

No. 712,014.

Patented Oct. 28, 1902.

E. C. SMITH & C. L. MEADE, JR.
WATER CLOSET COUPLING.

(Application filed Sept. 25, 1902.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

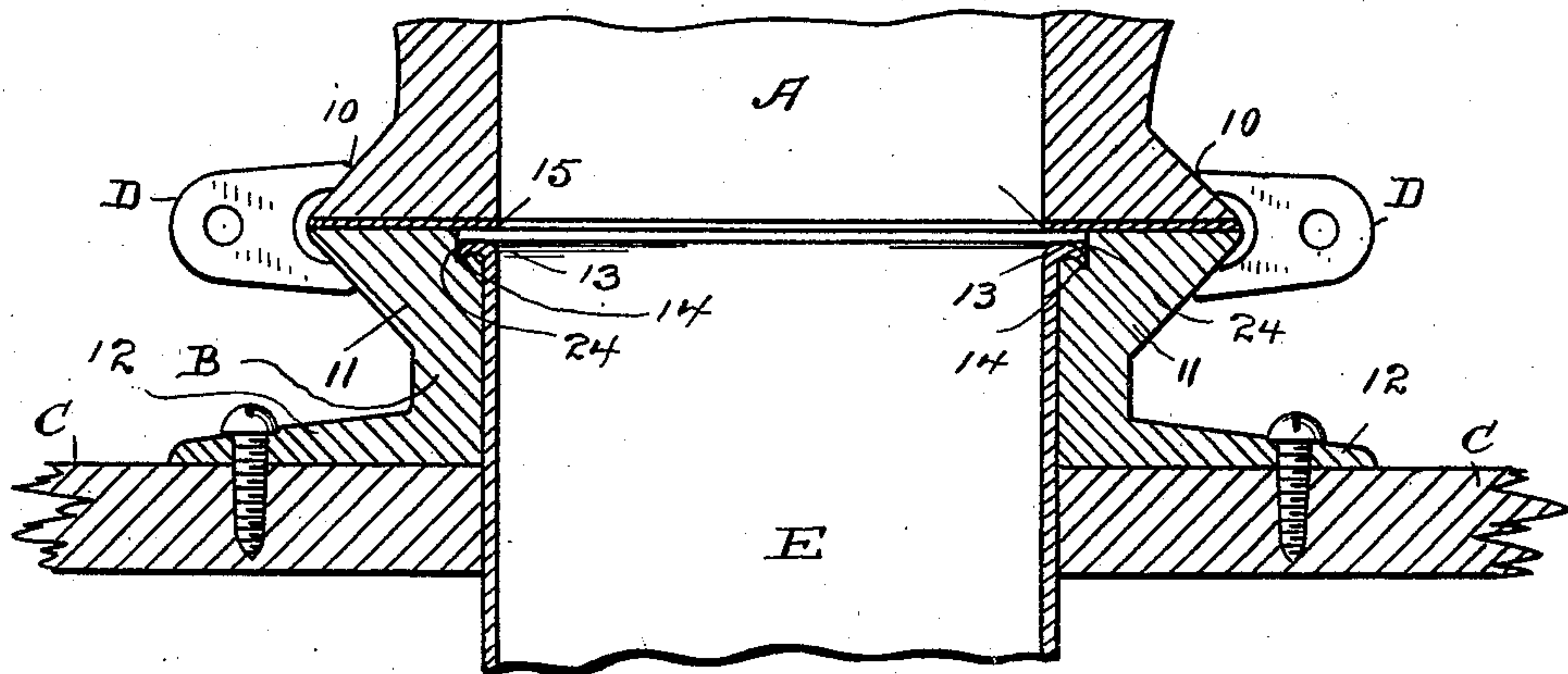
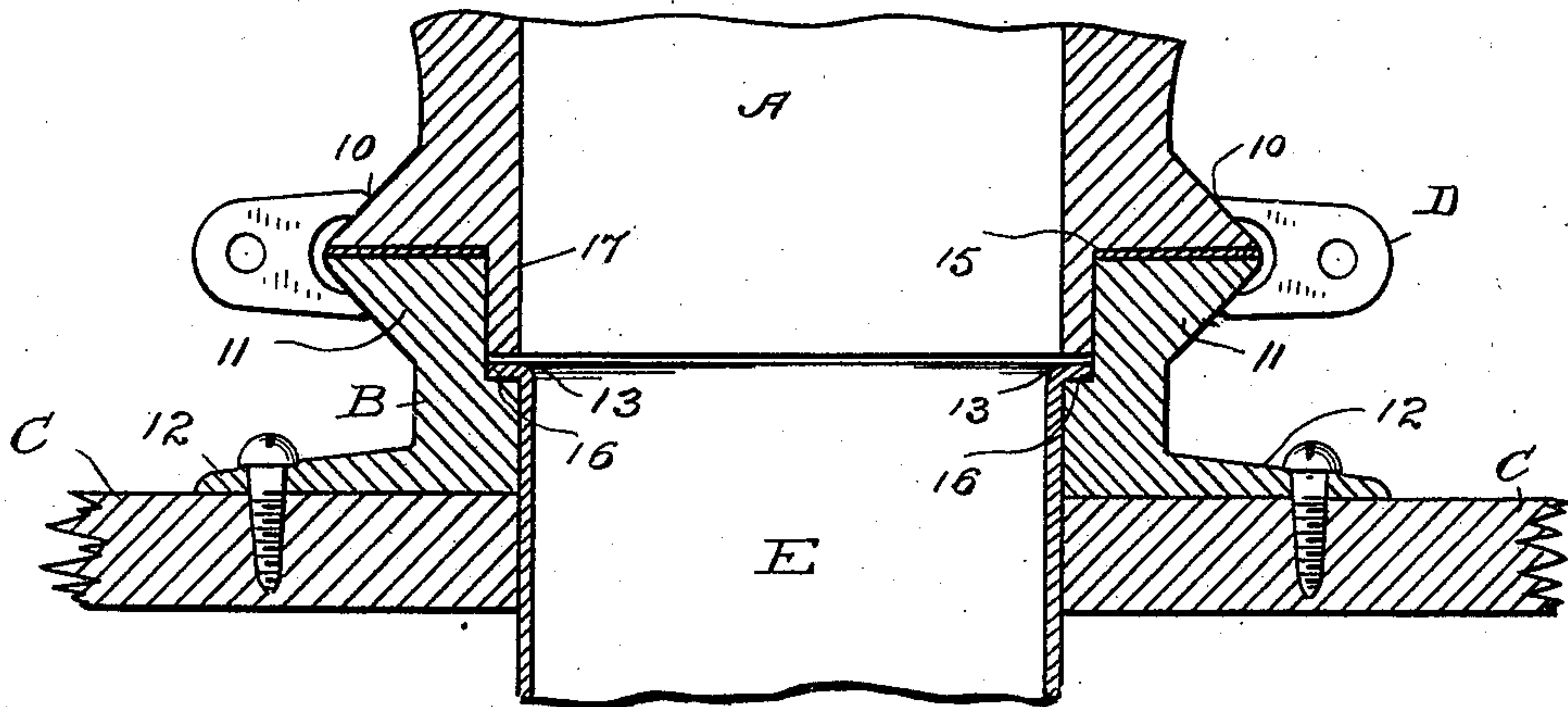


