Feb. 23, 1926.

1,574,288

A. E. HOHMEISTER

DRAIN COVER

Filed April 30, 1923

FIG. 1

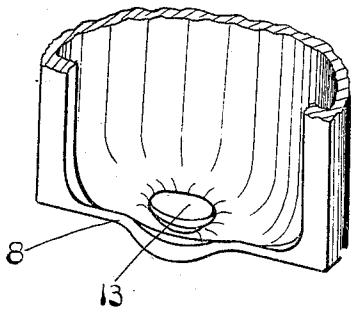


FIG. 3

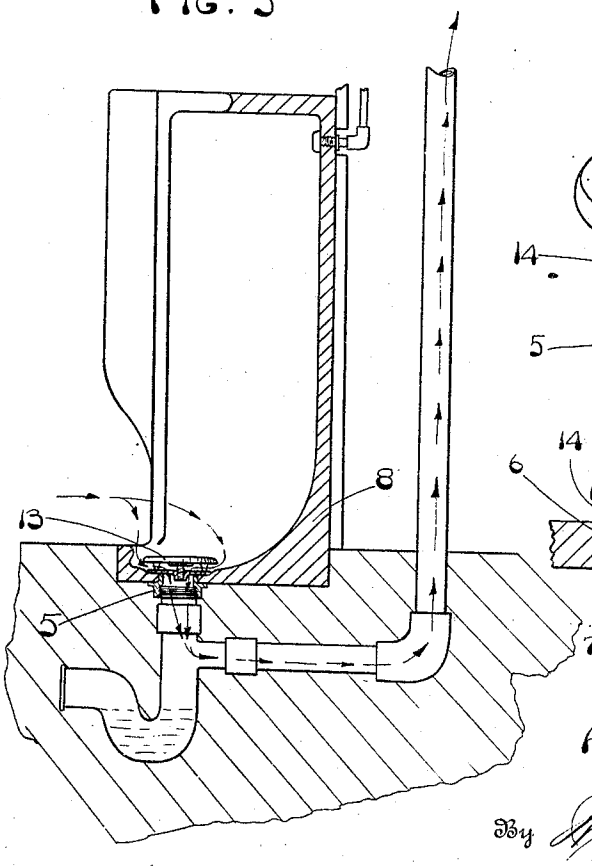
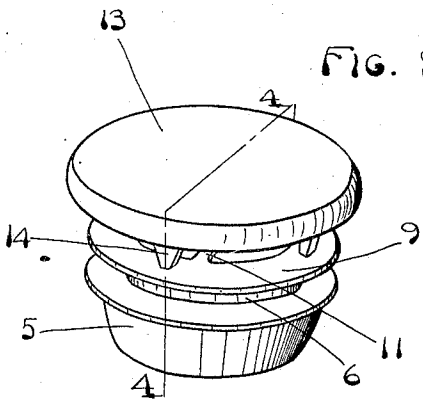


FIG. 2



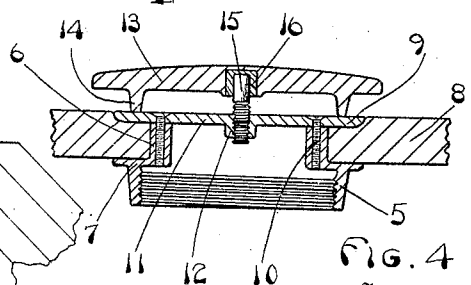


FIG. 4

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Patented Feb. 23, 1926. 1,574,288.

UNITED STATES PATENT OFFICE.

ARTHUR E. HOHMEISTER, OF CINCINNATI, OHIO, ASSIGNOR TO THE JOHN DOUGLAS COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO.

DRAIN COVER.

Application filed April 30, 1923. Serial No. 635,570.

To all whom it may concern:

Be it known that I, ARTHUR E. HOHMEISTER, a citizen of the United States of America, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in a Drain Cover, of which the following is a specification.

