

(No Model.)

W. HEAP.

APPARATUS FOR OPERATING DRY EARTH CLOSETS.

No. 327,266.

Patented Sept. 29, 1885.

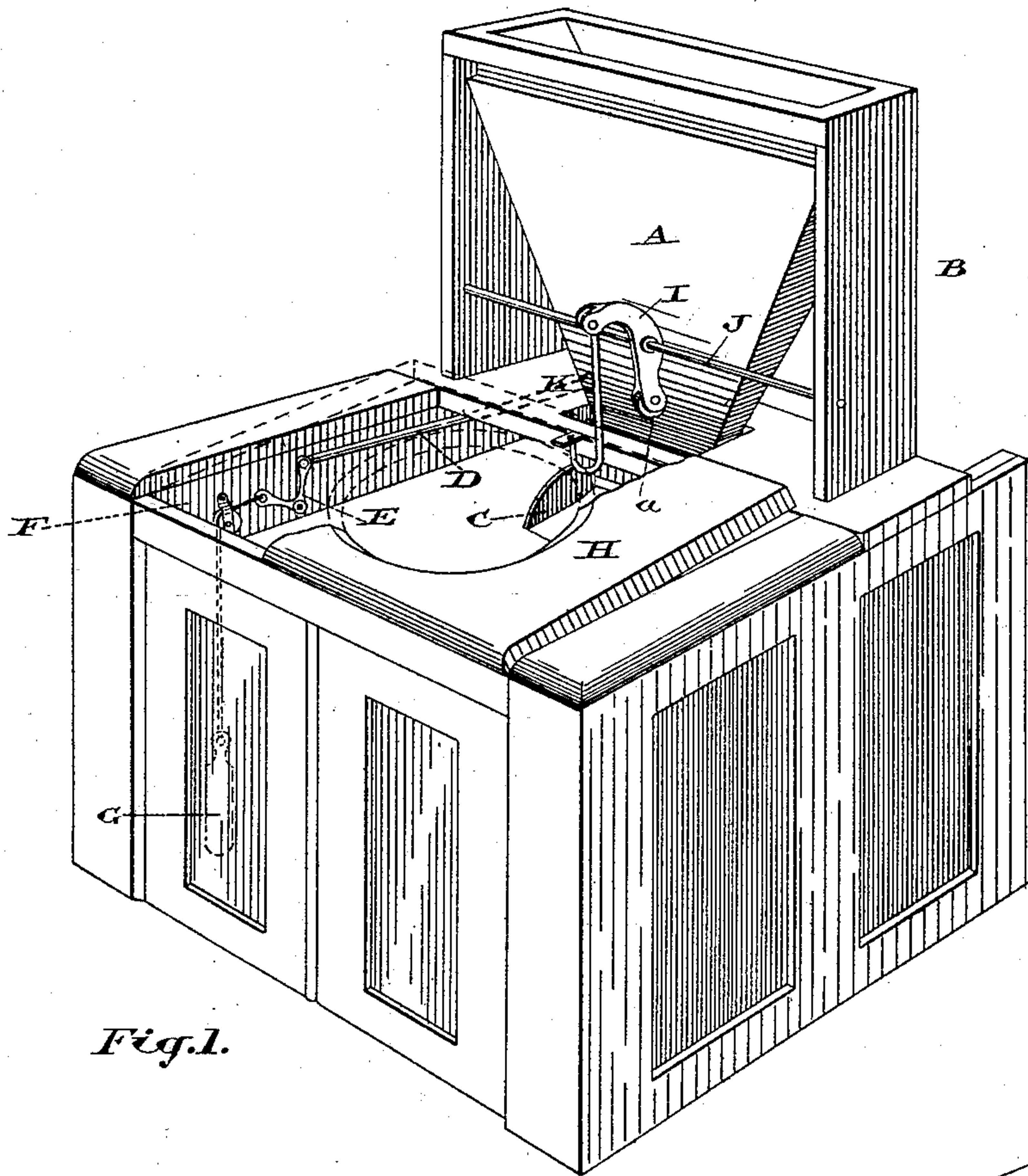


Fig. 1.

