H. A. CHRISTIAN.

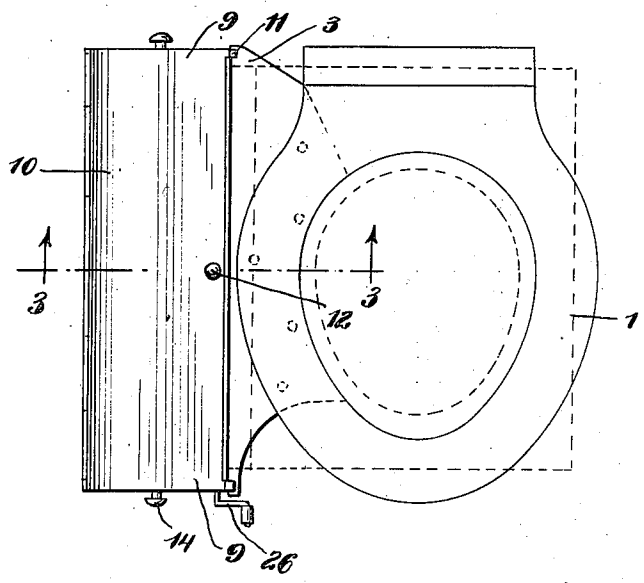
SANITARY TOILET SEAT.

APPLICATION FILED DEC. 12, 1919.

1,405,283. Patented Jan. 31, 1922.

3 SHEETS—SHEET 1.

Fig. 1.



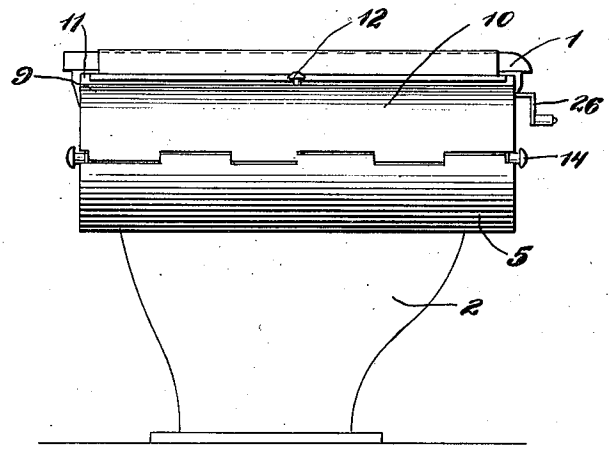


Fig. 2.

WITNESS:

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3 SHEETS—SHEET 2.

Fig. 3.

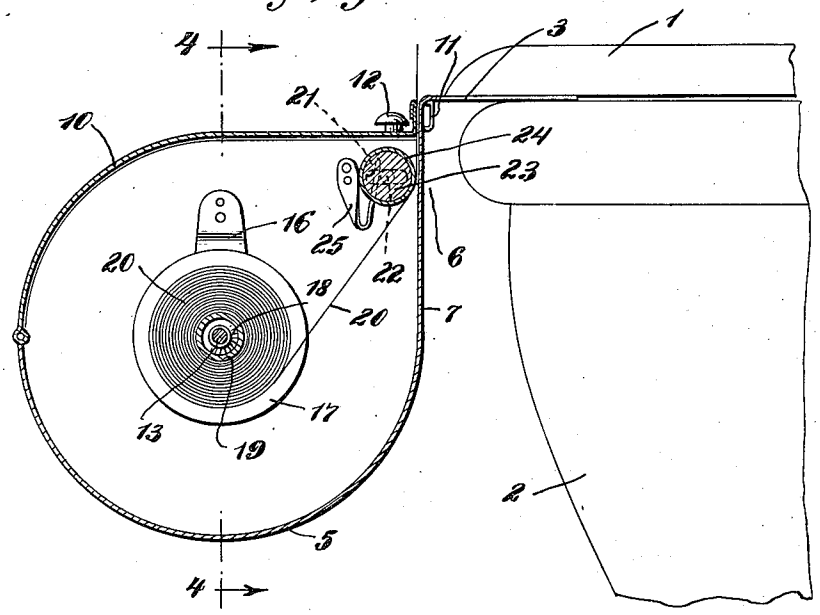
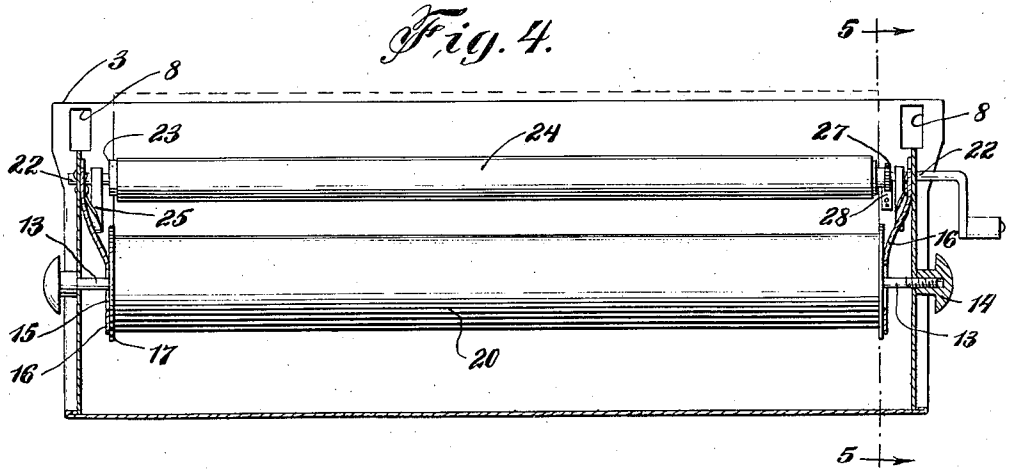


Fig. 4.



