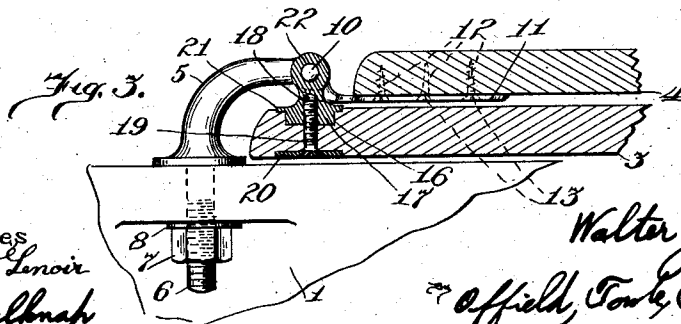
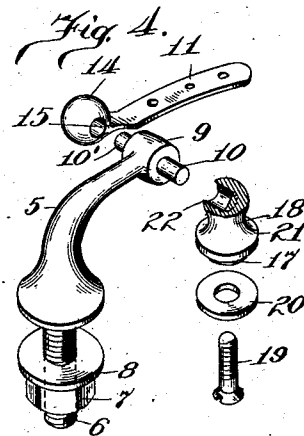
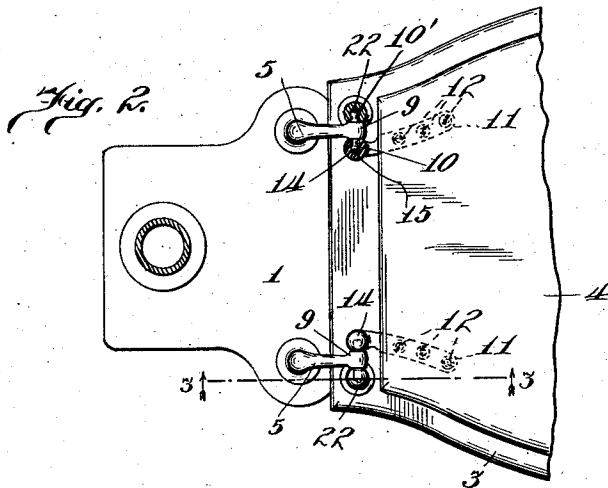
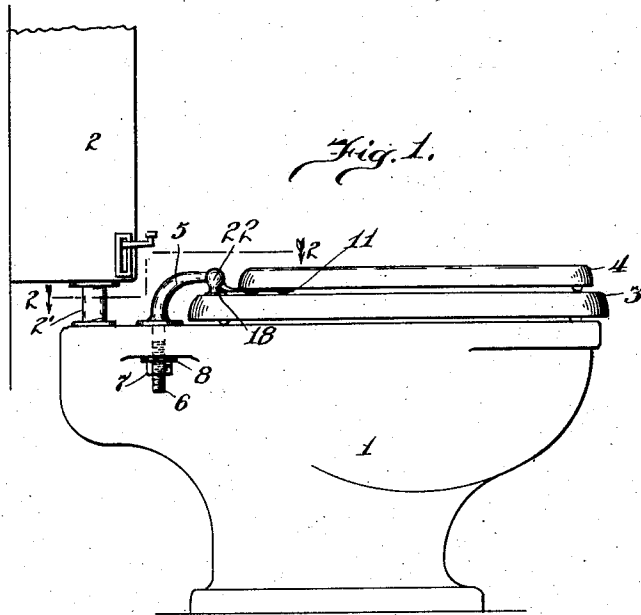


W. J. FROST.
 WATER CLOSET FIXTURE.
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1,010,610.

Patented Dec. 5, 1911.



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WALTER J. FROST, OF KENOSHA, WISCONSIN.

WATER-CLOSET FIXTURE.

1,010,610.

Specification of Letters Patent.

Patented Dec. 5, 1911.

Application filed September 22, 1911. Serial No. 650,709.

To all whom it may concern:

Be it known that I, WALTER J. FROST, a citizen of the United States, residing in the city of Kenosha, county of Kenosha, and State of Wisconsin, have invented certain new and useful Improvements in Water-Closet Fixtures, of which the following is a specification.