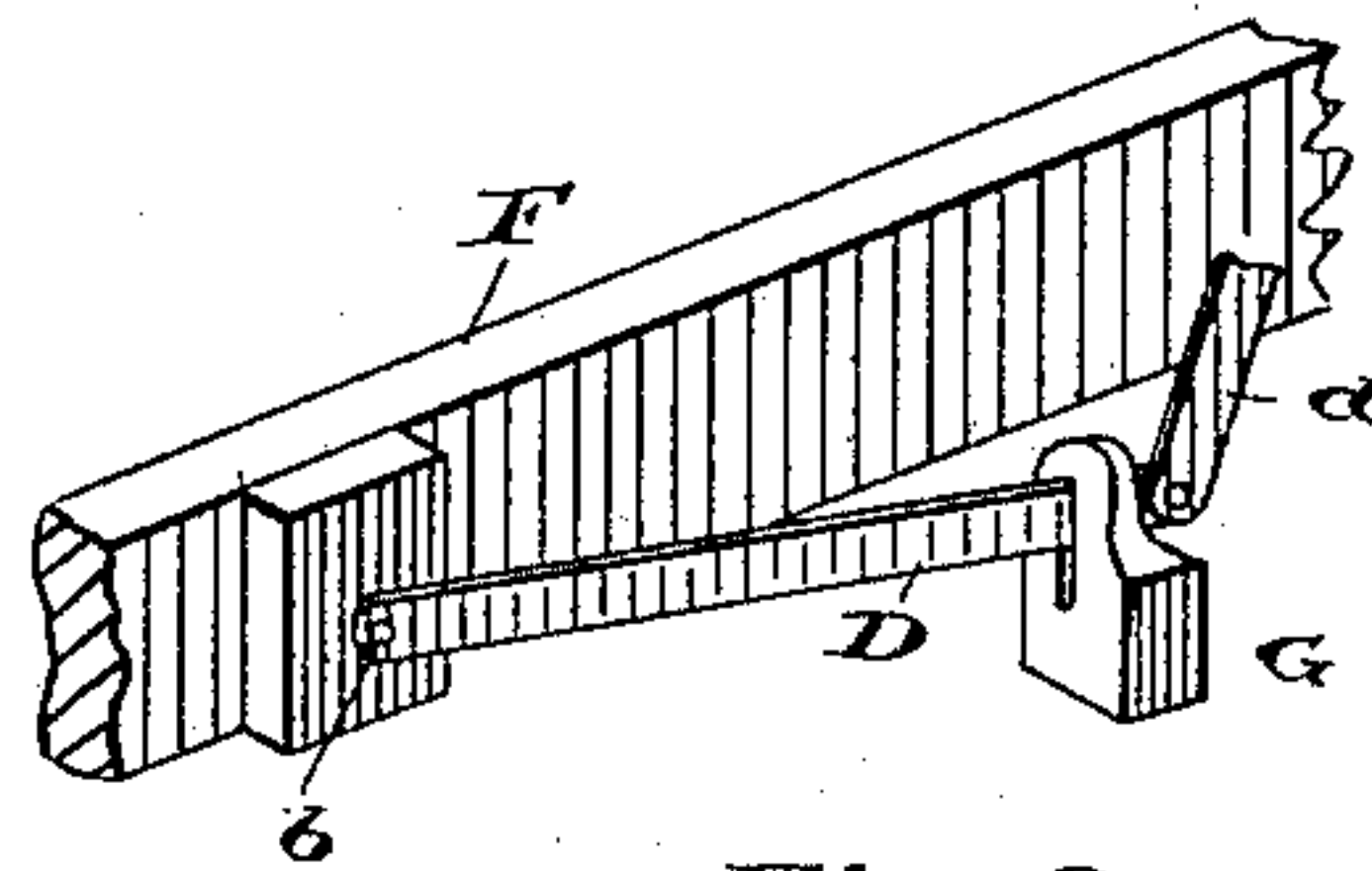


Fig. 2.

Witnesses.

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WILLIAM HEAP, OF OWEN SOUND, ONTARIO, CANADA.

APPARATUS FOR OPERATING DRY-EARTH CLOSETS.

SPECIFICATION forming part of Letters Patent No. 327,266, dated September 29, 1885.

Application filed January 23, 1885. (No model.) Patented in Canada November 8, 1884, No. 20,537.

To all whom it may concern:

Be it known that I, WILLIAM HEAP, of the town of Owen Sound, in the county of Grey, in the Province of Ontario, Canada, have invented certain new and useful Improvements in the Apparatus for Operating Dry-Earth Closets, of which the following is a specification.

The invention relates to earth-closets; and it consists in the peculiar combinations and the construction and arrangement of parts hereinafter described and claimed.

Figure 1 is a perspective view of my improved earth-closet, a portion of the wood-work being broken away to expose the part immediately connected with my invention. Fig. 2 exhibits alternative form of levers and weight for throwing forward the pivoted earth-hopper.

A is the earth-hopper, pivoted at its top to the frame B, and having a scoop-shaped bottom, C.

D is a rod connected at one end to a bar attached to the hopper A, and at its other end to one arm of the bell-crank E, which is pivoted on the frame F, and has attached to its other arm a weight, G, which weight is calculated to be sufficiently heavy to hold forward the bottom of the hopper A and support the back of the seat H at the angle indicated, the said back being connected to the hopper A by the lever I, which is pivoted on a rod, J, and has the end which presses against the hopper A provided with a friction-roller, *a*, the other arm of the lever I being connected to the seat H by the rod K, as shown in Fig. 1. When the back of the seat is pressed down, the action of the lever I will naturally push back the bottom of the hopper A, and as the weight G is connected to the hopper A, as already described, the instant that the forward pressure is removed from the seat H the action of the weight G causes the hopper A to spring forward, the earth by this rapid jerking movement being thrown out of the scoop-shaped bottom C.

I should mention here that the friction-roller *a* allows the lever I to push back the

hopper A with but little force, and as the leverage of the bell-crank E assists in the raising of the weight G a very light pressure on the back of the seat H is sufficient to push the hopper back.

In Fig. 2 I show an alternative form of weight and lever for throwing forward the hopper A. In this form the rod D is pivoted to the frame F at *b*, and is connected to the rod attached to the hopper A by the link *d*, the weight G being placed near the connection between the rod D and link *d*.

As the operation of earth-closets is well understood, and as I do not claim anything peculiar in its general principle, I need not enter into a detailed description of its operation.

I am aware of the English Patent No. 3,760 of 1872, and United States Reissued Patent No. 4,138, and make no claim to the constructions shown therein as forming part of my invention.

What I claim as my invention is—

1. In an earth-closet, the combination, with the frame B, pivoted hopper A, and the seat H, of the rod J, the lever I, pivoted on said rod, the rod K, connecting one arm of said lever with the seat, weight G, and intermediate connections between said weight and hopper, substantially as described.

2. The herein-described earth-closet, consisting of the frame B, the pivoted hopper A, the rod J, the lever I, pivoted on said rod, the friction-roller *a*, carried by one arm of said lever, the rod K, connecting the other end of said lever with the seat, the bell-crank lever E, pivoted to the frame, the rod D, connecting one arm of said lever with the hopper, and the weight G, attached to the other arm of said bell-crank, all combined, arranged, and operating substantially as shown and described, and for the purpose specified.

WILLIAM HEAP.

Witnesses:

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