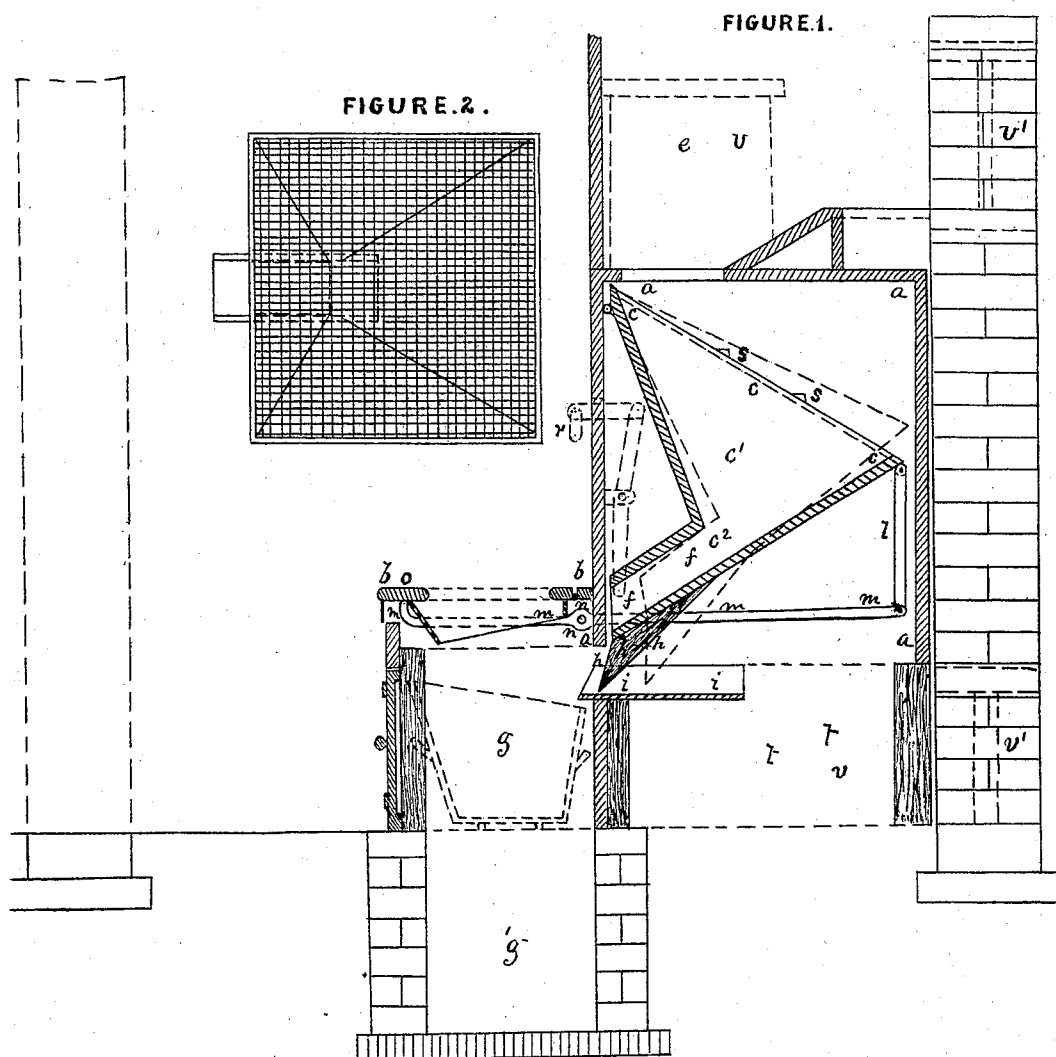


J. C. MORRELL.  
Ash-Screener and Commode.

No. 136,609.

Patented March 11, 1873.



WITNESSES

*Frederick John Cheesbrough.*  
*John Hamilton Redmond.*

INVENTOR.

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# UNITED STATES PATENT OFFICE.

JAMES C. MORRELL, OF MANCHESTER, ENGLAND.

## IMPROVEMENT IN ASH-SCREENERS AND COMMODES.

Specification forming part of Letters Patent No. 136,609, dated March 11, 1873.

