# J. Sloan,

## House Ventilator.

No. 57,642. Patented Aug. 28, 1866.

Fig. 3.

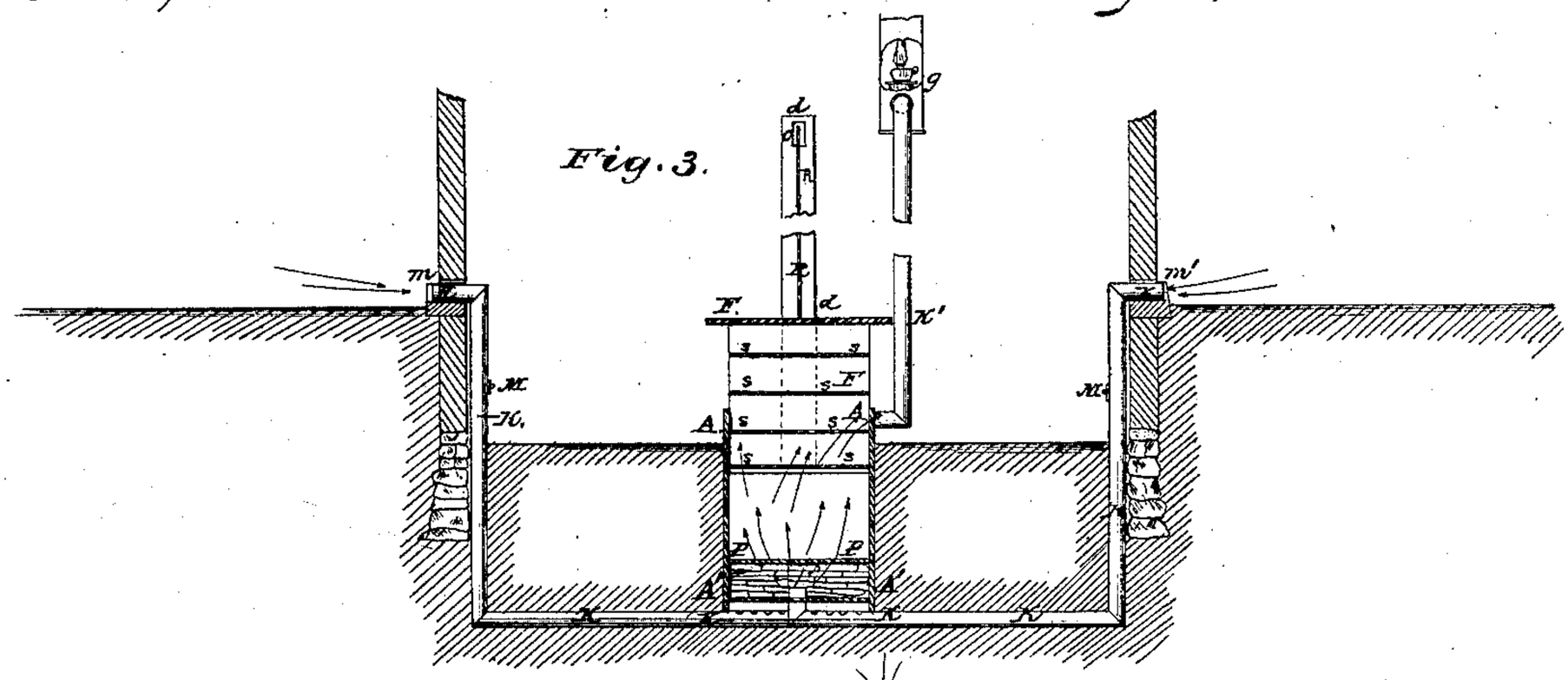



Fig. 1.

