

(No Model.)

2 Sheets—Sheet 1.

T. MADDOCK.
Flushing Device for Water Closet Bowls.

No. 229,326.

Patented June 29, 1880.

Figure 1.

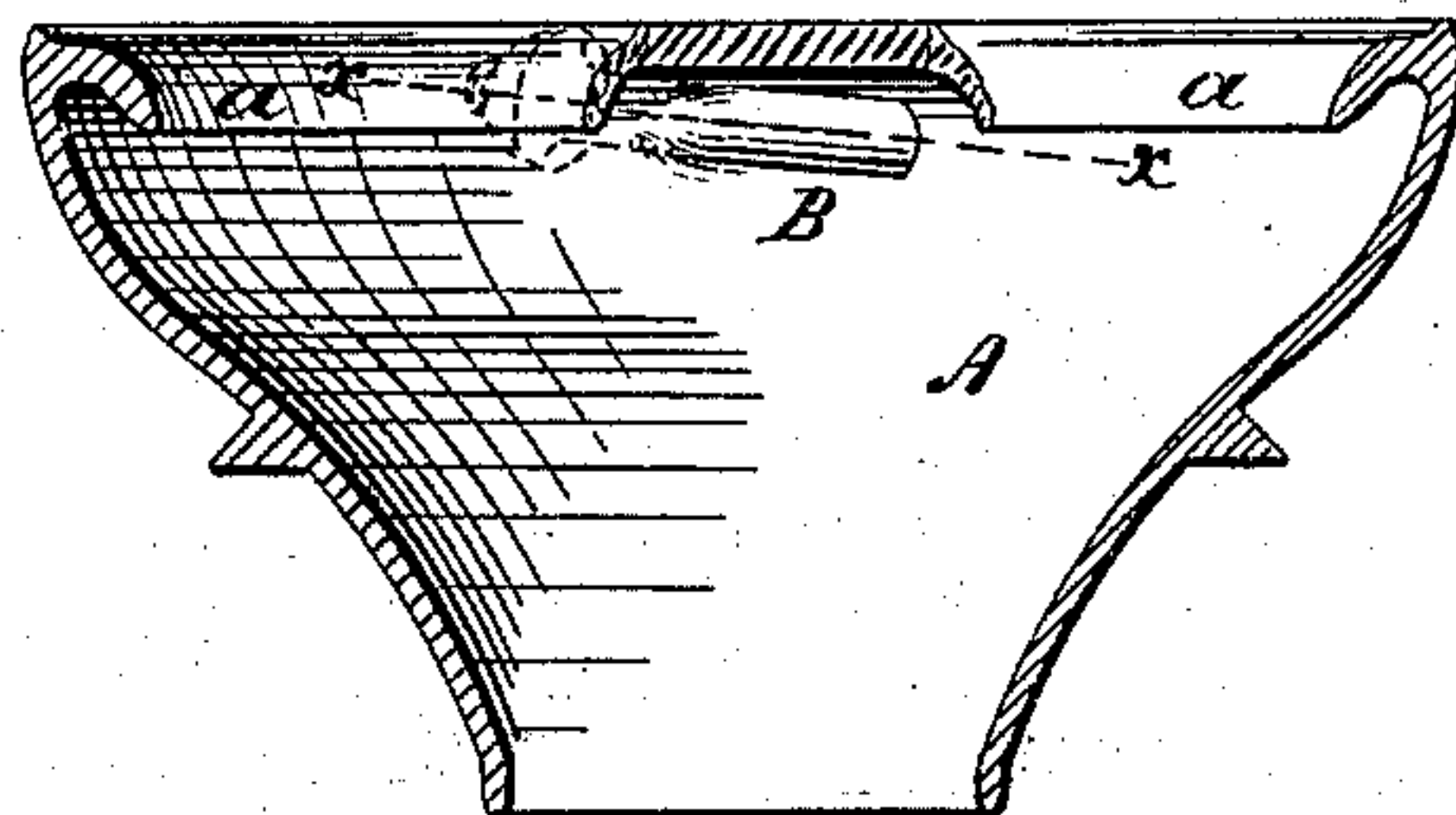
