(No Model.)

H. BARRON & H. RAIMES.

WATER CLOSET ATTACHMENT.

No. 262,531. Patented Aug. 8, 1882.

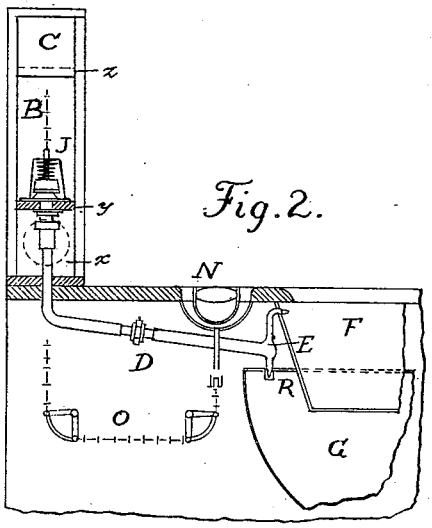


Fig. 2.

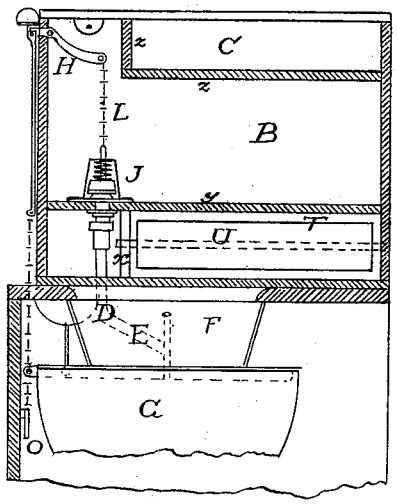


Fig. 3.

Fig. 1.

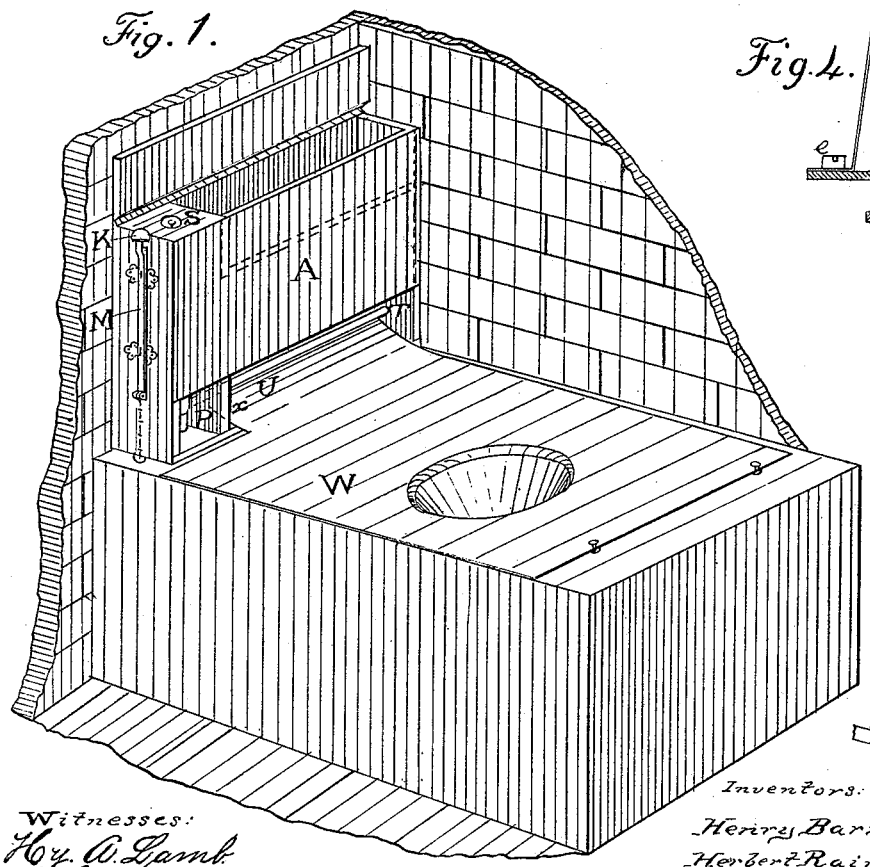


Fig. 4.

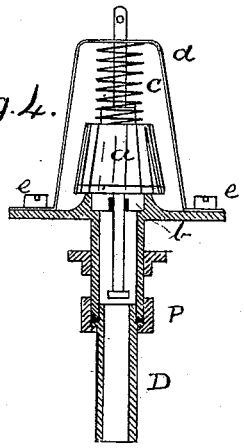
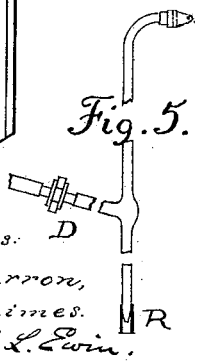


Fig. 5.



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UNITED STATES PATENT OFFICE.

HENRY BARRON AND HERBERT RAIMES, OF KILBURN, COUNTY OF MIDDLESEX, ENGLAND.

WATER-CLOSET ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 262,531, dated August 8, 1882.

Application filed April 25, 1882. (No model.) Patented in England November 15, 1881, No. 5,003.

