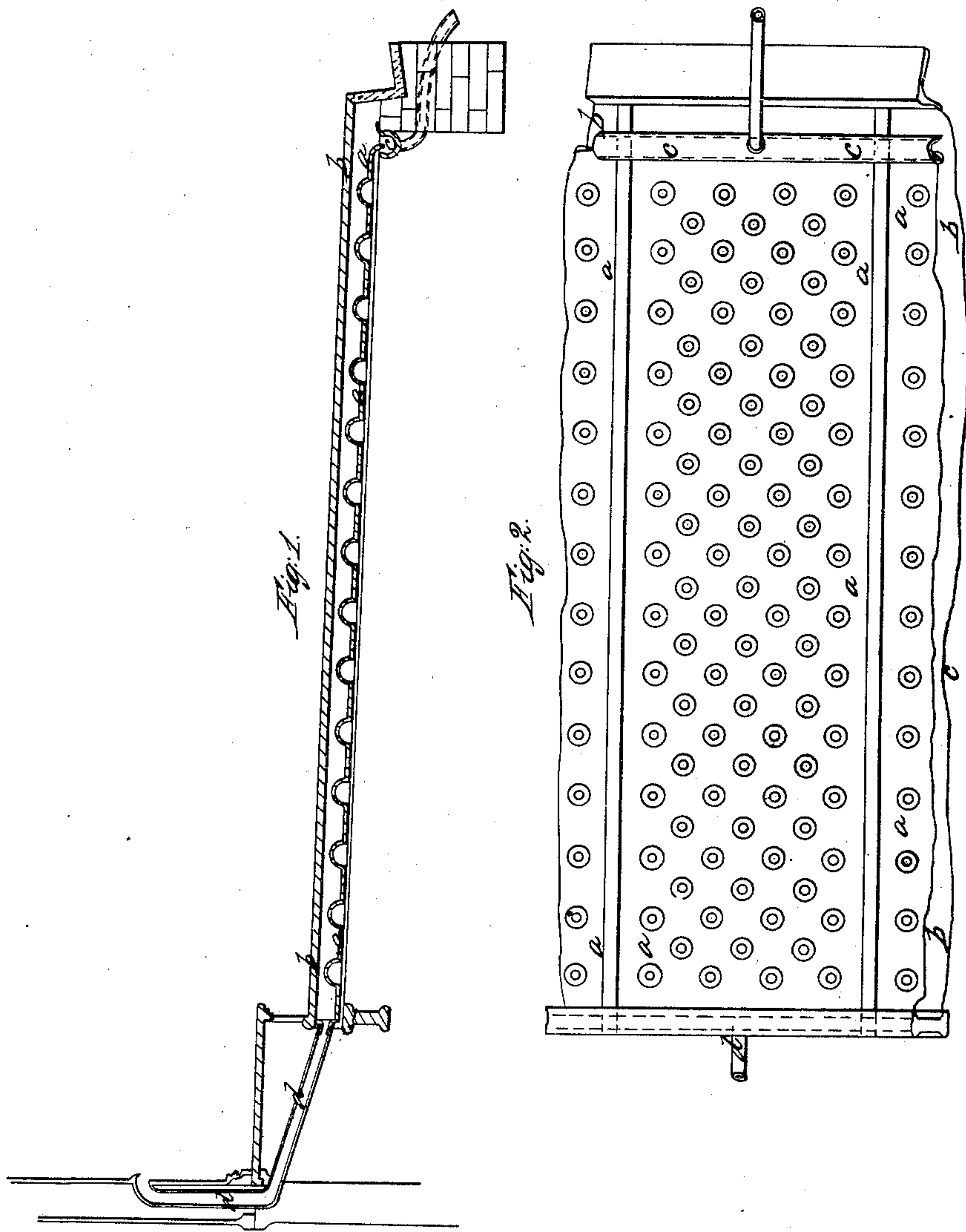


J. Patrick.

Vault Cover.

N^o 23,387.

Patented Mar. 29, 1859.



Witnesses:

*Lynnel W. Lowell
Thomas G. Hawley*

Inventor:

John Patrick

UNITED STATES PATENT OFFICE.

JOHN PATRICK, OF NEW YORK, N. Y.

VENTILATING VAULT-COVER.

Specification of Letters Patent No. 23,387, dated March 29, 1859.

To all whom it may concern:

Be it known that I, JOHN PATRICK, of the city, county, and State of New York, have invented, made, and applied to use a certain
5 new and useful Improvement in Means for Ventilating the Roofs of Vaults and Buildings; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the
10 same, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1, is a vertical section of portions of a vault roof fitted with my improvement
15 and Fig. 2, is an inverted plan of the same.

Similar marks of reference denote the same parts.

In the roofs of vaults and particularly those formed of iron there is considerable
20 condensation, especially in cold weather, and this forming drops of water injures goods that may be stored away in such vaults, by dropping on the same. Besides this the dampness rusts the metal, and disfigures the
25 ceiling of the vault which is a great detriment to the appearance, particularly in those vaults which are illuminated, and the underside of the roof or side walk painted white. The same remarks apply to the roofs of
30 buildings when made of metal.

The nature of my said invention consists in the introduction of a perforated plate
(*a*,) a short distance below the roof or side-
35 walk *b*, the perforations in which are formed at the apex of thimbles or projections, and the ends or edges of these plates are turned down into troughs or gutters (*c*). It will now be apparent that any condensation on

the roof or side walk *b* from vapors arising through the perforated plate *a* will be
40 caught on said plate *a*, and run away by the gutters *c*, from whence the water can be conveyed to the street sewer or other discharge by a suitable leader. The space thus left
45 between the plates *a*, and *b*, is to be ventilated so as to prevent as much as possible the condensation; for this purpose a pipe *d*, is led away in any convenient manner from the space between the plates and terminates
50 in the open air at a sufficiently higher elevation.

In the drawing my improvement is shown as applied to the roof of a vault forming a street sidewalk, but the said improvement
55 can be applied to the roof of any vault or to the metallic roofs of buildings; and in places where illuminating glasses are used for sidewalks, the perforated plate may be dispensed with, or a plate of glass introduced in place thereof.
60

What I claim as my invention and desire to secure by Letters Patent is—

1. The perforated plate and gutter in combination with the metallic roof, ceiling or
65 walk, for forming a ventilating space and catching any water of condensation in the manner and for the purposes specified.

2. And in combination therewith I claim the ventilating pipe *d*, as and for the purposes specified.
70

In witness whereof I have hereunto set my signature this fifth day of February 1859.

JOHN PATRICK.

Witnesses:

LEMUEL W. SERRELL,
THOMAS G. HAROLD.