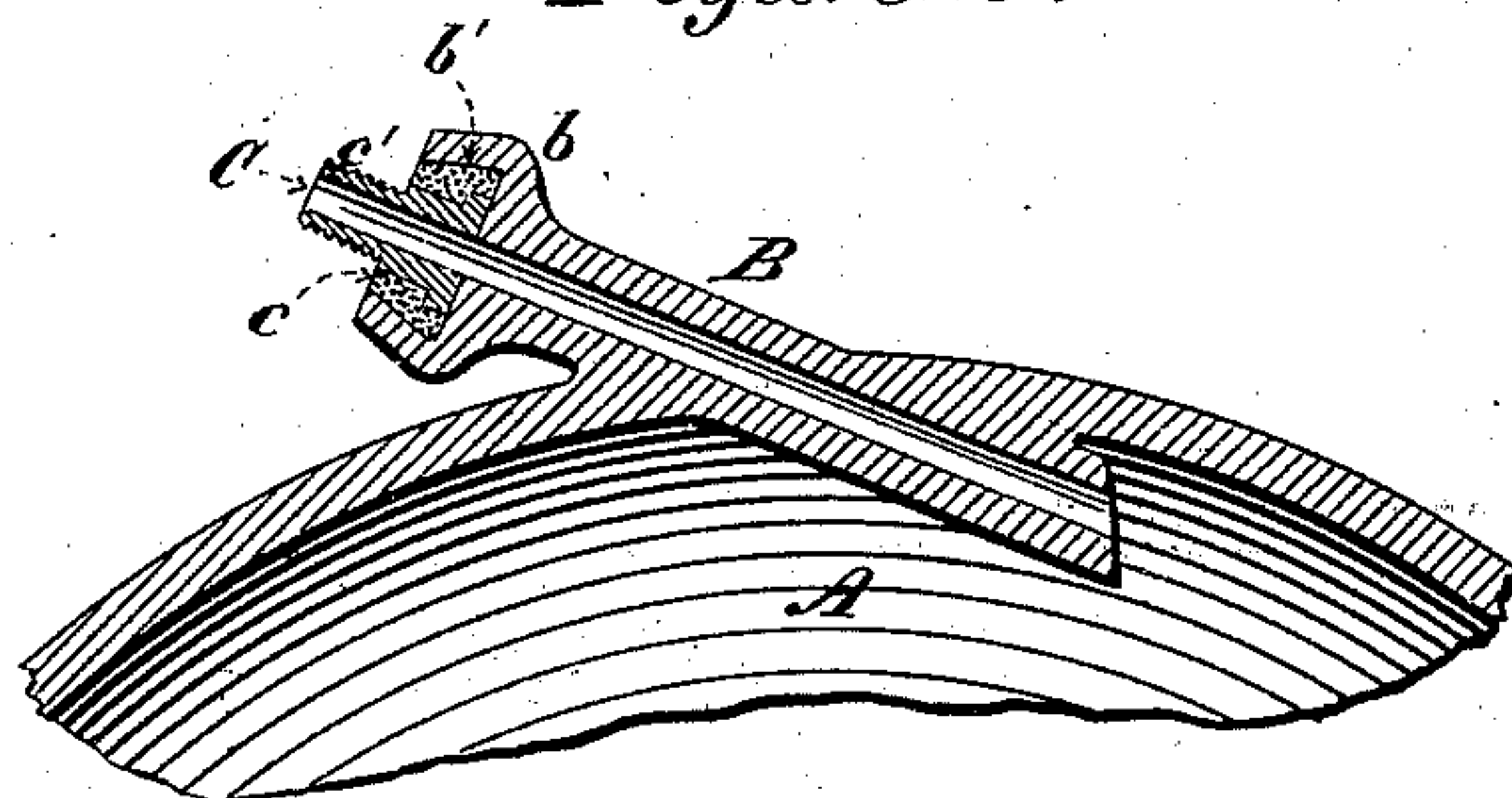


Figure 2.



Witnesses:

Geo. W. Miatt

M. L. Adams.

Inventor:

Thomas Maddock

Per Edw. E. Quincy

Atty.