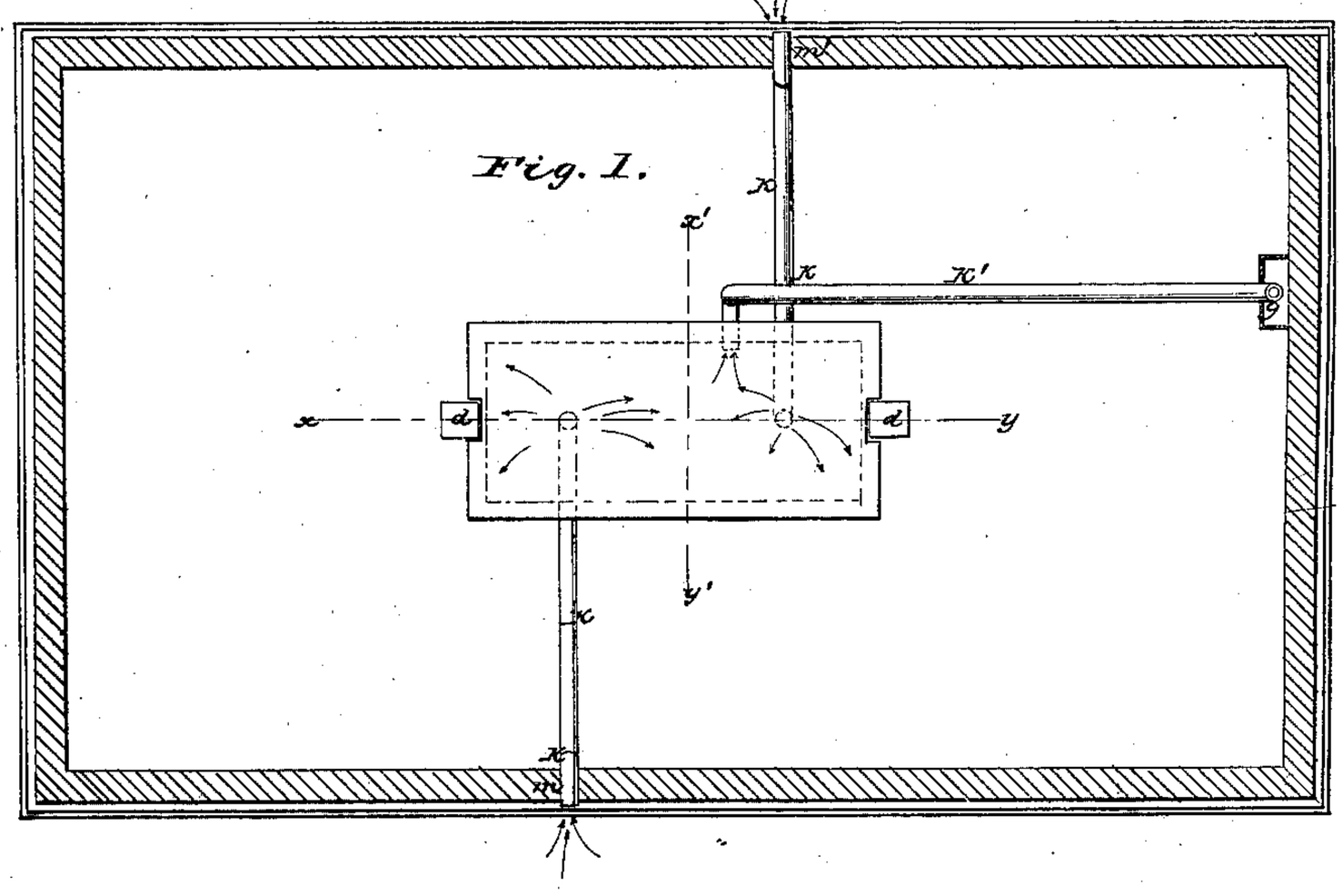
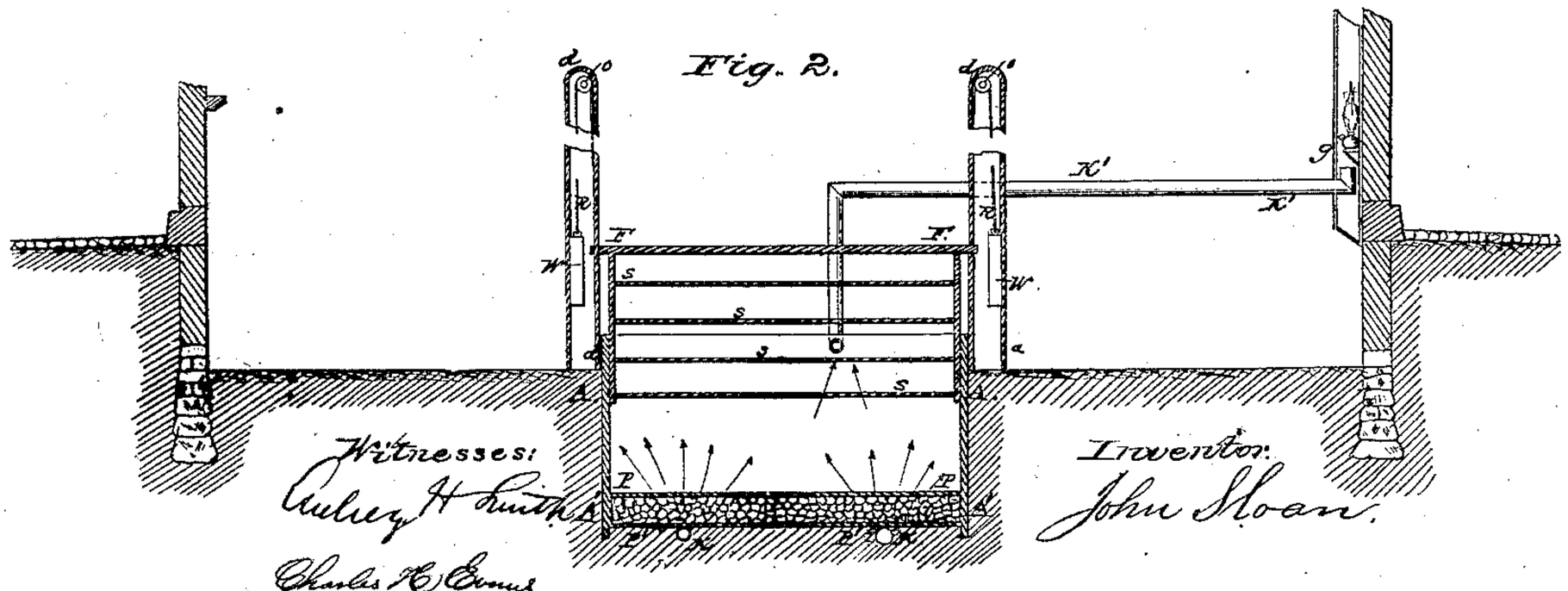



