

No. 691,768.

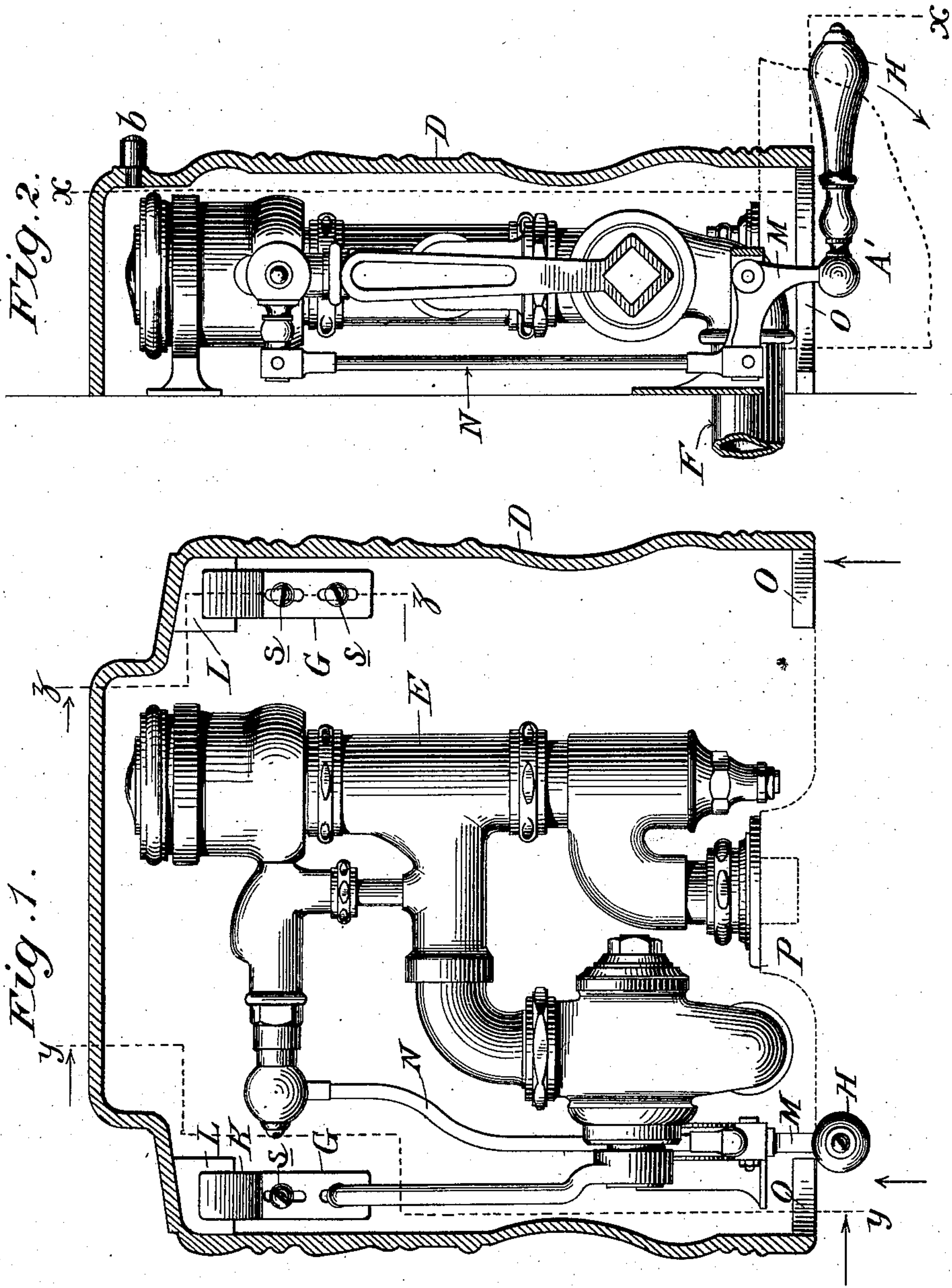
Patented Jan. 28, 1902.

