Aug. 30, 1966 C. C. POPE 3,268,919

FITTING AND TILING FRAME FOR WALL MOUNTED WALL DISCHARGE WATER CLOSET

Filed Nov. 18, 1963 2 Sheets-Sheet 1

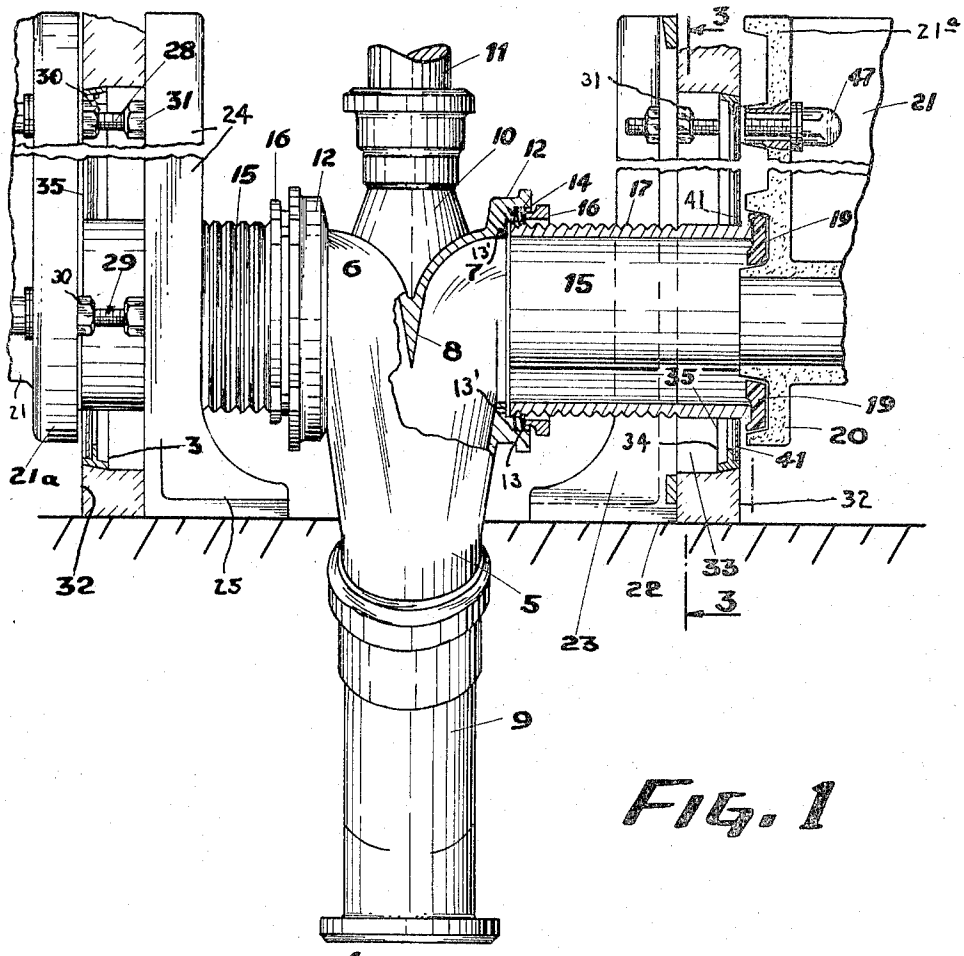


FIG. 1

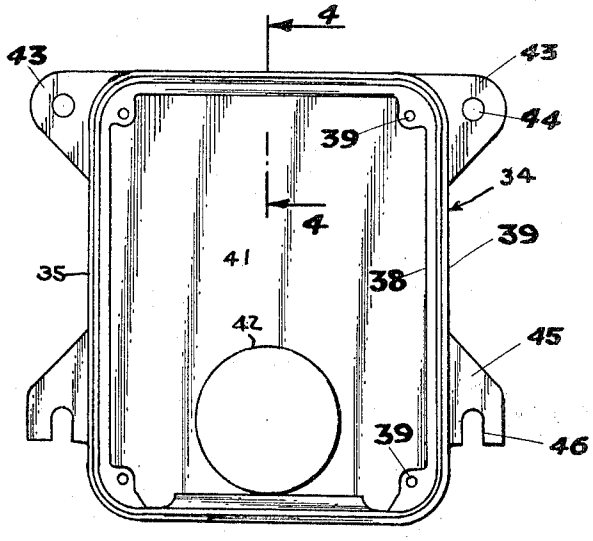


FIG. 2

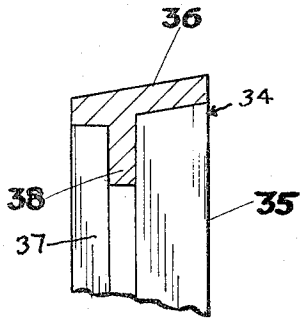


FIG. 4

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FITTING AND TILING FRAME FOR WALL MOUNTED WALL DISCHARGE WATER CLOSET