(No Model.)

2 Sheets—Sheet 2.

T. MADDOCK.
Flushing Device for Water Closet Bowls.
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Figure 3.

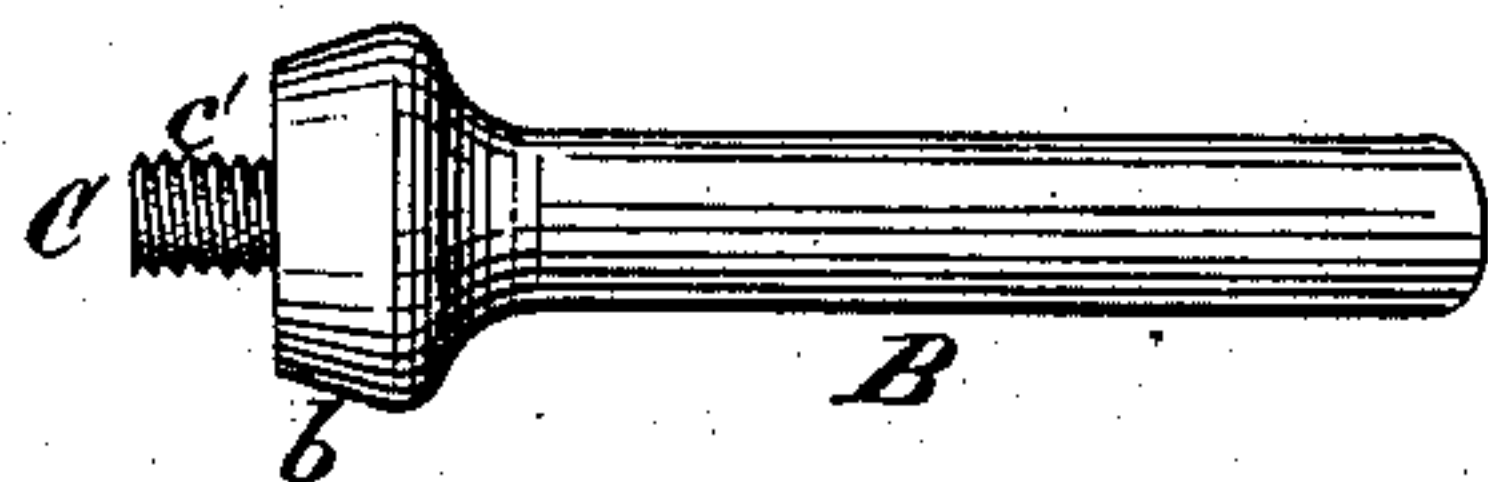
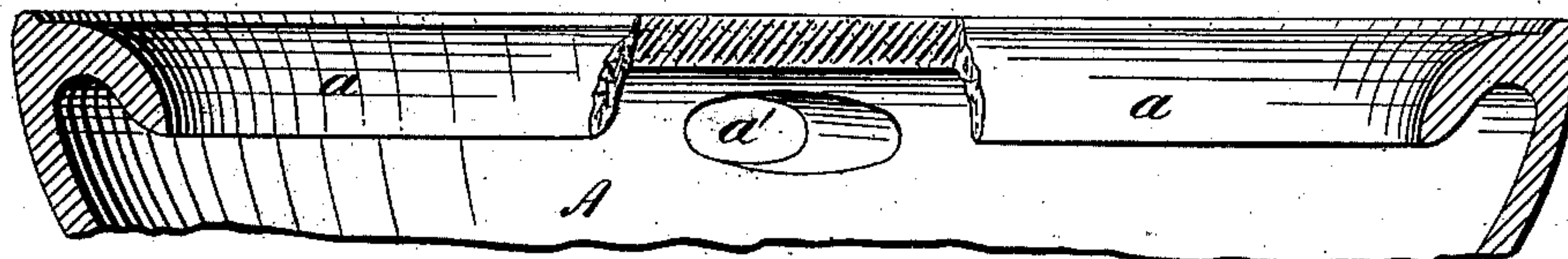


Figure 4.



