

(No Model.)

2 Sheets—Sheet 1.

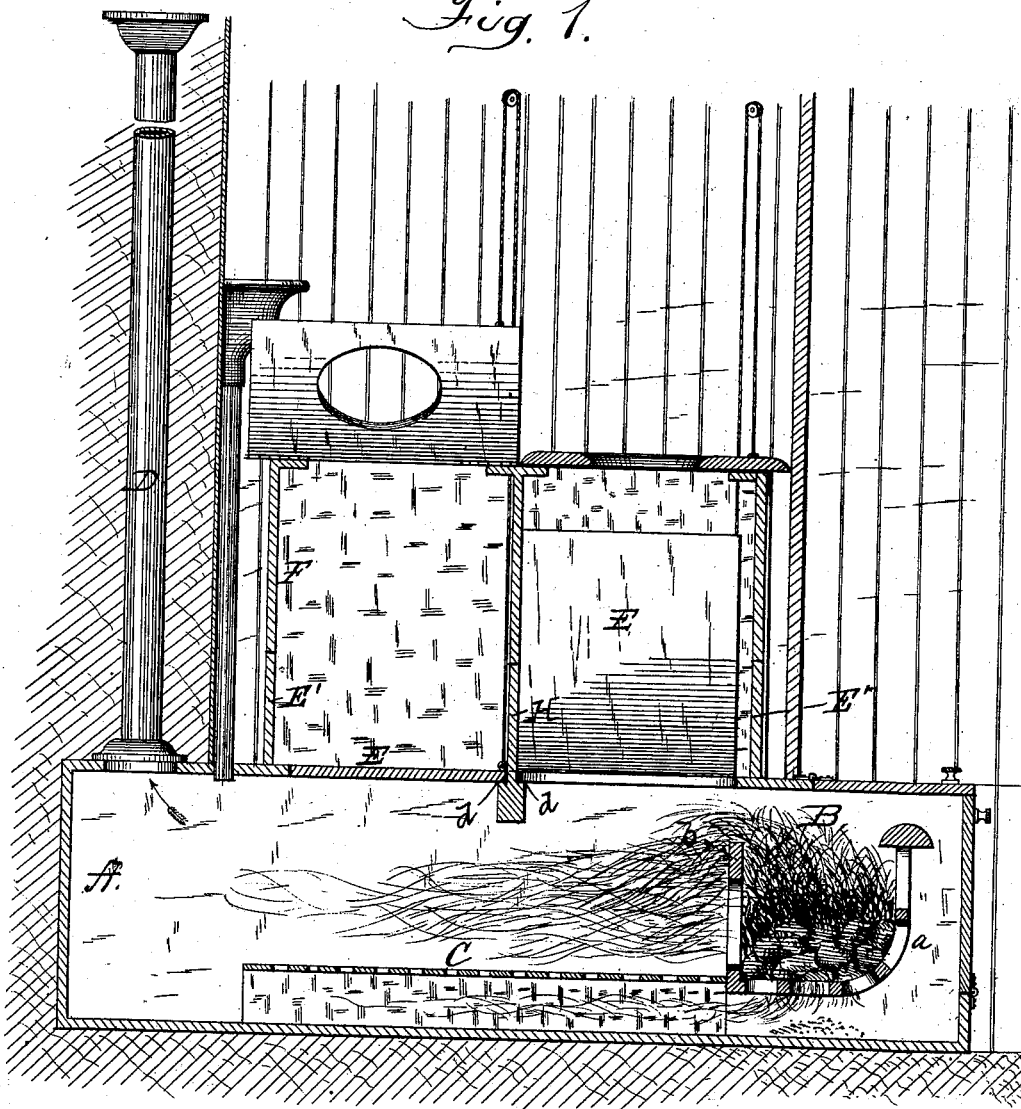
W. S. ROSS.

FURNACE FOR PRIVIES.

No. 264,568.

Patented Sept. 19, 1882.

