Nov. 26, 1935. M. F. WILLIAMS 2,022,265

WATER CLOSET FLUSH BOWL

Filed Nov. 20, 1934

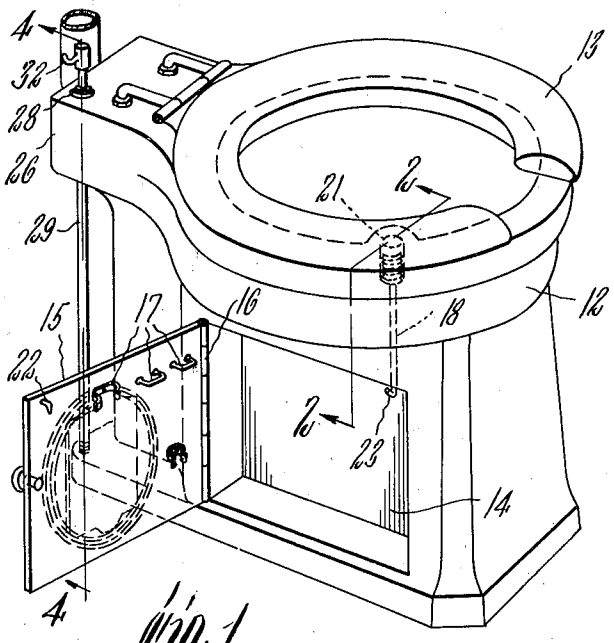

Fig. 1.

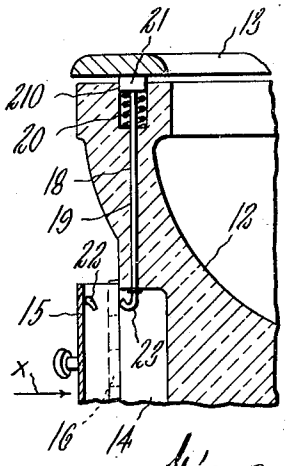

Fig. 2.

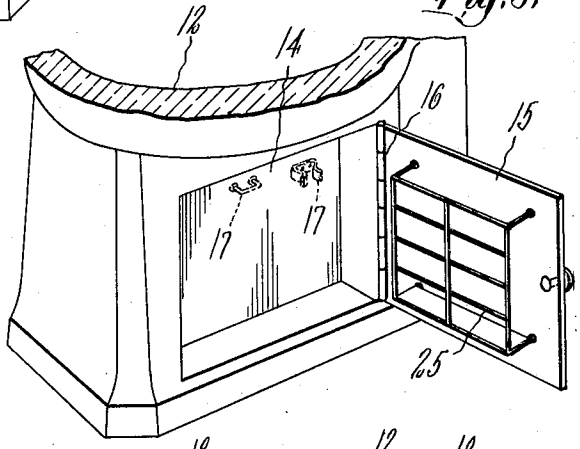

Fig. 3.

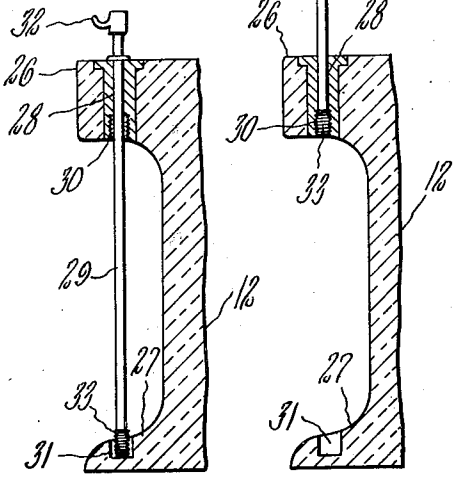

Fig. 4.

Fig. 5.

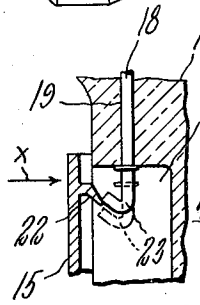

Fig. 6.

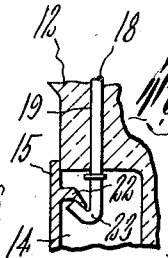

Fig. 7.

