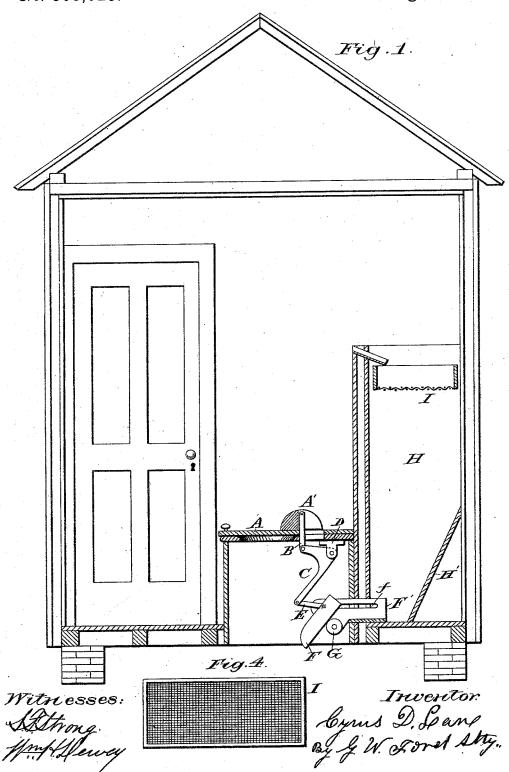
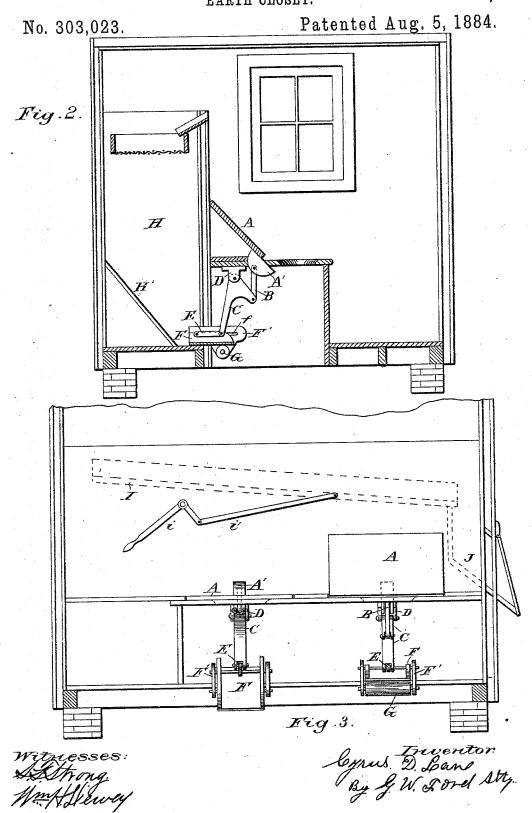
C. D. LANE. EARTH CLOSET.

No. 303,023.

Patented Aug. 5, 1884.



C. D. LANE. EARTH CLOSET.



UNITED STATES PATENT OFFICE.

CYRUS D. LANE, OF BATAVIA, NEW YORK.

EARTH-CLOSET.

SPECIFICATION forming part of Letters Patent No. 303,023, dated August 5, 1884.

Application filed April 2, 1884. (No model.)

.To all whom it may concern:

Be it known that I, CYRUS D. LANE, a citizen of the United States, residing at Batavia, in the county of Genesee and State of New 5 York, have invented a new and useful Improvement in Earth-Closets, of which the following is a specification.

My invention relates to improvements in closets in which a powdered deodorizing agent 10 is used in conjunction with a hinged seat-cover; and the objects of my improvements are, first, to provide a simple arrangement whereby the closing of the seat-cover will cause a deposit to be made of the deodorizing material; second, 15 to render the fecal matter odorless by the use

of coal ashes, so that the whole can be used as a fertilizer. I attain these objects by the mechanism illustrated in the accompanying

drawings, in which-

Figure 1 is a vertical sectional view taken through the center of the seat-cover, with the lid in a closed position, also showing a section of the ash-box and sifter. Fig. 2 is a transverse section of the closet and ash-receptacle, 25 with a vertical section taken through the seat, showing the cover in a raised position. Fig. 3 is a vertical longitudinal section of the closet, exhibiting two seats, the cover of one being open, the other closed, with a side view of the 30 sifter and its operating device; and Fig. 4 is a top plan view of the ash sifter detached, which is herein shown and described, but is not claimed, as the sifter is made a subject of a separate application.

