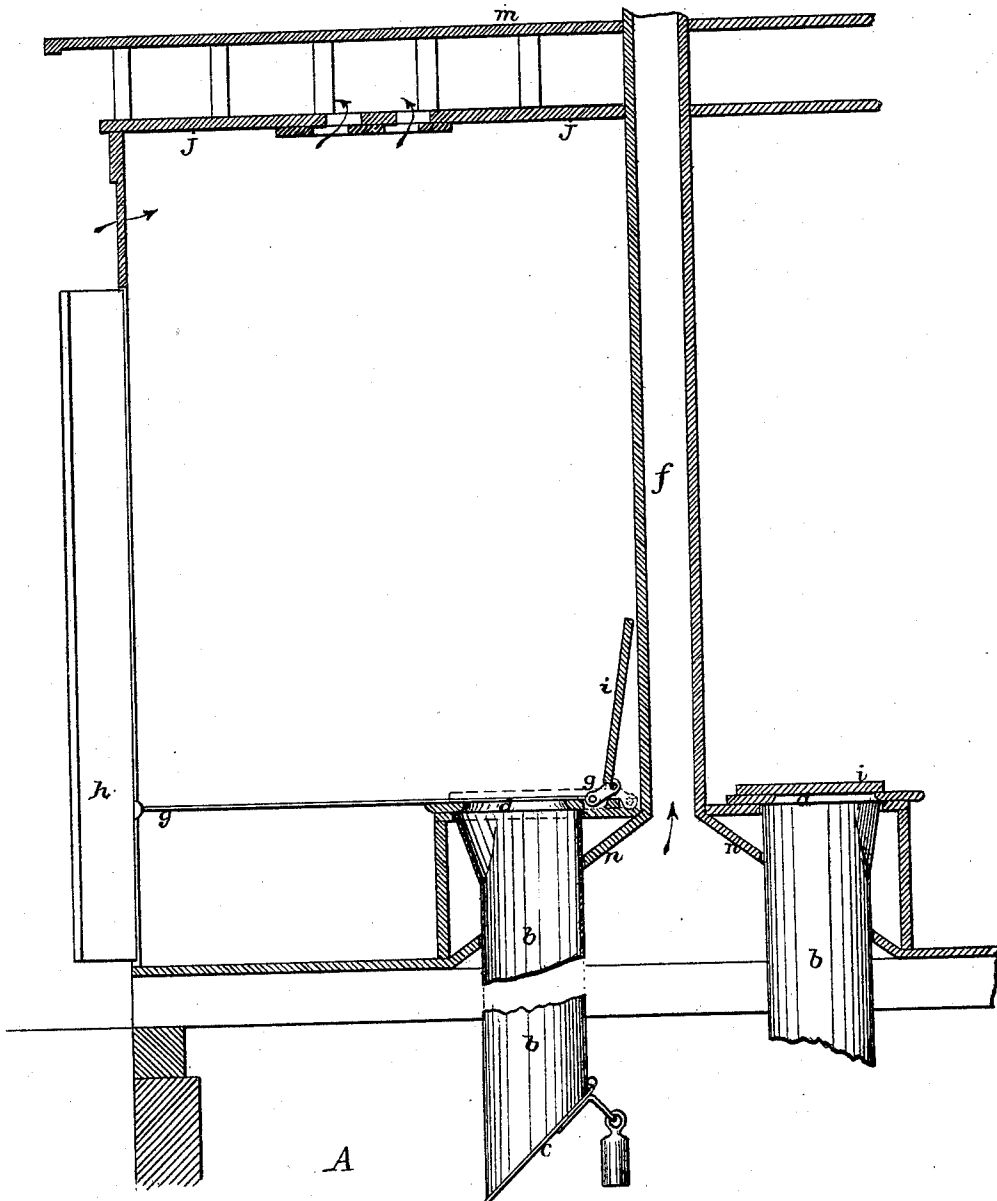


G. SCHUMACHER.
PRIVIES.

No. 170,967.

Patented Dec. 14, 1875.



Witnesses

J. M. Cook
Henry Wagner

Inventor

Gustav Schumacher

UNITED STATES PATENT OFFICE.

GUSTAV SCHUMACHER, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF HIS
RIGHT TO R. D'HEUREUSE, OF SAME PLACE.

IMPROVEMENT IN PRIVIES.

Specification forming part of Letters Patent No. 170,967, dated December 14, 1875; application filed
June 28, 1875.

To all whom it may concern:

Be it known that I, GUSTAV SCHUMACHER, of the city, county, and State of New York, have invented a new and useful Improvement in Privies, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing.

This invention consists of devices by which the repugnant character of the privies at present in general use in crowded cities, especially in tenement-houses, is greatly improved, and by which to prevent the malarious effects which the present crude and objectionable condition of these structures necessarily has, not only upon those compelled to use them, but upon those living in their proximity.

In the drawing accompanying this specification a sectional elevation across the seat is represented, in which *A* is the cess-pool or vault, in or without connection with the sewer. *b* is a capacious tube, which may widen upward to the seat *d*, to which it is attached, and is kept closed below by a valve, *c*, arranged in such a manner as to permit of the downward passage of the night-soil, while it prevents the escape of the obnoxious gases from the cess-pool or sewer in that direction, so that the only exit for these gases is by a roomy air-chimney, *f*, at the back of the seat. To facilitate their egress there an apron, *n*, covering the vault, and perforated for the passage of the tube *b*, rises from the flooring in front to the back of the seat, where it connects with the air-chimney *f*, and the latter may be carried as high as required to secure the escape of the gases in a comparatively harmless condition. A simple contrivance, *g*, connects the cover *i* of the seat-hole with the privy-door *h* in such a manner that in opening the door to permit the egress of the visitor the cover closes, and a duty is thus automatically performed, otherwise too frequently omitted.

The seat-board *d*, with all its attachments, as tube *b*, mechanism *g*, and cover *i*, is or may be made movable, to be taken up readily for inspection, cleaning, or repair, and quickly replaced.

In ordinary backhouses generally exposed to the action of the sun the heat is frequently excessive, and, in connection with the effluvia emitted, actually unbearable. To alleviate this evil I have contrived a ceiling, *j*, some distance below and separate from the roof *m*, which leaves an open space between the roof and the shaded ceiling, and cooled by the free circulation of air.

Openings in the ceiling, for the purpose of ventilating the privy itself, can be arranged to be closed or opened at option.

While in ordinary privies the air-chimney reaches far enough down into the cess-pool, its intended action is rendered inoperative by the fact that the effluvia and cess-pool gases find a readier escape through the seat-hole. For this reason it has proved a useless expense to raise the air-chimneys of ordinary privies to the top of adjoining buildings. There is, however, a nearly-constant draft of cold air within the sewer, causing, especially during the cold season of the year, great discomfort to those using the privies, and frequently serious sickness. This is perfectly obviated by the tube and valve arrangement of my improved privies, which reaches far enough down into the cess-pool not to be exposed to the full effects of the hot summer air, nor generally to freezing in winter.

All the above-specified improvements can be applied to the privies now in use at a trifling expense. The air-chimneys of a number of privies may be connected at a certain elevation into one which is carried up high enough to render the escaping gases innocuous.

I claim as my invention—

1. The combination of the tube *b*, provided at bottom with valve *c*, the sink *A*, apron *n*, and air-chimney *f*, substantially as and for the purpose set forth.

2. The combination of the hinged lid *i*, rod *g*, and door *h*, substantially as and for the purpose set forth.

GUSTAV SCHUMACHER.

Witnesses:

J. W. CARLE,
HENRY WAGNER.