

(No Model.)

P. J. CAHILL.  
WATER CLOSET SEAT.

No. 542,551.

Patented July 9, 1895.

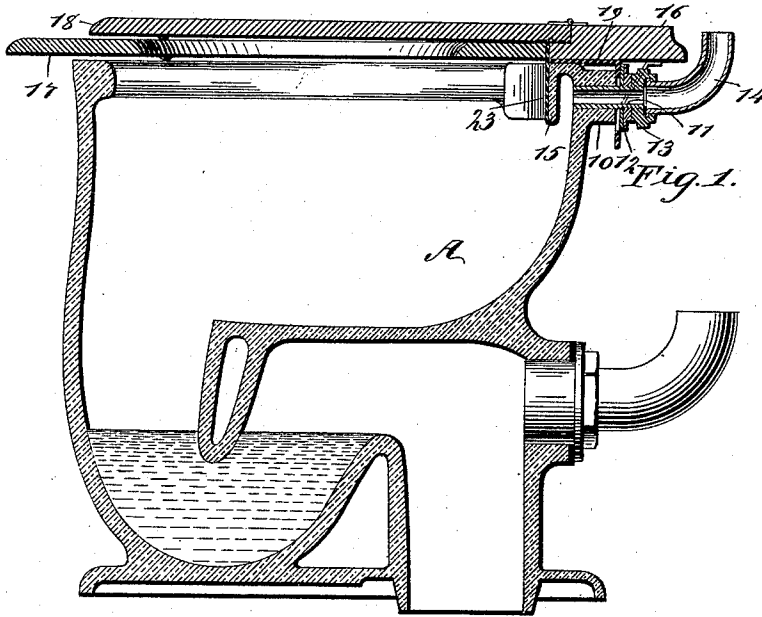


Fig. 2.

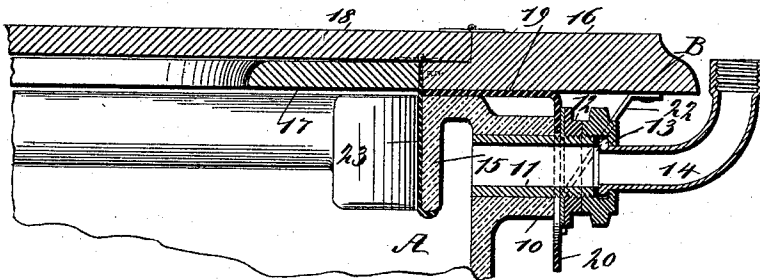
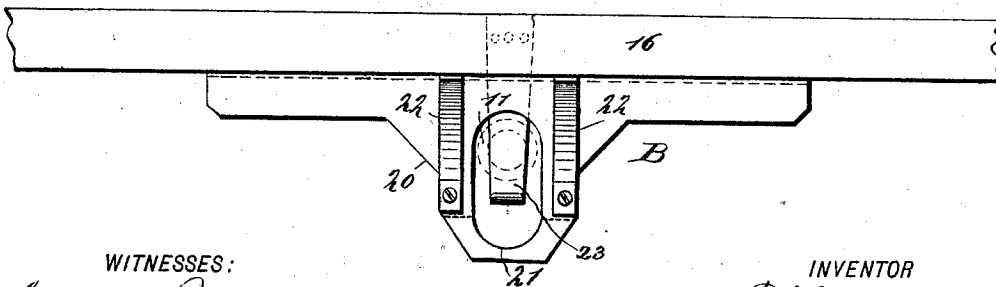


Fig. 3.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

PATRICK J. CAHILL, OF UTICA, NEW YORK.

## WATER-CLOSET SEAT.

SPECIFICATION forming part of Letters Patent No. 542,551, dated July 9, 1895.

Application filed June 28, 1893. Serial No. 479,085. (No model.)

*To all whom it may concern:*

Be it known that I, PATRICK J. CAHILL, of Utica, in the county of Oneida and State of New York, have invented a new and useful Improvement in Water-Closet Seats, of which the following is a full, clear, and exact description.

The object of the invention is to so construct the seat of a water-closet as to enable it to be fastened directly to the earthen bowl by means of a bracket attachment, which virtually constitutes an integral portion of the framing of the seat, and, further, to so construct the attachment that the seat will not require any support from the wall of a building, a partition, or any near-by object, since the attachment will find all the support needed in the bowl itself. In this manner a closet may be located wherever desired and independent of any adjacent support, and the marring of the walls, likewise the injury incident to the casing of a bowl when seats are supported from the wall, is avoided when, for example, any repairs are needed.

Another object of the invention is to provide a fastening device for closet-seats especially adapted for use in connection with the ordinary earthenware washout closet-bowls that are provided with a flushing-pipe spud and coupling in the back, front, or in fact any portion of the bowl, the attachment to the seat being so constructed that the spud of the bowl will be utilized as a keeper for the attachment, while the coupling and lock-nut accompanying the spud may be employed as the fastening devices.

