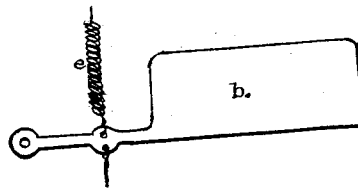
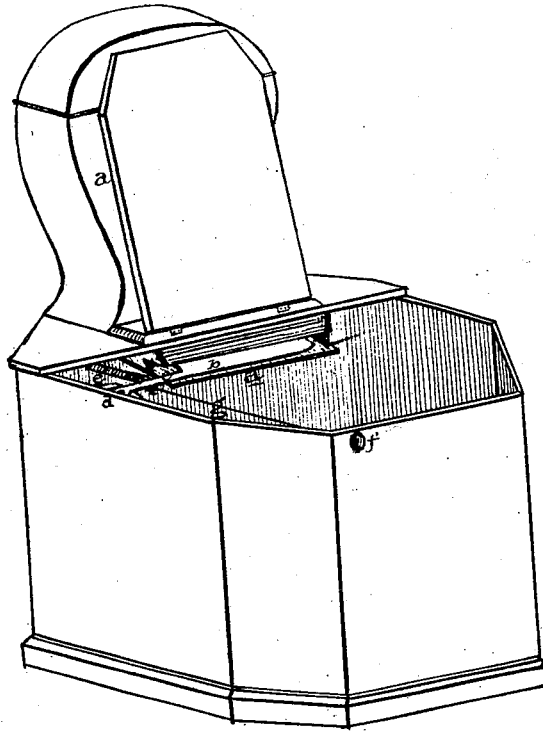


E. Woodruff,

Earth Closet.

No. 108,950.

Patented Nov. 1. 1870.



*W. M. Gooding } attest
Edward Collier }*

E. Woodruff

United States Patent Office.

ENOS WOODRUFF, OF ELIZABETH, NEW JERSEY.

Letters Patent No. 108,950, dated November 1, 1870.

IMPROVEMENT IN EARTH-COMMODES.

The Schedule referred to in these Letters Patent and making part of the same.

I, ENOS WOODRUFF, of the city of Elizabeth, in the county of Union and State of New Jersey, have made certain Improvements in Earth-Commodes, of which the following is a specification.

The nature of my improvement consists in the means and manner of throwing the earth from the reservoir upon the feces.

In the accompanying drawing—

Figure 1 shows the commode with the seat removed, and the distributor in position at the bottom of the receiver or hopper of dry earth.

Figure 2 is the distributor.

The bottom of the hopper *a*, projecting down into the inside of the commode, formed on an incline, has an opening in the front.

The distributor *b*, made of thin wood or of sheet-metal, has an arm, *c*, which, being pivoted to the side of the commode at *d*, allows the distributor to vibrate, lying flat on the inclined bottom of the hopper.

The spiral spring *e*, attached at one end to the back of the commode and the other end to the arm of the distributor, draws the distributor back under the dirt when it has been jerked forward by the knob *f* and connecting-rod *g*, the forward motion of the distributor throwing off it the required quantum of earth to cover the feces, a stop of any kind upon the connecting-rod regulating the needed vibratory motion as to length of throw.

What I claim as my improvement is—

The lateral-moving shovel or distributor, constructed, arranged, and combined with an earth-closet or commode, substantially in the manner, and for the purpose specified and shown.

ENOS WOODRUFF.

Witnesses:

WM. M. GOODING,
EDWARD COLLVER.