Fig. 2.



WITNESSES.

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Fig. 3.

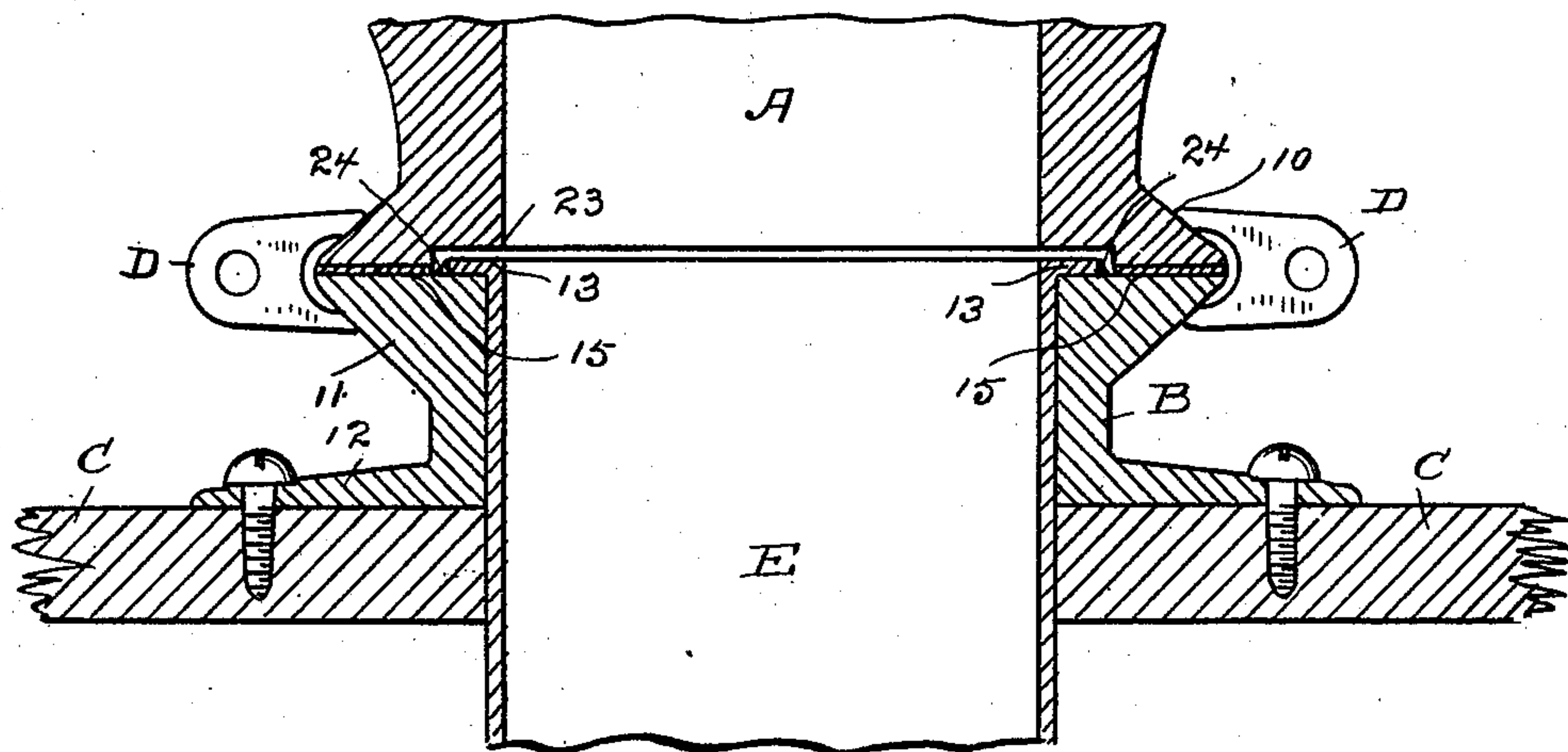
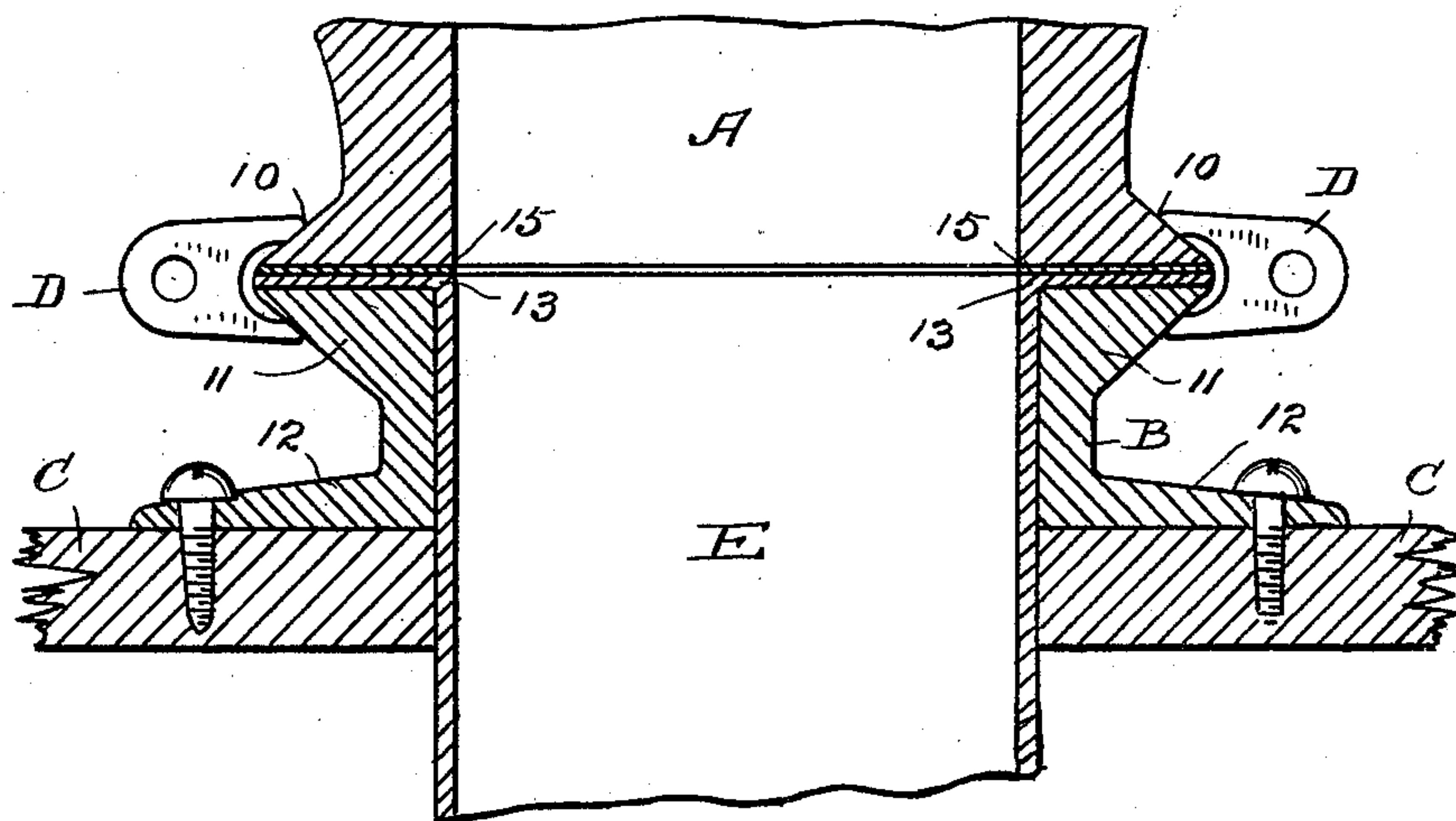


