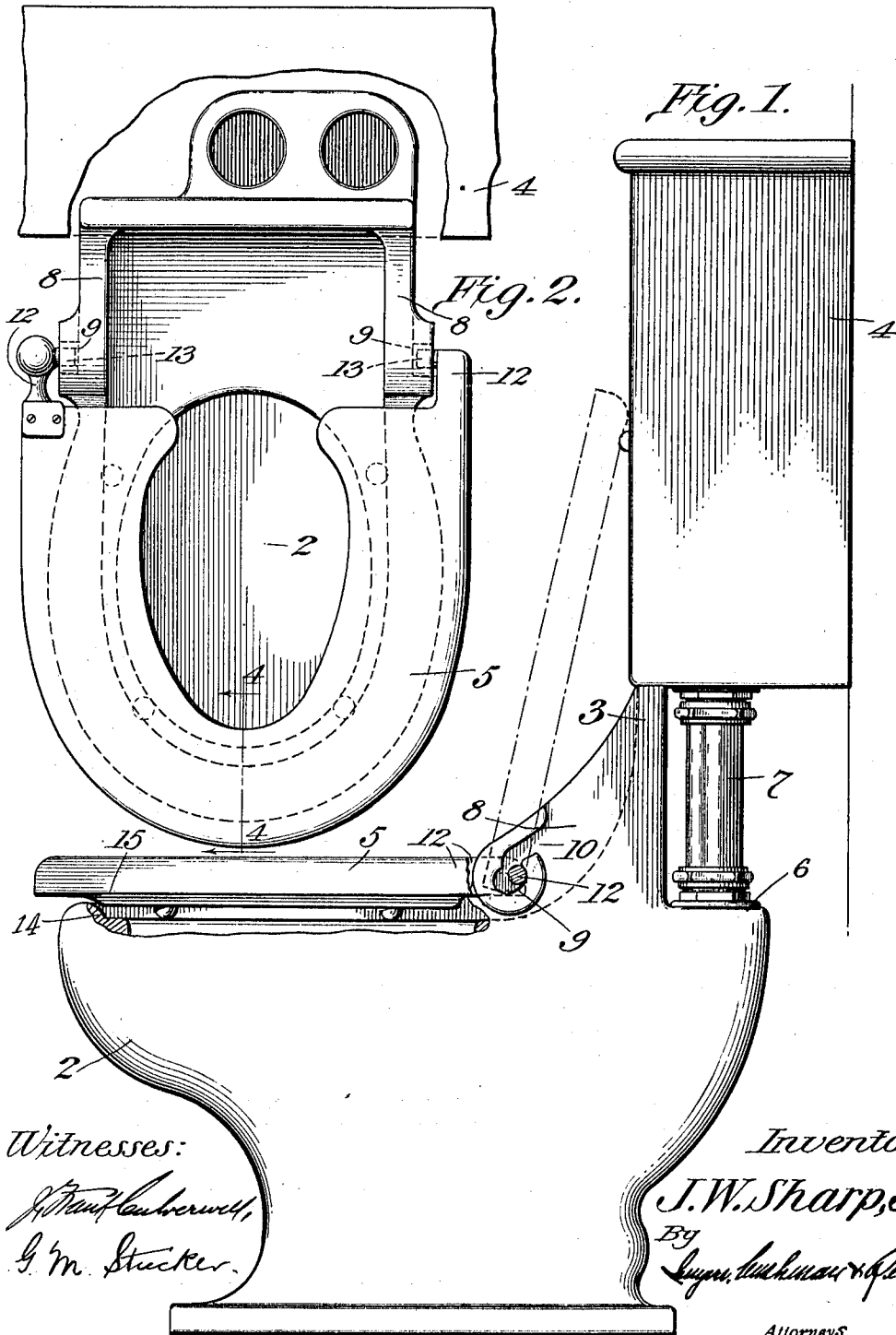


J. W. SHARP, JR.
CLOSET AND SEAT.
APPLICATION FILED OCT. 21, 1908.

1,041,181.

Patented Oct. 15, 1912.