W. E. HINSDALE.
WATER CLOSET.

(Application filed Apr. 11, 1901.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses
Edward C. Dooland
M. F. Keating

Inventor
Winfield E. Hinsdale
By his Attorney
Charles J. Keating

No. 691,768.

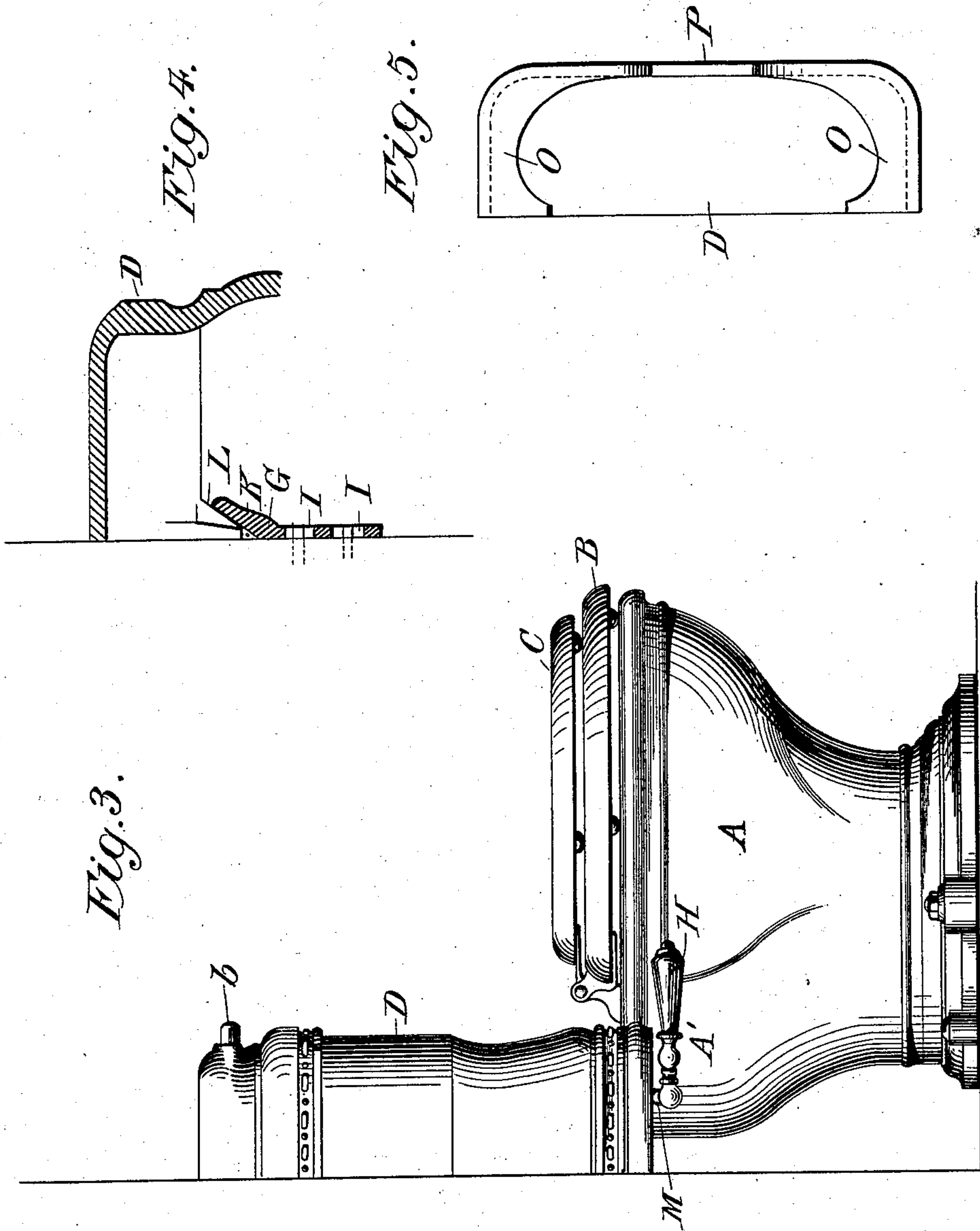
Patented Jan. 28, 1902.

