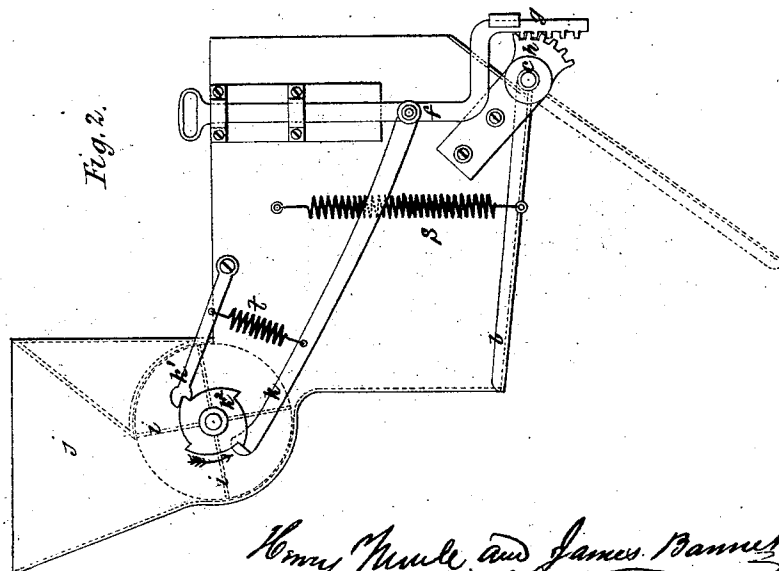
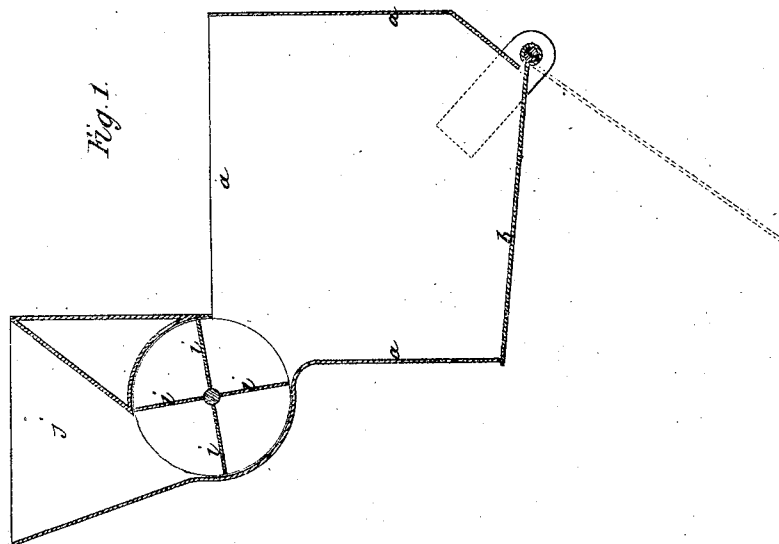


HENRY MOULE & JAMES BANNEHR.

Improvement in Earth-Closets.

No. 114,960.

Patented May 16, 1871.



Witness
A. J. DeLong
W. H. Brown

Henry Moule and James Bannehr
By their attorney
J. M. Lister

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Fig. 5.

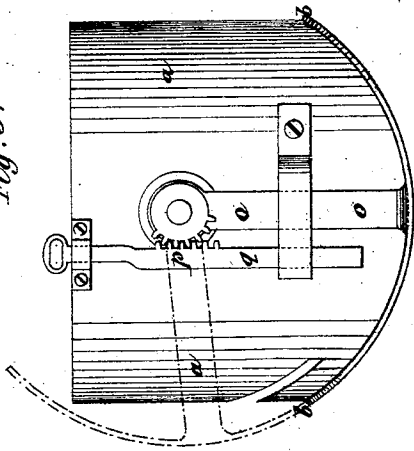


Fig. 6.

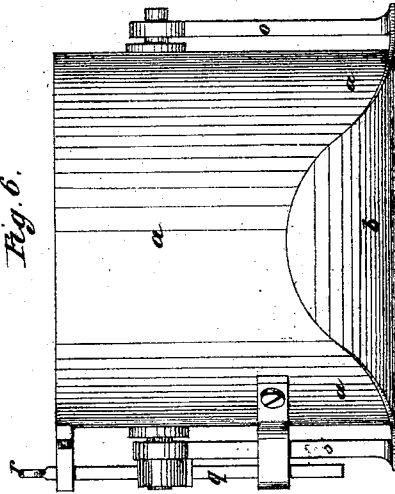


Fig. 3.

