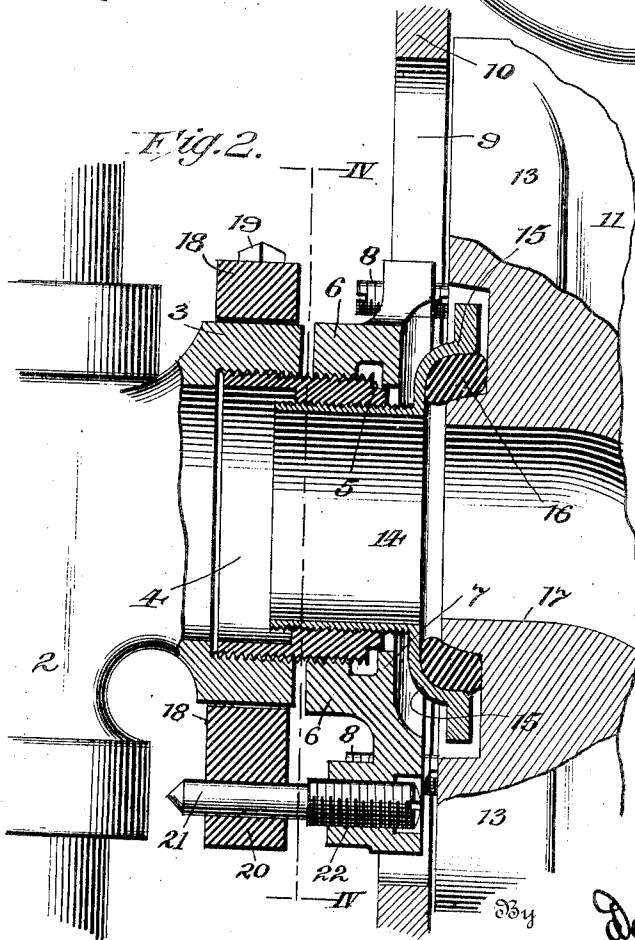


Fig. 2.

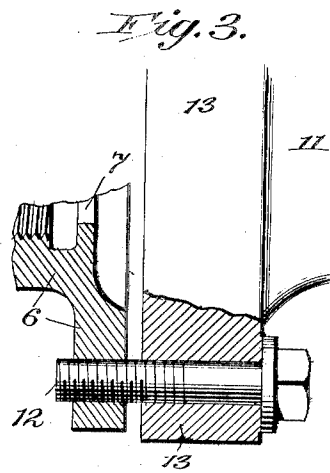


Fig. 3.

