

W. G. WINANS.
ATTACHMENT FOR HINGED SEATS.
APPLICATION FILED MAY 16, 1910.

985,239.

Patented Feb. 28, 1911.

2 SHEETS—SHEET 1.

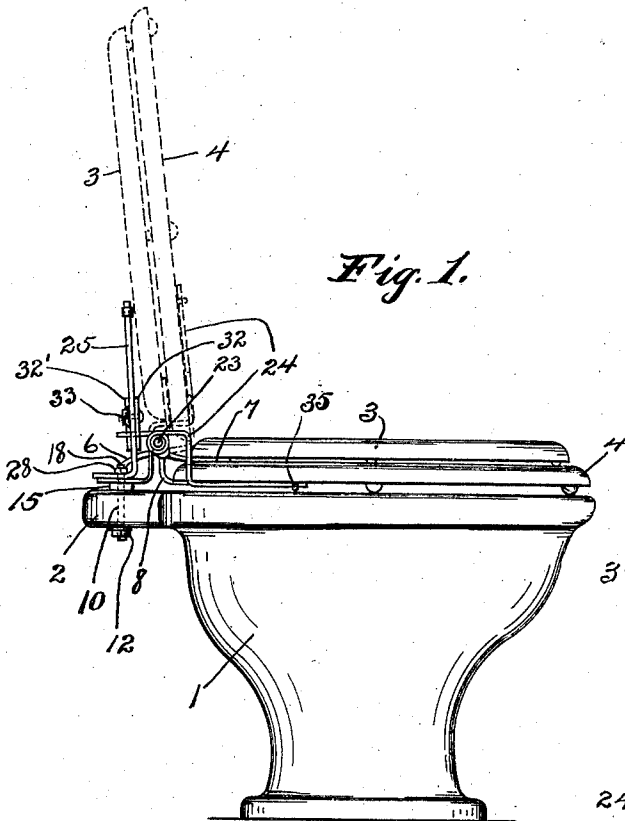


Fig. 1.

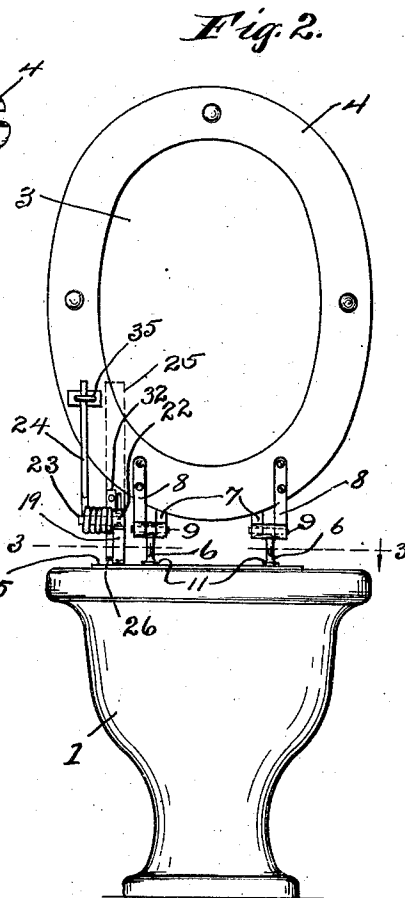


Fig. 2.

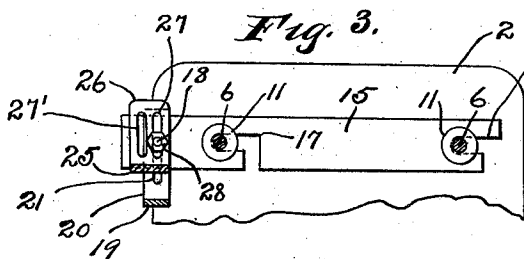


Fig. 3.

