(No Model.)

W. H. BURNETT.

CONNECTION.

No. 600,961. Patented Mar. 22, 1898.

Fig. 1

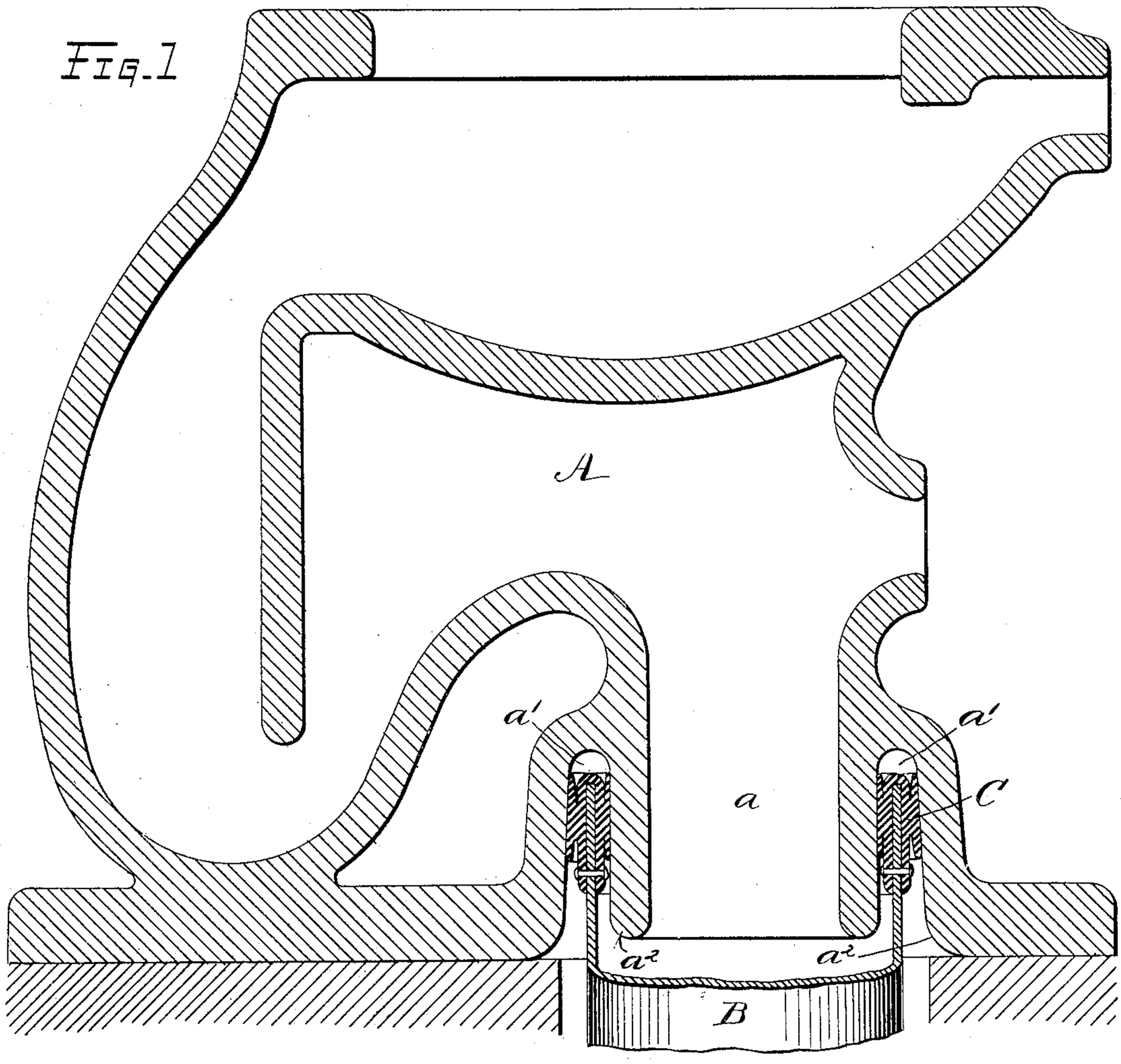
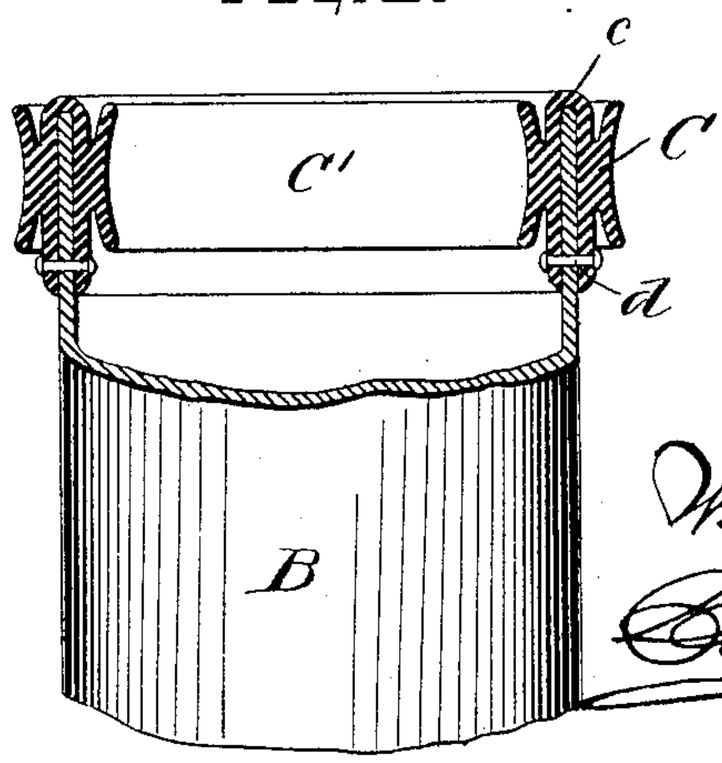


Fig. 2.



