

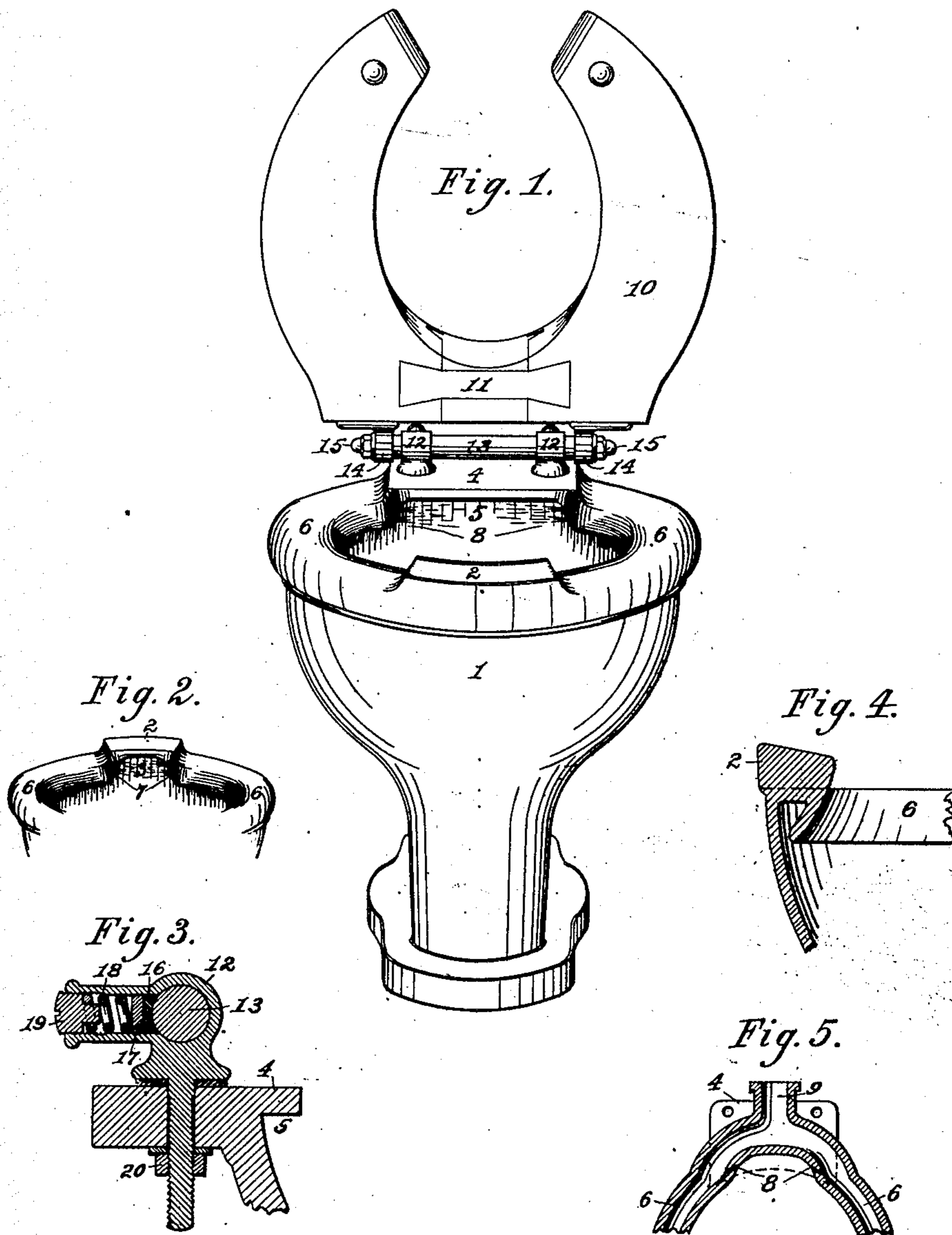
No 860,540.

PATENTED JULY 16, 1907.

E. HAMMANN & C. H. MOORE.

WATER CLOSET APPARATUS.

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WITNESSES:

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EDWARD HAMMANN AND CHARLES H. MOORE, OF NEW YORK, N. Y., ASSIGNORS TO J. L. MOTT IRON WORKS, A CORPORATION OF NEW YORK.