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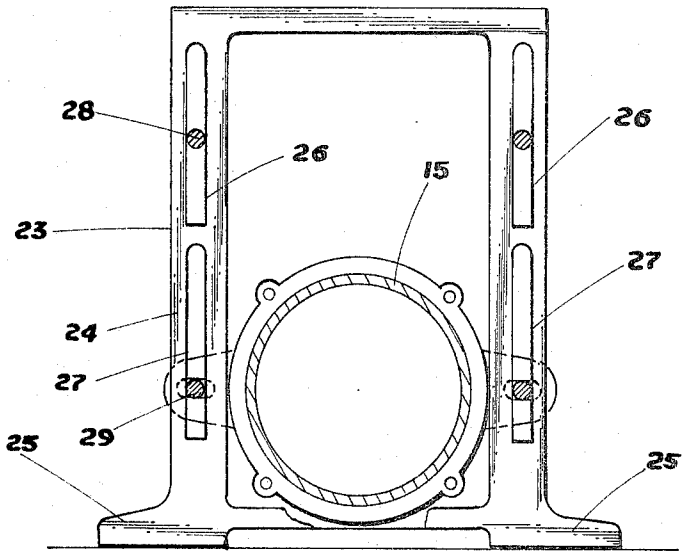


FIG. 3

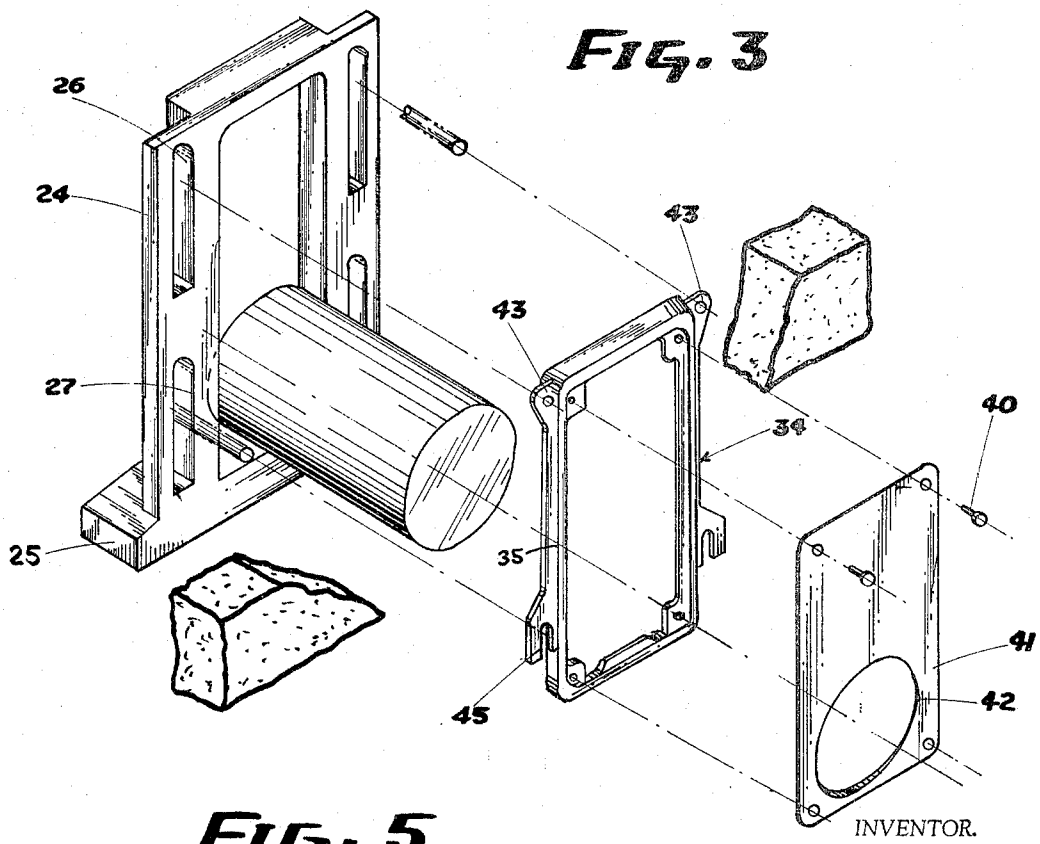


FIG. 5

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United States Patent Office 3,268,919 Patented August 30, 1966

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FITTING AND TILING FRAME FOR WALL MOUNTED WALL DISCHARGE WATER CLOSET

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Filed Nov. 18, 1963, Ser. No. 324,439
7 Claims. (Cl. 4—252)

This invention relates to plumbing fixtures of the type that is installed within a wall area and with the fitting establishing a coupling or connection between a toilet bowl or commode and with the fittings including a sleeve that extends through a wall opening for attachment to the toilet bowl or commode.

