(No Model.) 2 Sheets—Sheet 1.

P. MUELLER.

PRIVY.

No. 484,040. Patented Oct. 11, 1892.

Fig. 1.

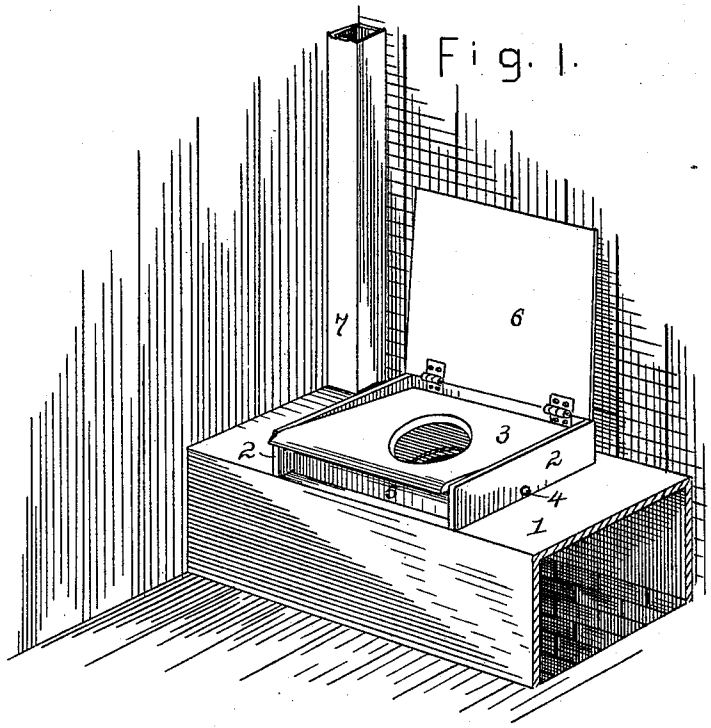
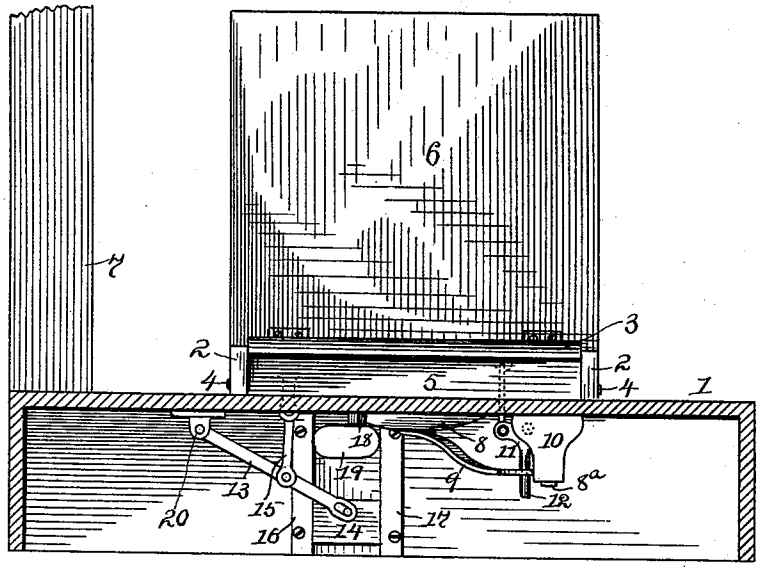


Fig. 2.



ATTEST.

Helen Graham

William Graham

INVENTOR

Philip Mueller

by L. P. Graham

Atty.

(No Model.) 2 Sheets—Sheet 2.

P. MUELLER.

PRIVY.

No. 484,040. Patented Oct. 11, 1892.

Fig. 3.

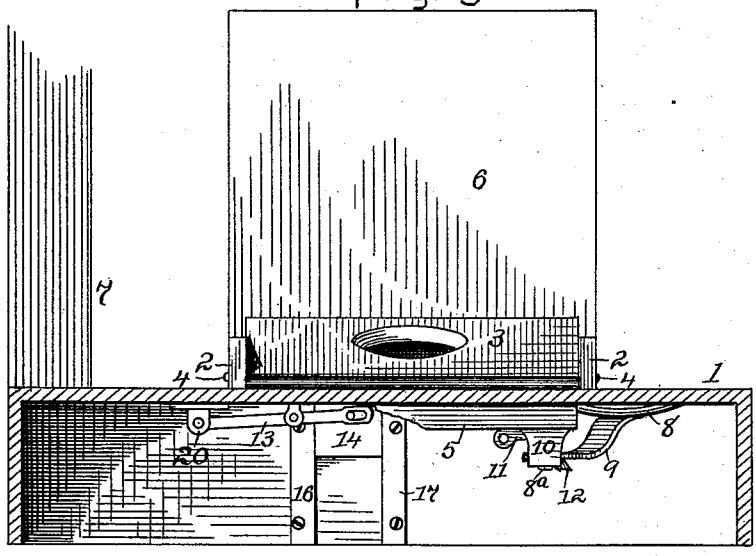


Fig. 4.

