

O. A. BERGER.
TOILET SEAT ATTACHMENT.

APPLICATION FILED JAN. 8, 1909. RENEWED DEC. 27, 1909.

949,562.

Patented Feb. 15, 1910.

2 SHEETS—SHEET 1.

Fig. 1.

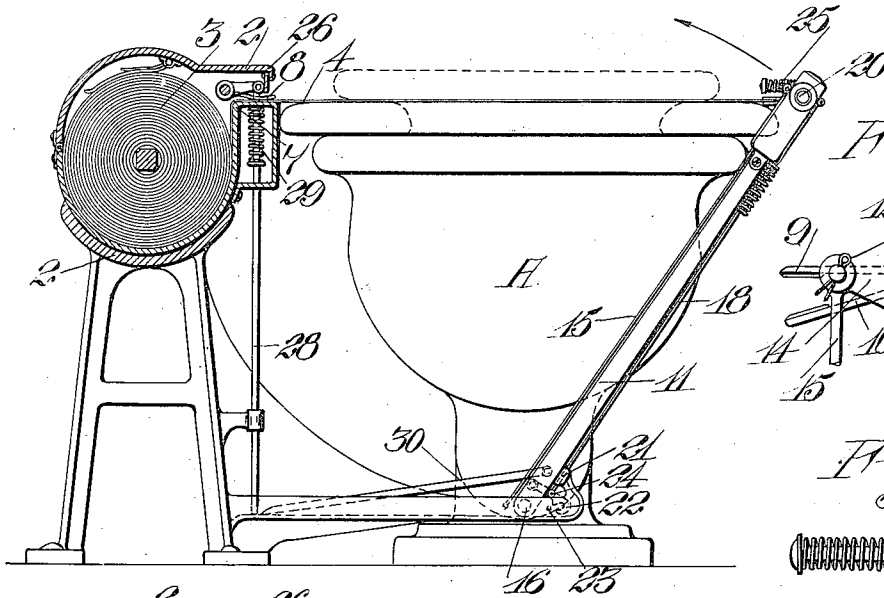


Fig. 3.

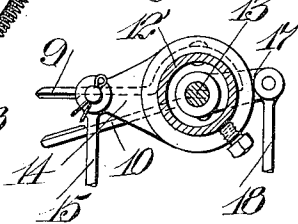


Fig. 4.

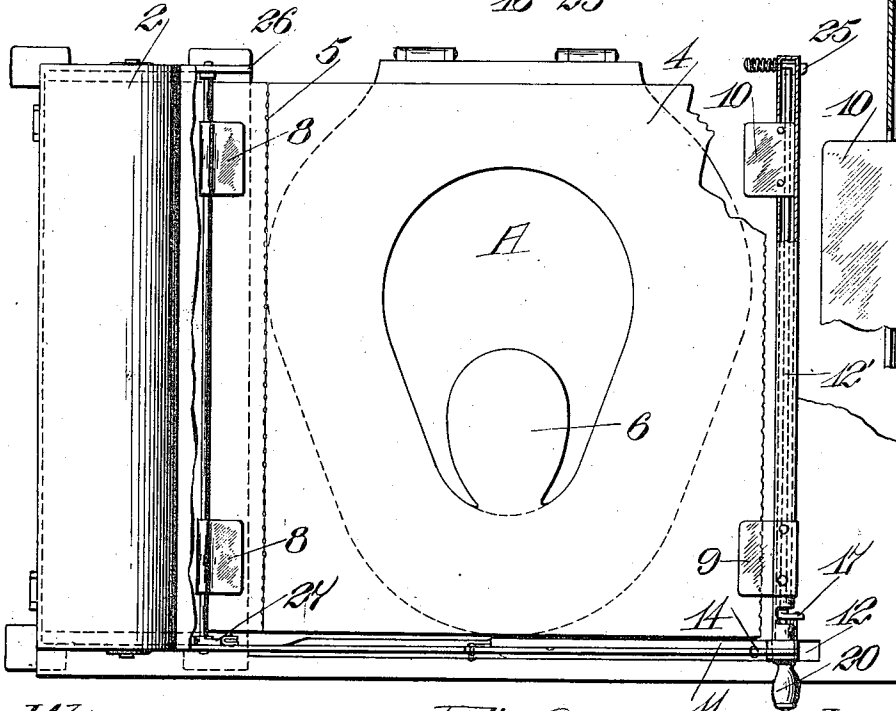
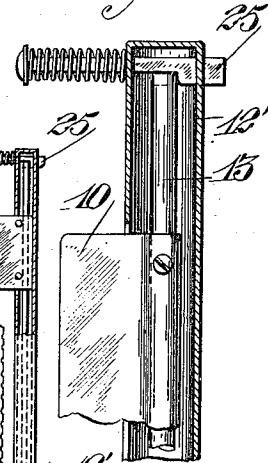


