

Geo. B. Jewett, Earth Closet.

No. 102128.

Patented April 19 1870

Fig. 1.

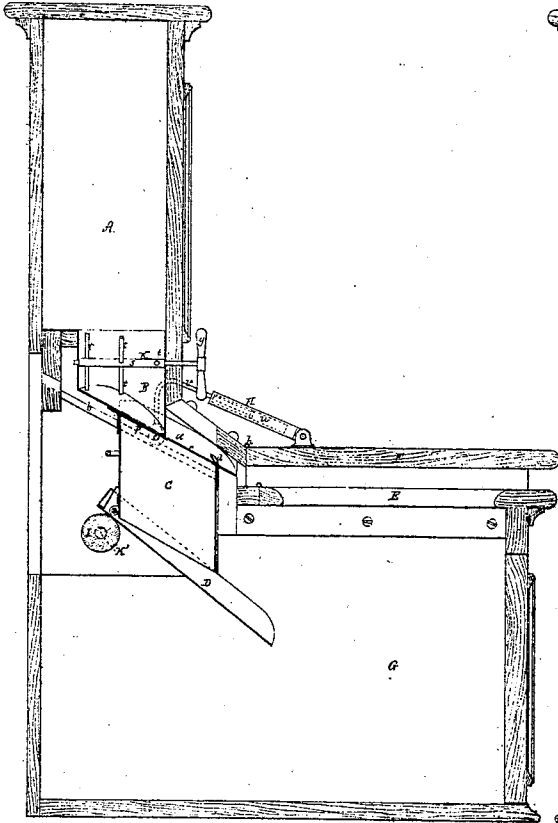


Fig. 2.

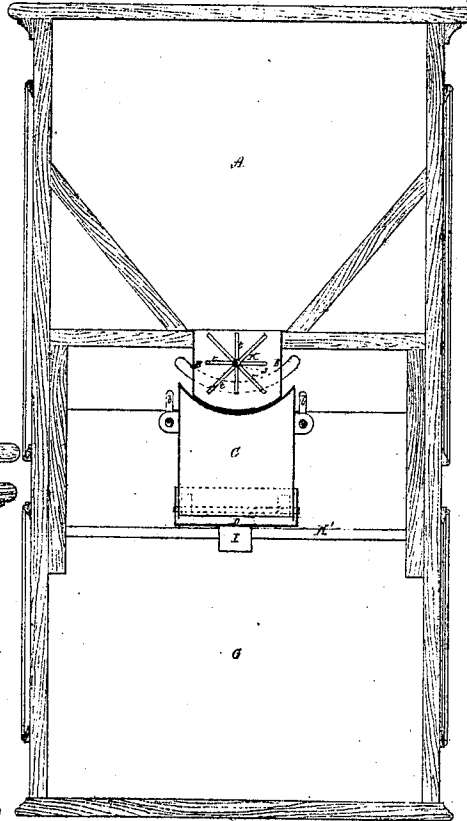


Fig. 3.

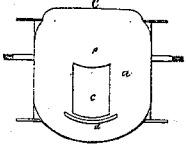


Fig. 5.

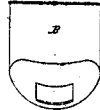
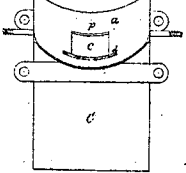


Fig. 4.



Witnesses

S. N. Piper

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United States Patent Office

GEORGE BAKER JEWETT, OF SALEM, MASSACHUSETTS.

Letters Patent No. 102,128, dated April 19, 1870.

IMPROVEMENT IN EARTH CLOSETS.

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

To all persons to whom these presents may come :

Be it known that I, GEORGE BAKER JEWETT, of Salem, of the county of Essex and State of Massachusetts, have made a new and useful invention having reference to Earth Closets, Cabinets, or Commodes; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 denotes a vertical section of one of my earth commodes or cabinets, the plane of section being from the front to the rear of the article;

Figure 2 is a transverse section of it;

Figure 3 is a top view; and

Figure 4, a front elevation of the damper, to be hereinafter described.

Figure 5 is a rear view of the eduction port, B, of the hopper.

My improved earth closet or commode has the main characteristics or elements of others in use. In other words, it has a hopper to contain the dry earth used for covering and deodorizing the urinal and fecal matters deposited from time to time in the receiving-hod. It also has a "dumper" or devices for removing from such hopper, or receiving from it, as may be necessary, a charge of the earth and depositing such in the excrement-hod or receptacle.

In my endeavors to improve the earth closet or commode, I have sought to render it simple in construction and durable and efficient in operation, to impart to it a practical form and character, such as it has not heretofore had, and which, coupled with economy of cost, would recommend it for general adoption, in all of which I believe I have been, as I have reason to believe, eminently successful.

In the said drawings—

A denotes the hopper, B its educt, C the dumper or measuring-box, D the discharging spout thereof, E the seat, and F the lid or cover of such seat.

The hod-chamber or receiving-space beneath the seat is represented at G.

