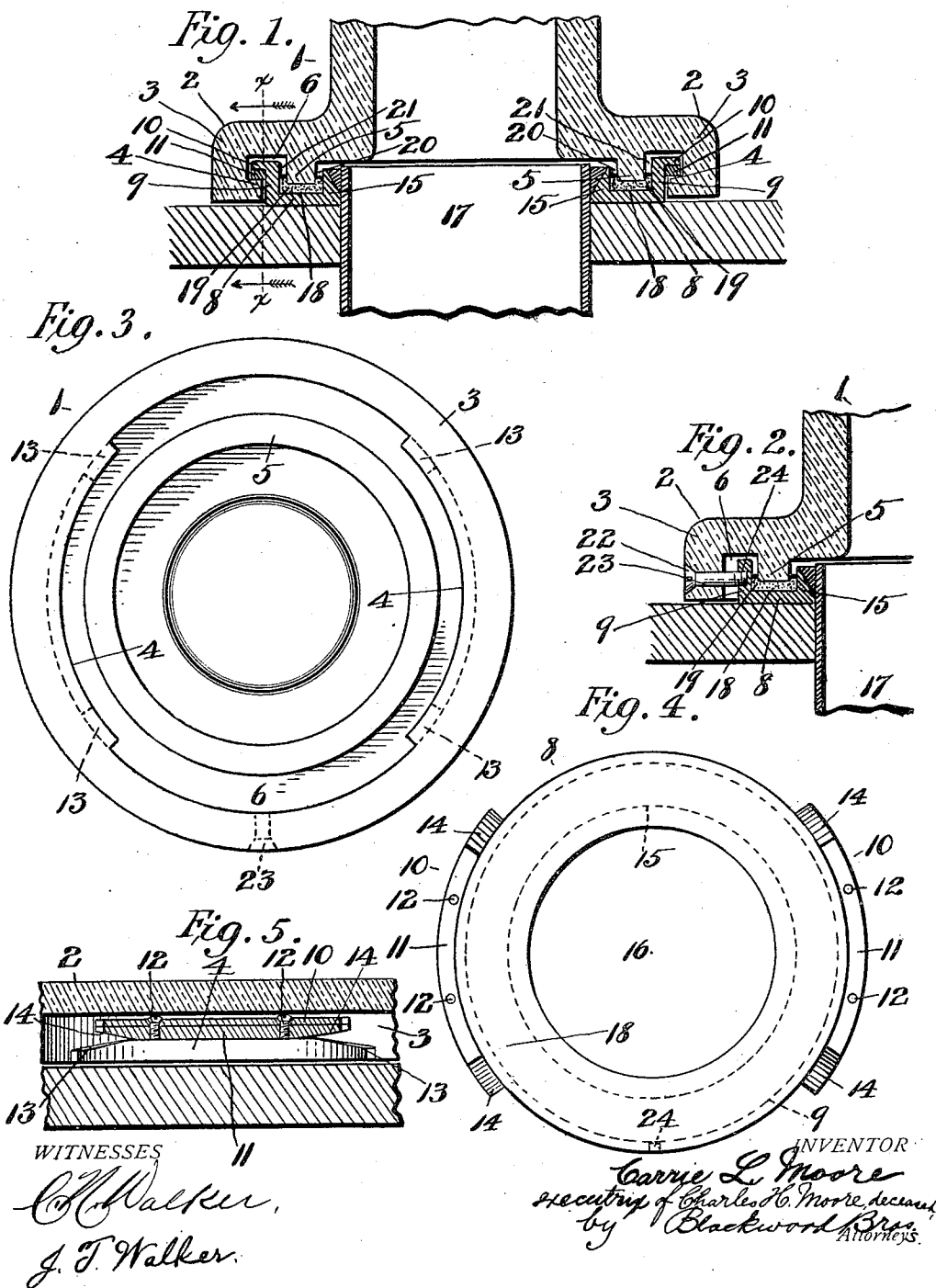


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 WATER CLOSET AND WATER CLOSET OUTLET CONNECTION.
 APPLICATION FILED DEC. 12, 1912.