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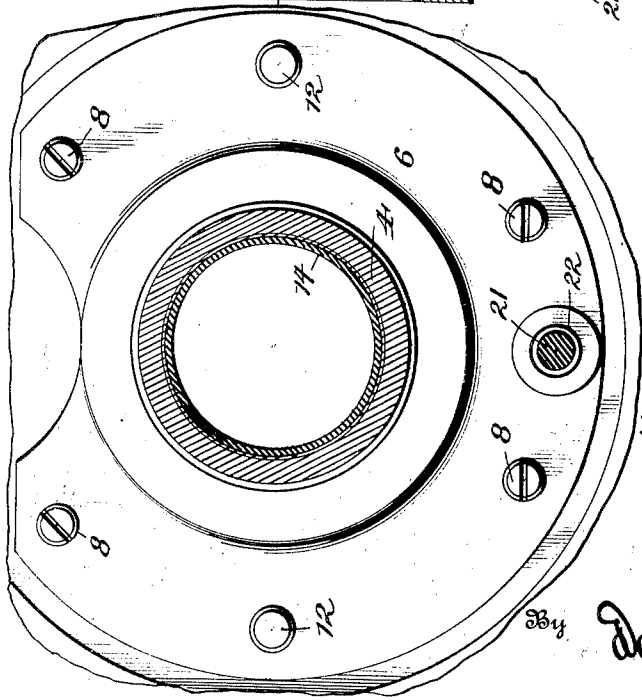
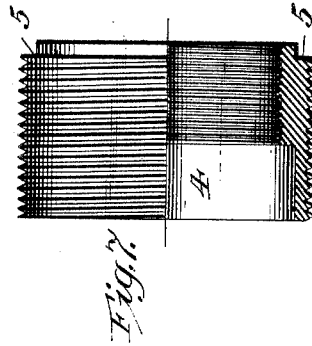
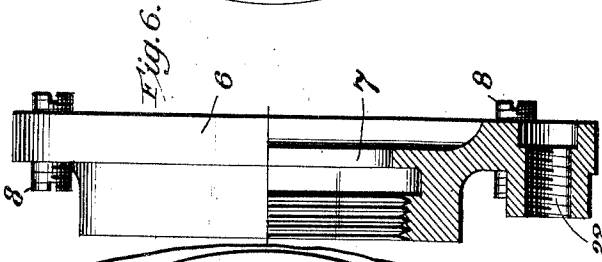
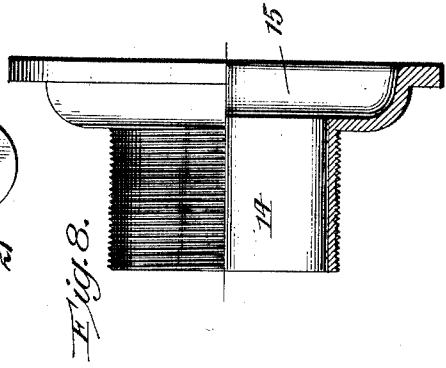
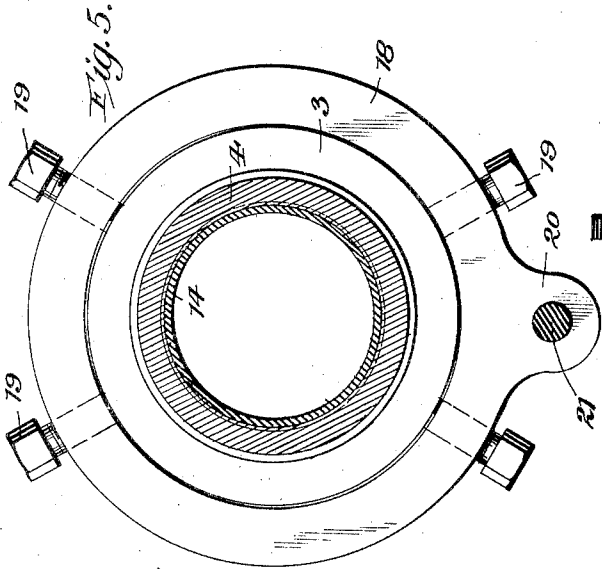
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Attorneys

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UNITED STATES PATENT OFFICE.

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SANITARY FIXTURE.

1,335,056.

Specification of Letters Patent. Patented Mar. 30, 1920.

Application filed December 27, 1918. Serial No. 268,452.

To all whom it may concern:

Be it known that I, WINFIELD E. HINSDALE, a citizen of the United States, residing at Trenton, in the county of Mercer and State of New Jersey, have invented certain new and useful Improvements in Sanitary Fixtures, of which the following is a specification.

My present invention pertains to sanitary fixtures and has to do more particularly with an improved means for attaching and supporting the same directly from the usual soil pipe.

The invention is shown as applied to a water closet bowl, known as the bracket or wall type wherein there is an absence of any connection with the floor and likewise with the wall or partition adjacent to which the closet is placed. It is to be understood, however, that while I have illustrated the invention in connection with a closet bowl, the structure is applicable to other fixtures such, for instance, as basins, fountains, slop sinks, and the like.

I am aware that bracket or wall closets have heretofore been devised and used, and the main object of the present invention is to provide an improved construction by which the closet may be readily positioned and adjusted and in which there is no connection or contact whatsoever between the closet and its fittings with the wall or partition, the arrangement being such that elongation or shortening of the soil pipe incident to temperature changes will not carry any of the parts into contact with the wall opening.

