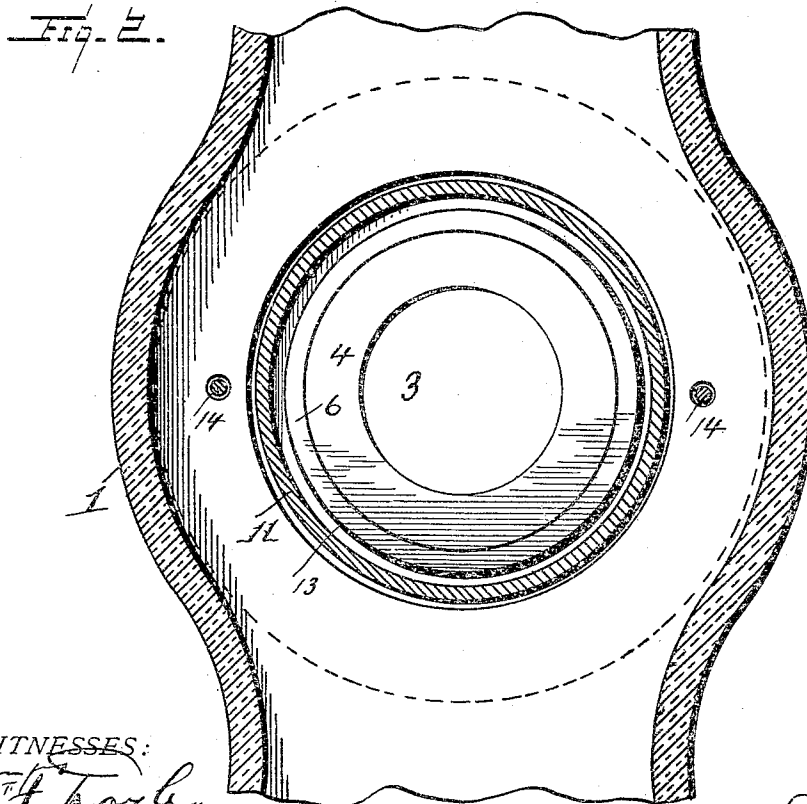
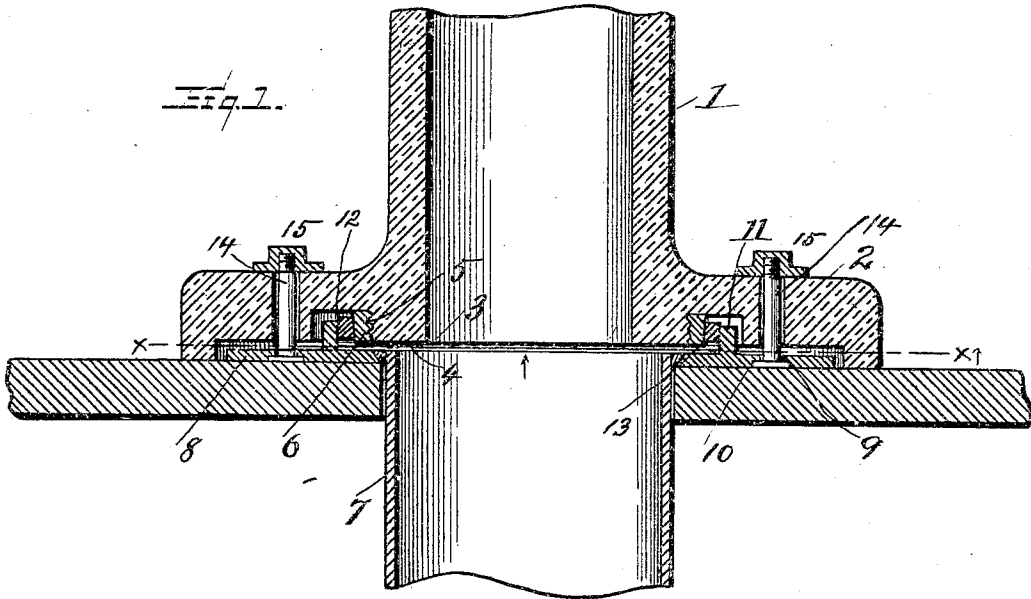


J. J. COSGROVE.
 WATER CLOSET CONNECTION.
 APPLICATION FILED JAN. 18, 1910.

962,943.

