

Feb. 27, 1934.

J. C. DUNER

1,949,246

WATER CLOSET

Filed Aug. 22, 1931

2 Sheets-Sheet 1

Fig. 1

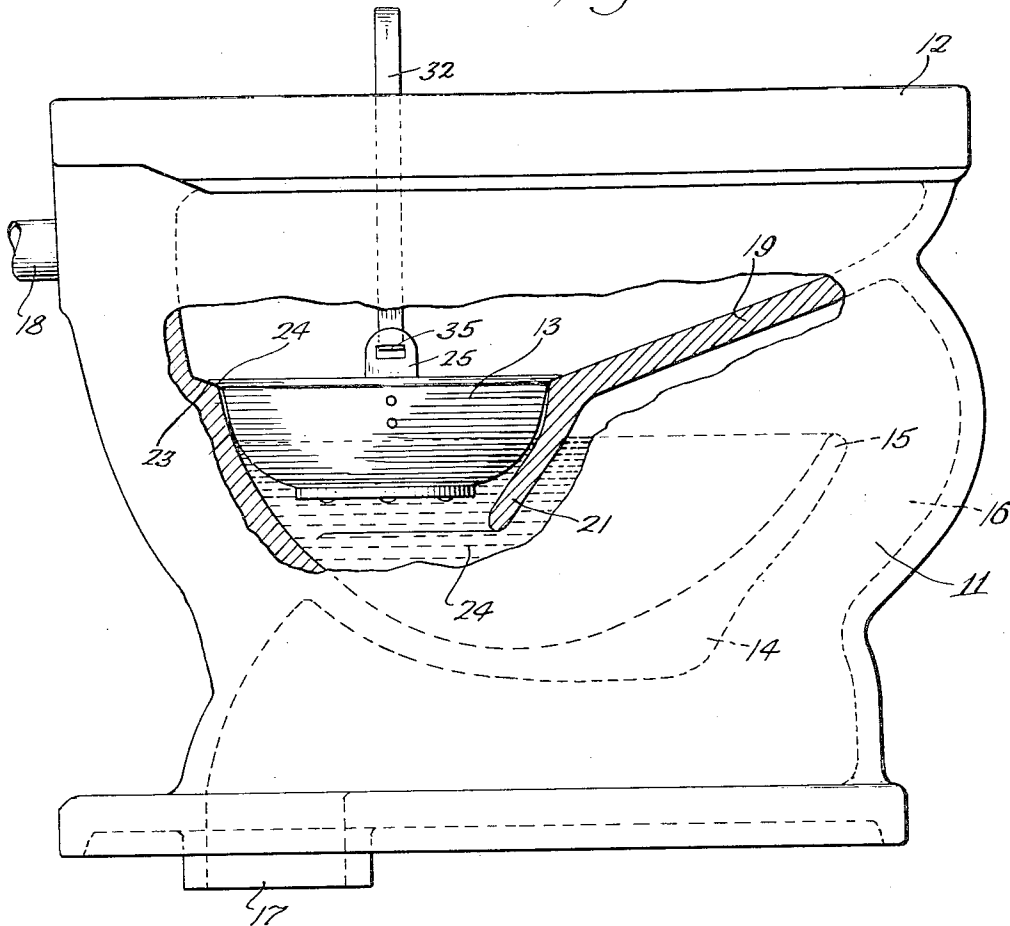
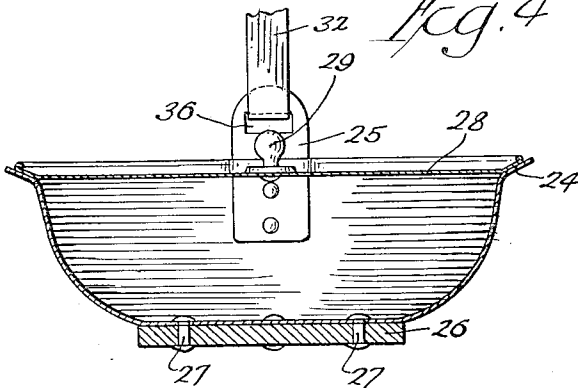


