

(No Model.)

W. G. VOLLMER.
CLOSET SEAT.

No. 527,821.

Patented Oct. 23, 1894.

Fig.1

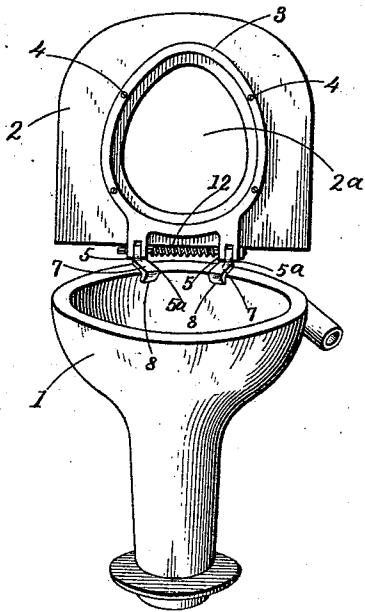


Fig.2

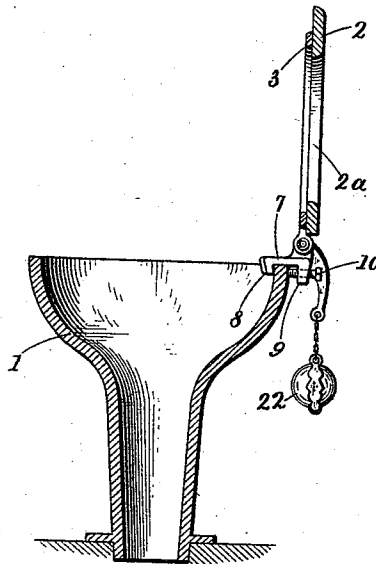
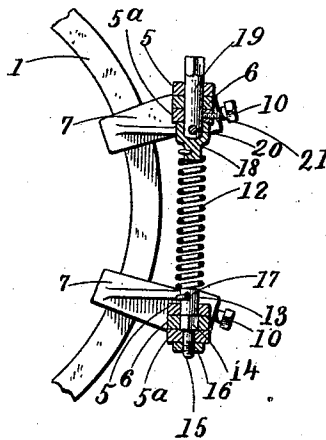


Fig.3



Witnesses:

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UNITED STATES PATENT OFFICE.

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CLOSET-SEAT.

SPECIFICATION forming part of Letters Patent No. 527,821, dated October 23, 1894.

Application filed April 10, 1894. Serial No. 507,057. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM G. VOLLMER, a citizen of the United States, residing in Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Closet-Seats, of which the following is a specification.

My invention relates to certain improvements in water closet seats whereby the expense of construction is reduced, and the seat is easily connected to or removed from the water closet bowl, all of which will be fully and clearly hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a front elevation, showing the cover open and exposing the spiral spring for raising it up. Fig. 2 is a side sectional elevation in or about line *a a*, Fig. 1, showing also the manner of detaching or attaching the cover to or from the bowl. Fig. 3 represents an enlarged plan of a portion of the bowl, showing a horizontal section through the hinge joints, spring, &c.

Referring to the drawings in detail, the numeral 1 represents the ordinary water closet bowl the top of which is a perfectly plain circular rim without projections or holding pieces of any kind. The advantage of this construction is that the bowl 1, can be located and secured in any position required without in any way interfering with the location of the cover thereon which can then be secured on the bowl at any point desired. This is an important construction as it saves considerable time in setting and securing the bowl in position, and the cover can be easily and quickly removed at any time and as easily secured in place again; or it may be as readily removed and secured in any different position on the bowl that may be required, thereby adapting the device to be used in positions where a bowl having an arbitrary point to which the cover is secured could not be used. The wooden portion of the cover 2, is made in the usual way, 2^a, being the opening through it.

A cast iron frame 3, is secured to the seat by screws 4, and is provided with the projecting double ear or hinge pieces 5, and 5^a, between each of which are pivoted the ears 6, that project up from the fastening pieces 7.

These fastening pieces 7, are each provided with the projecting hook or fastening portions 8 and 9. The portions 9, are each provided with a screw bolt 10, by which the cover is easily attached to or detached from the water closet bowl. These closet bowls are made of cast iron or other well known material. It will be noticed that the pivotal ears 6, are located obliquely on the clamping plates 7. The reason for this is, that the clamping pieces when put on to the bowl are in the position of lines radiating from the center of the bowl, substantially as shown in Fig. 3, while the pivotal ears are required to be parallel with each other so that the hinge connection may be operative.

In Figs. 1 and 3, 12 represents a spiral spring, see Fig. 3, where the construction is more clearly shown. The pivotal piece 13, is provided with a square portion 14, which fits into a square hole in one of the ears 6, so that it cannot turn therein. The reduced portion 15, outside of the square portion turns in the ear 5^a, and is secured in place by a nut 16. One end of the spring 12, is secured to this pivoted portion so that it can not turn thereon by having one end bent at right angles and forced into a hole in the side of the portion 13, at or about the point 17. The opposite end of the spring is secured in the same way to the socketed piece 18, so it can not turn thereon. Through the ears 5 and 5^a, at that end is passed a pivotal pin 19, which passes into the socketed piece 18, and is then secured by a pin 20, thus securing the spring in place. When it is desired to increase the force of the spring, all that is required is to loosen the set-screw 21, and turn the pivotal piece with a wrench until the force is obtained. The set screw 21, is then tightened up. The advantages of this construction are its cheapness and easy attachment or detachment of the cover to or from the bowl and the easily operating device for adjusting the force of the spring. 22 represents the ordinary weight for opening the cover of a closet that may be used if desired, so that the device can be used either with or without the spring.

I claim as my invention—

1. A closet seat removable hinge portion, consisting of two clamping plates 7, each hav-

ing the clamping pieces 8 and 9, set screws for securing them to a closet bowl, a pivotal portion located obliquely, as above specified, on top of each plate 7, and means substantially as above set forth for pivoting said clamping plates to a closet seat, for the purposes described.

2. In a closet seat, the combination with a water closet bowl having a plain circular rim at the top, of two removable clamping plates 7, provided with set screws for securing them at any point around the top of said bowl, piv-

otal portions 6, set obliquely on the top of the clamping plates 7, and forming a part of the same; and a closet seat consisting of the usual wooden portion having a metal frame provided with pivotal ears and pivoted to the pivotal portions on the clamping pieces, substantially as and for the purposes described.

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Witnesses:

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