Witnesses:

Geo. H. Miatt

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Inventor:

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UNITED STATES PATENT OFFICE.

THOMAS MADDOCK, OF TRENTON, NEW JERSEY.

FLUSHING DEVICE FOR WATER-CLOSET BOWLS.

SPECIFICATION forming part of Letters Patent No. 229,326, dated June 29, 1880.

Application filed April 17, 1880. (No model.)

To all whom it may concern:

Be it known that I, THOMAS MADDOCK, of Trenton, New Jersey, have invented certain Improvements in Flushing Devices for Water-Closet Bowls, of which the following is a specification.

It is the twofold object of my improvements to simplify the construction and mode of application to water-closet bowls of the devices by which the flushing-water is introduced, and also to provide a more secure joint for the metallic supply-pipe with the outer end of the earthenware flushing-pipe.

The first part of my invention consists of an earthenware flushing-pipe, which is inserted bodily through the side of the bowl and joined thereto by the union of the wall of the bowl with the periphery of the flushing-pipe. The flushing-pipe is introduced at the proper angle to enable it to direct a jet of water against the inner wall of the bowl near the top, and the inner end of the flushing-pipe takes the place of the fans or spreaders heretofore employed.

The second part of my invention consists in forming a conical annular recess at the outer end of the flushing-pipe, and in permanently securing therein a flanged metallic tube provided upon its projecting portion with a screw-thread for receiving an ordinary coupling-nut.

The accompanying drawings, illustrating a water-closet bowl provided with my improvements, are as follows:

Figure 1 is a vertical section of a bowl having a portion of its inwardly-curved flange broken away for the purpose of exhibiting the inner end of my flushing-pipe. Fig. 2 is a horizontal section through the line $x x$ on Fig. 1, the scale of which is enlarged for the purpose of more clearly showing the construction of the flushing-pipe and its mode of application to the bowl. Fig. 3 is a view of the flushing-pipe prior to its attachment to the bowl. Fig. 4 is a vertical section of the upper portion of the bowl, showing the hole formed in its side near the top for the reception of the flushing-pipe.

The drawings represent a portion, A, of a water-closet bowl having at the top the usual curved-inward flange a , and provided with a flushing-pipe, B, the inner end of which is immediately beneath the curved flange.

In constructing the bowl a hole, a' , is formed

through the side of the bowl, near the top, in which the flushing-pipe B is inserted.

The materials of which the bowl and flushing-pipe are composed being in a plastic condition, their union is effected by pressing the edges of the hole a' upon the periphery of the flushing-pipe both inside and outside of the bowl, after which the bowl is glazed and baked in the usual manner.

In the outer end or nozzle, b , of my flushing-pipe I provide the annular conical recess b' , for receiving the flanged metallic coupling-pipe C, which is permanently secured by the cement c , deposited in the annular space between the exterior of the coupling-pipe and its flange and the interior of the annular conical recess.

A screw-thread is formed upon the periphery of the projecting portion c' of the coupling-pipe, which is thus fitted for the reception of an ordinary coupling-nut.

This device for connecting the nozzle b with a metallic supply-pipe may be applied to the nozzles of ordinary spreaders; and it will, of course, be understood that my flushing-pipe may be a plain tube and be connected with the supply-pipe in the ordinary manner without departing from that part of my invention which consists in the employment of the flushing-tube in the place of the ordinary spreader or fan, and in securing the tube to the bowl by the union of the wall of the bowl, inside and outside, with the periphery of the tube.

I claim as my invention—

1. A flushing device for an earthenware water-closet bowl, consisting of an earthenware tube inserted bodily through a hole in the side of the bowl and joined thereto by the union of the material composing the edges of the hole in the side of the bowl with the material composing the periphery of the flushing-pipe, substantially as described.

2. In a water-closet bowl, the earthenware nozzle b of the flushing device, provided at its outer end with the interior annular conical recess, b' , in combination with the flanged metallic coupling-pipe C and the annular mass of cement c , substantially as and for the purpose set forth.

THOMAS MADDOCK.

Witnesses:

M. L. ADAMS,
GEO. W. MIATT.