Fig. 4.



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UNITED STATES PATENT OFFICE.

EDMOND C. SMITH, OF SAUGATUCK, AND CYRUS L. MEADE, JR., OF WESTPORT, CONNECTICUT, ASSIGNORS TO THE SANITARY COUPLING COMPANY, OF SAUGATUCK, CONNECTICUT, A CORPORATION OF DELAWARE.

WATER-CLOSET COUPLING.

SPECIFICATION forming part of Letters Patent No. 712,014, dated October 28, 1902.

Application filed September 25, 1902. Serial No. 124,789. (No model.)

To all whom it may concern:

Be it known that we, EDMOND C. SMITH, residing at Saugatuck, and CYRUS L. MEADE, Jr., residing at Westport, county of Fairfield, State of Connecticut, citizens of the United States, have invented a new and useful Water-Closet Coupling, (Case C,) of which the following is a specification.

This invention relates to certain improvements in couplings for water-closets, and has for its object to provide a coupling between a soil-pipe and a ceramic bowl which shall be thoroughly sanitary, as the escape of sewer-gas is made impossible, of few parts which are relatively inexpensive and easily put together, and thoroughly durable, as the bowl is not attached to the floor, but to a metal base, so that all difficulty in setting up and danger of breakage owing to unevenness of floors and their swelling, shrinking, or settling is avoided.

It is an essential feature of this invention that we produce a water-closet coupling in which the soil-pipe is secured to and suspended from a metal base, and without connection either with the floor or the bowl.