The invention has for its prime purpose to provide a tile guard that is fitted into the wall opening to form a frame against which the exterior tile of the wall is engaged to thereby form an opening whereby a mechanic may have access to the fitting through the opening without cutting away or otherwise disturbing the wall tile and with the tile guard being supported upon a floor bracket, to which the toilet bowl or commode is fixed.

The tile guard also embodies a generally square or rectangular frame that is provided with apertured wings at its upper portion and slotted brackets at its lower portion to be suspended against movement upon the conventional bolts of the floor frame.

The tile guard is recessed at its forward side for the reception of a closure plate that is screwed or otherwise mounted therein and with the closure plate being provided with a cylindrical opening that has relatively close fitting engagement over the fitting sleeve and whereby the opening of the tile guard is covered and sealed to prevent the entrance of vermin into the area of the fitting.

A further important object of the tile guard is to provide a framed wall opening to which the wall tile is formed and the opening of the tile guard permits adequate room for access to the fitting for any necessary service and repairs with respect to the fitting without having to chip out a finished wall in order to make the necessary repairs.

The tile guard is applicable to encompass bends, T's, or TY's either in single or doubles and with the fittings possibly being vented for multi-story jobs or normally vented for single story jobs where stack serves as a vent.

More particularly the invention contemplates the provision of a pipe fitting having an inlet provided with a seat for receiving one end of a connecting sleeve; with the sleeve or sleeves having one of its ends maintained against such seat and surrounded by a clamping ring and seal, the opposite end of the sleeve bearing against a packing in a seat provided on the flange of a toilet bowl.

With these and other objects to be hereinafter set forth in view, I have devised the arrangement of parts to which is described and more particularly pointed out in the claims appended hereto.

In the accompanying drawings, wherein an illustrative embodiment of the invention is disclosed,

FIGURE 1 is a view partly in section and partly in elevation of a coupling or connection means for toilets made in accordance with the present invention,

FIGURE 2 is a rear elevation of a tile guard for application to a wall opening,

FIGURE 3 is a vertical section taken on line 3—3 of FIGURE 1 illustrating a mounting bracket for supporting the toilet bowl and also for supporting the tile guard,

FIGURE 4 is a fragmentary section taken on line 4—4 of FIGURE 2,

FIGURE 5 is an exploded perspective view illustrating a floor mounting bracket, a sleeve for connection

to the toilet bowl, the tile guard and the closure cover for the tile guard.

In the embodiment of the invention shown in FIGURE 1, there has been illustrated a dual coupling although it will be apparent that the coupling may also be a single coupling where the coupling is mounted in a wall area to extend beyond one wall only. The coupling embodies a pipe 5 that has two branches respectively indicated at 6 and 7. A baffle 8 is positioned between the two sections 6 and 7 to direct effluent to the pipe 5 and to a soil pipe 9 and the pipe 5 is also vented by a branch line 10 to a stack 11. Each of the sections 6 and 7 are provided with hubs 12, that are recessed at 13, to receive suitable packing 14, for a purpose to be presently described. The hub is further recessed at 13' to receive the end of a sleeve 15 to be described.

A sleeve 15 is adapted to extend into the recesses 13' and a packing gland 16 compresses the packing 14 against the adjacent side wall of the sleeve. The sleeve 15 is of conventional construction, being grooved at 17 whereby to permit the sleeve to be cut away for a required length and any ragged or rough edge of the sleeve after cutting will be adequately sealed by the packing 14. The opposite end of the sleeve bears against a yieldable gasket 19 that is fitted into the hub 20 of the toilet bowl, indicated at 21.

Fixed to the floor 22 upon opposite sides of the fitting are mounting brackets 23. The mounting brackets 23 are provided with leg portions 24 and a base 25 that is fixed to the floor in any well known manner. The legs 24 are provided with upper and lower slots 26 and 27, for the passage of bolts 28 and 29. The bolts 28 and 29, see particularly FIGURE 1 extend through the wall opening and through a flange 21*a* of the toilet bowl 21. Limit nuts 30 and lock nuts 31, carried by the bolts 28 and 29 serve to adjust the toilet bowl with respect to its engagement with the wall area indicated at 32. The toilet bowl mounting is for a wall mounted commode. While the fitting has been illustrated as being a T-fitting, it will be clearly apparent that the invention may also be applied to bends, TY's, all in single and/or doubles and may also be vented for multi-story jobs or normally vented for single story jobs where the stacks serves as a vent.