*To all whom it may concern:*

Be it known that I, JAMES CONYERS MORRELL, of the city of Manchester, in the county of Lancaster, England, have invented a new and Improved Combined Ash-Screener and Commode; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

My invention is contained in the object represented in Figure No. 1, Fig. No. 2 being a plan of ash-screener with hopper and spout and measurer. It consists of a penthouse or box, *a*, which, by suitable framework, is joined to the commode-seat *b*. Within the penthouse or box is hung the ash-screener and cinder-sifter *c* at an angle from the horizon, having, by preference, its higher edge abutting the side forming the back protection to the seat. This screener, riddle, or sieve receives the unscreened ashes through a hole, *e*, in the top of the penthouse *a*. The screen is provided with sides to direct the cinders as they separate from the ash-dust and descend in time into a suitable receptacle. The screen or sieve *c* has pieces *c*<sup>1</sup> attached to it, which form a hopper with its lowest edge converging toward one point, *c*<sup>2</sup>. At this point a funnel, tube, or spout, *f*, is formed, inclining toward the excrement-receptacle, *g*, placed below the seat *b*. Attached to the under side of this funnel, tube, or spout, and at the lower end thereof, is a notch, *h*, by preference of wood, and of an angular shape. This notch works within a measurer or trough, *i*, open wholly at the end nearest the excrement-receptacle, and wholly or partially at the further end. The trough is of a width corresponding with the funnel *f*. This measure or trough is fixed by suitable attachment to the frame of the penthouse. Across the lower end of the screen or frame is a bar of iron projecting at each side; one or both of which projections may be connected with jointed attachments *l* to a lever or levers, *m*. The lever or levers have their fulcrum attached to the casing forming the penthouse at *n*, the other end of the le-

ver rising and supporting the commode-seat *b* at *o*.

The operation of my invention may be stated as follows—that is to say: By the depression of the commode-seat *b*, or, in lieu thereof, the movement of the handle *r*, motion is given to the screener *c* and its attachments, by which the cinders are carried down the inclined plane forming the screen, and the ash-dust onto the inclined planes forming the hopper below, and thence into the funnel or receiver and the trough or measurer. Upon the seat *b* being relieved from this depression the screener and its attachments resume their original position, and in the act of doing so the notch *h* sends before it the ash-dust collected in the measurer, and distributes the same over the recently-fallen deposit in the excrement-receptacle *g*, or, in lieu thereof, the vault *g'*, the mouth of the funnel at the same time closing by abutting against the side of the penthouse, or a cover forming a portion of the case. Across the screener a bar or bars, *s*, by preference of wood, are fitted to arrest the fall of the unscreened ashes in their course down the incline, and so secure their more effectual sifting from the cinders; or this may be accomplished by one or more corrugations being made in the screener itself.

The action, being summarized, is: The unscreened ashes, being thrown through a door or opening, *u* or *u'*, fall onto the incline screener, the sifted cinders going down into the receptacle *t*, from whence they may be removed for re-use through the side wall at *v* or door-opening *v'*, the screened ash-dust being utilized as an excrement deodorizer, in the manner described.

It is obvious that the shape and relations of the respective parts of my combined ash-screener and commode may be varied to suit the tastes of manufacturers without departing from the principle of my invention.

Having thus stated the construction and mode of operation of my invention, what I claim as new therein, and for which I seek Letters Patent, is—

1. The ash-screener *c* hung at rear of a closet for receiving motion, as described, the same

with inclined planes forming hopper *c*<sup>1</sup> and funnel *f* and notch *h* attached thereto, as described.

2. The combination of the above with pent-house *a* and commode-seat *b*, forming a combined ash-screener and commode, substantially as hereinbefore described and set forth.

In witness whereof I, the said JAMES CON-

YERS MORRELL, have hereunto set my hand and seal this twenty-ninth day of August, 1872.

JAMES CONYERS MORRELL. [L. s.]

Witnesses:

FREDERICK JOHN CHEESBROUGH,

JOHN HAMILTON REDMOND,

*Both of 15 Water street, Liverpool, England.*