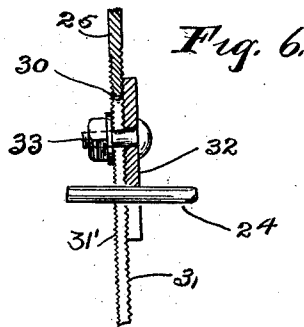
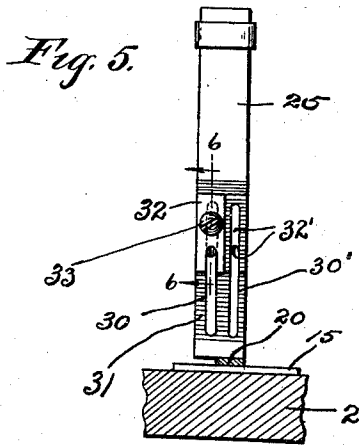
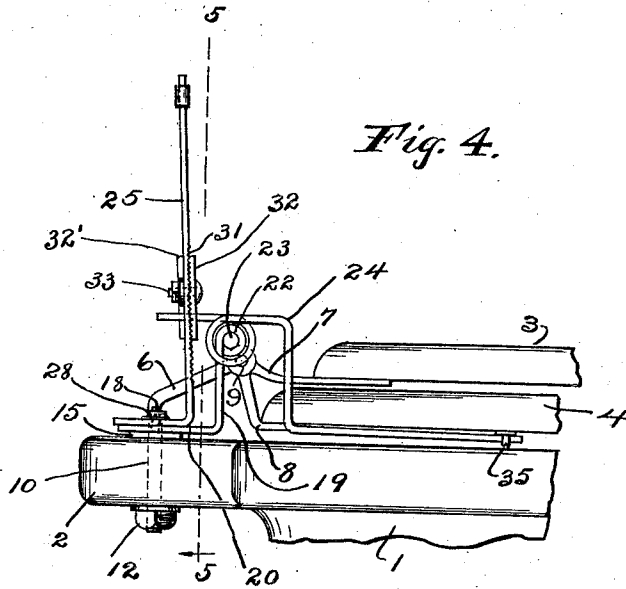
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his Attorneys.

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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR HINGED SEATS.

985,239.

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To all whom it may concern:

Be it known that I, WESLEY G. WINANS, a citizen of the United States of America, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Attachments for Hinged Seats; and I hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

This invention relates to new and useful improvements in attachments for hinged seats for holding the seats in a vertical position when not in service.

The object of this invention is to provide an attachment of this character which will be durable, which will be inconspicuous and occupy but a small space and which can be readily and easily secured to the seat support without altering the hinge connection between the seat support and the seat.

A further object of my invention is to provide a device of this character which can be adjusted to suit the weight of the seat to which it is to be attached.

My invention, therefore, consists in the features of construction and combination of parts as described in the specification, pointed out in the claims and illustrated in the accompanying drawings.

In the accompanying drawings I have shown my device applied to a closet bowl and Figure 1 is a side elevation of a closet bowl, seat and cover provided with my attachment, the raised position of the seat and cover being shown in dotted lines. Fig. 2 is a front elevation of the same with the seat in a vertical position. Fig. 3 is a section on line 3—3, Fig. 2. Fig. 4 is an enlarged detail view of a portion of the bowl, with the seat and cover down, showing the device in side elevation. Fig. 5 is a section on line 5—5, Fig. 4. Fig. 6 is a section on line 6—6, Fig. 5.

Again referring to the drawings 1 denotes a closet bowl of the common form having at the rear thereof a projection or shelf 2. The cover and seat are indicated by 3 and 4 respectively. The said cover and seat are operatively secured to the bowl by hinging devices of the usual construction. These

hinging devices comprise a pair of hinge members 6 which are mounted on the shelf 2 of the bowl, a pair of hinge members 7 which are secured to the cover in any suitable manner and a pair of hinge members 8 which are secured to the seat in any suitable manner. The hinge members 7 on the cover and the hinge members 8 on the seat are connected to the hinge members 6 on the bowl by hinge pins 9 in the usual manner. The hinge members 6 which are mounted on the bowl are provided with shank portions 10 which extend through the shelf 2 and on each shank portion 10 near its upper end is arranged a rigid collar 11. The lower end of each shank portion 10 is screw-threaded and provided with a nut 12 by means of which the collar on the shank portion can be drawn tight against the upper surface of the shelf 2, thus firmly holding the members in position.

My attachment comprises a narrow plate 15 which is adapted to rest on the upper surface of the shelf 2 of the bowl. The plate 2 is provided with a notch 16 at one end and with an L-shaped slot 17 which is spaced from the end slot 16 the same distance as the distance between the shank portions of the hinge members 6. The method of securing this plate to the bowl is as follows:—The nuts on the ends of the shank portions 10 of the hinge members 6 are loosened so that the shank portions can be brought up sufficiently to permit the plate 15 being inserted between the collar 11 thereon and the upper surface of the shelf 2, one of the shank portions being received in each of the slots 16 and 17 and the nuts on the ends of the shanks are then drawn tight and the plate 15 is securely held in position. Near one end of the plate 15 is mounted a screw-threaded stud or bolt 18. On the end of the plate 15 is mounted a small angle-shaped bracket or spring supporting member 19 having a foot piece 20 provided with a slot 21 which receives the stud 18. The bracket 19 is provided at its upper end with a socket 22 which receives a small shaft or pin 23. This shaft or pin 23 serves to support a coil spring 24 which will be more fully described hereinafter. On the foot piece of the said bracket 19 is arranged a