W. E. HINSDALE.
WATER CLOSET.

(Application filed Apr. 11, 1901.)

(No Model.)

2 Sheets—Sheet 2.



Witnesses
Edward C. Rowland
No. F. Keating

Inventor
Winfield E. Hinsdale
By his Attorney
Charles J. Kintner

UNITED STATES PATENT OFFICE.

WINFIELD E. HINSDALE, OF NEW YORK, N. Y.

WATER-CLOSET.

SPECIFICATION forming part of Letters Patent No. 691,768, dated January 28, 1902.

Application filed April 11, 1901. Serial No. 55,326. (No model.)

To all whom it may concern:

Be it known that I, WINFIELD E. HINSDALE, a citizen of the United States, residing at New York, borough of Manhattan, county and State of New York, have made a new and useful Invention in Water-Closets, of which the following is a specification.

My invention is directed particularly to improvements in that type of water-closets in which the valve-controlling mechanism for regulating the flushing of the closet is adapted to be located closely adjacent thereto—such, for instance, as is disclosed in a prior patent granted to me on the 20th day of March, 1900, and bearing No. 645,622; and it has for its objects, first, to provide a removable cover for the valve-controlling mechanism thereof which shall conceal and protect the same; second, to devise such a cover of earthenware and without perforations or holes therein and to sustain the same wholly from the marble slab or tiled or plastered wall usually located directly in the rear of the closet; third, to construct such a removable cover of earthenware similar to the material of the closet and in such manner as to give to it as great strength as possible, and, fourth, to provide a removable earthenware cover for the valves and operative parts of the flushing device of a water-closet with a yielding or flexible bumper adapted to prevent the cover of the closet when raised suddenly from being marred or from injuring the former.

For a full and clear understanding of the invention, such as will enable others skilled in the art to construct and use the same, reference is had to the accompanying drawings, in which—

Figure 1 is a vertical sectional view taken through my improved removable cover on the broken line xx , Fig. 2, and as seen looking thereat from right to left, the means of supporting the same, the valve-controlling mechanism, and the operating-handle being shown in elevational view. Fig. 2 is a transverse sectional view taken through Fig. 1 on the broken line yy and as seen looking thereat from left to right in the direction of the arrows, the valve-controlling mechanism and operating-handle being shown in side elevational view. Fig. 3 is a side elevational view of the entire closet with my improved remov-

able cover and valve-operating handle. Fig. 4 is a detail sectional view taken on the broken line zz , Fig. 1, through the upper part of the removable cover and one of the adjustable brackets and as seen looking thereat from left to right in the direction of the arrows. Fig. 5 is a bottom plan view of the removable cover as seen looking at Fig. 1 from the bottom toward the top of the drawings in the direction of the arrows, said figure, however, being made on reduced scale.

In the construction of modern water-closets wherein the valve-controlling mechanism for regulating the flushing of the closet is located closely adjacent to and usually in the rear thereof it has been customary heretofore to conceal these parts wholly within the wall, thereby necessitating the opening of the wall when it became necessary to examine or repair the parts, or to make all of said parts of metal and to polish the same highly for ornamental purposes, securing them directly to the marble slab or to the tiled or plastered wall. It is found, however, in practice that owing to the close proximity of such valve-controlling mechanism to the closet, in the latter case, where it is wholly exposed, the highly-polished surface soon becomes oxidized by the presence of well-known oxidizing agents and therefore necessitates frequent polishing, thereby requiring a great amount of labor to keep it clean. The construction of such valve-controlling mechanism of polished material also necessarily increases the cost of the apparatus. My improvement contemplates the concealing of all of these parts by a removable cover, preferably of earthenware and of the same general design as the top of the closet proper, said cover also being constructed of a single piece of material without holes or openings and of such strength as to withstand ordinary usage without danger of breaking, at the same time being so supported by adjustable brackets upon the marble slab or tiled or plastered wall as to be entirely independent of the closet proper and easily removable, so that the concealed parts may be examined, adjusted, or repaired.