Fig. 2.




Witnesses:
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# UNITED STATES PATENT OFFICE.

JOHN SLOAN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND JOHN W. JONES, OF SAME PLACE.

## VENTILATED LARDER.

Specification forming part of Letters Patent No. **57,642**, dated August 28, 1866.

*To all whom it may concern:*

Be it known that I, JOHN SLOAN, of the city of Philadelphia, in the county of Philadelphia, in the State of Pennsylvania, have invented a new and Improved Larder; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a plan of the cellar and of the improved larder and of its air-pipes, &c.; Fig. 2, a longitudinal sectional elevation on *x y* of the same; Fig. 3, a transverse sectional elevation on *x' y'* of the same.

The nature of my invention consists in sinking a perfectly water-tight box down in the ground of cellars, and in which is kept a fitting frame, movable up and downward by means of ropes, wheels, and weights, provided with shelves, and in bringing in the sunken box, suitably perforated to that effect, the outside air through pipes properly distributed, thus admitting a free circulation of cold air all around the provisions kept on the shelves of the movable frame or larder above mentioned.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation, similar letters referring to similar parts throughout the annexed drawings and the description thereof.

A A is a box let down into the ground and made water-tight, and of any material, as wood, metal, or cemented walls, and of any size to suit.

A' A' is a box set at bottom of box A A, containing a bed of charcoal, the top lid, P P, perforated with as many holes as possible for the purpose hereinafter mentioned.

F F is the frame, fitting in box A A, and which, combined with shelves *s s s*, constitutes the larder, which can be raised or lowered at will by means of weights and ropes, as any ordinary dumb-waiter, *a a* being the weight-boxes, W W the weights, and R R the ropes of said system.

K K are two air-pipes, made of any suitable material and size, partly sunk in the ground, with their inside end through bottom of charcoal-box, and their outside end through the cellar wall, as shown at *m m'*.

The outside air, rushing through said pipes, as shown by the arrows at *m m'*, goes through air-pipes to charcoal-box, where it gets purified, thence through charcoal-box-lid holes to the larder, where it finds a free circulation through the perforated shelves of the same.

It might be objected, first, that the draft might not be strong enough to draw a sufficient supply of outside air through air-pipes K K to obtain the desired and intended effect; second, that in case of the wind blowing hard in the direction of one of the air-pipes it might fill up box A A with an excess of air, which would cause larder F F *s s* to rise up on account of pressure of air it could not counterbalance or overcome; third, that in warm weather the outside air would reach too hot, and would accelerate spoiling the provisions in larder, instead of preserving them, as intended.

Those three objections are obviated as follows:

First, box A A is provided with a discharge or flue pipe, K' K', which ends in the house-chimney flue in which, fire being mostly kept, we find a sufficient draft to establish a strong upward current, which will insure the rushing of the outside air into the air-pipe, and in cases where fires are not kept up I have provided a small circular fire-box, *q*, in the discharge-pipe, for a small fire or lamp to be there kept up, which will insure the needed draft.

Second, any excess of air shall then find its egress through discharge-pipe K' K' and flue *q*.

Third, in case of warm weather making it desirable to exclude the outside air, I stop outside openings of air-pipes *m m'* and opening-valve $M^2$ $M^2$ on air-pipes inside the cellar. I can then use the colder air from said cellar, as aforesaid described for the outside air.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

The combination of box A A, air-pipes K K, and discharge-pipe K' K', charcoal-box A A', with larder F F, in the manner as herein described, or any other substantially the same, so as to obtain the desired and intended effect.

JOHN SLOAN.

Witnesses:

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