Fig. 2.

Witnesses.

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2 SHEETS—SHEET 2.

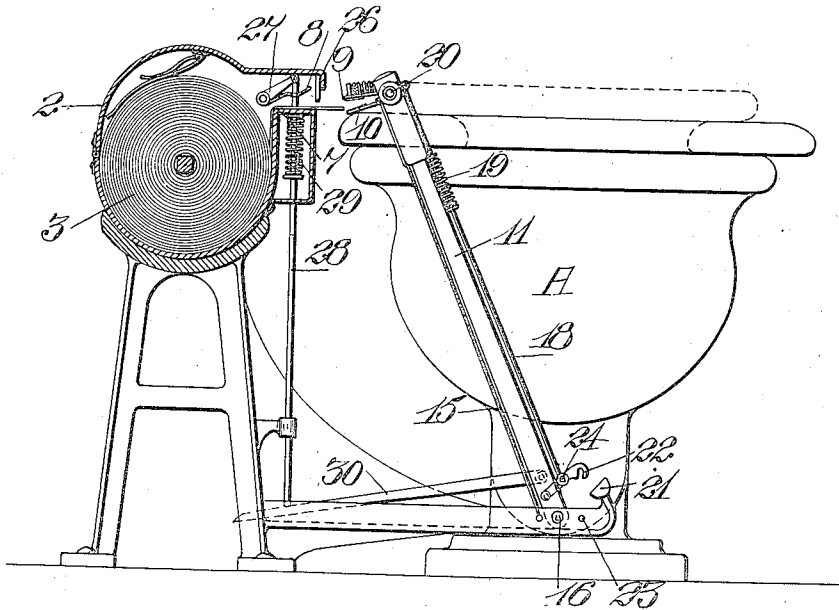


Fig. 5.

Fig. 6.

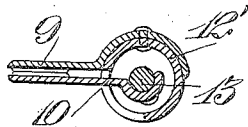


Fig. 7.

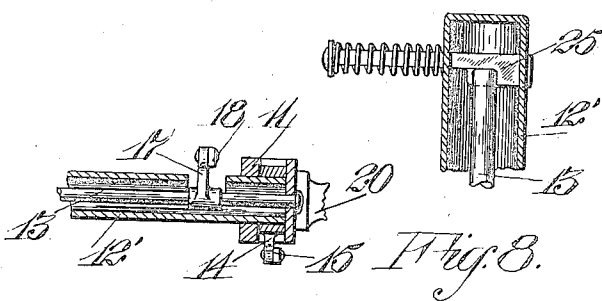
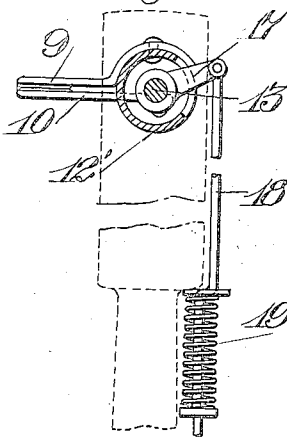


Fig. 9.

Witnesses:
Flashing
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UNITED STATES PATENT OFFICE.

OTTO A. BERGER, OF OAKLAND, CALIFORNIA.

TOILET-SEAT ATTACHMENT.

949,562.

Specification of Letters Patent. Patented Feb. 15, 1910.

