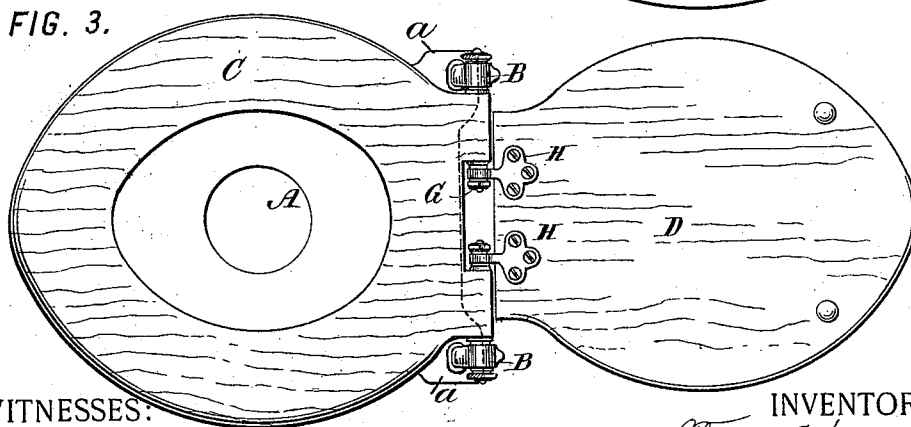
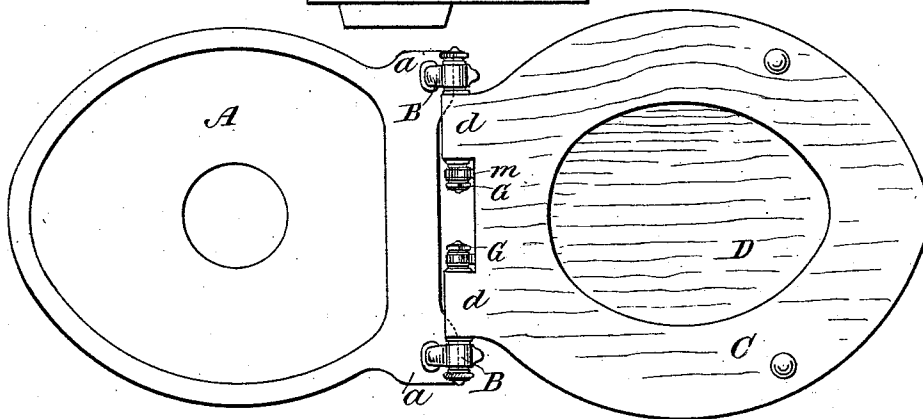
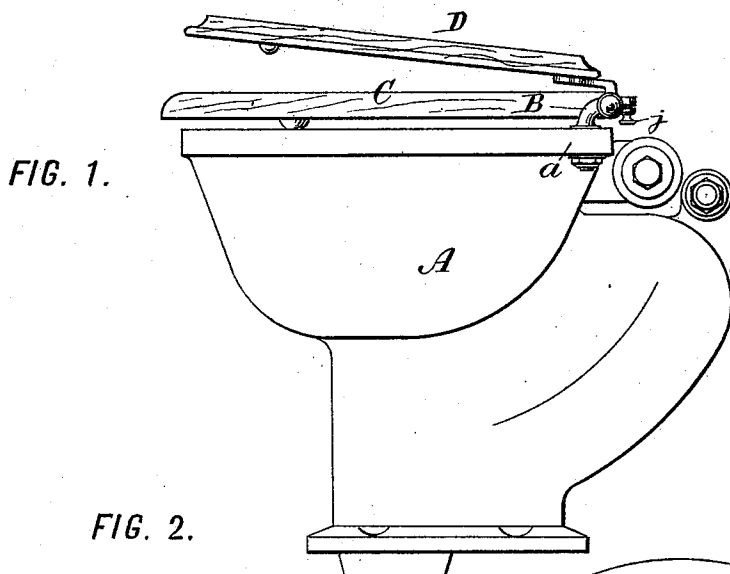


T. C. BEAUMONT.
WATER CLOSET SEAT HINGE.

No. 538,061.

Patented Apr. 23, 1895.



