J. C. CLEIS.

BUFFER ATTACHMENT FOR CLOSET SEATS.

APPLICATION FILED MAR. 12, 1909.

972,820. **Patented Oct. 18, 1910.**

Fig. 1.

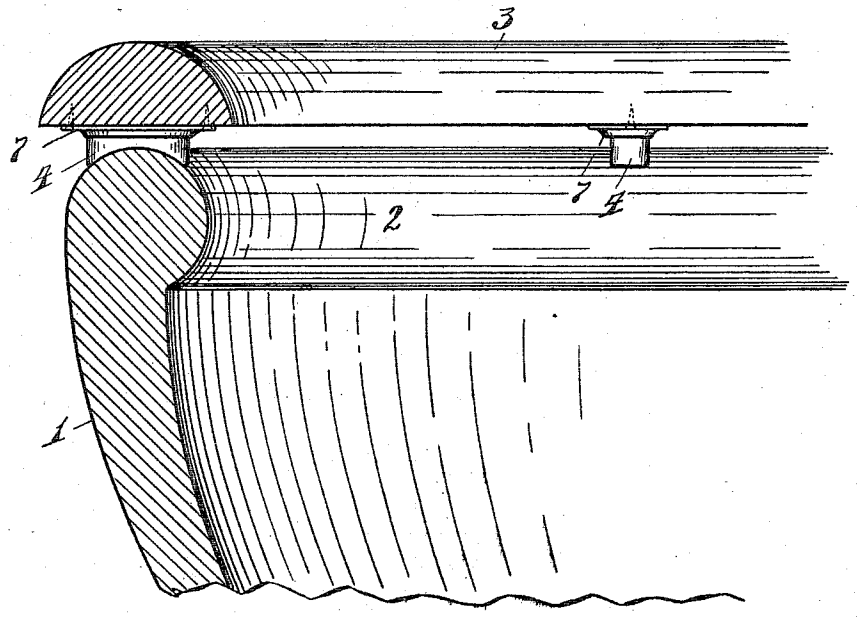


Fig. 2.

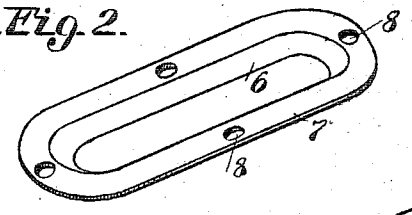


Fig. 4.

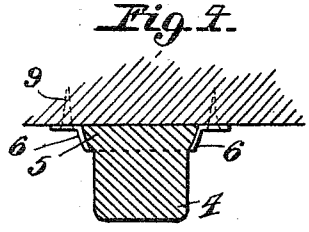
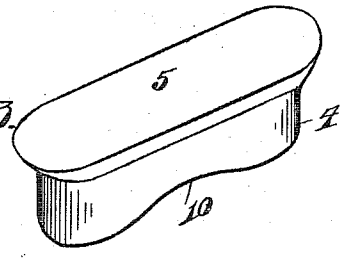


Fig. 3.



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UNITED STATES PATENT OFFICE.

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BUFFER ATTACHMENT FOR CLOSET-SEATS.

972,820. Specification of Letters Patent. Patented Oct. 18, 1910.

Application filed March 12, 1909. Serial No. 482,924.

To all whom it may concern:

Be it known that I, JOHN CHARLES CLEIS, a citizen of the United States, residing at South Bend, in the county of St. Joseph and State of Indiana, have invented certain new and useful Improvements in Buffer Attachments for Closet-Seats, of which the following is a specification.

This invention relates to buffer attachments for closet seats.

One object of the invention is to provide a buffer of the nature stated, embodying such characteristics that rapid deterioration thereof is not liable to occur.

Another object of the invention resides in the provision of a buffer which may be easily and quickly replaced or applied in the first instance to a seat without penetrating the same by a securing means.

A still further object of the invention is to provide a buffer capable of being secured to the seat without the employment of nails, screws, and the like, and having among other characteristics a formation adapted to cause proper seating of the seat upon the top of the bowl.