An object of my invention is to provide an outlet cover for use with stall urinals and the like that will present a uniform appearance with the interior of such fixtures.

Another object of my invention is to provide a device for the purpose stated that will establish such ventilation that will carry all odors into the drain, thereby eliminating the fouling space and odors arising therefrom incident to ordinary outlets of this nature.

Another object is to provide a removable cover for such outlets.

These and other objects are attained by the means described herein and disclosed in the accompanying drawings in which:

Fig. 1 is a fragmental perspective view of a stall to which a device embodying my invention has been applied.

Fig. 2 is a perspective view of an outlet structure embodying my invention.

Fig. 3 is a vertical cross section of a stall and outlet structure, embodying my invention, and showing the usual vent and drain connections.

Fig. 4 is a cross sectional view on line 4—4 of Fig. 2.

My invention comprises a tubular coupling 5 having a flange 6 and a shoulder 7 upon which the vitreous material 8 of the stall engages. A ring 9 is secured upon the flange 6 by means of screws 10. The ring 9 is mounted flush with the interior surface of the stall.

A central rib 11 of the ring 9 has a threaded bore 12 midway its ends. The cover 13 is of non-fouling and preferably vitreous material and carries integral lugs 14 and a central fastening screw 15 which engages the threaded bore 12 in the rib 11, thereby securing the cover 13 spacedly from the ring 9 thru the agency of the lugs 14.

In ordinary outlets the exposed metal face corresponding to the upper face of the ring 9 constitutes a fouling area upon which foreign sediment will accumulate in spite of the usual flushing and from this surface odors rise into the room instead of being carried off by the current of air thru the vent pipe. A vitreous surface will not foul. The cover precludes entry of air into the drain except by passing over the ring. The cover causes the air currents to pass radially inward across the entire surface of the ring. Without the cover, air currents can pass directly downward thru the openings in the ring, wherefore practically the whole surface of the ring constitutes a fouling space.

The screw 15 may be mounted on the cover by any suitable means or method for example by being leaded therein as shown at 16 in Fig. 4.

What I claim is:

1. A urinal structure comprising a metallic drain pipe having an inlet opening, a vent pipe communicating with the drain pipe below the inlet opening, a vitreous fixture having an opening for receiving the open end of the drain pipe and for directing fluid into the drain pipe, and an imperforate vitreous cover over and spaced from the inlet opening of the drain pipe, the vitreous cover serving as a deflector for distributing a flow of air over all of the metal parts of the structure at the inlet opening and which air moves into the drain pipe inlet opening and into the vent.

2. A urinal structure comprising a metallic drain pipe having an inlet opening at one end, a vent pipe communicating with the drain pipe below the inlet opening, a vitreous fixture having an opening for receiving the open end of the drain pipe, a rib at the inlet opening of the drain pipe, a vitreous cover of a diameter in excess of the inlet opening, and means for mounting the vitreous cover on the rib in spaced relation thereto and above said opening whereby air must sweep over all fouling metal disposed at the inlet opening on its way to the vent and whereby all fouling odors are drawn into the vent and precluded from rising over the vitreous cover.

3. A urinal structure comprising a vitreous fixture having an opening in its bottom, a metallic tubular coupling received in said opening, and having a flange for engaging the under side of the vitreous fixture, a metallic ring engaging the upper side of said vitreous fixture and mounted on said coupling whereby the fixture is held between said coupling and ring, a vent pipe com-

municating with the coupling below the fixture, a metallic rib carried by the ring and extending across the opening in the tubular coupling, a vitreous cover of a diameter in excess of the diameter of the ring and the metal parts exposed at the upper surface of the vitreous fixture, and means for mounting the cover above and spaced from the ring whereby air must sweep over all metal exposed at the upper surface of the vitreous fixture on its way to the vent for precluding rising of fouling odors over the cover.

In testimony whereof, I have hereunto subscribed my name this 26th day of April, 1923.

ARTHUR E. HOHMEISTER.