WITNESSES:

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Thomas F. Wallace

INVENTOR:

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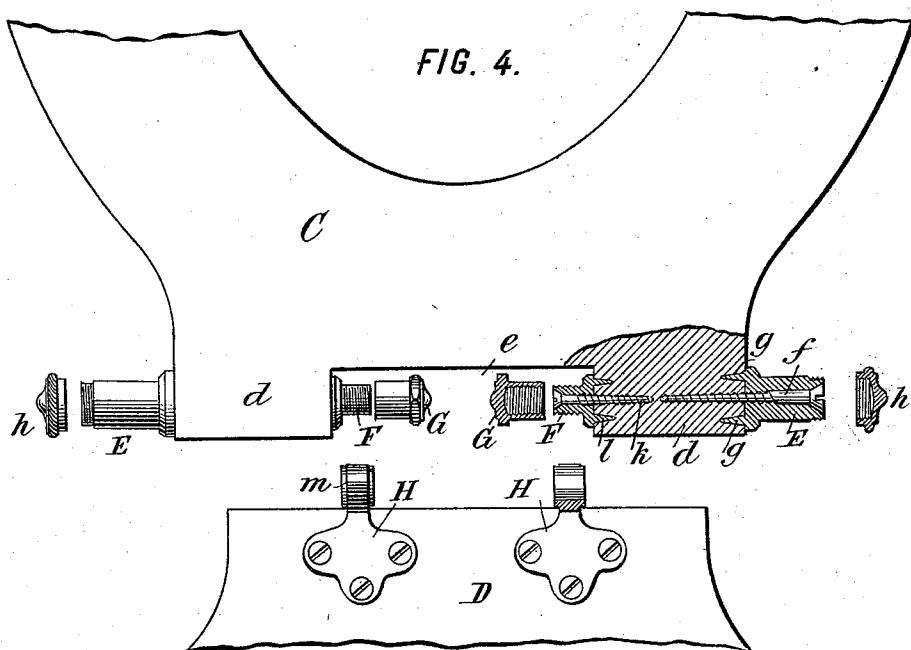


FIG. 5.

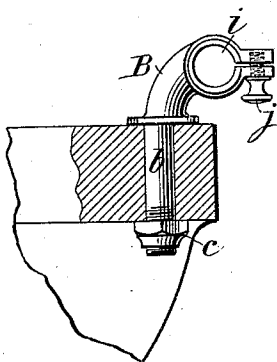


FIG. 6.

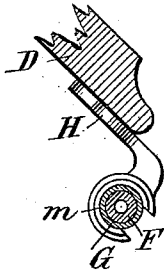


FIG. 7.

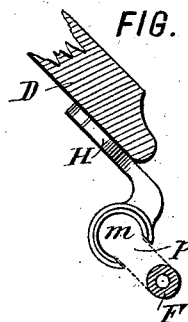
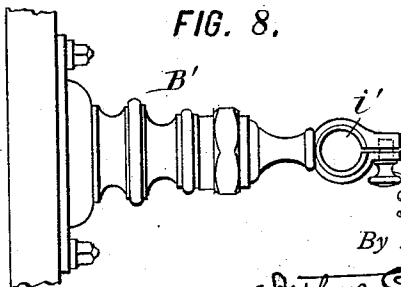


FIG. 8.



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UNITED STATES PATENT OFFICE.

THOMAS C. BEAUMONT, OF NEW YORK, N. Y., ASSIGNOR TO THE HENRY HUBER COMPANY, OF SAME PLACE.

WATER-CLOSET-SEAT HINGE.

SPECIFICATION forming part of Letters Patent No. 538,061, dated April 23, 1895.

Application filed December 24, 1894. Serial No. 532,829. (No model.)

To all whom it may concern:

Be it known that I, THOMAS C. BEAUMONT, a citizen of the United States, residing in the city, county, and State of New York, have invented certain new and useful Improvements in Water-Closet-Seat Hinges, of which the following is a specification.

This invention relates to means for effecting hinge connections between a water-closet seat and its cover and the closet bowl.

One object of the invention is to provide a practicable means for hinging the seat to the earthenware bowl instead of to a fixture attached to the wall.

Another object is to prevent the slamming or falling of the seat upon the bowl after it has been raised, by providing means for generating a suitable friction at the hinge.

A further object is to improve the hinge construction, and the mode of attachment thereof to the wooden seat.

A further object is to provide a construction for hinging the lid or cover to the seat in such manner that it may be readily detached therefrom.

Figure 1 of the accompanying drawings is a side elevation of a water closet bowl with its seat, lid and hinge constructed according to my invention. Fig. 2 is a plan thereof, the lid and seat being thrown back to a horizontal position. Fig. 3 is a similar plan, the seat being turned down on the bowl and the lid being thrown back. Fig. 4 is a fragmentary plan on a larger scale, showing the seat and lid in the same position as in Fig. 3, but with their hinges separated, the hinge members being disconnected and partly in section to show the construction. Fig. 5 is a side elevation of one of the hinge brackets showing the lug on the bowl partly in section. Figs. 6 and 7 are sectional views through the lid hinge showing it the one in the operative condition and the other disconnected. Fig. 8 is a side elevation of a modification showing the adaptation of my invention to a wall bracket.

Let A designate the water-closet bowl of molded earthenware, and of any of the many well known constructions of such bowls, differing from ordinary bowls only in one respect, namely, that two ears *a a* are formed

in the earthenware extending rearwardly and laterally from the upper part or rim of the bowl in the manner shown in Figs. 1 and 2. These ears have each a vertical perforation, as shown in Fig. 5. In this perforation is placed the shank *b* of one of the seat hinge brackets B, whereby this bracket is connected to the bowl, being firmly clamped thereto by a nut *c* screwed on the shank.

