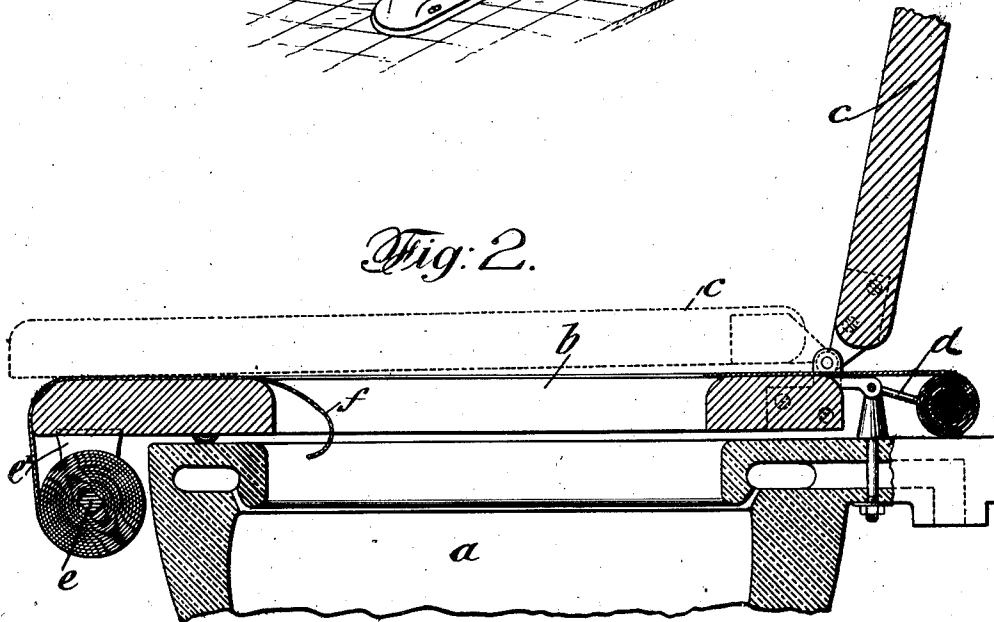
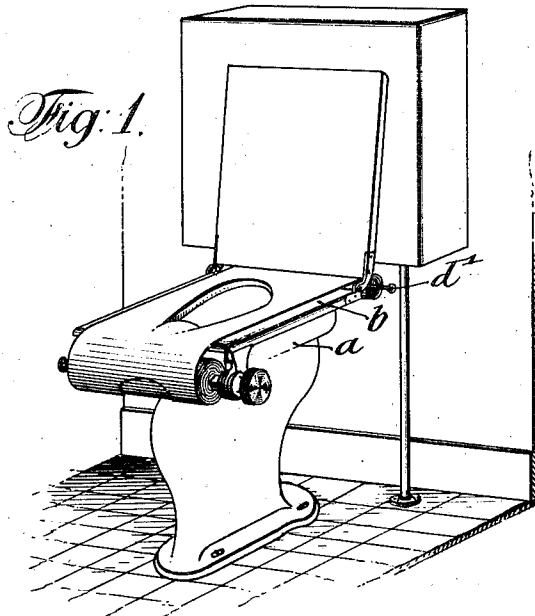


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ATTACHMENT FOR WATER CLOSET SEATS.
APPLICATION FILED FEB. 7, 1911.

1,030,720.

Patented June 25, 1912.

2 SHEETS-SHEET 1.



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1,030,720.

2 SHEETS—SHEET 2.



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ATTACHMENT FOR WATER-CLOSET SEATS.

1,030,720.

Specification of Letters Patent.

Patented June 25, 1912.

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To all whom it may concern:

Be it known that I, CHARLES DE QUILLFELDT, a citizen of the United States of America, residing in Amityville, in the county of Suffolk and State of New York, have invented certain new and useful Improvements in Attachments for Water-Closet Seats, of which the following is a specification.

This invention relates to an improved attachment for water-closet seats by which a sheet of toilet paper is placed over the seat for use in public or semi-public places, the sheet being unrolled and provided with an opening corresponding to the opening of the seat and capable of being removed so as to supply a new covering sheet to the seat; and for this purpose the invention consists of a toilet paper attachment for water-closet seats, which comprises a suitably supported round mandrel at the rear of the seat for supporting a roll of toilet paper corresponding to the width of the seat, and a square mandrel supported in brackets below the front edge of the seat and adapted for winding up the seat-covering toilet paper between each use of the toilet, the toilet paper having one end provided with a paper shell that is slipped over the round rear-mandrel of the seat and the other end of the paper being provided with a square shell which is applied on the square winding-up mandrel so as to permit the rolling up of the seat-covering paper on the front mandrel or shaft and the unwinding of the same from the rear roller, the square front mandrel being provided with a knurled hand-wheel or button for turning the same and with means for locking the mandrel to the bracket at the outer end of the roll, as will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a perspective view of a water-closet with my improved covering toilet paper attachment for the seat; Fig. 2 is a vertical longitudinal section of the same, showing the cover in open position; Fig. 3 is a plan-view of Fig. 1; Fig. 4 is a vertical transverse section of the roll of toilet paper used with attachment; Fig. 5 is a detailed section of the locking-device between the shaft or mandrel and the bracket at the outer end of the toilet paper roll, and Figs.