A further object of the invention is to provide a fastening attachment for closet-seats which will be adjustable and exceedingly simple, durable, and economic in its construction.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a vertical central section through an earthen bowl, illustrating the ap-

plication of the seat thereto and likewise the application of the fastening or attaching device. Fig. 2 is an enlarged sectional view taken through the flushing-pipe spud and coupling and the parts of the seat and attachment and bowl adjacent thereto, and Fig. 3 is a rear elevation of the attachment.

The closet-bowl A is of the ordinary construction and represents an earthen flushing-bowl, and the said bowl is provided with the usual neck 10, in which the spud 11 is introduced to effect a connection between the bowl and the flushing-pipe 14. In addition to the spud 11, such bowls are usually provided with a lock-nut 12 and a coupling 13. These do not differ from those usually supplied in connection with such bowls. In front of the mouth or delivery end of the spud 11 the ordinary lip 15 is located, which deflects the water in a downwardly direction.

In the construction of the seat a framing-board 16 is employed, to which board the seat proper 17 and the cover 18 are hinged in any well-known manner. The casing or framing board 16 is located over the flushing-pipe spud, and upon its under face at or near the center the horizontal member 19 of a bracket B is secured, one end of the said member 19 of the bracket being carried, preferably, flush with the inner edge of the board. The vertical member 20 of the bracket B extends downward from about a point near the center between the inner and outer sides of the said casing-board, as is best shown in Fig. 2, and the vertical member 20 of the bracket, as shown in Fig. 3, is provided with a slot or opening 21, produced in preferably a vertical direction, while the vertical member of the bracket is usually supported or stiffened by braces 22 secured to its rear or back face, one at each side of the opening 21, as is likewise shown in Fig. 3, the opposite ends of the braces being secured to the casing-board 16 of the seat.

The seat and bracket attachment thereto are fixtures, and the bracket attachment, together with a tongue 23, constitutes the prime feature of the invention. The tongue 23 is secured in any suitable or approved manner to the inner side edge of the casing-board 16, and is so located that it faces the opening 21 in the bracket. The tongue 23 is adapted to

extend downward to an engagement with the inner wall of the lip 15 of the bowl.

The seat is applied in the following manner: The coupling and the lock-nut 12 and 13 being removed from the spud 11, the outer or threaded end of the spud is made to pass through the opening 21 in the bracket and the bracket is raised and lowered until the casing-board 16 or the horizontal member of the bracket rests upon the upper edge of the bowl, as shown in Fig. 2. The tongue 23 is then bent at its lower end, so as to engage with the lower edge of the lip 15 of the bowl, and the lock-nut 12 is then screwed upon the threaded end of the spud until it binds firmly against the rear or outer face of the horizontal member of the bracket, causing the said member of the bracket to be firmly pressed against the neck 10 of the bowl in which the spud is located. Next, the coupling 13 is screwed upon the spud, and the nut of the said coupling acts as a jam-nut and effectually prevents the bracket from working loose, while the tongue 23 will prevent any upward or rearward movement of the seat.

It is evident that a closet-seat provided with the above-described attachment may be firmly and securely fitted upon a bowl, and the application may be effected both conveniently and expeditiously and by any one having the slightest knowledge of plumbing work. Furthermore, the attachment is simple; it admits of the seat being adjusted to suit different heights of rims on various bowls, and set-screws are not used. In fact, nothing is employed that is liable to become detached from the seat and lost, and the application of a seat having the improvement applied is exceedingly economic, since the fastening devices used always accompany the bowl upon which the seat is to be applied, and in fact form a portion of the outfit of the bowl. It is likewise evident that no support will be required for the seat outside of that furnished by the bowl itself.

Instead of the vertical member 20 of the bracket being provided with a closed slot, it may be bifurcated at its lower end in order to enable it to be slipped over the spud when the lock-nut is loosened. To carry out this mode of construction the lower end of the

bracket would be cut off on the dotted lines shown in Fig. 3.

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

1. The combination, with a closet bowl provided with a spud, of a closet seat and a support for the same, said support having a bracket projecting therefrom and apertured to receive the spud of the bowl, substantially as shown and described.

2. A support for the seat of a flushing bowl closet, provided with a bracket projected therefrom and apertured to receive the flushing pipe spud of the bowl, substantially as shown and described.

3. A support for the seat of flushing bowl closets, the said support being provided with a bracket projected therefrom, having an opening adapted to receive the flushing pipe spud of the bowl, and a tongue facing the opening in the bracket, the said tongue being adapted for engagement with the spreading lip at the mouth of the flushing pipe spud, substantially as shown and described.

4. The combination, with the bowl of a flushing closet, its flushing tube, lock nut and coupling, of a support with which the seat and cover are connected, and a bracket projected downward from the support, provided with an opening adapted to receive the flushing pipe spud, the lock nut of the spud being adapted for engagement with the bracket, as and for the purpose set forth.

5. The combination, with the bowl of a flushing closet, its spud, its spreading lip at the mouth of the spud, and the lock nut and coupling connected with the spud, of a support with which the seat and cover are adapted to be connected, a bracket projected downward from the support, provided with an opening therein through which the spud passes, the said bracket being engaged by the lock nut of the spud, and a tongue likewise projected from the support and having locking engagement with the spreading lip of the bowl, as specified.

PATRICK J. CAHILL.

Witnesses:

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