A. T. J. BAHR.

CLEAN OUT ATTACHMENT FOR TOILETS.

APPLICATION FILED APR. 5, 1922.

1,437,582. Patented Dec. 5, 1922.

Fig. 1.

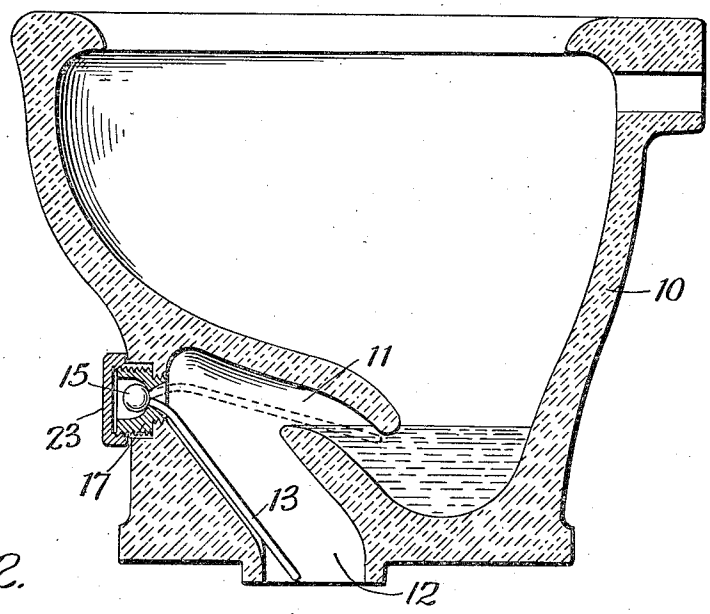


Fig. 2.

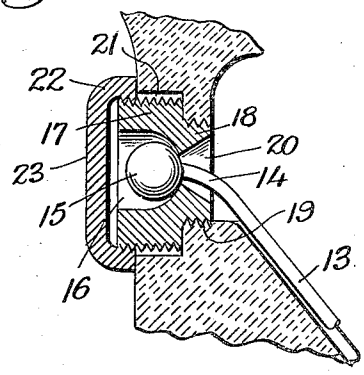


Fig. 3.

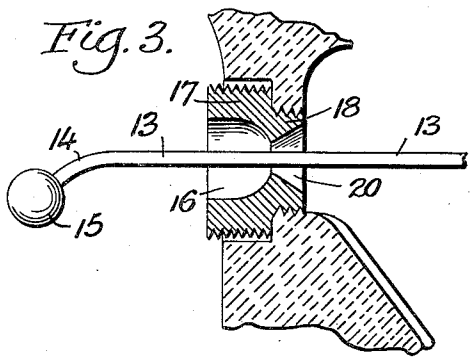
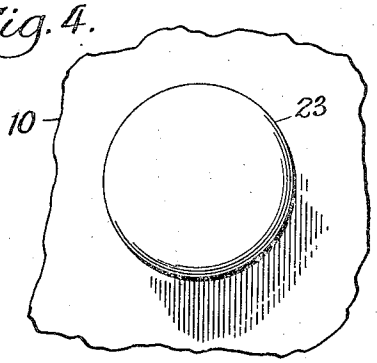


Fig. 4.



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UNITED STATES PATENT OFFICE.

AUGUST T. J. BAHR, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO EDWARD F. KARR, OF CHICAGO, ILLINOIS, ONE-FOURTH TO FRED HEIBERG AND ONE-FOURTH TO CHARLES FRANKS, BOTH OF ST. LOUIS, MISSOURI.

CLEAN-OUT ATTACHMENT FOR TOILETS.

Application filed April 5, 1922. Serial No. 549,701.

To all whom it may concern:

Be it known that I, AUGUST T. J. BAHR, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Clean-Out Attachments for Toilets, of which the following is a specification.

My present invention relates generally to clean-out attachments adaptable for various purposes and designed in particular for permanent location in connection with toilet bowls in order to maintain the siphon passage free, open and unobstructed and thus keep the apparatus in a sanitary condition of maximum effectiveness.

A still further object is the provision of a device of the above nature which forms a permanent part or fitting, which is sightly and neat in appearance, which may be readily and easily operated, and which is practically fool proof in operation.