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3 SHEETS—SHEET 3.

Fig. 6.

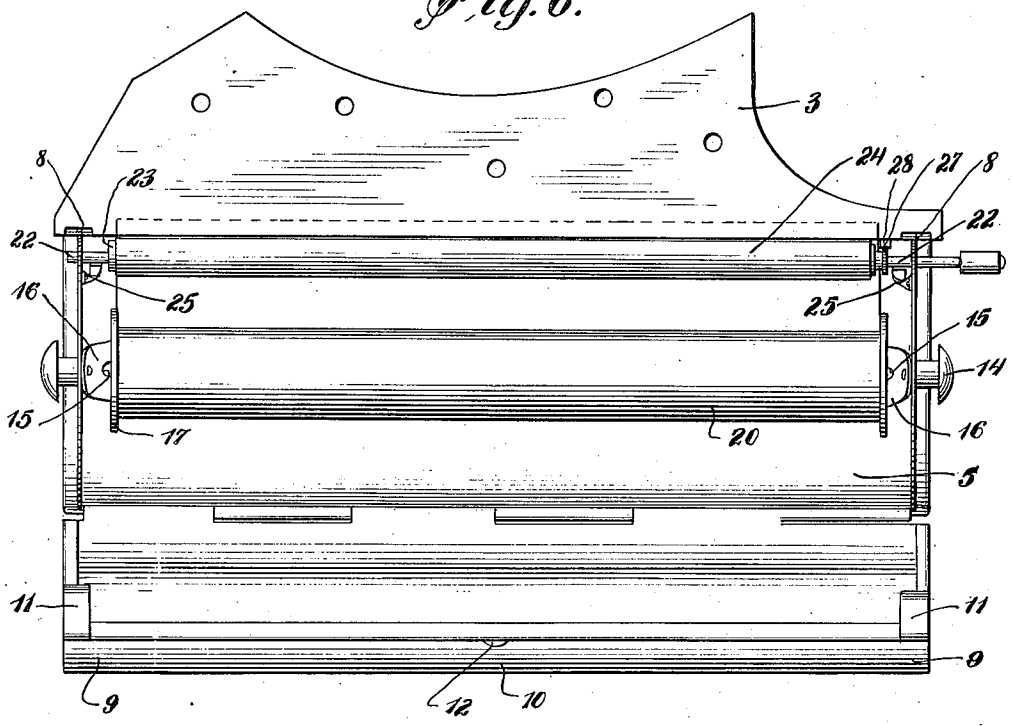


Fig. 5.

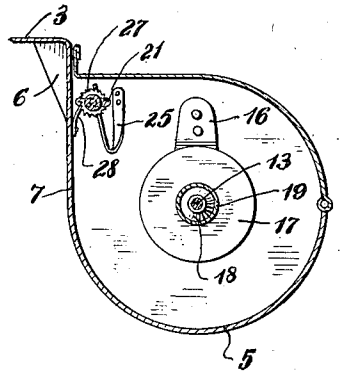
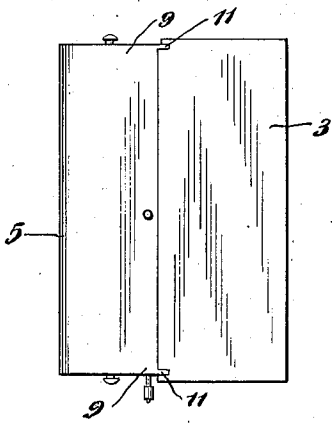


Fig. 7.



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UNITED STATES PATENT OFFICE.

HERBERT A. CHRISTIAN, OF VALLEJO, CALIFORNIA.

SANITARY TOILET SEAT.

1,405,283. Specification of Letters Patent. Patented Jan. 31, 1922.

Application filed December 12, 1919. Serial No. 344,471.

To all whom it may concern:

Be it known that I, HERBERT A. CHRISTIAN, a citizen of the United States, residing at Vallejo, in the county of Solano and State of California, have invented new and useful Improvements in Sanitary Toilet Seats, of which the following is a specification.

The present invention has reference to a sanitary toilet seat.

An object of the invention is to provide a toilet seat with a paper receptacle secured upon the under face of the seat but located to one side thereof, said receptacle having means therein but operated from the exterior thereof for unrolling a determined quantity of paper therethrough over the seat, the said paper having elliptical openings therein corresponding to the hole in the seat.

A further object of the invention is to produce an article of this character which may be easily and quickly attached to any ordinary construction of lavatory seats.