Referring now to the drawings in detail, A represents an earthenware water-closet having a wooden seat B and the usual hinged wooden lid C, said closet being of ordinary

and well-known form and secured to the floor by bolts or screws in the usual manner.

E, Fig. 1, represents the valve-controlling mechanism as a whole for flushing the closet, said valve-controlling mechanism in the present instance being substantially like that disclosed in my prior patent above mentioned, provided with a bell-crank lever M, connecting-link N, and operating-handle H in close proximity to the seat B, said valve-controlling mechanism being secured to the top of the closet and to the wall at its upper end, as shown.

F is the inlet-pipe entering the valve-controlling mechanism at the bottom and from the rear.

D represents my novel removable cover for the valve-controlling mechanism, the same being constructed, preferably, of a single piece of earthenware and similar in all respects to the earthenware part of the closet A. This cover is preferably of the general contour shown, entirely open at the rear, and provided at the bottom with an upwardly-extending indentation P, adapted to fit when the cover is in position over or above the rear extension A' of the closet A, the general structure being such that the operating-handle H is below the lower end thereof. The lower inner surface of this cover is provided with laterally-extending flanges O O, adapted to give greater strength to the structure and to prevent the same from warping in the process of manufacture.

L L are inclined sustaining-shoulders near the upper part of and integral with the cover and adapted to rest, when the cover is in position, upon the inclined upper ends K K of two adjustable brackets G G, said brackets being made, preferably, of metal and provided with oblong slots I I. The brackets G G are secured in place to the marble slab or to the tiled or plastered wall by screws s s. It is the function of the slots in these adjustable brackets to enable the plumber in putting the brackets in place to locate the screws s s in the cracks of a brick wall between the bricks and to afterward adjust the brackets vertically to the proper height to sustain the removable cover D when the screws are screwed firmly home with proper relation to the top of the extension A' of the closet A.

b represents a yielding or flexible bumper, preferably of rubber, secured in an opening near the center at the front and upper end of the removable cover for the purpose of preventing any damaging action to the cover D when the lid C of the closet is opened suddenly. The use of this removable cover is at once obvious, it being apparent that after the valve-controlling mechanism E and the adjustable brackets G are secured in place it is only necessary to suspend the cover D upon the brackets, much in the same manner as one ordinarily places a metal hand-blower over the grate of a coal fire, and in this connection I may, if preferred, have ornamental

handles at the sides or elsewhere on the cover D for more readily effecting the removal thereof; but I prefer not to provide any such handles, for the reason that it is at once obvious that this cover should have the appearance of being a permanent structure, and the nature of its ready removal should only be cognizant to those who are authorized to remove it—as, for instance, the plumber, the housemaid, or the janitor.

I do not limit my invention to the specific details of construction herein shown and described. I believe it is broadly new with me to provide means in the nature of a removable cover constructed of a single piece of earthenware and of hood-like form open at its rear for protecting and concealing the valve-controlling mechanism of a water-closet, and my claims are generic as to this feature. I believe it is also broadly new with me to devise a cover for the valve-controlling mechanism of a water-closet of a single piece of earthenware without perforations or holes for the working or sustaining parts and of such a nature that the same may be lifted from its support or supports, preferably secured to the marble slab or tiled or plastered wall in the rear of the closet, in the same manner as a blower is removed from over the open grate of a coal-fireplace, and my claims are generic also as to this feature.