A further object of the invention is to provide a structure which adapts itself entirely to the so-called "finish work" of the plumber as contradistinguished from the "roughing in" operations. The structure is so universally adjustable as to make nicety of fitting unnecessary, the adjustability, moreover, allowing the proper installation of the fixture notwithstanding shifting in wall lines which frequently occur in the course of construction of a building, such, for instance, as is brought about in "squaring up" a room.

All that is necessary to the installation of the present fixture is that an opening of sufficient size shall be left in the wall in line with the lateral opening of the soil pipe, through which opening all connections and

adjustments may be readily made when all other work is done.

With these and other advantages in view, as will hereinafter appear, reference is had to the annexed drawings, wherein,—

Figure 1 is a side elevation of the closet, the soil pipe and the intermediate supporting attachment;

Fig. 2 a vertical sectional view on a somewhat enlarged scale;

Fig. 3 a detail horizontal sectional view on the line III—III of Fig. 1;

Fig. 4 a transverse vertical sectional view on the line IV—IV of Fig. 2, looking toward the bowl;

Fig. 5 a like view on the same line of section but looking in the opposite direction;

Fig. 6 a sectional elevation of the carrier or supporting plate;

Fig. 7 a like view of the connecting nipple; and

Fig. 8 a similar view of the flanged fitting employed to effect compression of the packing gasket.

In said drawings, 1 denotes the usual soil pipe provided with a fitting 2 having a laterally extending hub or mouth piece 3 which is interiorly threaded. Screwed into the hub is a nipple 4, threaded externally and provided at its forward end with a shoulder 5. The forward or outer end of the nipple body is made by preference slightly thicker than the inner end and such thickened portion is provided interiorly with a long running fine thread, as best shown in Fig. 7. A carrier plate 6, shown in detail in Fig. 6, is adapted to be screwed upon the outer end of the nipple, said plate having an inwardly projecting annular flange 7 formed inwardly of the hub thereof, adapted to contact shoulder 5, for a purpose which will presently appear. The body of said plate carries a plurality of contact jacks 8 adjustably threaded into the body, each of said jacks being preferably provided with a cross slot in each end to facilitate adjustment. The plate when the parts are in their assembled position occupies a position within an opening 9 formed in the wall or partition denoted by 10 but entirely free from any contact with the wall of said opening. The outer ends of said jack screws contact the adjacent face of the closet 11 (or other fixture) while draw bolts 12, Figs. 1, 3 and 4, pass through the flange 13 of the closet and

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take into the body of the carrier plate 6. A fitting, see Fig. 8, comprising an exteriorly threaded nozzle 14 and a bell shaped gasket flange 15 is employed in conjunction with a gasket 16 to effect a tight joint with the nozzle 17 of the closet. Said nozzle portion 14 is screwed into the interior of the nipple 4, see Fig. 2, and when the closet is drawn to place by the bolts 12 the gasket is compressed tightly between the closet nozzle and the inner rounding face of the bell shaped flange 15.

Surrounding the hub or mouth piece 3 is a ring 18, said ring being fixedly secured in place thereon by set screws 19 threaded through the ring and bearing against the hub. The ring, in the form illustrated, is provided at its lower portion, see Fig. 5, with a downward extension 20 having an opening therein for the reception of a lock pin 21, the opposite end of which is threaded and mounted in a threaded opening 22, see Figs. 2 and 6, formed in the carrier plate 6. Said pin serves when positioned to prevent the carrier plate from rotating and consequently prevents tipping of the closet which is rigidly affixed to the plate. As above noted the soil pipe 1 and the fitting 2 are placed in position during the "roughing in" work, and an opening 9 is left in the wall or partition 10. The various fittings or attachments may all be placed in position through the opening and the closet thereafter finally secured in place.