Mounted upon the bolts 28 and 29 are tile guards, shown particularly in FIGURES 2, 4 and 5. The tile guards are indicated as a whole by the numeral 34 and embody frames 35 that have their marginal edges beveled as indicated at 36. The frames 35 are recessed upon their forward sides as indicated at 37, forming an annular rib or seat 38. The seat 38 is provided with threaded apertures 39, receiving screws 40 that constitute the mounting means for a closure plate 41. The plate 41 is provided with a cylindrical opening 42, corresponding closely to the diameter of the sleeve 15 and through which the sleeve 15 extends prior to the construction of the wall 32 and prior to the mounting of the toilet bowl 21. The frames 34 at their upper ends are provided with lips 43 that are apertured at 44, for engagement over the upper bolts 28. Adjacent to the lower end of the frame, there are provided wings 45, that are slotted at their lower ends as indicated at 46 for engagement over the lower bolts 29 and whereby the tiling frames are fixedly mounted to be flush with the face of the wall to be constructed and constitutes a guide for the tiling that is installed upon the face of the wall. The tiling frames thus define a rigid wall opening of sufficient size as to permit access to the fitting for any necessary service and repairs that may be necessary after the installation has been made. It being understood of course that the commodes 21 are not connected upon the bolts 28 and 29 until such time

as the cover plates **41** have been fixed into the tiling frames.

In the use of the device, the fitting **5** having been installed and with the sleeves **15** cut to a required length and seated within the seats **13'** and with the brackets **23** being also mounted within the wall opening, the bolts **28** and **29** are adjusted and locked with respect to the brackets and with their free ends extending through the wall area. The tiling guards are installed to define a wall opening and mounted in supporting position upon the bolts **28** and **29** where they are locked in such position by the lock nuts **30**. The cover plates **41** are then fixed into the recess **37** of the tiling guard and securely fastened by the screws **40**, it being understood that the cover plate fits over the extended end of the sleeve **15**. After the tiling guards are mounted, the wall **31** is constructed and tiled and with the tile area being fitted around the tile guards **34**. After the cover plate has been installed, any suitable caulking material may be forced between the sleeve **15** and the opening **42**, securely sealing the exterior of the wall against the entry of vermin to the interior of the wall. The commode **21** is then mounted in the usual manner with the cap nuts **47** compressing the gasket **19** against the extended end of the sleeve **15**.

It will be apparent from the foregoing that a very novel means has been provided to form an access opening through the wall to permit repairs or the like upon the fixture. The tiling guard forms a very desirable frame against which the tile may be formed and the cover plate **41** securely closes the opening against entry of insects or the like that might breed in the wall area. The tiling frame establishes a guide for the tile man and leaves the finished job securely sealed and also provides adequate working room for the plumber to make final adjustments in the area of the fitting within the wall and avoids any necessity for chopping away or chipping the tile to obtain access to the fitting. The basic features of the fitting are that a simple and effective means of adjustment to varying wall thickness is provided by cutting off an appropriate length of the inner end of the closet sleeve thereby leaving a smooth finished outer end for contact and seal with the back side of the commode. The ragged end of the cut area of the inner end of the sleeve protrudes into the recess **13'** designed into the fitting hub so that its ragged end has no contact with the seal ring which fits between the outside diameter of the sleeve and the inside diameter of the hub. While the tile guard is an ideal and desirable companion for the fitting line, it is not essential to connect the fitting installation and many installations have been made in the past and will be made in the future without it. Also, it is contemplated that the tile guard **34** may be used in connection with the fittings of other manufacturers.

It is to be understood that the invention is not limited to the precise construction shown, but that changes are contemplated as readily fall within the spirit of the invention as shall be determined by the scope of the subjoined claims.

I claim:

1. A mounting means for a toilet bowl comprising a soil pipe coupling having an entrance and provided with an annular seat, a toilet bowl having a flanged outlet, a sleeve having one end maintained against the seat, the opposite end of the sleeve seating with the flanged outlet of the toilet bowl, fixed means for supporting the toilet bowl, a tiling frame that encircles the sleeve and mounted in a wall opening and interposed behind the flanged outlet of the toilet bowl flush with the wall opening to constitute a tiling guard, the tiling frame being also supported upon the fixed means that supports the toilet bowl and a closure plate for the tiling frame, said tiling frame defining an opening for access to said coupling.