I am aware that it has been proposed heretofore to cover or conceal the flushing device of a water-closet or a urinal-bowl by a chamber permanently secured to the body of the closet or to the urinal and to provide a removable cover at the top of said chamber, said removable cover being detachably secured to the chamber by exposed nuts or bolts, the arrangement being such that in order to examine the interior structure it was necessary to remove said bolts and also such that the bolts or sustaining parts, which were of metal, were necessarily exposed, and consequently required, as hereinbefore indicated, occasional cleaning, such a structure being described and shown in British Patent No. 10,687, of July 29, 1884, and United States Patent No. 473,715, of April 26, 1892, granted to John Shanks, and I make no claim hereinafter broad enough to include the same, my improvement being directed to a single removable hood or cover which wholly conceals all of the valve mechanism and in such manner that the sustaining parts are wholly concealed, the hood or cover being removable without the necessity of withdrawing bolts, screws, or other sustaining parts.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A removable cover for the top, front and adjacent sides of the valve-controlling mechanism of a water-closet constructed of a single piece of material of hood-like form, open at its rear, and provided with concealed means located wholly within the cover for suspend-

ing it from the wall in the rear of a closet, substantially as described.

2. A cover for the top, front and adjacent sides of the valve-controlling mechanism of a water-closet constructed of a single piece of hood-like form, open at its rear, and provided with concealed means for removably sustaining it independent of the closet, substantially as described.

3. A cover for the top, front and adjacent sides of the valve-controlling mechanism of a water-closet; in combination with means for removably sustaining it in close proximity to the closet and independent thereof, said means being wholly concealed within the cover, substantially as described.

4. A cover for the top, front and adjacent sides of the valve-controlling mechanism of a water-closet consisting of a single piece of hood-like form, provided with integral means for removably engaging a sustaining device located wholly within the cover; in combination with sustaining-brackets therefor secured to the wall, the arrangement being such that when the cover is in position all of the sustaining parts are wholly concealed, substantially as described.

5. An earthenware cover for the top, front and adjacent sides of the valve-controlling mechanism of a water-closet, open at its rear and having strengthening-flanges at its lower end, said cover being so constructed as to fit with its open side against a wall and its lower end directly over the rear of the closet; in combination with means for removably sustaining it against the wall, said means being wholly concealed, substantially as described.

6. An earthenware cover for the top, front and adjacent sides of the valve-controlling mechanism of a water-closet, open at its rear and having concealed means for removably engaging a support in the rear of the closet; and having a flexible bumper for the lid of the closet, the arrangement being such that the cover may be lifted bodily off its supporting means, substantially as described.

7. An earthenware cover for the top, front and adjacent sides of the valve-controlling

mechanism of a water-closet, open at its rear and having concealed integral means for removably engaging a support; in combination with supporting-brackets adjustably secured to the wall in the rear of the closet and in such manner that the cover may be removably supported thereon, substantially as described.

8. An earthenware cover for the valve-controlling mechanism of a water-closet, open at its rear and having laterally-extending flanges O, O at its bottom and concealed inclined sustaining-shoulders L, L, substantially as described.

9. A cover for the valve-controlling mechanism of a water-closet made of one integral piece of earthenware having concealed inclined sustaining-shoulders L, L, laterally-extending strengthening-flanges O, O and a flexible bumper for the lid of the closet, substantially as described.

10. An earthenware cover for the top, front and adjacent sides of the valve-controlling mechanism of a water-closet having concealed integral means of support, said cover being wholly without perforations or holes, substantially as described.

11. An earthenware cover for the top, front and adjacent sides of the valve-controlling mechanism of a water-closet, provided with sustaining means integral therewith and located wholly within the interior thereof, said sustaining means being integral with the cover, substantially as described.

12. A cover for the top, front and adjacent sides of the valve-controlling mechanism of a water-closet made of a single piece of earthenware having concealed means wholly within its interior surface for supporting or sustaining it, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WINFIELD E. HINSDALE.

Witnesses:

C. J. KINTNER,

M. F. KEATING.