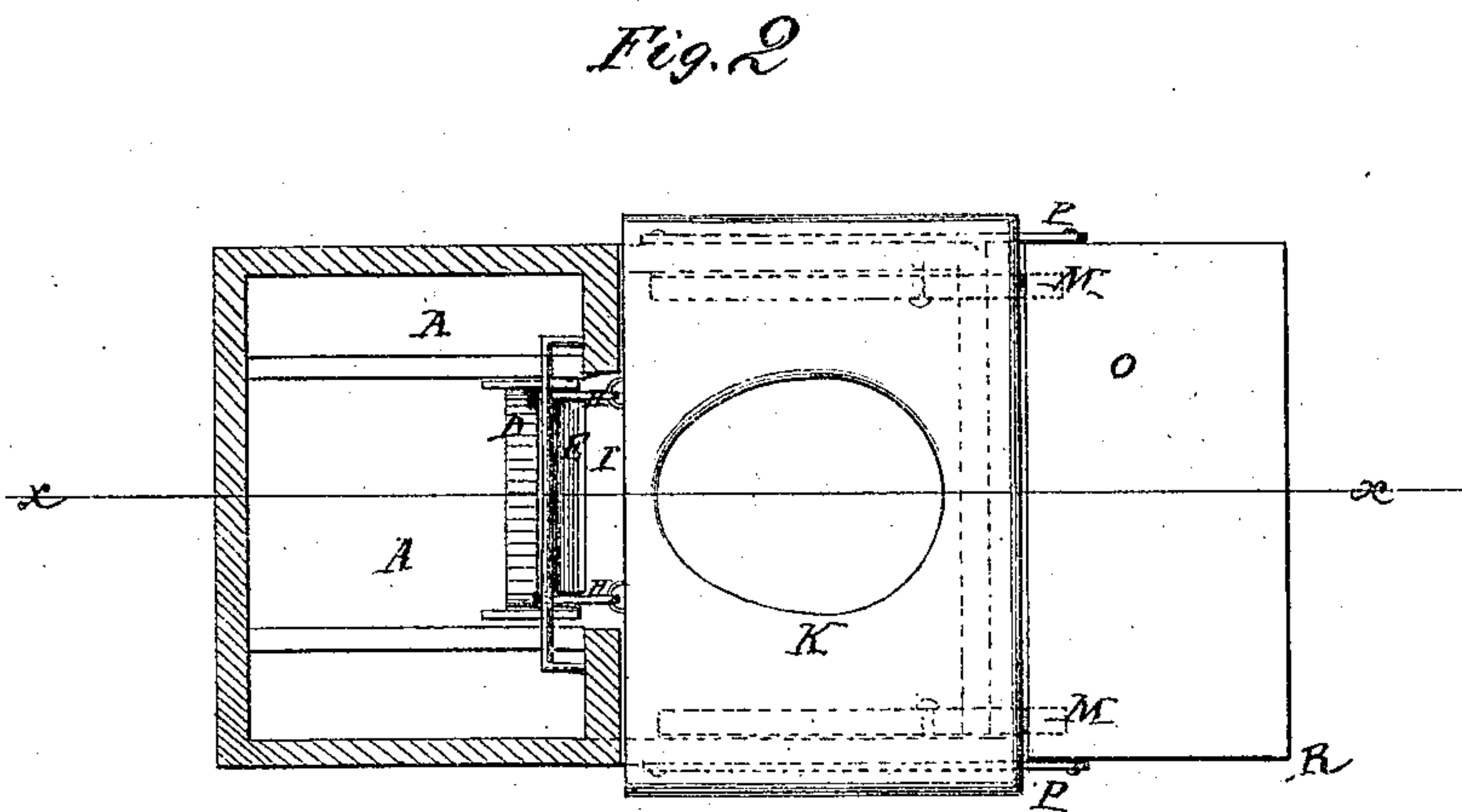
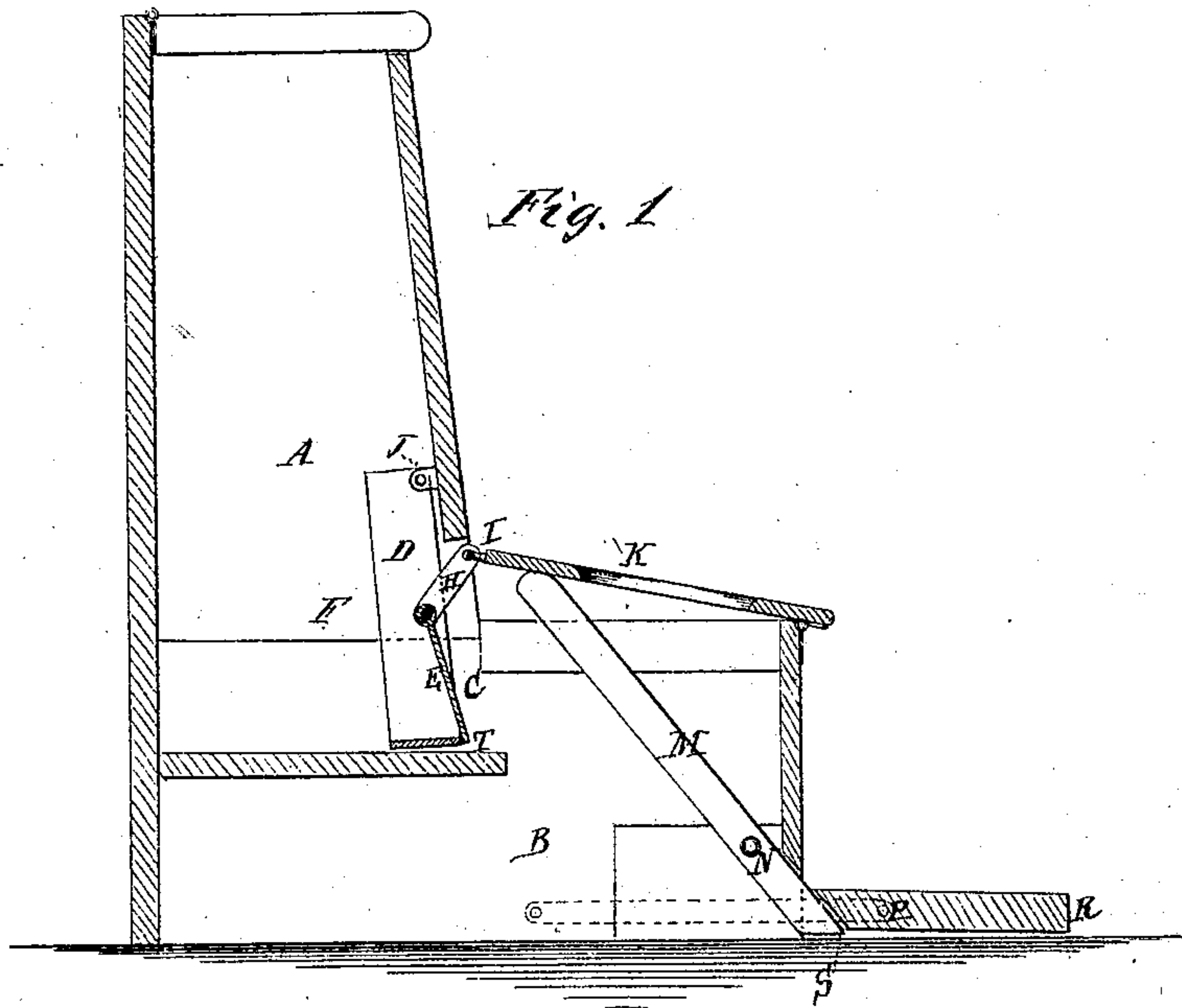