Application filed January 8, 1909, Serial No. 471,283. Renewed December 27, 1909. Serial No. 535,149.

To all whom it may concern:

Be it known that I, OTTO A. BERGER, citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented new and useful Improvements in Toilet-Seat Attachments, of which the following is a specification.

My invention relates to a toilet-seat attachment, and pertains especially to a mechanism for holding, feeding, and spreading paper over the seat for protective purposes.

The invention consists of the parts and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a front elevation showing the lever in the extended position and the seat covered. Fig. 2 is a plan view of same. Fig. 3 is a section of the sleeve and rod, showing the crank-arms connected. Fig. 4 is a longitudinal section of the sleeve arm, showing the spring catch and rod. Fig. 5 is a view similar to Fig. 1, showing the lever approaching to grip the paper. Fig. 6 is a section of the grippers. Fig. 7 is another section showing the inner rod crank-arm connection. Fig. 8 shows the position of the spring catch when the grippers are open. Fig. 9 is a longitudinal section of the sleeve and rod, showing the cranks and levers connected.

A represents a toilet-seat of any description, and to which the invention is applicable. Arranged at one side of the seat is a casing 2 of suitable description, designed to hold a specially prepared roll 3 of paper or fabric. Preferably this roll comprises a series of detachably connected sections, as 4, the roll being perforated at intervals, as represented at 5, so that a section can be easily torn off; and each section is cut out in an appropriate manner, as represented at 6. The paper feeds out through the case or box 2 and over a ledge 7 and beneath the spring-actuated clamp members 8; an edge of the sheet or web of protective material ordinarily projecting outward far enough so as to be readily engaged by the grippers 9—10 by which the web is drawn into operative position over the seat. This gripping and carrying means comprises the following instru-

mentalities: 11 is a lever suitably fulcrumed below the seat, and suitably housed in, except for a slot 12 in the top of the housing, by which the lever may have an oscillating movement at right angles to, and toward and from the roll. The paper grippers 9—10 are carried by the oscillating lever 11, and are operated to close automatically when the arm is swung to its limit of movement toward the roll, or the feed side of the seat, and grip the paper so that a succeeding movement of the arm outward away from the roll will operate to unwind the requisite quantity of paper from the roll; the clamp members 8 having been released in a manner shortly to be described. One set of grippers 9 is carried on a sleeve 12', and the other set of grippers or jaws 10 is carried on a rod 13 concentric with the sleeve. The sleeve is turnably mounted on the arm 11, the outer end of the sleeve carrying a crank arm 14 connected by a link 15 with the stationary part of the apparatus, and proximate to the fulcrum 16 of lever arm 11. The object of thus mounting the arm and connecting it by the link 15 is to keep the jaw members 9 as close to the seat as possible in the oscillating movements of the arm 11. The under side of the sleeve is cut out so as to permit of the attachment of the grippers 10 to the rod 13. Also there is connected to the rod 13 an arm 17 to which a link 18 is attached or a spring 19 acts on the link normally to press the jaws 9—10 together. The manual opening of the jaws 9—10 is effected by means of a handle 20 on the rod 13. The outward movement of the arm 11 away from the roll is limited by a suitable stop or rubber buffer 21, and the accidental return of the arm toward the roll after stretching the paper or other protective material is limited by suitable means, as the dog 22 pivoted to the arm and engaging a suitable catch 23. The link 18, on which the spring 19 acts to close the jaws 9—10, extends downward and connects at 24 with the dog, so that when the handle 20 is turned to open the jaws it will also rise up on the rod or link 18 and trip the latch 22, so as to allow the arm 11 to swing inward again toward the roll. Whenever the jaws are thus opened, a spring catch 25

at the end of the sleeve is adapted to swing inward and engage a slot in the rod and hold the jaws open until they are swung in to grasp the sheet of paper, whereupon this catch 25 strikes an abutment 26, releasing the jaws and allowing them to grip the paper, so that on the next outward movement of the arm the paper will be drawn over the seat. As the arm reaches its limit of outward movement away from the roll and the paper is properly spread over the seat, the clamp members 8 are released so as to grip the paper as it issues from the box 2 and permit the pulled out section to be detached when desired. A withdrawn section of the paper is detached by a simple, quick, outward jerk on the arm before releasing the section by the jaws.

