

J. H. PRYOR.
WATER CLOSET HINGE CONNECTION.
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976,395.

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Fig. 1.

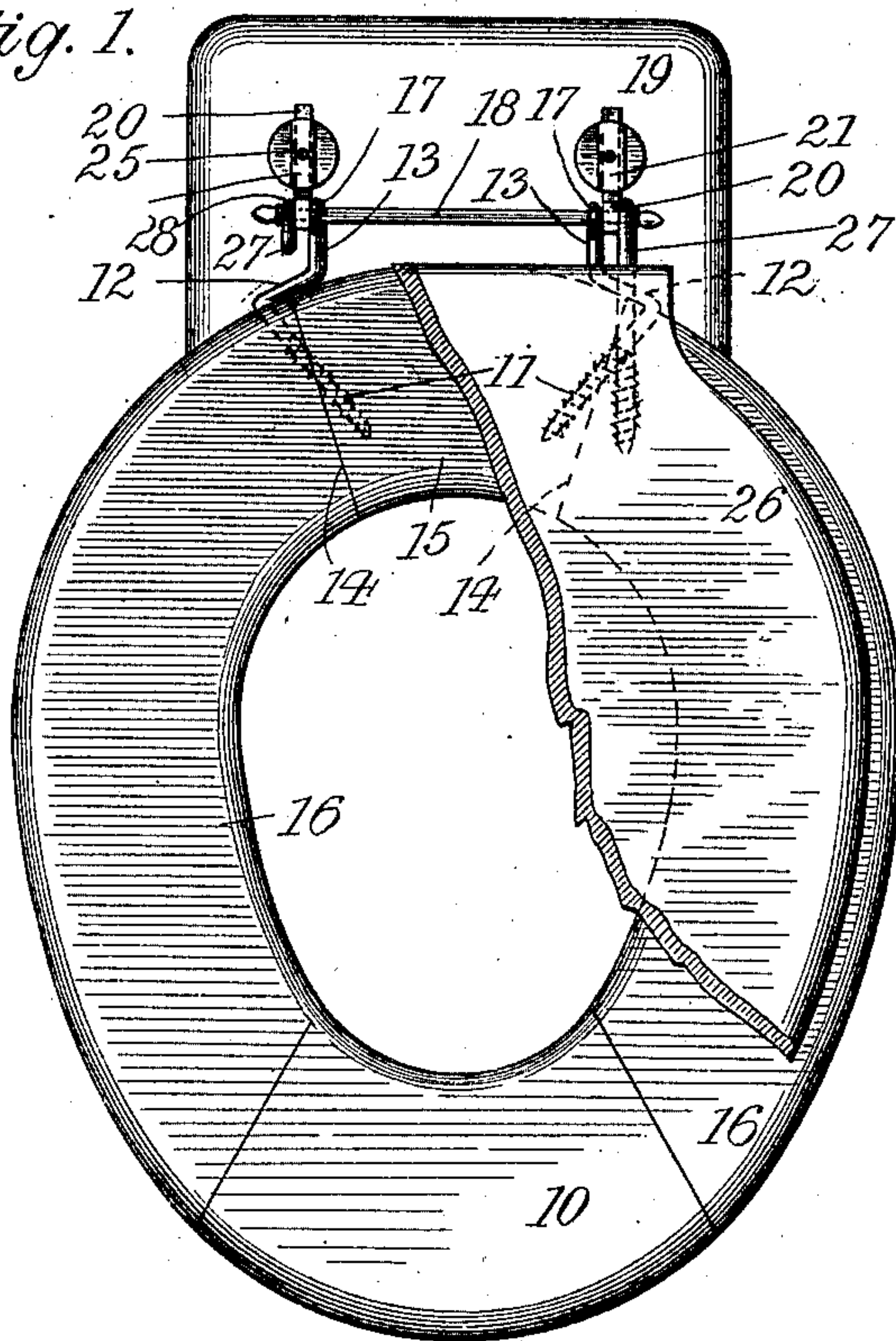
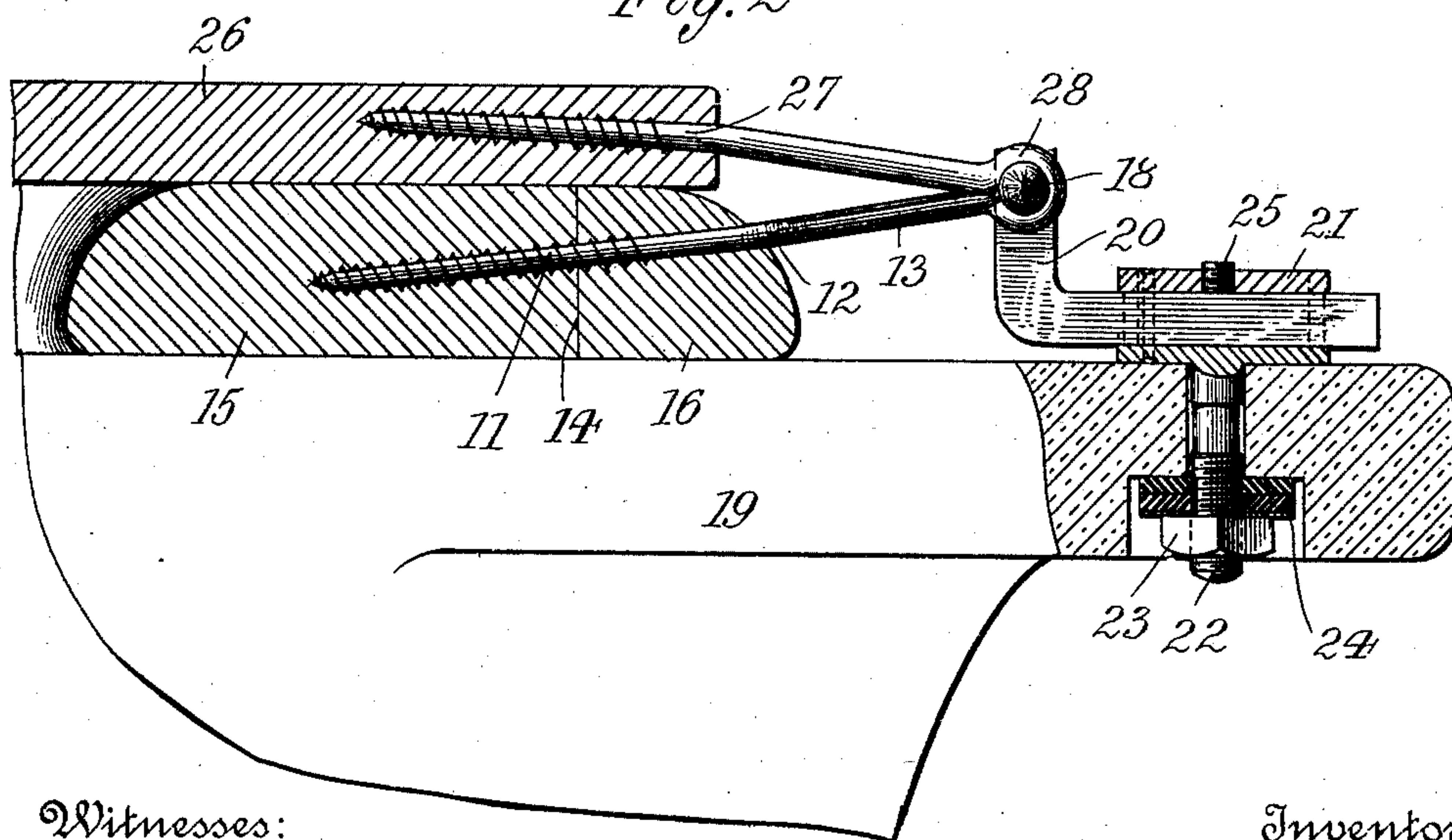