Other objects and advantages will present themselves as the nature of the invention is better understood, reference being had to the accompanying drawings, in which:

Figure 1 is a plan view illustrating the application of the improvement showing a sanitary paper covering applied to the seat in accordance with this invention.

Figure 2 is a front elevation of the device.

Figure 3 is a sectional view approximately on the line 3—3 of Figure 1.

Figure 4 is a sectional view approximately on the line 4—4 of Figure 3.

Figure 5 is a sectional view approximately on the line 5—5 of Figure 4.

Figure 6 is a plan view of the device with the cover of the receptacle open.

Figure 7 is a plan view of the improvement in the shape in which the same may be presented to the trade.

In the drawing the numeral 1 designates a toilet seat for a bowl 2.

My improvement contemplates the employment of a casing which is substantially circular in cross section but which has its outer edge provided with an extension in the nature of a ledge 3. This ledge, when the device is presented to the trade is in the nature of a flat plate, but when attached to the under face of the toilet seat the same is cut inwardly from its outer corners to correspond with the shape of the seat. The ledge is then secured to the under face of the seat in any desired or preferred manner, such as by screws as disclosed by the drawing. Between the ledge 3 and the casing 5 are reinforcing ribs 6.

The casing 5 is formed on a straight extension 7 upon the inner side of the casing and the said extension 7, as well as the ledge are provided with notches 8 adjacent to the ends thereof. These notches are adapted to receive spring substantially U-shaped clamps formed on the opposite end 9 of a cover 10 which is hingedly connected to the outer side of the casing, as at 11. The cover is provided with a knob 12 whereby the same may be swung to open or closed position.

Passing centrally through the alining openings in the ends of the casing is a rod 13. This rod has its ends threaded, and is of a slightly greater length than that of the casing. The threaded ends of the rods are engaged by the threads in the sockets of headed members 14, which contacting with the outer face of the ends of the casing hold the rod against longitudinal movement. The rod also passes through elongated openings 15 in spring plates 16 that have their upper ends secured to the sides of the casing. The plates are bowed inwardly of the casing from their connection therewith and are adapted to exert a frictional contact against metallic disks 17 provided upon the ends of plugs 18. These plugs are inserted into the ends of a cylindrical drum 19 upon which the sanitary paper 20 is wound. The plugs and disks are provided with openings through which the rod passes, and the frictional engagement of the spring members with the ends of the roll of paper prevents the free turning of the said paper on the drum therefor. It is, of course, to be understood that the paper may be wound upon a drum having integral ends, if desired.

Journaled in suitable bearing openings which are preferably in the nature of longitudinally disposed elongated slots 21 are the ends or trunnions 22 of a paper feed roller 23. This roller has an outer facing of compressible material 24, and each of the trunnions thereof is engaged by a spring 25 that is secured to the ends of the casing, so that the free or accidental turning of the roller will be prevented. In addition to this, the springs force the roller toward the straight inner face of the casing so that a proper frictional engagement between the roller and the paper will be thus afforded. One of the trunnions has its ends cranked as at 26, and

this crank serves as the operating handle for the roller. The handle is, of course, disposed adjacent the outer edge of the casing and adjacent to the outer end of the seat.

The roller has on one of its ends a ratchet wheel 27 which is engaged by a spring pawl 28 secured upon the front face of the casing whereby the roller may be turned in one direction only.

The sanitary or antiseptic paper provides a single sheet which may be divided into a number of separate small sheets by lines of perforations, each of the small sheets being centrally provided with a round or elliptical opening corresponding to the opening in the toilet seat. It will be apparent that by operating the crank or handle end of the feed roller the paper will be fed through a space provided between the referred to straight front wall of the casing and the lip at the end of the cover or closure therefor so that one of the sheets 29 may be properly arranged over the seat. After use this sheet is detached, placed in the bowl and flushed in the sewer in the usual manner. It is obvious that the lipped end of the cover provides a straight edge whereby the sheet 29 may be severed from the remainder of the antiseptic paper.

Having thus described the invention, what is claimed as new, is:—

1. A device of the class described comprising a casing having elongated aligned slots therein adjacent to its straight inner edge, a roller mounted in the elongated slots in said casing, spring means secured to said casing for controlling the rotation of said roller and adapted to force said roller toward the straight inner edge of said casing, a cover hingedly connected to the outside of said casing and having an upstanding flange cooperating with the straight inner edge of said casing to form a feed opening and an operating handle secured to said roller exteriorly of the casing.

2. A device of the class described comprising a casing having elongated aligned slots therein adjacent to its straight inner edge, a roller mounted in the elongated slots in said casing, a ratchet wheel secured to one end of said roller, a spring pawl secured to the front face of the casing and adapted to engage said ratchet wheel, spring means secured to said casing and adapted to force said roller toward the straight inner edge of said casing, a cover hingedly connected to the outer side of said casing and having an upstanding flange cooperating with the straight inner edge of said casing to form a feed opening and an operating handle secured to said roller exteriorly of the casing.

In testimony whereof I affix my signature.

HERBERT A. CHRISTIAN.