In making up or installing the carrier device, as above set forth, the workman will first secure the ring 18 in place on the hub 3 by the set screws 19 with the perforate extension 20 at the bottom and in true vertical position. He will then screw the nipple 4 into the carrier plate until the shoulder 5 abuts the flange 7 and insert the draw bolts 12 in the openings therefor in the carrier plate or flange 6. The nipple is then made up in the hub or waste fitting inlet 3 by bringing the same into place by rotating the carrier plate until more than hand pressure is needed when the workman will position a bar crosswise of the plate and between the outwardly projecting draw bolts and rotate the plate and nipple as far as possible, insuring a tight fit of the nipple in the hub. Then by reversing the motion, the carrier plate will be turned outwardly on the nipple until the front face of the plate comes nearly into alinement with the face of the wall 10. To prevent changing of the adjustment of the plate and to lock the same in permanent position the workman will now screw the lock pin 21 to place, the pin passing through the opening in the extension 20, thus securely holding the plate in place, the plate in effect being locked to the piping system through the pin and ring 18. The draw bolts 12 are then

removed and the closet held up to place to ascertain that the jack screws 8 have a fair bearing against the closet flange 13, and that said flange stands free of the face of the wall, the screws being turned in or out as may be required. The workman will then insert the nozzle 14 of the gasket flange into the nipple 4 screwing the same in to such an extent only as will insure a compression of the gasket 16 when the closet is locked in position through the placement and turning up of the draw bolts 12. The ring 18 has no function in supporting the closet but acts to prevent, through the medium of pin 21, any rotative movement of the carrier plate and closet. Said pin is closely threaded with the carrier plate or flange and the unthreaded portion thereof makes a close fit in the opening formed in the extension 20. Thus it will be seen that the closet is now attached to the carrier plate and bears against the contact jacks 8, but not touching the wall, and is entirely supported by the piping system and the intermediate carrier,—the entire assembling being accomplished from in front of the wall. Moreover, unlike the earlier devices in the art requiring installation prior to the erection of walls or partitions, my device is brought to the work at the time of the actual installation of the closet and all put in place from the face of the wall. The nipple 4 can be permanently fixed in the hub 3, the lock ring 18 fixed on the hub, the carrier plate adjusted to proper relation with the wall face, the lock pin 21 inserted through the carrier face into the opening in the extension 20 of the lock ring, the adjustable gasket flange 15 adjusted to proper relation with the closet outlet or nozzle, and the draw bolts 12 inserted through the closet flange 13 and into the carrier plate, and the entire apparatus locked in its final position; all without reference to the wall or wall finish and leaving nothing then exposed to view other than the closet bowl and its attached members, such as the seat, &c.

What is claimed is:—

1. In combination with a soil pipe; a closet bowl; a support for the closet adjustable toward and from the pipe whereby the closet may be brought to proper alinement with the adjacent wall face; means for holding said support against rotation; and means adjustable independently of the closet support toward and from the soil pipe for effecting a tight joint between the bowl and pipe.

2. In combination with a soil pipe having a lateral opening in line with an opening in an adjacent wall; a closet bowl; a combined closet support and connection secured in said lateral opening and adjustable toward and from the same and projecting forwardly therefrom into the opening in the

1 wall; means interposed between said support and pipe for preventing rotation of the support and the closet bowl carried thereby; and means adjustable independently of the closet support toward and from the soil pipe for effecting a tight joint between the bowl and pipe.

3. In combination with a soil pipe having a lateral opening in line with an opening in an adjacent wall; a closet bowl; a combined closet support and connection secured in said lateral opening and adjustable toward and from said soil pipe; means adjustable independently of the closet support toward and from the soil pipe for effecting a tight joint between the bowl and pipe, and means connected to the soil pipe for preventing rotative movement of the support and the attached closet bowl.

4. In combination with a soil pipe having a lateral opening in line with an opening in an adjacent wall; a closet bowl; a combined closet support and connection secured in said lateral opening and adjustable toward and from the soil pipe; and adjustable means carried by said support bearing against the bowl for alining the bowl with reference to the face of the wall.

5. In combination with a soil pipe having a lateral opening in line with an opening in an adjacent wall; a closet bowl; a combined closet support and connection secured in said lateral opening and adjustable toward and from the soil pipe; adjustable means carried by said support bearing against the bowl for alining the bowl with reference to the face of the wall; and means interposed between the soil pipe and the closet support for preventing rotative movement of the latter and the attached bowl.