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No. 860,540.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed December 7, 1903. Serial No. 184,210.

To all whom it may concern:

Be it known that we, EDWARD HAMMANN and CHARLES H. MOORE, both citizens of the United States, residing, respectively, at the borough of Brooklyn, in the city of New York, county of New York, and State of New York, and at the borough of Manhattan, in the city of New York, county of New York, and State of New York, have invented a new and useful Improvement in Water-Closet Apparatus, of which the following is a specification.

This invention relates to water closets and it consists of certain novel parts and combinations of parts particularly pointed out in the claims concluding this specification.

In the accompanying drawings wherein we have shown a preferred embodiment of our invention by way of illustration, Figure 1 is a perspective view of a bowl involving our invention; Fig. 2 is a perspective view looking into the bowl from the rear; Fig. 3 is a sectional view of one of the hinged posts for the seat; Fig. 4 is a sectional view of a modified form of our invention; Fig. 5 shows a central cross section of the channel connecting the supply pipe with the flush rims.

The following is a description of the water closet bowl shown in the drawings, which illustrate forms in which we at present prefer to embody our invention, but it will be understood that various modifications and changes may be made in the details of the same without departing from the spirit of our invention and without exceeding the scope of the concluding claims.

Referring to Figs. 1, 2, 3 and 5 of the drawings, the numeral 1 represents a water closet bowl provided with the flushing rims 6 6. These two rims connect with a common source of supply by means of the channel 9 at the rear of the bowl. They then lead around each side of the bowl to the front where they terminate, leaving a recess or space 3 between their ends, the walls of this recess being the surface of the bowl and the opposed ends of the flush rim. The upper surface of the flush rim is raised above this recess and extended to form a shield 2 over the same. The ends of the flush rim have perforations 7, 7 therein whereby the surface of the bowl in the recess may be flushed. At the rear of the bowl, also, the ends of the flush rims are opposed to each other and a recess or space 5 is here formed, the walls of said recess being the ends of the rims and the rear surface of the bowl. The upper surface of the flush rim at this point is preferably raised above the general contour of the rim and forms a shelf, the top of which extends inward to the line of the flush rims and outward beyond the back of the bowl. The surface of the recess beneath this plate is flushed by means of the perforations 8, 8, in the opposed ends of the flush rims.

The numeral 10 indicates the seat which has the front

cut away and the ends thereof formed to fit each side of the shield 2, which shield preferably projects slightly beyond the front of the bowl so as to meet the forward ends of the seat and impart to the structure a symmetrical appearance. The seat at the rear has a dove-tail block 11 inlaid to prevent the section from parting.

The numerals 12, 12, indicate hinged posts each having a tubular section extending to the rear. These posts are secured to the rear of the shelf 4 by a nut 20 or other means.

13 is a rod extending through the hinged posts and to which the seat hinges, 14, 14 are secured by means of nuts 15, 15 which are screwed to the ends of the rod 13.

16 is a washer of any suitable substance within the rearwardly extending section of the hinged posts 12. This washer serves as a lock to check the movement of the rod 13, against the surface of which it is forced by means of the spring 18 and the screw plug 19. Thus the seat is maintained in an upright position and prevented from falling or striking the wall.

17 is a metal disk placed between the spring 18 and the washer 16 and serves to prevent injury to the washer by the spring.

In the modification shown in Fig. 4 the shield 2 is made solid and is formed with the top surface inclined downward toward the center of the bowl and the inner surface is inclined toward the wall of the bowl.

Heretofore it has been the practice to construct water closets with the flushing rim extending entirely around the bowl. With such construction there is, therefore, no means for cleansing the outside of the flush rim at the front and rear where it may at times be necessary to so clean it, unless the same is done manually. With our invention, it will be plainly seen that this difficulty has been overcome, for, by dividing the flush rim a recess is left at the front and at the rear between the ends of the rims where any substance might collect, and these recesses are flushed by means of perforations in the rims. Hence, all the surface within the bowl necessary to be cleaned will be flushed.