1,060,570.

Patented Apr. 29, 1913.



UNITED STATES PATENT OFFICE.

CHARLES H. MOORE, DECEASED, BY CARRIE L. MOORE, ADMINISTRATRIX, OF NEW YORK, N. Y.

WATER-CLOSET AND WATER-CLOSET OUTLET CONNECTION.

1,060,570.

Specification of Letters Patent.

Patented Apr. 29, 1913.

Application filed December 12, 1912. Serial No. 736,277.

To all whom it may concern:

Be it known that I, CARRIE L. MOORE, resident of New York city, in the county of New York and State of New York, administratrix of the last will and testament of CHARLES H. MOORE, deceased, late a citizen of the United States, believe that he did invent certain new and useful Improvements in Water-Closets and Water-Closet Outlet Connections, of which the following is a specification.

This invention relates to improvements in water closets and water closet outlet connections.

It has for its object to provide a water closet and water closet outlet connection whereby the water closet can be easily and readily installed and a perfect gas tight joint formed between the water closet and soil pipe and whereby the closet can, with equal facility, be removed.

In the drawings: Figure 1 is a fragmentary vertical sectional view of the water closet and water closet outlet connection forming this invention, shown installed. Fig. 2, a fragmentary vertical sectional view through the rear of the water closet and water closet outlet connection forming this invention, shown installed. Fig. 3, a bottom plan view of the water closet, shown removed. Fig. 4, a bottom plan view of the floor plate, shown removed. Fig. 5, a vertical sectional view taken on the line $x-x$, Fig. 1.

Referring to the drawing illustrating this invention, in which like reference characters designate corresponding parts, 1 designates the water closet bowl the base 2 of which is provided on its outer periphery with a downwardly extending flange 3 having inwardly extending portions 4 preferably integral therewith and made smooth on their top surfaces and a ring 5 extending downwardly within the flange 3, the outer surface of the ring 5 and the inner surface of the flange 3 forming a groove 6.

8 designates the metal floor plate which is provided on its outer periphery with a flange 9 extending upwardly within the groove 6 and having outwardly extending lateral portions 10 projecting over the inwardly extending portions 4 of the flange 3 of the bowl. Wedges 11 are secured to the under surface of the projections 10 by means of screws 12, thus adapting them to be ad-

justed to render their engagement with the portion 4 of the closet less tight, if it is found to be too tight to allow the closet to be turned to the right position, adjusted to render their engagement with the portions 4 of the closet tighter if it be found to be too loose to make a tight joint or removed so that their under surface can be filed to give them the required thickness. The ends of the wedges 11 are tapered and the projections 10 are made sufficiently thin to give the necessary amount of spring quality to relieve the flange 3 of any excessive strain.

The ends of the portions 4 of the closet are beveled at 13 and the ends of the wedges 11 being beveled at 14 adapts them to be easily engageable with each other.

The metal floor plate 8 is provided with an inner flange 15 surrounding a central opening 16 therein and soldered to the upper end of the lead soil pipe 17 which extends into the opening 16. The flanges 9 and 15 of the metal floor plate form between them a receptacle 18 in which a gasket 19, containing grease, oil or other suitable liquid, is located and into which the ring 5 of the closet extends and compresses the gasket so as to force liquid therefrom sufficiently to submerge the lower part of the ring 5, thus forming a liquid seal against any inflow of sewer gas through the channel 20 formed between the ring 5 and the flange 15 and the channel 21 formed between the ring 5 and the flange 9.

The discharge limb of the closet is made to overhang the channel 20, the lead pipe 17 and the solder joint so that pointed articles in the discharging water of the closet cannot be forced into the space, above the solder joint and lead pipe, that leads to the channel 20. A bolt 22 extends through a hole 23 in the flange 3 of the closet, preferably at the rear of the closet, and its inner end is threaded and engages a threaded hole 24 in the flange 9 of the floor plate, thus providing means to prevent the closet from turning after installing.