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Patented Nov. 26, 1935 2,022,265

UNITED STATES PATENT OFFICE

2,022,265

WATER CLOSET FLUSH BOWL

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Application November 20, 1934, Serial No. 753,841

8 Claims. (Cl. 4—253)

The chief object of this invention is to enable articles for personal use in bath rooms, such as hot water bottles, douche bags, catheters, bottles of disinfectant, and sanitary pads or napkins, to be stored for convenient accessibility in the outer portion of a water closet flush bowl, below the hinged seat thereof, instead of in a closet or cabinet more or less remote from the bowl.

Another object is to prevent access of children bent on mischief to articles thus stored.

Other objects will hereinafter appear.

Of the accompanying drawing forming a part of this specification,—

Figure 1 is a perspective view showing one side of a flush bowl embodying the invention.

Figure 2 is a section on the plane indicated by line 2—2 of Figure 1.

Figure 3 is a perspective view showing the opposite side of the flush bowl.

Figure 4 is a section on the plane indicated by the line 4—4 of Figure 1, showing a douche bag supporting standard associated with the flush bowl.

Figure 5 is a view similar to Figure 4, showing the standard raised to an operative position.

Figures 6 and 7 are fragmental sectional views illustrating the operation of the preferred door-locking means.

The same reference characters indicate the same parts in all of the figures.

In the drawing, 12 designates a water closet flush bowl, having the usual, or any suitable, seat 13 hinged at its rear portion to the bowl.

In carrying out my invention I provide the bowl with a receptacle for articles for personal use such as those named in the opening portion of this specification. Said receptacle includes an outwardly opening storage space 14 and a closure 15 therefor, said closure being preferably a door of chromium steel connected with the bowl by a spring hinge 16, which normally closes the door.

I provide means for locking the door in its closed position, said means being preferably organized as hereinafter described.

The receptacle is provided internally with means for supporting the contained articles. Said means may be organized to segregate said articles and permit convenient selection of the desired article. The supporting means may be provided by hooks 17, or other suitable devices, attached to the door and adapted to suspend several articles side by side, so that the articles may be moved into and out of the storage space by the door. The supporting means may be differently organized, as hereinafter described.

The preferred door locking means shown by Figures 1, 2, 6 and 7, comprises a vertical rod 18 movable vertically in a fixed guide 19 on the bowl, a spring 20 located in a socket in the upper portion of the bowl, and resiliently supporting the rod with its upper end, which is provided with a head 21, raised above a depression 210 in the top of the bowl, and in position to support the forward portion of the hinged seat 13 slightly raised above the bowl, so that downward pressure on the seat depresses the rod. The door is provided with a locking member 22, and the rod 18 with a complemental locking member 23. Said members are interengageable to lock the door by an upward movement of the rod, and are separable to unlock the door, by a downward movement of the rod.

When the door is swinging to its closed position, as indicated by the arrow x in Figure 2, and the rod 16 is raised by the spring, the locking member 23 on the rod is in the path of the locking member 22 on the door and arrests the movement of the door before it is fully closed, as shown by Figure 6. The forward end of the seat 13 and the rod 18 are then depressed to cause the member 23 to release the member 22, and permit the closing of the door. Pressure is then removed from the seat and the rod 18 is raised by the spring 20 to cause the member 23 to engage the member 22, as shown by Figure 7, and lock the fully closed door,

Assuming that the door is locked, and that the seat is depressed by a person sitting, or exerting muscular effort thereon, it will be seen that the depression of the seat causes the unlocking of the door so that access to articles in the storage space is permitted. To prevent the depression of the seat and the unlocking of the door by a young child, a spring 20 is provided having sufficient strength to resist any downward pressure on the seat that can be caused, for example, by the weight or the muscular effort of a child weighing about seventy-five pounds; hence the door can be unlocked only by the weight or muscular effort of a heavier and stronger person. Mischievous interference with the receptacle by an irresponsible child is therefore prevented.

I am not limited by the locking means provided by the rod 18 and spring 20, it being obvious that the door may be held in its closed position by a key operated lock.

I prefer to provide the bowl with two of the described receptacles, one at one side of the bowl, (shown by Figure 1), and the other at the oppo-

site side, (shown by Figure 3). In this instance the receptacle shown by Figure 3 is provided with a pocket 25, which is preferably a wire basket attached to the door of the compartment, and adapted to contain loose articles, such as sanitary napkins.

With the bowl may be combined a standard 29 vertically movable in a guide on the bowl, said standard having means at its upper end for supporting a douche bag taken from a compartment of the bowl, said guide and standard having means for releasably confining the standard in position to hold the bag so elevated above the bowl seat that the usual catheter associated with the bag can perform its function, the standard being movable to an inconspicuous depressed position behind the bowl when its use is not required.