With the above and other objects in view the invention consists in certain constructions and in certain parts, improvements, and combinations, which will be hereinafter described, and then specifically pointed out in the claims hereunto appended.

In the accompanying drawings, forming part of this specification, in which like characters of reference indicate the same parts, the four figures are sectional views illustrating variant forms in which we have exemplified the principle of our invention.

A denotes a ceramic water-closet bowl having a flange 10; B, a metal base having an upper flange 11, corresponding with flange 10 upon the bowl, and a lower flange 12, which rests upon the floor C; D, a two-part clamp adapted to engage flanges 10 and 11 and secure the bowl to the base, and E is a soil-pipe whose upper end is flanged over, as at 13, as a means of rigidly securing it to the base.

In the form illustrated in Figure 1 the flange upon the soil-pipe is inclined downward, so as

to adapt it to hook onto a correspondingly-inclined internal shoulder 14 near the top of the base. Suitable packing 15, ordinarily a gasket, is interposed between the flanges 10 and 11 upon the bowl and the base, respectively. Solder, as at 24, may or may not be used to rigidly secure the flange of the soil-pipe to the shoulder on the base.

In the form illustrated in Fig. 2 the flange 13 upon the soil-pipe engages an internal shoulder 16 at approximately the mid-height of the base, and the bowl is provided with a depending collar 17, which passes within the opening in the base. The packing 15 in this form lies between the bowl and the base, outside of collar 17.

In the form illustrated in Fig. 3 the soil-pipe passes up entirely through the base, and the flange 13 of the soil-pipe rests upon the top of the base and is secured thereto by solder, as at 24. In this form the lower end of the bowl is provided with a recess 23, which receives flange 13 loosely, a packing 15, as a gasket, being placed between the bowl and the base, outside of the recess.

The form illustrated in Fig. 4 differs from the form in Fig. 3 only in that no recess 23 is formed in the under side of the bowl, and the flange 13 of the soil-pipe is made much wider and may extend entirely across the base, packing 15, as a gasket, being interposed between the bowl and the top of the flange.

In setting up a water-closet where our novel coupling is used the soil-pipe is passed up through the floor, the metal base placed over the soil-pipe and secured in place, then the upper end of the soil-pipe is flanged over either upon an internal shoulder on the base or over the top of the base, so as to secure it thereto, and then the bowl is placed in position on the base and secured there by a two-part clamp engaging flanges on the base and bowl, respectively, as clearly shown in the drawings, packing, as a gasket, being always used between the bowl and the base, except as in Fig. 4.

Having thus described our invention, we claim—

1. The combination with a water-closet bowl having an outwardly-extending flat-faced

flange at its lower end, of a metallic base having a horizontally-extended upper seat for the flange of the bowl and an extended internal bore, means for clamping the bowl and the base together, a soil-pipe adapted to fit said bore and having a flange, and means for securing said flange above said bore.

2. The combination with a water-closet bowl having an outwardly-extending flat-faced flange at its lower end, of a metallic base having a horizontally-extended upper seat for the flange of the bowl and an extended internal bore, an internal annular shoulder being formed in said base above said bore arranged to support the flanged upper end of a soil-pipe, and means for clamping the bowl and the base together.

3. The combination with a water-closet bowl having an outwardly-extending flat-faced flange at its lower end, of a metallic base having a horizontally-extended upper seat for the flange of the bowl and an extended internal bore, an internal undercut shoulder being

formed in said base above said bore, said shoulder being arranged to support the flanged upper end of a soil-pipe, and means for clamping the bowl and base together.

4. The combination with a water-closet bowl having an outwardly-extending flat-faced flange at its lower end, of a metallic base having a horizontally-extended upper seat for the flange of the bowl and an extended internal bore, an internal undercut shoulder being formed in said base above said bore, means for clamping the bowl and base together, a soil-pipe having a flanged upper end resting on said shoulder, and means for securing said flanged end in position.

In testimony whereof we affix our signatures in presence of two witnesses.

EDMOND C. SMITH.
CYRUS L. MEADE, JR.

Witnesses:

A. M. WOOSTER,
S. W. ATHERTON.