2. A mounting means for a toilet or commode comprising, a wall having a frame mounted therein and defining an opening through the wall and to also constitute a tile guard, a pipe coupling within the wall for connection to a waste pipe, said pipe coupling being provided with an inlet opening, a commode that is supported upon the wall and means within the wall for supporting the commode, the commode having a rear hub portion that receives a yieldable gasket, a sleeve having one end engaging the gasket and its opposite end engaging into the opening of the coupling, a gasket surrounding the end of the sleeve that engages into the opening of the coupling, and a compression ring for compressing the last named gasket into engagement with the adjacent end of the sleeve and a cover plate for detachable engagement with the frame and with the cover plate being provided with a cylindrical opening for receiving a forward end of the sleeve.

3. A mounting means for a toilet or commode comprising, a soil pipe coupling having an inlet hub portion that is circumferentially recessed, a commode that is supported upon the outer side of a wall area and with the commode having a rear hub portion that is provided with an annular recess, a sleeve that is seated at one end into the hub portion of the coupling and at its opposite end being seated against a gasket fitted within the recess of the commode hub, a gasket disposed within the hub of the coupling and a compression ring to compress the gasket against the adjacent end of the sleeve, a mounting bracket fixed within the wall and with the bracket carrying mounting bolts for supporting the commode, a tiling frame fitted within a wall opening to be supported upon the bolts, the tiling frame defining an opening through the wall for access to the fitting, the tiling frame adapted to receive a cover plate that is provided with an opening to embrace the sleeve and whereby to close the opening against the entry of vermin to the wall area.

4. The structure according to claim **3** wherein the tiling frame is formed generally rectangular and provided upon its forward side with a circumferential recess, the circumferential recess adapted to receive the cover plate to effectively close the opening of the frame and means carried by the tiling frame whereby to support the tiling frame by the bolts that extend from the bracket and means for detachably connecting the cover plate to the tiling frame.

5. A mounting means for a toilet bowl comprising, a coupling device that is mounted between a pair of spaced apart walls, the coupling device being of Y or other formations and having a pair of oppositely facing hubs, the coupling having a connection to a soil pipe and a connection to a vent stack, a pair of bracket devices that are fixed to a floor area between the wall sections, the bracket device having a base and a pair of parallel leg portions, the leg portions being slotted to receive mounting bolts, a commode for engagement with the outer side of each wall and with the bolts extending forwardly for engagement with a flange carried by the commode, the commode having a rear hub portion for receiving a gasket, a sleeve that extends from the gasket to a position within the hubs and compression rings for compressing the gaskets around the outer circumference of the sleeve and against the inner side of the hubs of the coupling, the wall sections being provided with openings for the passage of the sleeves and the bolts, a tiling frame fitted within the wall openings and with the tiling frames being supported upon the bolts, the tiling frames defining the opening through the walls whereby to have communication with the coupling and a closure plate for the tiling frame that is provided with an opening embracing the forward ends of the sleeves, the said coupling centrally thereof being provided with an inwardly extending baffle.

6. A tiling frame for use in a wall area to define an opening to a coupling within the area between the wall and that also forms a gauge for the placement of tile

upon the outer side of the wall, the tiling frame embodying a generally rectangular open frame that is recessed circumferentially upon its forward side to constitute a mounting recess for a cover plate, the cover plate being secured into the recess by screws that are threaded into extended corners of the recess, the cover plate having a cylindrical opening formed therein for the passage of a drain sleeve and with the drain sleeve being connected to a commode and to the coupling, means for sealing the drain sleeve in engagement with the commode and also sealing the drain tube in connection with the coupling.

7. The structure according to claim 6 wherein the tiling frame is provided with an inwardly extending rib that constitutes the bottom of the recess, the rib extending throughout the inner periphery of the frame, the outer marginal edge of the frame being beveled, the frame at its upper end being provided with outwardly extending wings that are apertured, the frame also adjacent its bottom being provided with wings that are upwardly slotted, the wings adapted to be disposed upon mounting bolts for the commode.

References Cited by the Examiner

UNITED STATES PATENTS

2,159,021	5/1939	Groeniger	4—252
2,702,391	2/1955	Schmid	4—252
2,752,612	7/1956	Svabek	4—252
2,901,754	9/1959	Manas	4—252
2,932,037	4/1960	Manas	4—252
3,129,437	4/1964	McClenahan	4—252

FOREIGN PATENTS

597,802	9/1959	Italy.

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