The bowl is provided with two spaced apart rearwardly projecting extensions, or ears, 26 and 27, one above the other. The upper extension 26 is provided with a tubular bushing, the bore of which constitutes a guide 28 in which the standard 29 is vertically movable. The lower portion of said bore is enlarged and screw threaded to provide a tapped socket 30, (Figure 4). The lower extension 27 is provided with a plain socket 31. The standard 29 is provided at its upper end with a douche bag-supporting hook 32, and at its lower end with a screw threaded enlargement 33 adapted to engage the tapped socket 30 when the standard is raised, as shown by Figure 5. When the enlargement 33 is disengaged from the socket 30, the standard drops, and its enlargement 33 rests in the socket 31, the standard being thus located inconspicuously behind the bowl, and confined against lateral displacement.

It will be seen that the base 12 of the bowl includes a pedestal portion and a top portion overhanging the pedestal portion, the latter having two opposite side faces of relatively large area and proportioned to permit the formation therein of shallow recesses of correspondingly large area, each recess having a substantially vertical back wall offset inwardly from the external surface of the pedestal, and with top, bottom and end walls defining, on the external surface of the pedestal, the mouth of the recess.

It will also be seen that the door 15 hinged to the pedestal at one of the end walls and formed to close the recess mouth, is of correspondingly large area, so that the recess and door constitute a receptacle located wholly below and overhung by the base top and the seat, said receptacle being of suitable area to contain a desirable number of articles suspended from hanger means carried by the upper portions of the back wall and door.

I claim:

1. A water closet flush bowl comprising a base including a pedestal and a top overhanging the pedestal, a seat hinged to the top, the pedestal being provided with an outwardly opening recess having a substantially vertical back wall offset inwardly from the external surface of the pedestal, and with top, bottom, and end walls, defining a recess mouth on said external surface, a door hinged to the pedestal at one of the end walls and formed to close said mouth, said recess and door constituting a receptacle located below the seat and overhung by the base top, and formed to contain articles for personal use, and means for locking the door in its closed position.

2. A water closet flush bowl as specified by claim 1, the back wall of the recess being provided at its upper portion with means for suspending articles contained therein.

3. A water closet flush bowl as specified by claim 1, the forward end of the seat being normally held yieldingly raised above and depressible toward the base, the locking means including a locking member carried by the door and a complemental locking member movably connected with the base top, normally raised by a spring, and operable by the depression of the seat to unlock the door.

4. A water closet flush bowl having a receptacle located below its hinged seat and formed to contain articles for personal use, said receptacle including an outwardly opening storage space, a hinged door therefor, and means attached to the door and projecting from the inner side thereof for supporting the contained articles, and moving the same into and out of the storage space.

5. A water closet flush bowl having a receptacle located below its hinged seat and formed to contain articles for personal use, said receptacle including an outwardly opening storage space and a hinged door therefor, and door-locking means comprising a rod movable vertically in a fixed guide, and a spring normally supporting said rod with its upper end raised above the bowl, the rod supporting the forward portion of the hinged seat also raised above the bowl, so that downward pressure exerted on the seat depresses the rod, the door and rod being provided with door-locking members which are interengageable to lock the door by an upward movement of the rod, and separable to unlock the door by a downward movement of the rod.

6. A water closet flush bowl having two receptacles located below its hinged seat, and each formed to contain articles for personal use, each receptacle including an outwardly opening storage space and a hinged door therefor, one receptacle being provided internally with suspending means for segregating and supporting articles contained therein, the other receptacle being provided with a pocket for supporting other articles.

7. A water closet flush bowl as specified by claim 6, the said suspending means being attached to the door member of one receptacle, and the pocket to the door member of the other receptacle, so that the door is adapted to move said articles into and out of the storage space.

8. A water closet flush bowl provided with means for storing a douche bag and with spaced apart rearwardly projecting upper and lower extensions, the upper extension having a guide, and a screw threaded socket, and the lower extension a plain socket, aligned with the guide and the threaded socket; combined with a standard vertically movable in said guide, and provided at its upper end with means for supporting the douche bag, and at its lower end with a screw threaded portion engageable with the threaded socket to releasably confine the standard in position to hold the bag suitably elevated above the bowl seat, said threaded portion being loosely inserted in said plain socket when the standard is lowered from its operative position.

MERTON F. WILLIAMS.