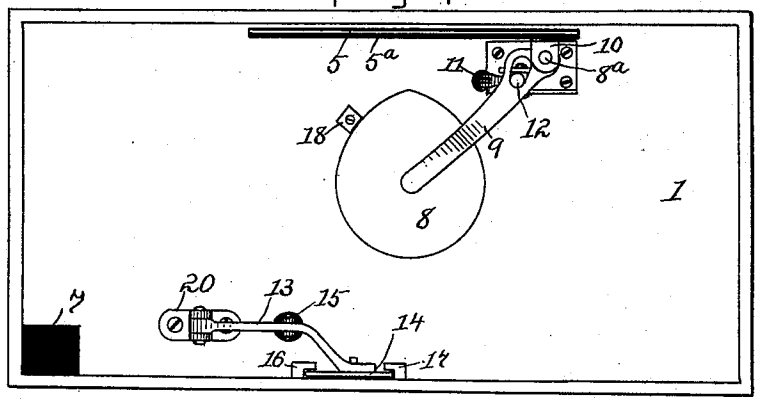
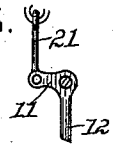


Fig. 5.



ATTEST

Helen Graham

William Graham

INVENTOR

Philip Mueller

By L. P. Graham

Atty.

UNITED STATES PATENT OFFICE.

PHILIP MUELLER, OF DECATUR, ILLINOIS.

PRIVY.

SPECIFICATION forming part of Letters Patent No. 484,040, dated October 11, 1892.

Application filed November 25, 1891. Serial No. 413,068. (No model.)

To all whom it may concern:

Be it known that I, PHILIP MUELLER, of Decatur, in the county of Macon and State of Illinois, have invented certain new and useful Improvements in Privies, of which the following is a specification.

This invention is designed to improve the sanitary condition of privies.

It relates to mechanism for opening and closing the seat-hole and to other mechanism for regulating the ventilation of the vault, and it is adapted to accomplish its different purposes automatically, effectively, and at small expense; and it consists in the details of construction and combinations of parts hereinafter set forth and claimed.

In the drawings accompanying and forming a part of this specification, Figure 1 is a perspective representation of the invention, an end of the seat being broken away. Fig. 2 is a front elevation of the seat with the front broken away to expose the interior, the lid of the seat being raised and the various parts occupying their usual positions when the seat is not in use. Fig. 3 is the same as Fig. 2, except that the seat is shown as it appears when in use, and the seat-hole is consequently opened and the ventilator closed. Fig. 4 is a plan of an inverted seat. Fig. 5 is a side elevation of the bell-crank lever which applies the tilting motion of the auxiliary seat-board to the arm of the plate which is used to close the seat-hole.

The seat 1 is of the usual or any desirable construction. It is placed above a vault or other receptacle, and it has the customary hole, as shown in Fig. 1. Side pieces 2 2 cross the seat from front to back at equal distances from the hole, and they provide bearings for the tilting board 3. This board has a hole coincident with the usual seat-hole. It is weighted at its rear edge. If such provision is necessary to cause the rear edge to overbalance the front edge, it pivots on pins 4. It has under its front portion the downwardly-extending plate 5, (shown partly broken away in Fig. 3,) and it also has connections with the hole-closing and ventilator-regulating mechanisms, as will hereinafter appear.

The plate 5 moves in slot 5^a in the top of seat 1, (see Fig. 4,) and it forms a finish when the front part of the seat-board is tilted up. The lid 6 is hinged to the rear part of the frame of the tilting seat-board. It may be raised out of the way, as shown, and when closed it hides all unsightly features. The ventilator-shaft 7 connects with the seat, as shown, and extends upward beyond the building. The plate 8 is mounted on arm 9, and it is adapted to close the hole in seat 1. The arm 9 swings on a vertical pivot 8^a in bracket 10, and it has a slot through which end 12 of bell-crank lever 11 extends. The bell-crank lever swings on a horizontal pivot in bracket 10, and it connects with the tilting board 3 by means of link 21. (Seen in Fig. 5.) Arm 13 swings on a horizontal pivot in bracket 20. Its swinging end is slotted to receive an end of a pin projecting from slide 14, and it connects by means of link 15 with the tilting board. The slide has motion in grooved ways 16 and 17, and when raised, as seen in Fig. 3, it closes the ventilating-opening 19. (Seen clearly in Fig. 2.) The stop-block 18 is secured to the under side of the seat in correct position to stop plate 8 when it is directly under the seat-hole. The bracket 10 is under the front part of the seat, bracket 20 is under the rear part, and the tilting board is pivoted about midway between the two brackets, so that when the tilting board is in its normal position the slide is pressed downward, leaving the ventilating-opening unobstructed, and the horizontal arm of the bell-crank lever is raised to such an extent that the vertical arm 12 forces the closure-plate under the seat-hole. Then when one sits on the tilting board the front edge thereof is pressed down and the rear edge is raised, the consequence being that the plate is swung clear of the seat-hole and the ventilating-opening is closed, as seen in Fig. 3.

I claim—

In privies, the combination of seat 1, having the customary hole and the ventilating-opening 19, the horizontally-swinging arm 9, carrying plate 8 and having a slot, bell-crank lever 11, having arm 12 extended through the

slot of the arm, the tilting board 3, pivoted at 4, the link 21, connecting the bell-crank lever with the front part of the tilting board, slide 14, adapted to close opening 19, arm 13, carrying the slide, and link 15, connecting the arm 13 with the rear part of the tilting board, as set forth.

In testimony whereof I sign my name in the presence of two subscribing witnesses.

PHILIP MUELLER.

Attest:
EDWARD ADAMS,
O. W. DAWSON.