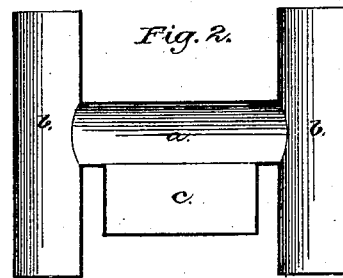
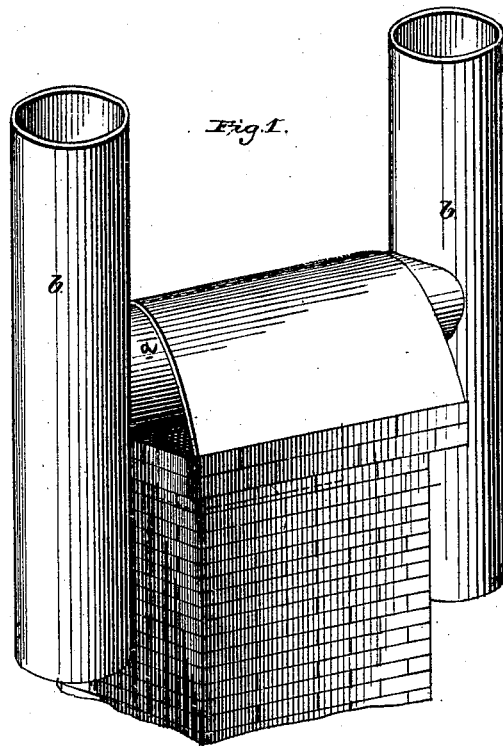


J. R. BOWERS.

DEVICE FOR PREVENTING CHIMNEYS FROM SMOKING.

No. 188,497.

Patented March 20, 1877



Attest:

Chas. C. Lind
Carroll Keutchen

Inventor:

Joseph R. Bowers

UNITED STATES PATENT OFFICE.

JOSEPH R. BOWERS, OF CONCORD, NEW HAMPSHIRE.

IMPROVEMENT IN DEVICES FOR PREVENTING CHIMNEYS FROM SMOKING.

Specification forming part of Letters Patent No. 188,497, dated March 20, 1877; application filed December 18, 1876.

To all whom it may concern:

Be it known that I, JOSEPH R. BOWERS, of Concord, in the county of Merrimack and State of New Hampshire, have invented a certain Device for Preventing Chimneys from Smoking, of which the following is a specification, reference being had to the accompanying drawing illustrating the same.

My invention is intended to provide a simple and efficient means of assisting the draft of chimneys so as to prevent their smoking; and it consists in placing upon the top of the chimney a horizontal pipe or tube, which communicates below with the flue or flues of the chimney, and at each end with vertical tubes, as hereinafter more fully described.

Figure 1 is a perspective view of the device as applied to the chimney, and Fig. 2 is a view of the same detached.

a represents a horizontal tube or pipe, secured upon the top of the chimney by suitable means, and having a rectangular opening below provided with a downward-projecting flange or casing, *c*, which fits into the chimney-top, and into which the flues open from beneath. At the ends of this horizontal tube, and communicating with it, are attached vertical tubes *b b*, open at top and bottom. These

vertical tubes are made of various sizes, according to the size of the flues in the chimney, and should extend about two or three feet above and below the ends of the horizontal tube.

When the device is applied to the tops of chimneys situated under the lee of taller structures, where vertical currents of air may be generated, which would blow downward into the chimney, such vertical currents will pass into the open upper ends of the tubes *b b*, and be conducted past the ends of the horizontal tube *a*, and out at the lower ends of the tubes *b b*, thus tending to assist the draft of the chimney, rather than obstruct it, upon the same principle by which air may be exhausted from a tube by passing a jet of steam by the open end thereof.

I claim as my invention—

The combination of the vertical tubes *b b*, open at both ends, with the horizontal tube or pipe *a*, having a downward-projecting flange or casing, *c*, when applied to the tops of chimneys, as and for the purpose set forth.

JOSEPH R. BOWERS.

Witnesses:

CHAS. C. LUND,
CARROLL HUTCHINS.