To all whom it may concern:

Be it known that we, HENRY BARRON and HERBERT RAIMES, both of Kilburn, in the county of Middlesex, England, British subjects, have invented certain Improved Water-Closet Attachments, (for which we have obtained a patent in England, No. 5,003, dated 15th November, 1881,) of which the following is a specification.

Our invention relates to water-closets, and is designed to afford compact and convenient means, first, for disinfecting or deodorizing the noxious exhalations therefrom; second, for storing the paper; and, third, for providing a cover to protect the person of the sitter from a damp or cold seat.

In the accompanying drawings, forming part hereof, Figure 1 is a perspective view of the device fitted to a water-closet. Fig. 2 is a front sectional view of the same. Fig. 3 is a side sectional view of the same. Fig. 4 is a detail view of the valve we prefer to employ. Fig. 5 is an enlarged sectional view of the nozzle and protecting-sleeve.

Like letters refer to like parts throughout the figures.

An upright flat rectangular box, A, is provided with an L-shaped partition, *z*, and an elevated bottom, *y*, to form therein two chambers, B C. This box is secured upon the stile of the closet-seat, at one end thereof, or is affixed to the wall immediately above the level of said seat within a convenient distance from the sitter.

The chamber B is made water-tight to form a cistern for any suitable liquid disinfectant or deodorizer. A downflow-pipe, D, conducts the flow of this liquid into a branched discharge-pipe, E, of smaller diameter, which discharges the liquid at its two extremities. The upper extremity is so formed as to deliver in a forked jet or spray at the rim of and across the closet-pan F, so that the falling excreta may pass through it. The lower extremity delivers into the neck of the siphon under the pan-valve or into the container G, and is protected by a sleeve, R, Fig. 5, which may be a piece of rubber tubing. The flow of the liquid is controlled by a lever, H, which lifts a "self-closing" valve, J, (the normal position of which is closed,) from its seating at the mouth of the downflow-pipe D.

The spring-valve we prefer to employ is in the form shown in Fig. 5. *a* is the valve, held tightly in position on its seating *b* at the mouth of the downflow-pipe D by the pressure of a spiral spring, *c*, compressed against a bridge, *d*. The bridge *d* is held by screws *e e* on a shoulder, so as to allow of the easy substitution of a fresh spring when required. The controlling lever H is carried outside the box, and is actuated at the will of the sitter by pressure on a suitable knob, K, on a rod, M, pivoted thereto. Said knob or its equivalent may instead be on the outer end of the controlling-lever itself. When pressure is removed from the controlling-lever the valve J, connected thereto by a rod or chain, L, falls onto its seating, and the two orifices of the discharge-pipe permit the complete emptying of itself and the downflow-pipe, thus preventing accumulation of deposit or sediment therein from the liquid.

We cause the deodorizing or disinfecting apparatus to be operated in the act of emptying the closet-pan by connecting the operating-rod M to the closet-pull N by a suitable arrangement of chains and bell-cranks, O.

For convenience in cleansing we employ a union-joint, P, in the downflow-pipe underneath or near the valve J.

The upper compartment, C, of the box forms a receptacle for paper, and may be provided with a lid. It does not extend the whole length of the box A, in order to leave a well for the play of the lever H and access to the cistern B. This well is closed in by a separate and tight-fitting cover, S, which is perforated at the bottom of a slight concavity formed therein to preserve atmospheric equilibrium and allow any splashings to find their way back to the cistern.

In addition to the foregoing, we form by means of a vertical partition, *x*, below the elevated bottom *y*, a third and lower chamber, T, immediately above the level of the seat, to contain a roller, U, around which may be wound, when not in use, a flexible seat-cover, W, of suitable material, such as woolen cloth lined with water-proof sheeting and padded. This seat-cover (shown spread for use in Fig. 1) is

cut to fit the orifices of the water-closet seat, so as to overlie the surrounding surface, which may be damp or cold, and thus to afford a protection for the person of the sitter. Said chamber T, which may or may not be provided with a door, does not extend the whole length of the box, so as to leave room for the union-joint P and allow of access thereto. The remaining space in front of P may be closed by a door or false panel.

Chambers B, C, and T, as above described, are formed according to our invention of commodious size and in the most effective locations for their respective functions within one and the same simple and symmetrical "box" A, occupying no more space than would be required for said chamber B alone.

The seat-cover W and its roller U form no part of this invention.

Having now fully described the nature of our invention, be it known that what we claim, and desire to protect by Letters Patent, is—

1. A water-closet attachment having a chamber for a liquid deodorizer or disinfectant, and a branched discharge-pipe, which is connected with said chamber and delivers a portion of each discharge horizontally and the remainder downward, substantially as herein described, for the purposes specified.

2. In a water-closet attachment, substantially as herein described, an upright flat box, A, provided with an L-shaped partition, *z*, and a bottom, *y*, forming within said box a chamber, B, for a liquid deodorizer or disinfectant, and a short upper chamber, C, for paper, as shown, for the purposes set forth.

3. In a water-closet attachment, substantially as herein described, an upright flat box, A, provided with an elevated bottom, *y*, and a vertical partition, *x*, beneath said bottom, forming a roller-chamber, T, beneath the chamber B, for a liquid deodorizer or disinfectant, and above the water-closet seat, as specified, for the purpose set forth.

London, 4th April, 1882.

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