Fig. 4



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Fig. 2

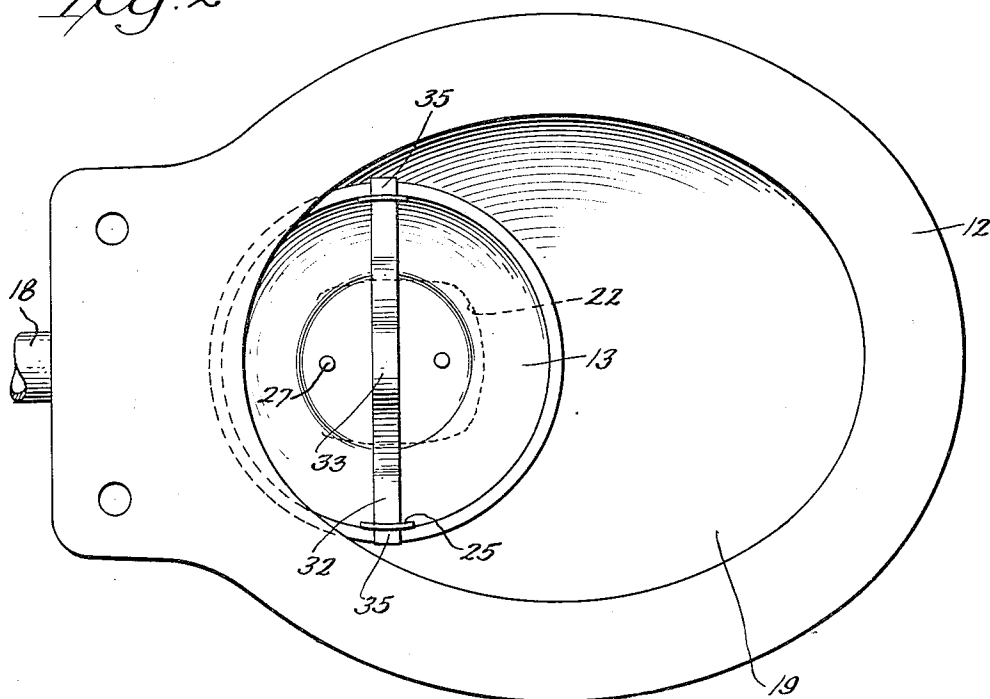
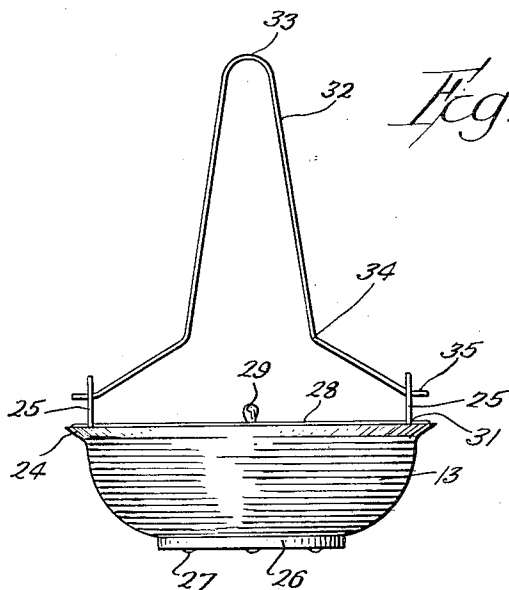


Fig. 3



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UNITED STATES PATENT OFFICE

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WATER CLOSET

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Application August 22, 1931. Serial No. 558,744

3 Claims. (Cl. 4-1)

This invention relates to water closets, and has for its object broadly the provision of a water closet adapted particularly but not exclusively for hospital and similar uses where it is desired to retain samples of the urine and movements of patients for laboratory analysis.

A principal object of the invention is the provision of a water closet of this character, the interior construction of the closet bowl basin (the inlet and outlet of which may be substantially those generally in use) being such that it may be readily installed without special roughing in requirements and which may be operated without special instructions to the users.