Let C designate the seat, and D the lid. The seat C is of wood as usual, and is formed at its rear side with two projections *d d* having between them a recess *e*. In case, however, a cover or lid is not used, this recess *e* and the lid hinges will be omitted. The seat hinge consists of two members, one of which is the bracket B already referred to, and the other is a pintle E. The two pintles E E are fastened in line with each other against the outer sides of the projections *d d*. For fastening each pintle, I employ a long screw *f* passing axially through it and screwing into the wood seat, as shown at the right in Fig. 4. To compel the pintle to turn with the seat, it is constructed with spurs *g g* which are driven into holes in the wood. To cover the end of the pintle and conceal the head of the screw *f* and make a neat and ornamental finish, a small cap *h* is screwed upon the threaded outer end of the pintle. The pintle passes through an eye *i* formed on the hinge bracket B. This eye is provided with some sort of frictional device for engaging the pintle E in a manner to generate sufficient friction to prevent the free dropping or falling of the seat upon the earthenware bowl in case it is lifted and let go. The friction should be sufficient just to cause the seat to remain standing at any angle at which it is put, and require a very slight pressure of the hand to move it. The simplest and preferred construction for carrying out this part of my invention, is that best shown in Fig. 5, where the eye *i* is slitted or opened on one side and formed with ears which are engaged by a clamping screw *j*, by which to draw the two ears together, and thereby contract the eye to cause it to grip or pinch the pintle, the amount of friction being adjustable by more or less tightening the clamping screw *j*. This frictional device is applied on

at least one of the brackets B, and preferably on both as shown. In assembling the parts of the hinge, it is preferable to connect the pintles first to the seat, then mount the brackets on the pintles, and then fix the brackets in place on the bowl.

Fig. 8 shows how my frictional hinge construction is to be applied to a hinge having a wall bracket attached to the wall back of the closet. B' designates such a bracket, which is of well understood construction, not differing from similar brackets already in use except that the eye *i'* is opened and formed with lugs, and has a clamping screw *j'* for contracting it to frictionally engage the pintle of the seat hinge.

For hinging the lid D to the seat, I provide the latter with two pintles F F attached to it in line with each other in the recess *e*. The attachment of the pintles F is effected in the same manner as the pintles E, namely, by passing a wood screw axially through the pintle F and screwing it into the wood projection *d* of the seat, this wood screw being lettered *k*. To keep the pintle F from turning, it is provided with spurs *l* which enter the wood. To cover and inclose the pintle F, a cap, sleeve or false pintle G is screwed on over it. To the lid D are fastened by screws or otherwise, two hinge leaves H H having each a mutilated eye *m* adapted to engage and turn upon the exterior face of the cylindrical sleeve or false pintle G. The bore or opening in the eye *m* makes a close working fit with this false pintle G. At one side the eye *m* is cut away forming a slot or opening *p* which is narrower than the diameter of the false pintle G, but which is larger than the exterior diameter of the pintle F. By unscrewing the false pintles G G, the eyes *m m* are left in engagement with the pintles F F, whereupon by pulling off the lid in the manner shown in Fig. 7, the eyes are disconnected from the pintles F F, the latter passing out of the eyes through the openings

p. These openings *p* are in a position where they cannot be seen when the closet is set up, either when the lid is turned down upon the seat, or when it is thrown up to a vertical position against the wall.

Fig. 6 shows the false pintle G in place filling the space between the pintle F and the eye *m*, so that the hinge cannot be disconnected until this false pintle has been first removed.

I claim as my invention the following defined novel features, substantially as hereinbefore specified, namely:

1. A water closet seat-hinge consisting of a bracket B having an eye *i* and clamping screw *j* combined with a pintle E having a spur entering the seat, a screw *f* passing axially through said pintle and screwing into the seat, and a cap *h* screwing on the end of the pintle against said eye.

2. A hinge for the lid of the water closet seat consisting of a pintle, a sleeve or false bottom fitting over it, constituting one hinge-member, and the other hinge-member formed with an eye fitting over and turning on said false-pintle, and having an opening large enough to pass over the pintle, but smaller than the diameter of the false pintle, so that by removing the false pintle the eye may be withdrawn laterally from the pintle.

3. A hinge for the lid of a water closet seat consisting of a pintle F, means for fastening it to the seat, a sleeve or false pintle G screwing over said pintle, a hinge leaf H having an eye *m* fitting over said false-pintle, and formed with an opening *p* large enough to pass over the pintle.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

THOMAS C. BEAUMONT.

Witnesses:

GEORGE H. FRASER,
CHARLES K. FRASER.