To install the closet the floor plate 8 is placed on the upper end of the soil pipe 17 and its flange 15 is soldered thereto, the liquid filled gasket 19 is placed in the receptacle 18 of the floor plate and the bowl 1 and the floor plate 8 are then secured together by simultaneously causing the portions 4 of the bowl to be passed downwardly

through the spaces between the portions 10 and wedges 11 of the floor plate and the portions 10 and wedges 11 of the floor plate to be passed upwardly through the spaces between the portions 4 of the bowl, then turning the bowl so as to cause the wedges 11 of the floor plate to engage the portions 4 of the bowl and the ring 5 of the bowl to engage and compress the gasket 19 and force liquid therefrom sufficiently to submerge the lower part of the ring 5 and finally the bolt 22 is inserted through the hole 23 in the flange 3 of the closet and its inner threaded end is screwed into the threaded hole 24 in the flange 9 of the floor plate, thereby preventing the closet from turning.

The invention is not limited to the details of construction and arrangement as herein described and illustrated, as it is manifest that variations and modifications may be made in the features of construction and arrangement in the adaptation of the device to various conditions of use without departing from the spirit and scope of the invention and improvements, the right is therefore reserved to all such variations and modifications as properly fall within the scope of the invention and the terms of the following claims.

What is claimed:

1. In a connection between a water closet bowl and a soil pipe, a bowl having a downwardly extending flange provided with inwardly extending portions, a floor plate secured to the soil pipe and provided with a flange extending upwardly within the flange of the bowl and having outwardly extending portions projecting over the inwardly extending portions of the flange of the bowl and provided with adjustable wedges engaging the inwardly extending portions of the flange of the bowl, thereby firmly connecting said bowl and soil pipe together, substantially as described.

2. In a connection between a water closet bowl and a soil pipe, a bowl having a downwardly extending flange provided with inwardly extending portions, a floor plate secured to the soil pipe and provided with a flange extending upwardly within the flange of the bowl and having outwardly extending portions projecting over the inwardly extending portions of the flange of the bowl and provided with adjustable wedges engaging the inwardly extending portions of the flange of the bowl, thereby firmly connecting said bowl and soil pipe together and means forming a gas tight joint between said bowl and soil pipe, substantially as described.

3. In a connection between a water closet

bowl and a soil pipe, a bowl having a downwardly extending flange provided with inwardly extending portions, a floor plate secured to the soil pipe and provided with a flange extending upwardly within the flange of the bowl and having outwardly extending portions projecting over the inwardly extending portions of the flange of the bowl and provided with spring wedges engaging the inwardly extending portions of the flange of the bowl, thereby firmly connecting said bowl and soil pipe together, substantially as described.

4. In a connection between a water closet bowl and a soil pipe, a bowl having a downwardly extending flange provided with inwardly extending portions, a floor plate secured to the soil pipe and provided with a flange extending upwardly within the flange of the bowl and having outwardly extending portions projecting over the inwardly extending portions of the flange of the bowl and provided with spring wedges engaging the inwardly extending portions of the flange of the bowl, thereby firmly connecting said bowl and soil pipe together and means forming a gas tight joint between said bowl and soil pipe, substantially as described.

5. In a connection between a water closet bowl and a soil pipe, a bowl having a downwardly extending flange provided with inwardly extending portions, a floor plate secured to the soil pipe and provided with a flange extending upwardly within the flange of the bowl and provided with adjustable wedges extending over and engaging the inwardly extending portions of the flange of the bowl, thereby firmly connecting said bowl and soil pipe together, substantially as described.

6. In a connection between a water closet bowl and a soil pipe, a bowl having a downwardly extending flange provided with inwardly extending portions, a floor plate secured to the soil pipe and provided with a flange extending upwardly within the flange of the bowl and provided with spring wedges extending over and engaging the inwardly extending portions of the flange of the bowl, thereby firmly connecting said bowl and soil pipe together, substantially as described.

In testimony whereof I, CARRIE L. MOORE, executrix of the last will and testament of CHARLES H. MOORE deceased, have signed my name in the presence of two subscribing witnesses.

CARRIE L. MOORE,
Administratrix, etc.

Witnesses:

JOSEPH H. WITHERELL,
HERBERT ROGERS.