The clamps 8 are operated by the following means: The rod on which these clamps are fixed carries a little crank arm 27 to which a rod 28 connects, and a spring 29 acts on this rod to tend to close the clamps 8. This rod extends down and is engaged by a cam bar 30 pivoted to the arm 11. The rod 28 rests on the cam bar 30 and upholds the clamps and keeps them open at all times, except when the arm 11 is swung to its outermost movement away from the roll. It is at that time that the rod 28 rides off of the cam bar 30 and allows the clamps to close and grip the paper. The moment the arm swings in again toward the roll, the rod 28 rides up over the end of the bar 30 and lifts the clamps.

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

1. The combination with a toilet-seat, of a roll of paper suitably mounted on one side, and a carriage movable toward and from the roll, said carriage having gripping means to engage an edge of the paper to draw it across the seat.

2. The combination with a toilet-seat, of a roll of paper suitably mounted on one side, and a carriage movable toward and from the roll, said carriage having gripping means to engage an edge of the paper to draw it across the seat, and said carriage including an oscillating arm.

3. The combination with a toilet-seat, of a roll of paper mounted at one side thereof, and a carriage movable over the seat and toward and from the roll, said carriage having spring-actuated grippers engageable and disengageable with the paper on the roll.

4. The combination with a toilet seat, of a roll of paper mounted at one side thereof, a carriage movable over the seat and toward and from the roll, said carriage including a rockable arm and spring actuated grippers thereon adapted to engage and disengage

with the paper on the roll, means for holding the grippers open, and means for closing the grippers as they approach the roll.

5. The combination with a toilet seat and a roll of paper mounted at one side thereof, of a paper-feeding mechanism comprising a suitable support for the roll, a carriage movable toward and from the roll, said carriage including a rockable arm and spring-actuated grippers on the arm, means for holding the grippers open, means for closing the grippers as they approach the roll, and clamp members independent of the grippers and operated by the arm for gripping the strip unwound from the roll.

6. The combination with a toilet seat and a roll of paper mounted at one side thereof, a carriage movable over the seat and toward and from the roll, said carriage including an oscillating arm, spring actuated grippers carried by the arm, a handle for opening the grippers, means for maintaining the grippers open, and means to release the grippers when the arm swings toward the roll.

7. The combination with a toilet seat, and a roll of paper mounted at one side thereof, of means for suitably supporting the roll, an oscillating arm movable toward and from and at right angles to the roll, spring-actuated grippers carried by the arm, a handle for opening the grippers, means for maintaining them open, means to release the grippers when the arm swings toward the roll, and means to clamp the paper between the grippers when the arm swings away from the roll.

8. In paper-feeding mechanism, the combination of means for suitably supporting a roll of paper, a rockable arm movable toward and from the roll, a sleeve turnably carried by the arm and extending parallel with the roll, an independently rockable rod in the sleeve, cooperating gripper members on the sleeve and rod, and means for operating said grippers.

9. In paper-feeding mechanism, the combination of means for suitably supporting a roll of paper, a rockable arm movable toward and from the roll, a sleeve turnably carried by the arm and extending parallel with the roll, an independently rockable rod in the sleeve, cooperating gripper members on the sleeve and rod, means for operating said grippers, detent means to limit the return movement of the arm when swung outward from the roll, and means connected with the grippers to operate said detent member.

10. In paper-feeding mechanism, the combination of means for suitably supporting a roll of paper, a rockable arm movable toward and from the roll, a sleeve turnably carried by the arm and extending parallel

with the roll, an independently rockable rod
in the sleeve, cooperating gripper members
on the sleeve and rod, means for operating
said grippers, means to clamp the paper be-
5 tween the grippers and the roll when the
arm is swung outward, and means connected
with the arm to operate said clamping
means.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit- 10
nesses.

OTTO A. BERGER.

Witnesses:

A. K. DAGGETT,
R. P. BURNS.