

A. A. JAQUA.

Earth-Closet.

No. 127,606.

Patented June 4, 1872.

Fig. 1.

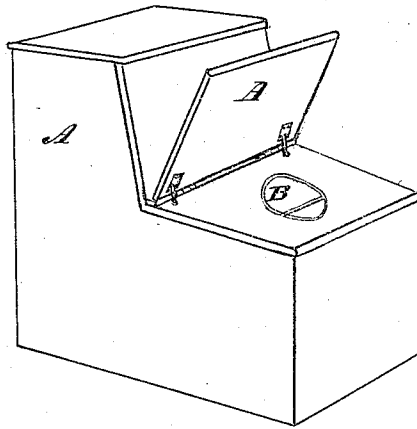


Fig. 2.

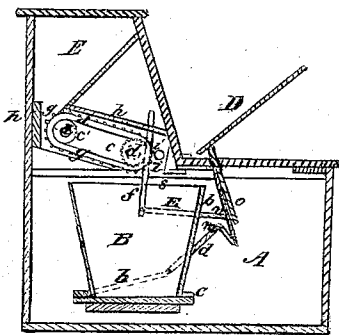
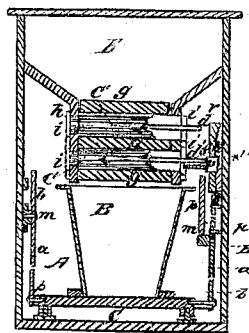


Fig. 3.



Witnesses.

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IMPROVEMENT IN EARTH-CLOSETS.

Specification forming part of Letters Patent No. 127,606, dated June 4, 1872.

SPECIFICATION.

Be it known that I, AMOS A. JAQUA, of the city, county, and State of New York, have invented new and useful Improvements in Earth-Closets or Commodes; and do hereby declare that the following description, taken in connection with the annexed drawing, forms a full specification of the same.

My invention relates to earth-closets or commodes; and the nature thereof consists in certain improvements in the manner of construction and operation of the closets, as hereinafter fully described.

In the accompanying drawing, Figure 1 is a perspective view of the earth-closet or commode with the lid raised. Fig. 2 is a central vertical section of same. Fig. 3 is a front internal view of same.

The construction, operation, and relative arrangement of the component parts of my invention are as follows:

In the drawing, A is the frame of closet; B, the tub or bucket for receiving the excrement. This tub B is placed upon the movable car C, which is operated by the two cranks or levers *a* and *a'*, one on each side of the closet, and the connecting-rods *b* and *b'*. These cranks or levers *a* and *a'* are secured at their centers *m* to frame A, and are also attached to the car C and lid D. Within the earth-reservoir E, at the top of the closet, are two cylinders, *c* and *c'*, (see Figs. 2 and 3,) and their shafts, *d* and *d'*, for conveying the earth into the tub B as it passes under the discharge-orifice *s* of the hopper. These shafts *d* and *d'* rest upon metal bearings *i* and *i'*, which bearings are placed upon the outside of box *h*, formed for holding the cylinders *c* and *c'*. This box *h* is made with an opening at its extreme top end for the reception of earth, and likewise an opening at the bottom end for the discharge of same. In connection with the cylinders *c* and *c'* is an endless band, *g*, which passes over and around both cylinders. Attached to the endless band *g* are projecting arms or buckets L, for taking up and depositing the earth over the excrement in the tub or bucket B as it passes from front to back of closet, (see Fig. 2.) Upon

the long shaft *d'* of the forward cylinder *c* is placed the gear-wheel K and plain wheel K', connected together by a small cylinder. These wheels K and K' are constructed so that they move back and forward on the long shaft *d'*. The gear-wheel K is operated by the rack *f* of corresponding gear. This rack *f* passes through and rests against the rock-shaft *p*, (shown in Figs. 2 and 3,) which is provided with flanges for the purpose of retaining it in position. On each end of the rack *f* are the projecting flanges *r* and *r'*, which operate to shift the gear back and forward on the long shaft *d'*. This rack *f* connects with one end of the lever *e*, which lever is secured at its fulcrum *n* to the frame A of closet, and operated by the connecting-rod *o* at the other end of the lever *e*. This connecting-rod *o* is secured to the lid D of the closet at its under side; the whole operated by raising and lowering the lid D.

I claim as my invention—

1. An earth-closet or commode with the arms or levers *a* and *a'*, connecting-rods *b* and *b'*, cylinders *c* and *c'* with endless band *g* passing over them, shafts *d* and *d'*, lever *e*, connecting-rod *o*, rack *f* with flanges *r* and *r'*, gear and plain wheels K and K', box *h*, bearings *i* and *i'*, rock-shaft *p*, reservoir E, car C, tub or bucket B, lid D, substantially as arranged, and operating as hereinbefore set forth.

2. In an earth-closet or commode I claim the combination of the arms or levers *a* and *a'*, connecting-rods *b* and *b'*, cylinders *c* and *c'* with endless band *g* passing over them, shafts *d* and *d'*, levers *e*, connecting-rod *o*, rack *f* with flanges *r* and *r'*, box *h*, bearings *i* and *i'*, rock-shaft *p*, reservoir E, car C, tub or bucket B, lid D, the whole substantially as arranged, and operating as hereinbefore set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 13th day of March, A. D. 1872.

AMOS A. JAQUA.

In presence of—

LOUIS W. FROST,
CHARLES G. COE.