6. In combination with a soil pipe fitting having a lateral opening; a closet bowl; a carrier plate attached to the fitting and adjustable toward and from the pipe in line with the opening; means for securing the bowl to the plate; adjustable bearing members supported by said plate and contacting the bowl; and means for locking the plate and consequently the bowl, against rotative movement.

7. In combination with a soil pipe having a lateral opening; a nipple extending from said opening, said nipple being exteriorly and internally threaded; a carrier plate mounted on said nipple; a closet bowl; a plurality of adjustable jack screws mounted in the carrier and bearing against the closet; means for securing the bowl to the plate; a nozzle threaded into the nipple; a bell-shaped gasket flange carried at the outer end of the nozzle; and a gasket interposed between the flange and the closet.

8. In combination with a soil pipe having a lateral opening, the inner face whereof is threaded; an interiorly and externally

threaded nipple mounted in said opening; a carrier plate screwed upon the nipple and adjustable toward and from the pipe; a threaded nozzle having a bell-shaped gasket flange mounted in the nipple; a plurality of adjustable contact jacks mounted in the plate; a closet bowl with which said jacks contact; means for securing the bowl to the plate; and a gasket interposed between the bowl and the gasket flange.

9. In combination with a soil pipe having a lateral opening, the inner face whereof is threaded; an interiorly and externally threaded nipple mounted in said opening; a carrier plate screwed upon the nipple and adjustable toward and from the pipe; a threaded nozzle having a bell-shaped gasket flange mounted in the nipple; a plurality of adjustable contact jacks mounted in the plate; a closet bowl with which said jacks contact; means for securing the bowl to the plate; a gasket interposed between the bowl and the gasket flange; a ring shaped member secured around the hub of the soil pipe in which the lateral opening is formed; and a connection between said ring and plate to prevent rotative movement of the latter and the attached closet.

10. In combination with a soil pipe having a laterally extending hub with an opening therein; a nipple threaded into said opening, said nipple having a shoulder adjacent its outer end; a supporting plate threaded on said nipple; a flange extending inwardly from said plate and adapted to contact the shoulder in the act of screwing the nipple to place; a closet bowl; and means for securing the bowl to the plate.

11. In combination with a soil pipe having a laterally extending hub with an opening therein; a nipple threaded into said opening, said nipple having a shoulder adjacent its outer end; a supporting plate threaded on said nipple; a flange extending inwardly from said plate and adapted to contact the shoulder in the act of screwing the nipple to place; a closet bowl; means carried by the plate for alining the bowl with reference to the plate; and means for securing the bowl to the plate.

12. In combination with a soil pipe; a carrier plate supported therefrom; a closet bowl having a nozzle; adjustable means carried by the plate contacting the bowl and serving to determine the position thereof with reference to the vertical; means for securing the bowl to the plate in contact with the adjustable means; a gasket surrounding the nozzle of the closet; and a bell shaped bearing element for said gasket.

13. In combination with a soil pipe having a laterally extending internally threaded hub; an internally and externally threaded nipple screwed into said hub; a carrier plate screwed upon the nipple and adjustable to-

ward and from the pipe; a plurality of bearing or contact jacks carried by the plate; a closet bowl having a nozzle; means for securing the bowl to said plate; a bell-shaped gasket flange; a nozzle extending rearwardly therefrom and having a threaded connection with the interior of the nipple; and a gasket interposed between said flange and the nozzle of the closet.

14. In combination with a soil pipe having a laterally extending internally threaded hub; an internally and externally threaded nipple screwed into said hub; a carrier plate screwed upon the nipple and adjustable toward and from the pipe; a plurality of bearing or contact jacks carried by the plate; a closet bowl having a nozzle; means for securing the bowl to said plate; a bell-shaped gasket flange; a nozzle extending rearwardly therefrom and having a threaded connection with the interior of the nipple; a gasket interposed between said flange and the nozzle of the closet; a ring shaped member surrounding the hub of the soil pipe; means for clamping said ring to the hub, said ring having a laterally extending opening formed therein; and a pin threaded in the carrier plate, the outer end of the pin being plain and extending into the opening in the ring.

In testimony whereof I have signed my name to this specification.

WINFIELD E. HINSDALE.