

G. E. Waring.
Earth Closet.
N^o 90,709. Patented Jun. 1, 1869.

Fig. 1.

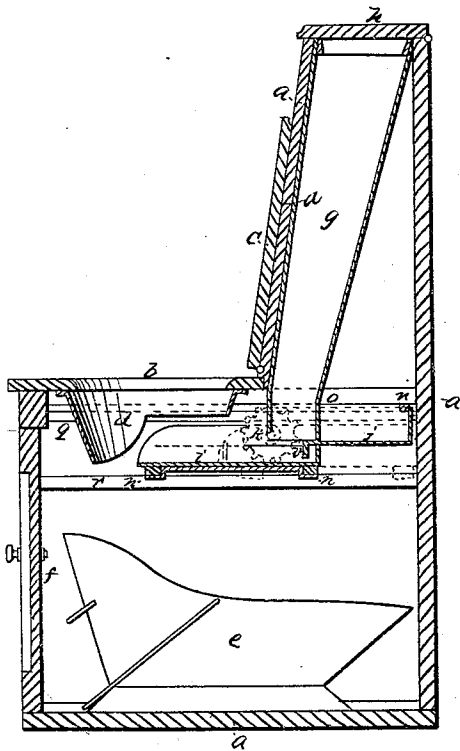
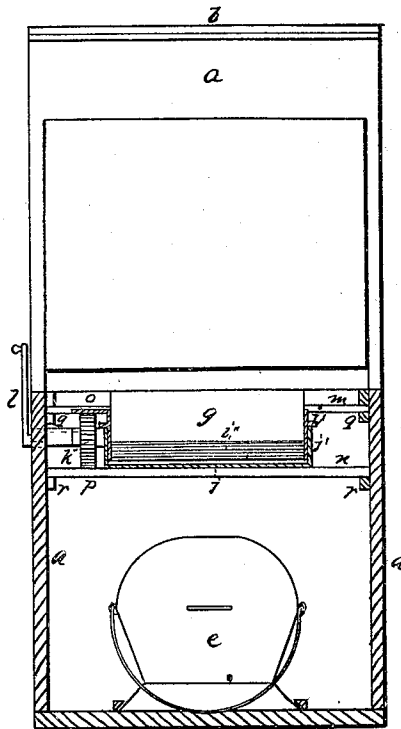


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE E. WARING, JR., OF NEWPORT, RHODE ISLAND, ASSIGNOR TO THE
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IMPROVEMENT IN DEODORIZING WATER-CLOSETS.

Specification forming part of Letters Patent No. 90,709, dated June 1, 1869.

To all whom it may concern:

Be it known that I, GEORGE E. WARING, Jr., of Newport, in the county of Newport and State of Rhode Island, have invented certain new and useful Improvements in Earth-Closets; and I do hereby declare that the following is a full, clear, and exact description thereof, whereby a person skilled in the art can make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

Figure 1 shows a section through the middle of my improved closet and the parts beyond, looking into the farther half. Fig. 2 shows a front view of the interior working parts.

My invention relates to that class of closets in which earth is used to absorb the odor from the excrement by being mixed with it and deposited in a proper pan or receptacle.

a is the box or case inclosing the whole apparatus. *b* is the seat. *c* is the cover to the seat. *d* is a truncated funnel or guide. *e* is a pan or receptacle placed within the box below the seat, and which can be removed, when required, through the door *f*. *g* is a hopper, which is filled with fine dry earth or clay through the door *h* in the top. *i* and *j* are two sliding platforms, which move one over the other, resting and sliding upon the guides *q* *r* by means of the cross-bars *m* and *n*. These sliding platforms are moved back and forth by means of the handle or lever *l*, which operates the spur-wheel *k*.

The frames of the sliding platforms are provided with racks at *o* and *p*, into which the teeth of the wheel *k* enter, one at the top and the other at the bottom, and move the sliding platforms *i* and *j* in opposite directions as the wheel turns.

The platforms *i* and *j* have sides, as shown at *i'* and *j'*, but are open at the front. The upper platform, *i*, slides back far enough to open the bottom of the hopper *g* and allow a small quantity of earth to escape and fall upon the lower platform, *j*.

When the handle *l* is turned the upper platform moves forward at the same time that the

lower one moves back, until they are in the position shown by the red lines in Fig. 1, and their front edges nearly coincide. In this position the top platform closes the open bottom of the hopper *g*.

The front lower edge of *i* (shown at *i''*) in the drawings does not run close to the lower platform, but is separated a short distance from it, so that a thin layer of earth will always remain upon the lower platform.

The operation of my invention is as follows: The position of the parts shown by the black lines in the drawing is that in which they are generally placed for use. The bottom of the hopper *g* is open and a part of the earth has fallen upon the back part of the lower platform *j*. After the closet has been used and the fecal matter deposited upon the front of the platform *j*, the handle *l* is turned. The platform *j* recedes and *i* advances, pushing forward the earth which has fallen out of the hopper. This envelops the excrement, and the continued motion of the platforms pushes the whole off into the pan *e* below. The handle is then turned so as to bring the parts back to their original position, leaving a thin layer of earth upon the lower platform for the next operation. This closet can also be used with the platforms *i* and *j* in the position shown by the red lines. The excrement will then fall into the pan *e*, and not upon the lower platform. The handle can then be turned so as to slide the platforms forward and back, which will deposit some earth upon the excrement as it lies in the pan *e*. The urine is conducted into the pan *e* by the shield *d*. The movements of the platforms can be made automatic by connecting the axis of the wheel *k* with the movement of the cover *c* in opening and closing, or by a proper connection with a movable seat, as is now commonly practiced in water-closets.

A modification of my invention can be made so as to use only the upper platform, *i*. This is done by giving to *i* a motion farther forward and not so far back, as shown in the drawings, and by having an opening in the front part of the bottom of the hopper *g*, provided with a valve opening outward. The earth flows out onto the platform as it moves

outward, and on its return the lower edge of the valve scrapes off everything into the pan below.

Another modification of my invention may be made by fixing the lower platform, *j*, permanently in its most forward position, and having the upper platform *i* act through its whole length to push forward the earth from the hopper *g* and the excrement deposited upon it, so that they will fall off into the pan *e*.

The advantages of my invention are its efficiency in thoroughly covering and mixing the excrement with earth, whereby all unpleasant odor is avoided, and the ease and certainty of its action in delivering a certain quantity of earth in a proper manner, so as to entirely cover the excrement.

My invention, by having the platform a given distance below the seat, secures the covering of the excrement more effectually than when it drops into a pan below and the earth is thrown on at different heights, as in all other earth-closets, in which the gradual filling of the receptacle brings the top of the pile

out of the exact range of the shooting of the earth.

Claims.

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

1. The movable platforms *i* and *j*, substantially as herein described.

2. The combination of the hopper *g*, with the movable platforms *i* and *j*, for the purposes of an earth-closet, substantially as specified.

3. The movable platform *i*, with its projection *i'*, for carrying forward the proper quantity of earth, in combination with the hopper *g*, substantially in the manner herein described.

4. The platform *j* at a given depth below the seat, so that the earth may always be transferred to the same place to cover the excrement, substantially as specified.

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Witnesses:

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