With the above in mind my invention resides in a cleanout attachment such as shown in the accompanying drawing which forms a part of this specification, and wherein,

Figure 1 is a vertical longitudinal section illustrating the practical application of my invention,

Figure 2 is an enlarged detail section of a part of Figure 1 with the attachment in its normal inactive position.

Figure 3 is a view similar to Figure 1 with the cap removed and the cleanout rod ready for movement into a siphon passage, and

Figure 4 is a partial rear elevation of the bowl showing the attachment in place.

Referring now to these figures my invention proposes an attachment applicable to a bowl 10 in order to maintain its siphon passage 11 free and open at all times to the outlet channel 12, the attachment essentially comprising a cleanout member or rod 13 which may normally depend within the outlet channel 12 and lie along the rear wall of the latter and which is also capable of being moved into and throughout the siphon passage 11 whenever this becomes necessary or desirable.

At one end the rod 13 is slightly curved as at 14 and provided with a terminal head as for instance a ball 15, this head end of the rod being normally supported within the enlarged outwardly opening and rounded bore 16 of a plug 17 whose inner reduced and externally threaded portion 18 is firmly and permanently seated in a bore 19 of the rear wall of the bowl 10 approximately opposite the upper rear end of the siphon passage 11.

The inner reduced portion 18 of the plug has an inwardly opening and inwardly flaring bore 20, which communicates with the outer bore 16 by means of a reduced opening to prevent inward movement of the ball or head 15 of the cleanout rod through the plug, the latter opening of which is however of considerably greater diameter than the diameter of the rod 13 so that when the head 15 is grasped and shifted outwardly so that the rod 13 is pulled upwardly and outwardly from its normal pendent position within the outlet channel 12, preparatory to its introduction within the siphon passage 11, it is obvious the rod may be shifted to all parts of the siphon passage throughout the length of the latter.

The body portion of the plug 17 around its outer bore 16, which is externally threaded, seats within a counterbore 21 of the bowl 10 around the outer end of the bore 19 within which the plug is anchored and this externally threaded body of the plug projects outwardly beyond the counterbore a sufficient distance so that its threads may be engaged by the internally threaded annular flange 22 of a cap 23 which normally screws thereon with its annular edge engageable with the outer surface of the bowl around the counterbore of the latter, to form a seal, either with or without the use of a gasket as may be found necessary.

Thus it is obvious that in the normal position of the parts as seen particularly in Figures 1 and 2, the only portion of the attachment or fitting which is exposed to view is the cap 23, and the attachment thus fails to detract in any way from the usual neat appearance of the bowl as a whole.

Where use of the attachment is necessary, the cap 23 is simply unscrewed and the head end of the rod is grasped and shifted outwardly as seen in Figure 3, and by so doing it is obvious the free inner end of the rod may be projected into the siphon passage 11 as shown in dotted lines in Figure 1 and shifted lengthwise as well as

sidewise in this passage to thoroughly clean the latter and dislodge any obstructions, after which the rod is again pulled out and dropped into the outlet channel 12 in its usual pendent position so as not to interfere with any of the normal functions of the parts. It is then simply necessary to replace the cap 23 and the parts are ready for operation just as if the attachment were not present.

By providing a permanent fitting of this character, the necessary parts for cleanout purposes are sure to be had whenever needed, cannot become displaced, and are always in condition ready for almost instant operation, and it is obvious that by the use of a device of this character the bowl may be maintained in highly sanitary and effectively operating condition at all times.

I claim:

1. The combination with a toilet bowl having a siphon passage and a depending outlet channel, of a fitting anchored in the bowl approximately opposite the upper rear end of the siphon passage, including a cleanout rod movable into and through the said passage and normally pendent within the outlet channel, and a removable cover at the rear of the bowl normally housing the said fitting.

2. The combination with a toilet bowl having a siphon passage and a depending outlet channel, of a cleanout fitting including a plug fixed in the rear portion of the bowl approximately opposite the upper end of the siphon passage, a cleanout rod movably mounted in the plug for shifting into and out of the siphon passage and normally pendent within the outlet channel, and a cap threaded on the plug against the rear face of the bowl to normally close the fitting.

In testimony whereof I have affixed my signature.

AUGUST T. J. BAHR.