The dumper C is constructed with an inclined top, *a*, and is open at bottom. It is supported on inclined ways or rails, *b b*, so arranged as to cause it, while being slid backward, to rise upward. The said dumper also has its top curved transversely, in manner as represented, there being through such top a passage, *c*.

The dumper is connected with the seat-cover F by means of connection-rods or devices, shown at H, by which, while the cover is being raised or turned upward on its hinges *h*, the dumper shall be moved backward on its supporting-rails, and at the same time be allowed to rise upward on them, in conformity with the slope of the bottom of the educt of the hopper.

Each of the connections H, as shown in the drawings, consists of a tubular rod, *u*, and a bent rod, *v*,

the latter being arranged to slide endwise or telescopically into the said tube.

The part *u* is hinged at its lower end to the seat-cover, the part *v* being attached to the dumper. The dumper will not move backward until the end of the part *v* may reach the bottom of the bore of the part *u*.

From the above, it will be observed that the construction of each connection H admits of the cover being moved some distance without effecting any movement of the dumper. The connection H, however, may be a single rod or pitman, jointed at its ends to the cover and the dumper. In some cases the single rod is preferable to the compound pitman or combination of the curved and tubular rods *u v*, as described, but either may be used, as circumstances may require.

The educt of the hopper has its bottom curved transversely, and inclined to fit to the top of the dumper, and there is a lip, *d*, raised on the said top, and arranged thereon in manner as exhibited in the drawings. There is a hole or induction-passage, *e*, in the top of the dumper.

The lip *d* is to prevent the escape or waste of earth over the top and down the front surface of the dumper, while it may be either at rest or in motion.

A spout, D, is hinged to the dumper at its rear, and serves not only as a means of closing the discharging opening of the dumper; preparatory to the admission of a charge into the dumper, but, on an advance of the dumper, to direct, upon a deposit of excrement in the hod, the earth that may be discharged from the dumper.

A wheel or roller, I, arranged beneath the spout or with respect to it in manner as represented, and supported by a shaft, K, so as to be capable of freely revolving, serves to effect the upward movement or closing of the spout during a retreat or falling back of the dumper. In the place of the roller I sometimes employ a stationary bar or stud, but the roller will operate with less friction and noise, and therefore is preferable. I term such bar or roller the spout-closer.

While raising the lid or cover of the seat the dumper will be forced backward, its spout D will be closed, and the hole in the top of the dumper will be carried underneath that in the bottom of the hopper educt. As a consequence, when there may be dry earth in the educt, such earth, or a portion of it sufficient to charge the dumper, will fall into it. While next depressing the lid or cover of the seat, the dumper will be drawn forward, and the part *p*, in rear of the hole in its top, will be brought directly underneath the opening in the bottom of the educt, and will close such opening so as to prevent the escape of earth from the educt, while the dumper is in an advanced position. During the advance of the dumper the spout will fall into a more inclined position, so as to open the lower part of the dumper and allow the charge of earth to escape

from the dumper into the hod or excrement and urine receiver.

There extends across and through the educt of the hopper a shaft, *s*, it being provided with a series of arms, *t t*, the whole constituting an agitator, *K*. The shaft, where projected from and in front of the educt, has a handle, *g*, fixed to its end. By means of this handle the agitator may be revolved so as to stir up a charge of earth in case it should become so compacted as to remain in the educt when the latter may be open to the dumper.

From the above it will be seen that the dumper has its top as well as its bottom inclined to the horizon; also, that during a retreat of the dumper it has an upward movement; also, that during an advance it has a downward movement. It will further be seen that the bottom of the educt of the hopper is also inclined, as is the top of the dumper; also, that both the top of the dumper and the bottom of the educt of the hopper are curved or concave transversely, all of which is for the purpose of facilitating, through the action of gravity, the discharge of the earth from the educt of the hopper, and also from the dumper.

I am aware of the earth closets described in the United States patents Nos. 90,688, 90,709, 91,474, and 91,855, and, consequently, I make no claim to either of them, or any part or combination or arrangement of devices described or represented in the specification or drawings of either of such patents.

What I claim as my invention may be stated as follows; that is to say—

The combination and the arrangement of the agitator *K*, with the educt *B* and the dumper *C* combined therewith.

Also, the hopper, as made with the inclined bottom, and the dumper as made, with the correspondingly inclined top, and supported by inclined ways, so as to be capable of being moved, in manner as set forth, with reference to the hopper.

Also, the arrangement of the rods or devices *H*, by which the dumper is connected to the seat-cover *F* so as to be movable thereby, as set forth, such devices, by the said arrangement, being disposed entirely above the hinges of the cover.

Also, the dumper *C*, as made, with the concave and inclined top and the hopper educt, as constructed with the inclined and curved bottom, as described, to operate with such top of the dumper.

Also, the arrangement and combination of the lip *d* with the dumper *C* and educt *B* of the hopper *A*, as described.

Also, the spout *D* and its closer *I*, as arranged and combined with the dumper *C*, substantially in manner and so as to enable the spout to operate as set forth.

GEORGE BAKER JEWETT.

Witnesses:

A. HUNTINGTON,
JOS. W. MERRILL.