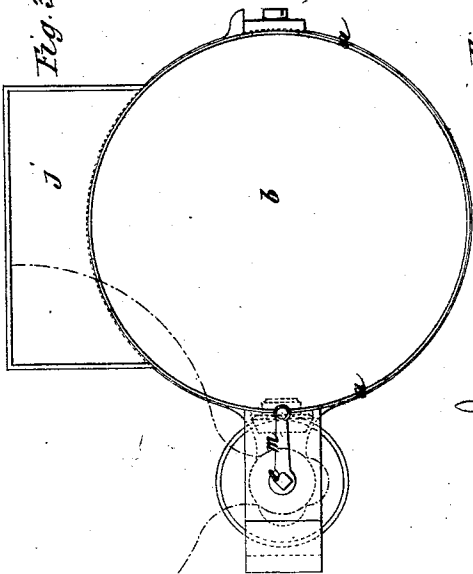
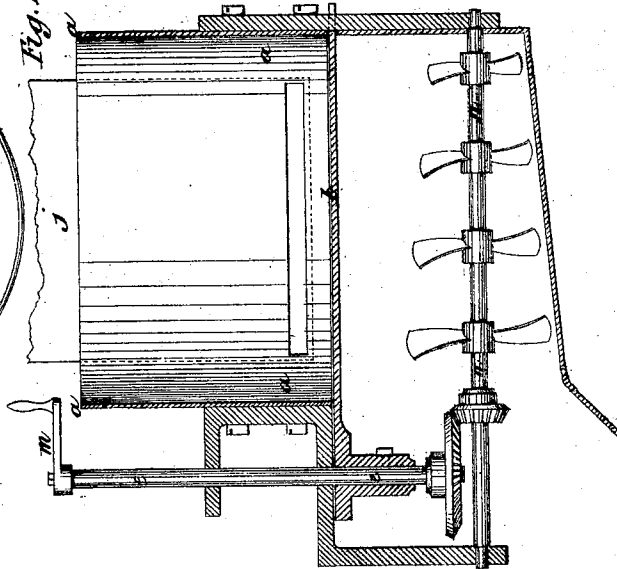


Fig. 4.



In witness
A. J. De laoy
W. H. Fisher

Henry Moule and James Banner
by their attorney
John L. Lister

UNITED STATES PATENT OFFICE.

HENRY MOULE, OF FORDINGTON, AND JAMES BANNEHR, OF EXETER,
ENGLAND, ASSIGNORS TO EARTH CLOSET COMPANY, OF HARTFORD,
CONNECTICUT.

IMPROVEMENT IN EARTH-CLOSETS.

Specification forming part of Letters Patent No. **114,960**, dated May 16, 1871.

To all whom it may concern:

Be it known that we, HENRY MOULE, of Fordington, in the county of Dorset, and JAMES BANNEHR, of Exeter, England, have invented certain new and useful Improvements in Earth-Closets; and we hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings, making part of this application.

Our invention relates to a new and useful improvement in earth-closets; and has for its main object to provide a means by which the excrementitious matter and the earth or other deodorent which are deposited each time the closet is used in a chamber, together may be automatically dumped into an auxiliary receptacle, and there mixed or stirred; and to this end our invention consists in the combination, with the earth-closet, of an auxiliary chamber and stirring mechanism or device, as hereinafter more fully described.

To enable those skilled in the art to make and use our invention, we will more particularly describe it, referring to the accompanying drawings, making part of this application.

At Figures 1 and 2 we have shown an arrangement of earth-closet provided with a dumping bottom and a mechanism for distributing the powdered earth or other deodorent, and in which *a* is the case or box, having a hinged bottom, *b*, mounted at its front edge to turn on an axis, *c*, and operated through the medium of a sector, *h*, rack *g*, by the hand-bar *f*, which latter also operates, through the medium of pawls *k* *k* and ratchet-wheel *k*², the charger *i* of the earth-hopper *j*.

At Figs. 3 and 4 we have shown, in plan view and vertical section, a different form and construction of excrement chamber or case, provided with a horizontally-swinging bottom, (earth-distributor not shown,) and provided with the auxiliary chamber and stirring device.

In these views, *a* is the case; *b*, its swinging bottom, arranged to turn or vibrate on the vertical shaft *e*; and *i* is the chute or passage, which is connected to the earth-receptacle. *m* is a crank-handle, by means of which the shaft *e* is turned; and this shaft is provided at its lower end with a bevel-gear, which engages with a bevel-pinion on the end of the horizontal shaft *n* of the stirrer. This stirrer is composed simply of said shaft provided with vanes or radially-arranged arms or paddles, which are arranged, by preference, so as to increase in length toward that end of the shaft nearest which the mixed material is to be discharged, so as to be adapted to the inclined bottom, on which the mass accumulates, and down which it is fed or pushed along toward the point of discharge.

At Figs. 5 and 6 we have shown another modification of case, in which a curved bottom, arranged to swing upward and backward in the arc of a circle, is employed.

In these figures, *a* is the case; *b*, the bottom, hung by arms *o* so as to vibrate about a horizontal axis, on which is keyed a sector, that engages with the rack *p* of the hand-lever *q*, as shown. In both this and the kind of case shown at Figs. 3 and 4 the swing-bottom is so arranged as to scrape against the lower edge of the case *a*, and be cleared or cleaned off each time it is vibrated.

It will be understood that in an apparatus such as shown at Figs. 3 and 4 the excrement is dusted over, each time the commode or closet is used, by a distributor of some sort, receiving the powdered earth from a suitable hopper—as, for instance, as seen at Figs. 1 and 2; and that, when it is desired, the contents of chamber *a* are discharged into the auxiliary chamber or receptacle beneath by simply turning the handle *m*; and it will be seen that by turning said handle for this purpose also induces to a partial rotation of the stirrer, which will keep the mass agitated,

and, in connection with the inclination of the plane on which it rests, induce to its discharge in a disintegrated condition.

Having described our improvement so that one skilled in the art can make and use our invention, what we claim as new, and desire to secure by Letters Patent, is—

In combination with a commode or closet in which there is a means provided for deodorizing the excrement, a means for mixing the discharge mass, substantially as set forth.

In witness whereof we, the said HENRY

MOULE and JAMES BANNEHR, have hereunto set our hands and seals this 2d day of February, in the year of our Lord one thousand eight hundred and seventy.

HENRY MOULE. [L. S.]
J. BANNEHR. [L. S.]

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