ROBERT A. CANNELL.  
Improvement in Earth-Closets.

No. 115,024.

Patented May 23, 1871.



Witnesses:

*A. W. Almqvist*  
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Inventor:

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PER

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# UNITED STATES PATENT OFFICE.

ROBERT ALEX. CANNELL, OF NEW ORLEANS, LOUISIANA, ASSIGNOR TO  
HIMSELF AND S. P. PARMLY, OF SAME PLACE.

## IMPROVEMENT IN EARTH-CLOSETS.

Specification forming part of Letters Patent No. 115,024, dated May 23, 1871.

*To all whom it may concern:*

Be it known that I, ROBERT ALEX. CANNELL, of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and Improved Earth-Closet; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in earth-closets; and it consists in a swinging case and valve of novel arrangement for taking the earth from the earth-chamber in small quantities, and discharging as required, the said case and valve being moved back to take the charge of earth by the downward movement of the seat, which is hinged at the front and connected to the apparatus at the back, and moved forward by the upward movement of the seat, which is caused by levers actuated by a foot-board at the front, on which the person stands, or by weights applied to the levers; or it may be raised by springs, all as hereinafter described.

Figure 1 is a sectional elevation of my improved earth-closet. Fig. 2 is a horizontal section of the same.

Similar letters of reference indicate corresponding parts.

A is a magazine containing the supply of earth, and B the pit into which it is to be discharged through the large openings C. D is a rectangular case hanging on pivots J, from the front wall of magazine, above the opening C. This case is open at the side fronting the magazine, and is closed from the bottom upward, about half way, by a valve or gate, E, suspended on a rod, F, mounted in the case, as shown, and connected by the rods H with the swinging edge I of seat K, pivoted at L to the front of the seat-case. M represents levers pivoted to the seat-case, one on each side, at N, and projecting through the front at the lower ends, while the upper ends ex-

tend backward and upward to the under side of the seat for raising it by the action of the weight of the person on the foot-board O, having arms P pivoted to it at Q, and extending rearward and pivoted to the seat-case, so that the front edge R of the said foot-board rests on the floor and the rear edge on the projecting ends S of the said lever.

When the person sits on the seat the rear edge will be forced down and the case D, with its valve, thrown back to take a quantity of earth in it upon the lower end board, a part of which will be forced through between the gate and lower end board of the case, lodging on the shelf T. Then, on rising from the seat and standing on the foot-board O, the seat will be thrown up by the levers M, which will swing the valve E and case D forward, closing the valve behind the earth on shelf T and ejecting it into the pit B. Instead of depending on the weight of the person to lift the seat, the levers M may have weights of sufficient capacity to throw the seat up when the person rises, but which will be overbalanced by his weight on the seat; or I may use springs instead of levers and weights.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The case D and valve E, arranged and operating substantially as specified, and actuated by the falling and rising movement of the rear edge of the seat, the latter being actuated by the weight of the person in both directions, or in one direction, thereby, and by weights or springs in the other, substantially as specified.

2. The combination, with the seat pivoted at the front, of the foot-board O and connecting levers or bars, arranged for lifting the said seat by the weight applied to the foot-board, substantially as specified.

ROBERT ALEX. CANNELL.

Witnesses:

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