Similar letters refer to similar parts through-

out the several views.

A represents the seat-cover, carrying a semiannular casing, A', within which is pivoted a connecting link, B.

C is an elbow-lever having one limb longer than the other, and pivoted at the elbow with the down-hanger D. The short arm of this elbow-lever is pivotally connected with the semiannular easing upon the seat-cover through the 45 intervention of the link B. To the longer and lower end of the lever C is pivoted the swinging bail E, which in turn is hinged to the scoop F. This scoop F has both of its ends open, but with raised sides, for a purpose hereinafter

scoop is given a longitudinal movement, for a purpose hereinafter explained.

G is a roller having its top surface level with the bottom of the discharge-spout, for the pur- 55 pose of reducing the friction as well as to assist in the manipulation of the scoop.

f are longitudinal slots through the sides of the delivery-spout at a point near the top edge, for a purpose hereinafter described.

H is a receptacle for the deodorizing compound, and H' an inclined back to the same, to conduct the material to the opening and within reach of the scoop.

As a deodorizer, sifted coal ashes are used 65 in preference to dry earth or other material, for the reason that they are produced in nearly every household, and heretofore have been a waste product, but in utilizing and mixing with the feces the matter is rendered odorless 70 and a good fertilizer is produced.

I is an ash-sifter, which, as hereinbefore mentioned, is to be embodied in a separate application, suspended in any well-known manner within the ash-receptacle near the top, 75

and so arranged that a vibratory motion can be given it by the use of the crank-lever i and connecting rod i', as clearly shown in Fig. 3. J is a delivery-spout for carrying off the

waste, such as cinders and other refuse of the 80 burned coal. This ash-box is placed in the rear of the seat, forming the back and creating one side of the closet, and may extend up to the ceiling overhead by providing a door for the reception of the unsifted ashes. If desired, 85 the ashes may be placed within the sifter through an opening from the outside. The slots \tilde{f} in the discharge-spout are for the purpose of securing the scoop in place vertically and yet allow of a free movement horizontally 90 to the extent necessary for performing the required work. The ends of the bail E may pass through these slots, or any other mode of pivoting may be adopted.

The operation is as follows: Upon the rais- 95. ing of the seat-cover A, the scoop, through the intervention of the system of levers, will be thrown back and in the position shown in Fig. 2, with its rear end reaching within the ash-bin, and as this scoop is open at each end, 100 it will by the uplifting of the said cover re-50 explained.

F' is a discharge spout, within which the ceive a sufficient quantity of material for

mixture with the fecal matter to render it odorless. In the act of closing the cover the scoop, with the charge, is drawn forward and made to assume the position shown in Fig. 1, and of course the contents are deposited upon the excrement, rendering it odorless and ready for use as a fertilizer.

The coal-ashes can be sifted daily, or as may be desired, and deposited in the ash-bin ready for use, while the cinders are by the reciprocation of the sifter made to gravitate toward the lower end and discharged through the spout J, all of which will be understood without further description.

5 Haying now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the seat-cover, the con-

necting link, the pivoted elbow lever, and the scoop having the bail, all these parts arranged 20 and operating substantially as described.

2. The combination of the scoop having a bail, the slotted delivery-spout, the scoop being pivotally connected with the spout, the friction-roller, and means for operating the 25 scoop, substantially as described.

3. The combination of the ash-bin, the dis-

3. The combination of the ash-bin, the discharge-spout, the scoop pivotally connected thereto, as described, the elbow-lever, the down-hanger D, the link B, the annular part 30 A', and the seat-cover, all arranged and operating substantially as specified.

CYRUS D. LANE.

Witnesses:

G. W. FORD, E. J. MOCKFORD.