member 25 which forms a stop for the seat and cover when in their raised position and also carries the adjusting means for regulating the tension of the spring 24. This member 25 has a foot piece 26 which has a slot 27 which receives the afore-mentioned stud 18, and the said foot piece 26 and the said foot piece 20 are clamped down on the plate 15 by means of a nut 28 which engages the said stud 18. In the member 25 is formed a vertical slot 30 and the front face of said member in proximity to said slot is serrated or corrugated, as shown at 31. A small plate 32 is arranged on the front face of said member 25 so as to extend across the said slot 30 and is secured to said member by means of a bolt 33 and the said plate 32 is serrated to correspond to the serrations on the said member 25. One end of the spring 24 is arranged to pass through the said slot 30 in the member 25 and the other end of the spring is carried under the seat 4 and is operatively connected thereto by means of a strap 35.

The arrangement and operation of the device is as follows:—In mounting my device in its operative position the plate 15 is secured on the bowl as before described and the spring carrying member and the stop-forming member are arranged on the end of said plate 15 with the stud 18 extending through the slots in the foot pieces of said members and the said members are then adjusted back and forth to bring said members into their proper relation with the hinge members on the seat. The spring 24 is then arranged on the pin 23 and one end is passed up under the strap 35 on the under side of the seat and the other end of said spring is inserted in the slot 30 and the plate 32 is then adjusted up and down on the member 25 according to the weight of the seat, that is, if the seat is heavy the said plate is moved down so as to increase the tension of the spring, while if the seat is light the plate 32 is moved up so as to lessen the tension of the spring.

In some constructions the hinging arrangement will require that the stop-forming member be set a considerable distance to the rear of the seat and to accommodate this arrangement a second vertical slot 30' is formed in the stop-forming member 25 and the rear face of the said member is serrated, as shown at 31', and a plate 32' is provided extending across the said slot 30', and the whole member is reversed so that the rear face of the member is toward the seat and the end of the spring 23 is then slipped through the strap 35.

What I claim is,—

1. The combination with a support and a seat hinged thereto, of a bracket mounted

on said support, a member mounted on said support and having a vertically arranged slot and a coil spring supported by said bracket, one end of said coil spring extending into the said slot in said member and the other end of said coil spring engaging the under side of the seat.

2. The combination with a support and a seat hinged thereto, of a bracket mounted on said support, a member mounted on said support and having a vertically arranged slot, a plate slidably adjustable on said member and extending across said slot and a coil spring supported by said bracket, one end of said coil spring extending into said slot in said member below said plate and the other end of said coil spring engaging the under side of said seat.

3. The combination with a support and a seat hinged thereto, of a bracket mounted on said support at the rear of said seat and adjustable toward and away from said seat, a member mounted on said support at the rear of said seat and adjustable toward and away from said seat, said member being provided with a vertical slot, a plate slidably mounted on said member and extending across said slot and a coil spring supported by said bracket, one end of said coil spring extending into said slot in said member below said plate and the other end of said spring engaging the under side of said seat.

4. The combination with a support and a seat hinged thereto, of a bracket mounted on said support, a member mounted on said support and having a vertically arranged slot, a pin supported by said bracket and a coil spring mounted on said pin, one end of said coil spring extending into said slot in said member and the other end of said coil spring engaging the under side of the seat.

5. The combination with a support and a seat hinged thereto, of a plate secured to said support at the rear of said seat, a bracket having a foot piece provided with a slot arranged on the end of said plate, a stop-forming member having a foot piece provided with a slot mounted on the foot piece of said bracket, a screw-threaded stud extending up from said plate through the slots in the foot piece of said bracket and said stop-forming member, a nut arranged on the upper end of said stud, a plate slidably mounted on said stop-forming member, a pin mounted on said bracket, and a coil spring arranged on said pin, one end of said coil spring being arranged to engage the lower edge of said plate and the other end of said spring being arranged to engage the under side of said seat.

6. The combination with a support and a seat hinged thereto, of a bracket mounted

on said support, a member mounted on said support in proximity to said bracket, a device slidably mounted on said member and a coil spring supported by said bracket and
5 having one end extending under said seat and the other end extending into engagement with said slidably mounted device.

In testimony whereof, I sign the foregoing specification, in the presence of two witnesses.

WESLEY G. WINANS.

Witnesses:

VICTOR C. LYNCH,
N. L. McDONNELL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