With the above and other objects in view, the present invention consists in the combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawings, and praticularly pointed out in the appended claims, it being understood that changes may be made in the form, proportion, size and minor details without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings Figure 1 is a fragmentary sectional view of a bowl, illustrating a seat applied thereto. Fig. 2 is a perspective view of the buffer holding means. Fig. 3 is a detail perspective view of the buffer. Fig. 4 is a transverse sectional view through the buffer, its holding means and a portion of the seat.

Referring now more particularly to the accompanying drawings, the reference character 1 indicates a bowl provided with a ribbed reinforcement 2 at its top, as usual.

The character 3 indicates a seat, to the under-face of which is secured the attachment, which consists of a substantially elongated buffer 4 provided with a head portion 5 adapted to fit within and upon the converging sides of the flanges 6 of a plate 7, whose marginal edges are provided with perforations 8 to receive screws or other suitable fastenings 9, adapted to penetrate the bottom of the seat. By virtue of the head portion 5 of the buffer and the converging of the sides and ends of the flanges 6 of the plate 7, the plate can be depended upon to firmly secure the buffer against displacement.

As hereinbefore intimated, the buffer is substantially elongated, and as shown in Fig. 1, it is disposed preferably transversely of the ribbed top portion 2 of the bowl, and as also shown in said figure, it is concaved longitudinally, as indicated at 10, for the purpose of embracing the convex formation of the top of the bowl and also for the purpose of obviating sidewise play of the seat in direct contradistinction to the sidewise play permitted in the use of the ordinary buffers. In other words, by virtue of the cavity formed in the buffer, the seat rests firmly upon the bowl and is not subject to improper position or sidewise play.

As many buffers as may be needed will be employed, and each, of course, will be disposed so that its cavity 10 will have the aforesaid relation to the ribbed portion 2 of the bowl.

In many instances, buffers are secured to the seats by nails or screws forced through the centers of the buffers, or through a marginal flange of the buffer. The shape of the buffers have been such as to cause the seat to insecurely rest upon the top of the bowl. Constant pressure on the buffers flattens them to such an extent as to cause the head of the nail or screw to contact with the porcelain bowl and crack or otherwise injure the latter. By virtue of the insecure bearing of the buffer, the seat is liable to be shifted or wrenched edgewise, when pressure is applied thereto or when the seat is accidentally forced endwise by accidental contact therewith. This side thrust subjects the hinges which support the seat to undue lateral strains, and as the hinges are usually secured to the porcelain bowl, the latter also receives the strain, frequently resulting in breakage of the hinge or the bowl itself. The purpose, therefore, of providing a substantially elongated buffer and concaving the same longitudinally and disposing the buffer transversely of the strengthening head at the top of the bowl is manifest, because in the use of buffers of the present improved type, the side thrust of the seat is not liable to occur

either upon downward pressure or upon accidental lateral thrust.

What is claimed is:—

1. The combination with a closet bowl and seat, of plates secured to the under side of the seat and disposed radially with respect to the opening therein, each plate having a marginal inwardly directed flange, elongated buffers provided with enlarged heads engaged by the flanges, the outer faces of the buffers being transversely concaved to engage the bowl for centering the seat upon the latter.

2. The combination with a closet bowl and seat, of elongated buffers secured to the underside of the seat and disposed radially with respect to the opening therein, the outer faces of the buffers being concaved to engage the bowl for centering the seat upon the latter and to prevent lateral thrust in all directions.

3. The combination with a closet bowl and seat, of plates secured to the underside of the seat and disposed radially with respect to the opening therein, and elongated buffers secured in said plates, the outer faces of the buffers being concaved to engage the bowl to center the seat and to prevent lateral thrust thereof.

4. The combination with a closet bowl and seat, of buffers secured to the underside of the seat, the outer faces of the buffers being concaved to engage the bowl for centering the seat upon the latter and to prevent lateral thrust in all directions.

In testimony whereof I affix my signature, in presence of two witnesses.

JOHN CHARLES CLEIS.

Witnesses:
GEORGE OLTSCH,
GRACE COLE.