*Fig. 1.*



*Witnesses;*

*Shalter Fowler*  
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(No Model.)

2 Sheets—Sheet 2.

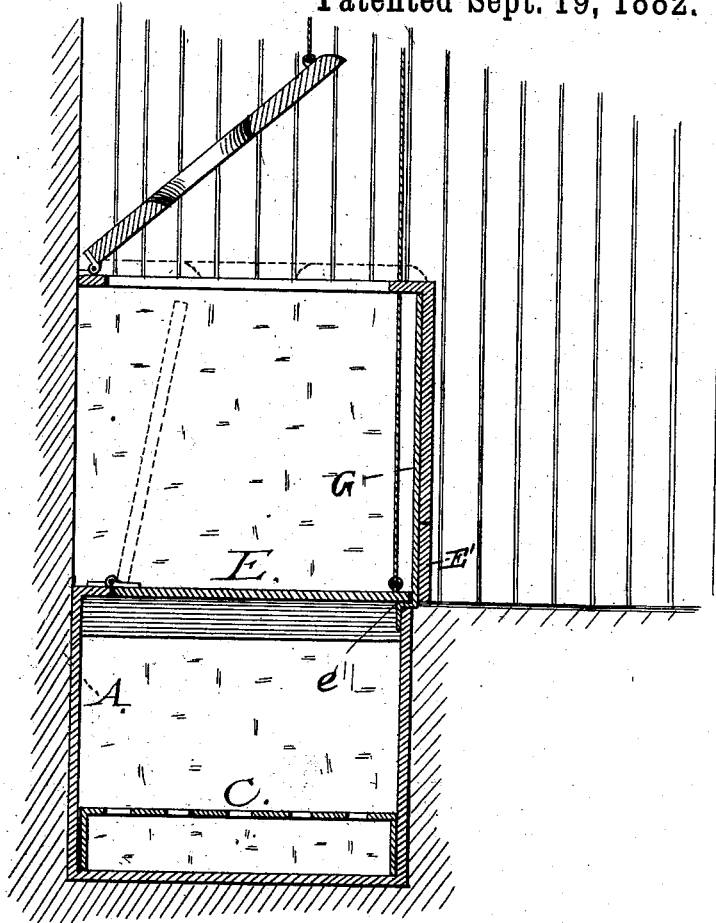
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*Fig. 2.*



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# UNITED STATES PATENT OFFICE.

WILLIAM S. ROSS, OF MADISONVILLE, KENTUCKY.

## FURNACE FOR PRIVIES.

SPECIFICATION forming part of Letters Patent No. 264,568, dated September 19, 1882.

Application filed May 11, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM S. ROSS, a citizen of the United States of America, residing at Madisonville, in the county of Hopkins and State of Kentucky, have invented certain new and useful Improvements in Furnaces for Privies and Means for Disposing of Fecal Matter; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to certain improvements in that class of privies or closets where the fecal matter is dried by heat instead of passed away into the drains; and the object of these improvements is to reorganize and simplify the construction of this class of privies.

My improvements, which are specially adapted to the privy-houses now in use, consist principally in mounting the ordinary privy-box over a metallic frame and a horizontal furnace with a deposit-chamber for the fecal matter; also, in the novel construction and arrangement of parts, as will be hereinafter more fully set forth, and pointed out in the claims.

In the annexed drawings, forming a part of this specification, Figure 1 represents a longitudinal view of the apparatus and attachments, and Fig. 2 is a transverse view of the same.

The letter A represents a metallic horizontal casing, constituting the fire-chamber and the depository for the fecal matter.

The letter B indicates the fire-chamber, placed at one end of the casing, composed of the grate-bars *a* and the intermediate fire-bridge, *b*, preferably perforated, or consisting of slats located between the fire-chamber proper and the depository for the fecal matter.

The letter C indicates a perforated bottom, located and secured by any suitable means intermediately in the deposit-chamber, and consists of a metallic plate with a series of perforations, in order to allow the escape of the liquid deposits and to retain solid matter.