Fig. 2



Witnesses:

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WATER-CLOSET HINGE CONNECTION.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSEPH H. PRYOR, a citizen of the United States, residing at New York city, county and State of New York, have invented new and useful Improvements in Water-Closet Hinge Connections, of which the following is a specification.

This invention relates to a hinge connection of novel construction, between the bowl and seat of a water closet and also between the bowl and the lid. By my invention the parts are united in such a manner, that the hinge will not become loosened, or be liable to be pulled off the seat during the ordinary manipulation of the latter, so that a reliable and stable connection is insured.

In the accompanying drawing: Figure 1 is a plan, partly broken away, of a water closet hinge connection embodying my invention, and Fig. 2 a longitudinal section, partly in elevation thereof.

Into the back of a water closet seat 10 extend a pair of screw rods which are bent to form a pair of diverging threaded front sections 11, a pair of converging central sections 12, and a pair of parallel rear sections 13. The threaded front sections 11, which are thus out of axial alinement with rear sections 13, pass at an angle through the joints 14 between the rear segment 15 and the side segments 16 of seat 10, and serve to reinforce said joints. The converging central sections 12 extend along the back of seat 10, so as to brace the same and bridge joints 14. In this way the seat is reinforced, and any backward displacement of the rear seat segment 15 relatively to the side segments 16 is checked. The rear sections 13 of the screw rods extend at an obtuse angle to central sections 12, and are placed in parallelism with the longitudinal axis of said seat. These rear sections terminate in eyes 17 that encompass a headed pintle 18 secured to the bowl 19 and on which the rods are thus free to turn. It is preferred to so mount pintle 18 on bowl 19, that the pintle is adjustable toward and away from the seat, so that by properly setting the pintle, the seat may be centered upon the bowl. To this effect pintle 18 is supported in the forward upwardly extending arms of a pair of bearings 20, the rear horizontal shanks of which slidably engage a pair of tubular guides 21. These guides are attached to bowl 19 by means of screw bolts 22 carrying nuts 23 and washers 24, which are counter-

sunk into the bottom of the bowl-flange. Clamp screws 25 engaging bearings 20, permit the latter to be tightened up after the seat has been centered upon the bowl. The closet lid 26 is also hung on pintle 18 by means of a pair of screw rods 27 engaging the back of the lid and having eyes 28 that encircle the pintle. It is preferred to so assemble the parts, that while the eyes 17 of the seat-bearing rods encircle pintle 18 inside of bearings 20, the eyes 28 of the lid-bearing rods encircle the pintle outside of said bearings.

It will be seen that owing to the peculiar construction of the screw rods, and more particularly to their deflected forward ends that enter the seat at opposed angles, the bowl and seat are connected in such a permanent manner, that any pull exerted on the seat, while raising or lowering the same, will not have a tendency to pull said screw rods out of the seat. On the contrary, such a pull, by tending to unbend the diverging inner ends of the screw rods, will tighten their hold upon the seat, so that a reliable connection is obtained, which is not apt to give way or loosen during use.

I claim:

1. A device of the character described, comprising a water closet bowl, a seat, a pair of rods having parallel rear sections which are pivoted to the bowl, outwardly extending central sections engaging the back of the seat, and threaded front sections deflected inwardly from the central sections and entering the seat.

2. A device of the character described, comprising a water closet bowl, a sectional seat having a pair of rear joints and an intervening rear segment, a pair of rods having parallel rear sections which are pivoted to the bowl, central sections which bridge the joints at the rear of the seat to check a backward displacement of the rear seat segment, and threaded front sections which are deflected inwardly from the central sections and enter the seat.

3. A device of the character described, comprising a water closet bowl, a sectional seat having a pair of rear joints, a pair of rods having parallel rear sections which are pivoted to the bowl and threaded front sections which are deflected inwardly from the rear sections and pass at an angle through the joints.

4. A device of the character described,

comprising a water closet bowl, a sectional
seat having a pair of rear joints, a pair of
rods having parallel rear sections which are
pivoted to the bowl, outwardly extending
5 central sections engaging the back of the
seat and bridging the joints, and threaded
front sections deflected inwardly from the

central sections and passing at an angle
through said joints.

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Witnesses:

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