Further, it will be noted, as we have previously stated in this specification, that the upper surface of the flush rim at the front of the bowl is raised above the recess and extended to form a shield 2 over the same, and also that at the rear of the bowl the ends of the flush rims are opposed to each other and a recess or space 5 formed, the walls of said recess being the end of the rims and the rear surface of the bowl. Further, the upper surface of the flush rim at this point, or the rear, is also raised or elevated above the general contour of the rim. It will therefore be noted that we have provided a bowl having a front elevated portion formed with a recess and a rear elevated portion formed

with a recess, and that the entire bowl, including the main portion of the bowl, and the front and rear elevated recess, may be thoroughly flushed. Therefore, any substance, instead of collecting upon the rim at the front and rear of the bowl, will lodge in the recess from whence it is readily removable by means of the flush.

What we claim is;

1. A water closet bowl having a flushing rim, a shield formed on the top and front of the bowl integral with the rim and having the sides within the bowl cut away to form a recess, a flushing rim terminating at each side of the recess and having an outlet at either end discharging into the recess to clean the wall of said recess, and a seat having the front cut away to conform to the sides of the shield.

2. A water closet bowl provided with side flushing rims, a shelf at the rear of said rims, a recess being formed by said shelf and rims, and means for supplying a fluid to said recess to flush the same.

3. A water closet bowl having a divided flush rim with perforations in the ends thereof whereby the surface of a recess formed at the ends of the divided rim may be flushed and a shield extending above the flush rim and over said recess at the front of the bowl.

4. A water closet bowl having a divided flush rim with perforations in the ends thereof, whereby the surface of a recess formed by said divided rim at the rear of the bowl may be cleaned.

5. A water closet bowl having a divided flush rim with perforations in the ends thereof, whereby the surface of a recess formed by said divided rim at the rear of the bowl may be cleaned, and an elevated shield arranged at the front of said bowl.

6. A water closet bowl having a flushing rim extending around the sides of the bowl, said rim being divided at the front and rear and having perforations in the ends thereof, whereby the surface of the bowl between the opposed ends may be flushed, an elevated shield at the front of the bowl and a seat having the front end thereof cut away to accommodate such elevated shield.

7. A water closet bowl having a flush rim, an elevated portion formed on the bowl at the front thereof and extending above the flush rim, a second elevated portion formed at the rear of the bowl and extending above the flush rim, and a seat having the front thereof cut away to accommodate the elevated portion at the front of the bowl.

8. A water closet bowl provided with a flush rim, an

elevated shield formed above the flush rim at the front of the bowl, a second elevated shield formed above the flush rim at the rear of the bowl, both said shields having the sides thereof within the bowl recessed, such recesses being flushed from the flushing rim, and a seat member having the front portion thereof cut away to accommodate the elevated shield at the front of the bowl.

9. A water closet bowl having a flushing rim provided with perforations for the flow of water, a shield at the rear of the bowl forming a recess in conjunction with the flushing rim, a recessed elevated shield at the front of the bowl and a seat having an opening in the front portion thereof to accommodate the elevated shield.

10. A water closet bowl having a divided flushing rim, an elevated shield formed on the top and front of the bowl and having the under portion of the side within the bowl cut away to form a recess, said recess being flushed by perforations in the opposed ends of the flushing rim.

11. The combination with a closet bowl provided with a continuous rim, one portion of which is elevated above the rest, said rim having a flushing outlet in its interior surface, of a seat adapted to rest upon said rim with its upper surface substantially flush with the upper surface of the elevated portion of the rim and being cut away to accommodate such elevated portion.

12. The combination with a closet bowl provided with a continuous rim having an elevated portion at the front thereof, a second elevated portion at the rear thereof, means for flushing the elevated portions of the rim, and a seat adapted to rest upon said rim with its upper surface substantially flush with the upper surface of the elevated portion of the rim at the front of the bowl and being formed to accommodate such elevated portion.

13. A water closet bowl provided with a recess at the front thereof, a recess at the rear thereof, and means for flushing the main body of the bowl and the recesses at the front and rear.

14. A water closet bowl provided with an elevated recessed portion at the front of the bowl, an elevated recessed portion at the rear of the bowl, a flushing rim provided with means for flushing the main portion of the bowl and elevated recesses at the front and rear, and a seat portion for the bowl having the front thereof cut away to accommodate the elevated portion at the front of the bowl.

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