Another important object of the invention is the provision of a pan for retaining the desired samples, which may be readily positioned and removed from the closet bowl and if desired be so formed and constructed that little or no special formation of the closet bowl itself will be necessitated.

Another important object of the invention is the provision of an apparatus of the character described, which will permit of the easy closing of the sample container and its removal and transference to the laboratory with the sample sealed or substantially sealed and without attendant odor.

Numerous other objects of the invention will be apparent as it is better understood from the following description, which, when taken in connection with the accompanying drawings, discloses a preferred embodiment thereof.

On the drawings,

Figure 1 is a side elevation of a water closet embodying the present invention, the parts being broken away and shown in section;

Fig. 2 is a top plan view thereof;

Fig. 3 is a side elevation of a pan or sample container; and

Fig. 4 is a transverse sectional view of the pan and container.

The water closet embodying the present invention as shown on the drawings comprises generally a closet bowl or stand 11, (generally of usual or preferred construction), the usual seat 12, and the sample pan 13. The bowl is or may be of ceramic material with an internal partition 14 adapted to contain flushing water to form a trap communication at its forward end 15 with the passage 16 through which the usual siphoning action may be created as the water closet is flushed through the outlet 17 and from a supply pipe 18. A second partition 19 arranged

within the bowl forms the usual basin with the sides and back of the bowl.

The partition 19 extends down at 21 into the water seal (indicated at 22) to complete the siphon passageway. The parts are preferably constructed so that a ledge 23 extends around the opening from the basin to the water seal and the pan 13, which will be presently more fully described, is or may be provided with a flange 24 adapted to engage the ledge 23 and support the pan in receiving position.

It will be manifest that from certain aspects of the invention the pan or container 13 may be constructed to fit commercial bowls now upon the market by merely giving to the pan the superficial shape of the opening from the basin into the trap. In service the pan may be lowered into receiving position by the handle, the handle removed, the water closet used, the cover placed in position, and the handle reengaged for lifting the filled pan from the closet.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing description, and it will be apparent that various changes may be made in the form, construction and arrangement of the parts without departing from the spirit and scope of the invention or sacrificing all of its material advantages, the form hereinbefore being merely a preferred embodiment thereof.

The pan 13 is or may be constructed of drawn sheet material coated with an enamel. It is preferably of the general drawn form shown and is provided at opposite sides with handle engaging parts or lugs 25 which, in the preferred embodiment of the invention, extend up vertically above the pan. It is intended that the pan shall extend down into the water seal and to this end it is given a sufficient weight to prevent floating so that engagement of the flange 24 with the ledge 23 is assured.

In the instant embodiment of the invention a weight 26 of lead or other suitable material is secured at 27 to the bottom of the pan. Cover 28, having a lifting handle 29, is provided to fit the top of the pan and rest closely upon the supporting flange 24. This cover is slotted adjacent its side edges at 31 to fit down and receive the handle engaging lugs 25.

A handle, generally indicated at 32, is adapted to be engaged with the pan to position and remove it. This handle may consist of a strap of sheet metal or spring material looped at its center at 33 to provide a grip part and bent outwardly at each side near the bottom at 34 to pro-

vide outwardly projecting ends 35 adapted to enter into slots 36 in the lugs 25, the spring of the handle forcing the ends 35 outwardly into the desired engagement with the lugs.

5 I claim:

1. A water closet, comprising a closet bowl having a basin at its top, a water seal beneath said basin, and a pan adapted to be removably inserted through said basin and into the inlet
10 opening of said water seal, said pan having a specific gravity causing it to be immersed in said water seal to form a continuation of the bottom of the basin.

15 2. A water closet, comprising a closet bowl, a

water seal and a basin above said water seal with an opening for communication with the water seal, and a removable pan adapted to fit in and to close said opening, said pan having supporting parts engaging said basin.

3. A water closet, comprising a closet bowl having a water seal, a basin above said water seal and opening into said water seal, said basin having a ledge surrounding said opening, and a
85 pan removably inserted in said opening and into the inlet opening of said water seal, said pan having flanges adapted to rest on said ledge.

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