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CONNECTION.

SPECIFICATION forming part of Letters Patent No. 600,961, dated March 22, 1898.

Application filed March 29, 1897. Serial No. 629,663. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HENRY BURNETT, a citizen of the United States, and a resident of Red Hook, county of Dutchess, and State of New York, have invented certain new and useful Improvements in Connections, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to an improved connection between a waste-pipe and water-closet bowl. Ordinarily in this form of connections or attachments a fixed connection between the parts is established and there is also a direct connection with the floor. Consequently settling of the floor will frequently break the connection or crack the bowl.

The object of my invention is to provide a simple and improved flexible and movable connection whereby the above-mentioned danger and disadvantage will be entirely obviated and which will permit of settling of the floor or relative movement between the parts without any liability of damage at the joint or the breaking of the connection.

In the drawings, Figure 1 is a vertical sectional view illustrating my improvements and showing the connection in position. Fig. 2 is a sectional view of the top portion of the waste-pipe.

Referring to the drawings, A designates the bowl, which may be in the main of any suitable or adapted construction. Surrounding the outlet portion *a* is an annular groove *a'*, vertically arranged and of a suitable depth.

B designates the waste-pipe, which carries at its upper end a surrounding annular ring or cushion C, of flexible or elastic material, which is adapted to be received by and compressed within the annular recess *a'* and form an air-tight joint between the pipe and bowl, but at the same time permit of a relative movement between the parts at said joint caused by settling of the floor or for any other reason.

My invention thus provides a compressed sliding joint which by reason of the avoidance of fixed connection between the parts will obviate any liability to breakage or damage or the opening of the joint.

The ring or cushion C may be of any suitable or adapted construction, but I prefer to form it with an approximately U-shaped body portion *c*, adapted to overlap the top edge of the pipe B and inclose the same and provided at its inner and outer sides with a projecting concaved flange *c'*, (see Fig. 2,) which will be compressed into the flat position shown in Fig. 1 when it is slid into the groove or socket *a'*. This concaved form of the projecting flanges also insures a hermetically-sealed air-tight joint by suction when it is placed in position.

The body of the ring or cushion C may be secured to the pipe B by transverse pins *d* or in any other suitable manner. I prefer to round the entrance edges a^2 of the groove or socket *a'* to facilitate the entrance of the cushioned top end of the pipe when it is inserted into position.

It will be noted that my improvements, aside from insuring an effective connection fully obviating any liability of damage or breakage of the joint, also enables the convenient and ready connection or disconnection of the parts without the ordinary employment of securing-bolts and the necessity for sealing the joint.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a connection of the class described, the combination, with the bowl having an annular groove or recess surrounding its outlet end, of the pipe carrying an annular flexible or elastic ring provided with laterally-projecting flanges adapted to be compressed against the wall of said groove, substantially as and for the purpose set forth.

2. In a connection of the class described, the combination, with the bowl provided with an annular groove or recess surrounding its outlet end, of the pipe carrying on its top edge an interiorly and exteriorly projecting flexible or elastic ring adapted to be received by and compressed within said groove, substantially as and for the purpose set forth.

3. In a connection of the class described, the combination, with the bowl having an annular groove or recess surrounding its outlet end, of the pipe carrying an annular flexible or elastic ring provided with a concave

projecting flange at its side, said concave flange being adapted to be compressed by suction against the wall of said groove, substantially as and for the purpose set forth.

4. In a connection of the class described, the combination, with the bowl provided with an annular groove or recess surrounding its outlet end, of a pipe carrying an annular flexible or elastic ring provided at its interior and exterior sides with concave projecting flanges adapted to be compressed against the walls of the groove, substantially as and for the purpose set forth.

5. In a connection of the class described, the combination, with the bowl provided with a groove or socket surrounding the outlet end, of a pipe carrying a cushion compressed within said socket and forming a sliding connection therewith, substantially as and for the purpose set forth.

6. In a connection of the class described, the combination, with the bowl having an annular groove or recess surrounding its outlet end, of the pipe carrying at its top the annular flexible or elastic ring embodying an approximately U-shaped top portion projecting over and embracing the top edge of the pipe and provided at the interior and exterior sides with lateral flanges or projecting portions adapted to be compressed against the walls of the groove, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 27th day of March, 1897.

WILLIAM HENRY BURNETT.

Witnesses:
C. SEDGWICK,
B. MCCOMB.