The letter D represents the draft pipe or flue to the furnace, which also operates as a ventilator to carry off the gases when the furnace is not in operation.

The end of the metallic horizontal casing 50 and that part directly over the fire-chamber is provided with a door or doors, secured by any suitable means, and which are intended to close snugly, as may be desired. The hinged covers or lids E of the horizontal casing are located directly under the openings in the seat 55 of the privy-box, which operate, as will be hereinafter described, in conjunction with the hinged seats, so as to open or be raised when the seats are pressed down, and to automatically close by their own weight when the pressure is removed on the seats. 60

The letter E' represents a metallic frame arranged over and supported upon the top of the metallic casing A, to prevent the direct heat 65 from the furnace affecting the wooden box F, arranged above. The privy-box F consists of a substantial box provided, as may be desired, with one or more hinged seats, and having in the front part, on the inside, a metallic lining, G, preferably of copper, which extends down 70 beyond the line of the casing a short distance into the depository, and is intended to carry down the liquid matter that may be impinged against it. The lower end of the partition-wall H of the privy-box is formed on opposite 75 sides with rests or shoulders *d*, and the metal lining G with a shoulder, *e*, which form stops and supports for the lids E, as shown. The lower portion of the box is, as already stated, 80 made of metal, in order that the heat of the furnace may not endanger the wooden portion during the process of burning the deposits—the fecal matter. By reference to the drawings it will be observed that the privy-box is of the 85 ordinary class.

To each lid of the metallic casing is attached, by suitable means, a cord passing up over a pulley, from thence down to and attached to the hinged seat, arranged and adjusted in such 90 a manner that when the lid is closed or down the hinged seat is thrown back, and that when the hinged seat is down the lid is thrown up in order to allow the free passage into the deposit-chamber. The lid of the casing, being 95 heavy, when the pressure is removed from the seat, falls into place again and closes the casing. In lieu of the cord and pulley, springs

may be employed for accomplishing the same result. To one side of the box may be arranged a urinal vessel communicating with the deposit-chamber in any suitable manner.

5 It will be observed by reference to Fig. 1 of the drawings that the doors to the fuel portion of the horizontal furnace are outside of the privy-house proper, so that the charging of the furnace for combustion of its contents and  
10 cleaning the same will not affect the privy-house.

The advantages of these improvements in localities without water-works are many in a sanitary view, among which may be stated the  
15 imprisoning of the fecal matter and the odors thereof, and the consuming or burning of the matter, as occasion may require. In epidemic seasons the fecal matter can be destroyed daily, thereby preventing any danger from  
20 this source.

The draft-flue may be made detachable and the horizontal furnace so set and arranged in place that it may be, if desired, drawn from its bed and the calcined contents removed.  
25 For the purpose of affording ready means for removing the metallic box it may be provided on its bottom with wheels or rollers.

It is obvious that slight changes as to construction and arrangement may be made without departing from the spirit of my invention.  
30

What I claim as my invention, and desire to secure by Letters Patent, is—

1. As an attachment for a privy, a horizontal metallic casing constituting the depository for the fecal matter, and provided with the  
35 hinged lids and fire-chamber, substantially as set forth.

2. The attachment for a privy, consisting of the horizontal metallic casing with the perforated false bottom C, bridge-wall b, and grate-bars a, arranged in about the same horizontal  
40 plane with the hinged lids E, and doors communicating with the grate-surface, substantially as set forth.

3. The combination, substantially as here-  
45 inbefore set forth, of the horizontal casing A with the perforated false bottom C, grate-bars a, bridge-wall b, hinged lids E, the metallic frame E', privy-box with hinged seats, and the connecting means.  
50

4. A privy-box having its front lined with metal and formed with a support, e, for the lid of the deposit-chamber, in combination with the deposit-chamber of a furnace, substantially as set forth.  
55

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM S. ROSS.

Witnesses:

J. M. YZNAGA,  
GEORGE U. ROSE, Jr.