Patented June 28, 1910.



WITNESSES:
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UNITED STATES PATENT OFFICE.

JOSEPH J. COSGROVE, OF PHILADELPHIA, PENNSYLVANIA.

WATER-CLOSET CONNECTION.

962,943.

Specification of Letters Patent. Patented June 28, 1910.

Application filed January 18, 1910. Serial No. 538,579.

To all whom it may concern:

Be it known that I, JOSEPH J. COSGROVE, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Water-Closet Connections, of which the following is a specification.

This invention has relation to connections for water closets and has for its object the provision of novel means for obtaining an all metal to metal connection between the bowl of an earthenware closet and the soil pipe, which will be proof against leakage around its joints and which will permit of the closet being nicely adjusted in position to inequalities in the floor level and other defects in the structure in which the closet is installed.

The invention consists in the provision of an adjustable ring between the flange of the closet outlet opening, and the floor plate of the soil pipe, said ring being threaded on its periphery to engage with a screw thread on the interior of the vertical flange rising from the floor plate and the ring being adapted to be vertically adjustable on the floor plate and having its inner edge tapered to receive and seat a tapered collar screwed on the outside of the flange of the closet outlet.

In the accompanying drawing: Figure 1 is a vertical central sectional view of a portion of a closet and soil pipe embodying my invention. Fig. 2 is a horizontal sectional view on the line X—X of Fig. 1.

1 designates a portion of an earthenware water-closet having the usual horizontal base 2, and outlet opening 3, the latter being surrounded by a flange 4, which for the purposes of my invention, is formed with a screw thread 5, on its outside to receive a correspondingly screw threaded collar 6, which is tapered on its periphery, thus forming the frustum of an inverted cone.

7 designates a lead soil pipe and 8 a ring-shaped floor plate of hard metal, the inner edge of which is soldered to the soil pipe at its upper end. The floor plate 8 is provided with the usual bolt holes 9, counter-sunk at 10, and has an annular flange 11, rising from its upper surface, which flange has a screw thread 12 cut on its inner surface.

A metal ring 13, fits between the flange 11, and the collar 6, and is threaded on its outer surface to engage with the threads of the

flange 11 and tapered on its inner surface to correspond to the taper of the collar 6. This ring 13 serves as a seat to receive the collar 6, and form a water tight joint at the contacting surfaces, the taper of which allows the collar and ring to adapt themselves to fit tightly one within the other. The ring 13, is adjustable vertically on the flange 11 of the floor plate, and such adjustability is provided in order that its height may be regulated so as to bring the closet base down accurately and evenly to the floor level. The closet, when fitted to its required position, is secured to the floor plate 8, by the bolts 14, and cap nuts 15.

What I claim is:

1. The combination with a water closet having an exteriorly threaded flange surrounding its outlet, an exteriorly tapered collar screwed on said flange, a soil pipe extending to the floor level, a separate floor plate secured thereto above the floor line and provided with an annular flange, screw threaded on its inner surface and an externally threaded ring adjustably mounted in said floor plate flange and tapered on its inner surface to seat said tapered collar.

2. The combination with a water-closet having a tapered collar surrounding its outlet opening, of a soil pipe extending above the floor level and having a floor plate secured to the soil pipe and an adjustable, interiorly tapered ring carried by the floor plate above the floor level and adapted to receive the tapered collar.

3. The combination with a water-closet having a flanged outlet, a soil pipe extending above the floor level and a floor plate, of an intervening ring arranged above the floor plate adapted to receive the flange of the closet outlet and to be adjusted relatively to the floor plate.

4. The combination with a water-closet having a metallic ring attached thereto concentric with the outlet opening, of a soil pipe extending above the floor level, a floor plate secured to the soil pipe having a flange concentric with the soil pipe and an adjustable ring located between the closet ring and the floor plate flange.

In testimony whereof I have affixed my signature, in presence of two witnesses.

JOSEPH J. COSGROVE.

Witnesses:

JOS. B. CONNOLLY,
G. HERBERT JENKINS.