This invention relates to improvements in water-closet fixtures, and refers more particularly to the manner of hinging the seat and cover to the stool.

The salient object of the invention is to provide a simple and mechanical construction which can be readily applied, and at the same time is particularly adapted for withstanding strains and preventing loosening of the seat.

In the prior constructions both the seat and cover are hinged to the brackets by means of flat metal straps which are secured to the under face of these members by means of a plurality of screws. The difficulty with such devices is that there is a tendency for the seat to work loose. The present invention overcomes this difficulty and at the same time provides a construction having a neat and workmanlike appearance.

The invention consists in the matters hereinafter described and more particularly pointed out in the appended claims.

In the drawings Figure 1 is a side elevation of a water-closet stool equipped with my invention, and also showing a portion of the flushing-tank. Fig. 2 is a fragmentary top plan view of the stool with parts shown in section. Fig. 3 is a fragmentary vertical sectional view. Fig. 4 is a detail perspective view showing the parts of the fixture separated.

Referring to the drawings, 1 designates the stool, 2 the flushing-tank connected to the former by a suitable inlet pipe 2', all of well known construction. The stool is provided with the usual seat 3 and cover 4. To the rear of the stool is fixedly secured curved supporting brackets 5, 5 each having a screw-threaded extension 6 extending into the stool and secured thereto by means of nuts 7 and washers 8. The front end of each bracket-arm 5 terminates in a generally cylindrical head 9; and each head is provided at either side with trunnions or pivot-studs 10, 10'. Preferably these trun-

nions are formed from a single pin. The cover 4 is hinged to the bracket-arms 5 by means of hinge-straps 11. These straps are secured to the under face of the cover by means of screws 12, the heads 13 of which are counter-sunk in the strap as shown in the drawing. The rear end of each strap 11 is provided with a ball-shaped head 14 provided at its inner side with a socket 15 which fits over the corresponding trunnions 10', thus hinging the cover 4 to the supporting brackets.

Describing now the manner of hinging the seat 3 to the brackets, the upper face of the seat is recessed as shown at 16 to receive the base 17 of a hinge-clamp 18. Each member 18 is rigidly clamped to the seat by means of screws 19, the heads of which are counter-sunk in washers 20 which are in turn counter-sunk in the lower face of the seat. The upper edge of each base 17 is provided with an annular flange 21 which prevents the clamp from being pulled into the wood by means of the screws. The upper end of each hinge-clamp terminates in a ball-like socket or eye 22 which is pivoted on the corresponding trunnion 10. By means of the construction just described the seat may be quickly and readily hinged to the supporting brackets and at the same time effectively withstand any strains upon the seat. It will be seen that the hinge-clamp is so secured to the seat as to obviate any tendency of screws pulling out or parts working loose.

The operation of the device is obvious and needs no description.

The invention is not limited to the details of construction shown except as set forth in the appended claims.

I claim as my invention:

1. In a water closet fixture, the combination with a stool, of a seat therefor, a pair of supporting brackets fixed to the stool and having curved extensions extending over the rear end of the seat, a pivot stud at the outer end of each extension, and a pair of hinge-clamps for pivotally connecting the seat to the brackets, each of said hinge-clamps comprising a socketed-head member for engagement with the corresponding pivot stud, an annular base adapted to seat in a suitable recess on the upper face of the seat, said base having an annular shoulder at its upper end and

screws extending through the lower face of the seat and engaging the bases of said hinge-clamps.

2. In a water-closet fixture, the combination with a stool, of a cover and seat therefor, curved supporting brackets secured to the stool, pivot-studs for said brackets, hinge-straps secured to the under face of the cover and pivotally connected to their
10 respective pivot-studs, a pair of hinge-clamps, each comprising a base extending into a suitable recess formed in the upper

face of the seat, and a socketed-head pivoted on the corresponding pivot-stud, screws extending through the lower face of the seat and engaging said hinge-clamps, an annular shoulder on each hinge-clamp and a washer for each screw, said latter elements serving to prevent the hinge-clamps and screws from being pulled into the seat. 15 20

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