6 and 7 are sectional views taken respectively on the lines 6—6 and 7—7 of Fig. 5.

Similar letters of reference indicate corresponding parts throughout the different figures of the drawings.

Referring to the drawings, *a* represents the bowl of the water-closet toilet, *b* the seat which is hinged to the rear portion of the bowl, and *c* is the cover which is hinged to the rear end of the seat. The pivot pintles of the seat are formed into brackets *d*, provided with eyes *d'* in which is a round rear mandrel *d''* on which the toilet paper is placed. The bracket has a certain resiliency for permitting the removal of the eyes from the end of the mandrel when placing a new roll of seat-covering paper on to the same. The pivot-pins between the seat and the cover are made in the form of detachable screws or pins, so as to permit the removal of the cover and the spreading of the toilet paper over the seat for applying it to a square front mandrel *e* which is supported in brackets *e'* attached to the underside of the seat at the front end of the same. The seat and cover are made of oblong shape, so as to permit the convenient attachment of the brackets and front mandrel to the underside of the seat. A roll of toilet paper *f* of sufficient length is made up specially for the attachment in the form of multiples of seat-covering sections, each section being provided with the usual opening *f'* corresponding to the opening in the seat and flap *f''* at the front end of each opening. The inner end of the toilet paper is formed of a stiffened shell or core *f'''*, while the outermost end is provided with a shell or core *f''''* which is made square at its inner interior so as to permit the passing of the square front mandrel *e* through the same and permit the winding up of the toilet paper on the front shell as the paper is gradually moved over the seat. The square mandrel is provided at its end with a knurled button *g* for the convenient turning of the mandrel and shell and moving one seat-covering section of toilet paper after the other over the seat. Instead of the knurled button any suitable manipulating devices such as a hand-wheel or crank may be used. The front mandrel is locked to the bracket by a suitable locking-device *i* so as to prevent the paper from getting detached therefrom at

the outer end of the toilet paper roll. By releasing the locking-device the mandrel can be detached and the shell *f*⁴ of a new toilet paper roll applied thereto whenever one roll is used up.

The locking device *i* comprises a hooked stop *e*³ on the bracket *e*¹, and a movable finger *k* carried on a sleeve *k*¹ rotatable in the bracket *e*¹. Within the sleeve is rotatably disposed the enlarged cylindrical bearing portion *g*¹ of the knurled button *g* to which is received the square mandrel *e* and which is prevented from being removed from the sleeve *k*¹ by any convenient means, as for instance, a collar *m* secured to the mandrel *e* and of the same diameter as the sleeve *k*¹. The bracket *e*¹ is provided with diametrically disposed notches *e*⁴ adapted to permit the passage of the screw lugs *n* screwed into the bearing portion *g*¹ and adapted to engage the inner face of the bracket *e*¹. These lugs are disposed between the notches *e*⁴ when the finger *k* is in the position shown in Fig. 6 and by the dotted lines of Fig. 7, thus preventing the removal of the knurled button and with it the square mandrel *e*.

When it is desired to remove the square mandrel the finger is turned to the position of the full lines of Fig. 7, thus permitting the registering of the lugs *n* with the notches *e*⁴ and the passage of the lugs *n* through the notches *e*⁴. The button *g* and the square mandrel are held together by a small square pin *o*.

The improved toilet paper attachment for water-closets has to be furnished together with the seat and cover, so as to be attached to water-closets in public or semi-public places. A number of toilet paper-rolls are supplied at the same time, one being attached to the rear mandrel and passed over the seat with the first section in position thereon upon which the square shell at the outer end of the roll is placed in position on the square front mandrel so as to form the front roller on which the paper is gradually wound up as the same is consumed by use. A new section is moved over the seat by turning the front roller. When the entire roll is used up the roll is removed from the mandrels at both the front and rear part of the seat and a new roll placed in position on the rear and front mandrels by removing the rear mandrel, placing it through the in-

ner shell or core of the roll and then replacing it in position in the rear-brackets, removing the cover of the seat, pulling the first section of the roll over the seat and then passing the square mandrel through the outer shell and placing it in position in the brackets under the front end of the seat and locking the mandrel to the bracket so that the toilet paper attachment is in position for use, a new section being supplied after each use of the closet.

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

1. A toilet paper attachment for water-closet seats, comprising brackets at the rear-end of the seat, a rear-mandrel supported by said brackets and adapted to receive a roll of toilet-paper, brackets at the underside of the front part of the seat, a front-mandrel supported by said front-brackets, means for applying the front end of the roll to the front-mandrel, a button for turning the front-mandrel, means for locking the button to one of the front-brackets, and means for releasing the button therefrom for connecting a new roll to the front-mandrel.

2. A toilet paper attachment for water-closet seats, comprising brackets at the rear-end of the seat, a rear-mandrel supported by said brackets and adapted to receive a roll of toilet-paper, brackets attached to the underside of the front part of the seat, one of said brackets having recesses at diametrically opposite points, a front-mandrel supported in said front-brackets, means for applying the front-end of said roll to the front-mandrel, a button attached to the front-mandrel for turning the same and feeding the toilet-paper over the seat, a sleeve on the shank of the button provided with screw-studs at diametrical points for interlocking with the recesses of the adjacent bracket and for turning the same and placing it into locking or releasing position with the bracket.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

CHARLES DE QUILLFELDT.

Witnesses:

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