2 SHEETS-SHEET 1.



Witnesses:
J. M. Stucker
G. M. Stucker

Inventor;
J. W. Sharp, Jr.
By *J. M. Stucker*

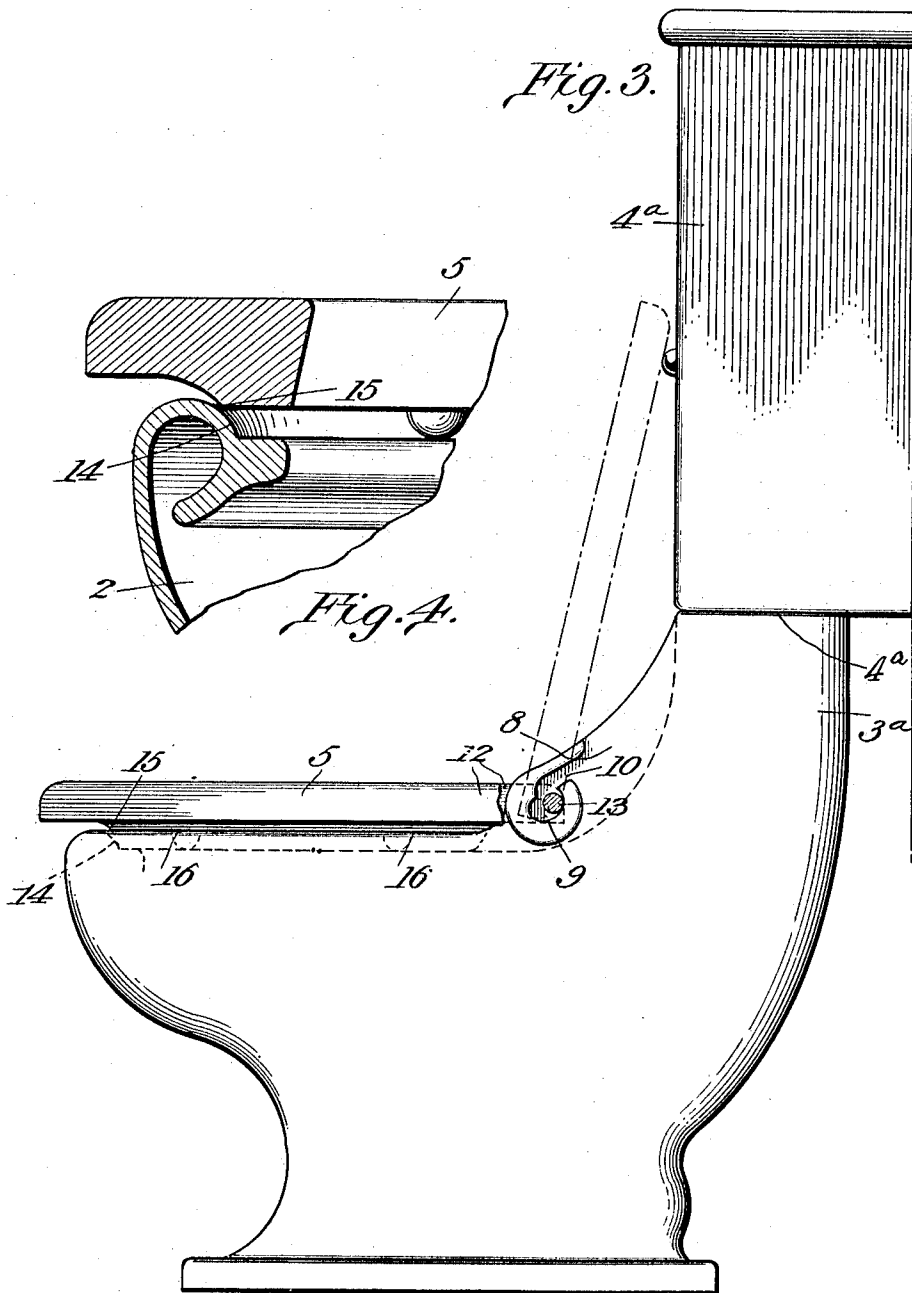
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UNITED STATES PATENT OFFICE.

JOSEPH W. SHARP, JR., OF PHILADELPHIA, PENNSYLVANIA.

CLOSET AND SEAT.

1,041,181.

Specification of Letters Patent.

Patented Oct. 15, 1912.

Application filed October 21, 1908. Serial No. 458,801.

To all whom it may concern:

Be it known that I, JOSEPH W. SHARP, Jr., a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Closets and Seats, of which the following is a specification.

The present invention relates to water closets, and particularly to closet bowls and seats.

It has for its object to provide a closet in which the usual metal fittings and connections are for the most part dispensed with, and where used, so placed as to be out of the reach of splashing.

Primarily my object has been to secure a bowl and seat in which the essential and necessary adjuncts of these combined elements might be made in pottery, and, briefly stated I have accomplished this by forming, at the rear of the bowl, a seat support which is so formed in the pottery as to hold the seat in proper position, whether in use or turned back against the wall or tank. The means by which I accomplish this will now be set forth in detail, reference being had to the accompanying drawings, which are merely illustrative of one embodiment of my invention, but by no means restrictive so far as mechanical details are concerned.

In said drawings: Figure 1 is a side view of a closet embodying my invention; Fig. 2 is a plan view showing the lay out of the seat connections. Fig. 3 is a side view of a closet showing a different arrangement of bowl and tank. Fig. 4 is a detail sectional view of the bowl and seat.

Referring to the drawing by numerals, like numbers indicating like parts in the several views, 2 designates the bowl, which, so far as its general outline and structure is concerned, may be of any desired type. At its rear said bowl 2 is provided with a raised back 3, which serves two purposes, namely a support for the tank 4, (where the low-down type is used), and a bearing for the seat 5. In the form shown in Fig. 1 the raised back 3 upholds the tank 4 at its front, an offset 6 being provided in rear of the back 3 through which the usual flush and vent connections 7 connect the bowl and tank. In the form shown in Fig. 3, the raised back 3^a is extended so as to form a seat for the tank

4^a, which may be connected thereto by any suitable coupling. In either construction it will be seen that the tank is supported by the bowl without strain upon either the bowl and tank connections, or upon the wall fastenings of the tank. The raised back 3 slopes toward and drains into the bowl, as will be clear from the dotted lines in Figs. 1 and 3, so that no catching or pocketing of splashing can occur.

On either side of the raised back 3 are outstanding webs 8, in which, and preferably, for sanitary reasons, on the outer faces, are formed bearing sockets 9 for the seat trunnions. These bearings 9 are formed in lugs, as shown, integral with the pottery, and the said bearing sockets 9 are preferably of larger diameter than the seat trunnions, for a purpose which will presently appear, and have ways or passages 10 leading to them to permit ready shipping of the seat or its removal.

The seat 5 is substantially U-shaped, being cut away at its rear for obvious sanitary reasons, so that, whether the said seat 5 be down or raised, no splashing and fouling of the same can occur. The trunnion lugs 12 extend rearwardly from the arms of the U-shaped seat, and their trunnions 13 readily traverse the ways 10 and take their position in the enlarged bearing sockets 9. The purpose of these enlarged bearing sockets is to permit the trunnions 13 to ride slightly (as shown in Figs. 1 and 3), so that when in down position the trunnions 13 are to the rear of the sockets 9, and then, when the seat is raised, they will ride to the front of the sockets, and give the proper incline and stability to the seat. It is desirable, of course that the seat 5 be stable when in down position, and since the large sockets 9 might permit the seat to shift, I preferably form the top of the bowl 2 with a bevel or incline 14, against which the bumpers 16 on the under side of the seat 5 rest. It will be obvious that with such a construction the seat will bind under weight placed upon it and be firmly held, the bumpers 16 wedging into the inclined top of the bowl, and this firm position of the seat is more certainly secured by reason of the fact that in down position the ends of the U-limbs are against the front of the webs 8 so that any backward movement of the seat is prevented. This arrange-

ment permits an independent movement of the seat and relieves the trunnions 13 and pottery trunnion bearings 9 of all undue strain, and eliminates possibility of breaking from seat strains.

While I have shown a particular embodiment of my invention I do not limit myself to the particular structural details shown and described, except in so far as I am limited by the art to which the invention belongs.

Having fully disclosed my invention, I claim:

1. A closet bowl having a stepped portion at its rear comprising a raised tank support 3 and an offset portion 6, a tank 4 resting at its front upon said raised support 3, and a flushing pipe 7 in rear of said portion 3 connecting said tank 4 with the offset 6.

2. A closet bowl having a raised tank-supporting portion at its rear, side webs projecting forwardly from such raised portion, seat-trunnion sockets formed on the outside of said webs, and a substantially U-shaped rearwardly-open seat trunnioned in said sockets.

3. A closet bowl having a raised forwardly draining portion at its rear, upstanding side webs projecting forwardly on either side of said draining portion, trunnion sockets formed on the outer sides of said webs, and a rearwardly open seat trunnioned in said sockets.

4. The combination with a closet bowl, of a seat trunnioned thereon and having trunnions shiftable to different positions in raised and lowered positions, and means to prevent shifting of the trunnions in their

sockets when the seat is in lowered or down position.

5. The combination with a closet bowl, of a seat trunnioned thereon and having trunnions shiftable to different positions when the seat is in raised or lowered position, and means to wedge the seat and bowl together when the seat is in down position and prevent shifting of the trunnions in their sockets.

6. The combination with a closet bowl having an inwardly beveled edge, a seat trunnioned on said bowl and having trunnions shiftable from one position to another as the seat is moved from its raised to its down position, and a beveled projection on the under side of said seat to wedge the bowl and seat together and prevent shifting of the seat in its down position.

7. The combination with a closet bowl, having relatively large trunnion sockets, of a seat having trunnions loosely fitting said sockets and shiftable to two distinct bearing positions in such sockets.

8. The combination with a closet bowl having relatively large trunnion sockets, of a seat having trunnions loosely fitting said sockets, said trunnions lying in the rear of said sockets when the seat is in down position and shifting forwardly in said sockets when the seat is raised.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOSEPH W. SHARP, JR.

Witnesses:

MORTIMER A. JONES,
W. BURTON RICHARDS,