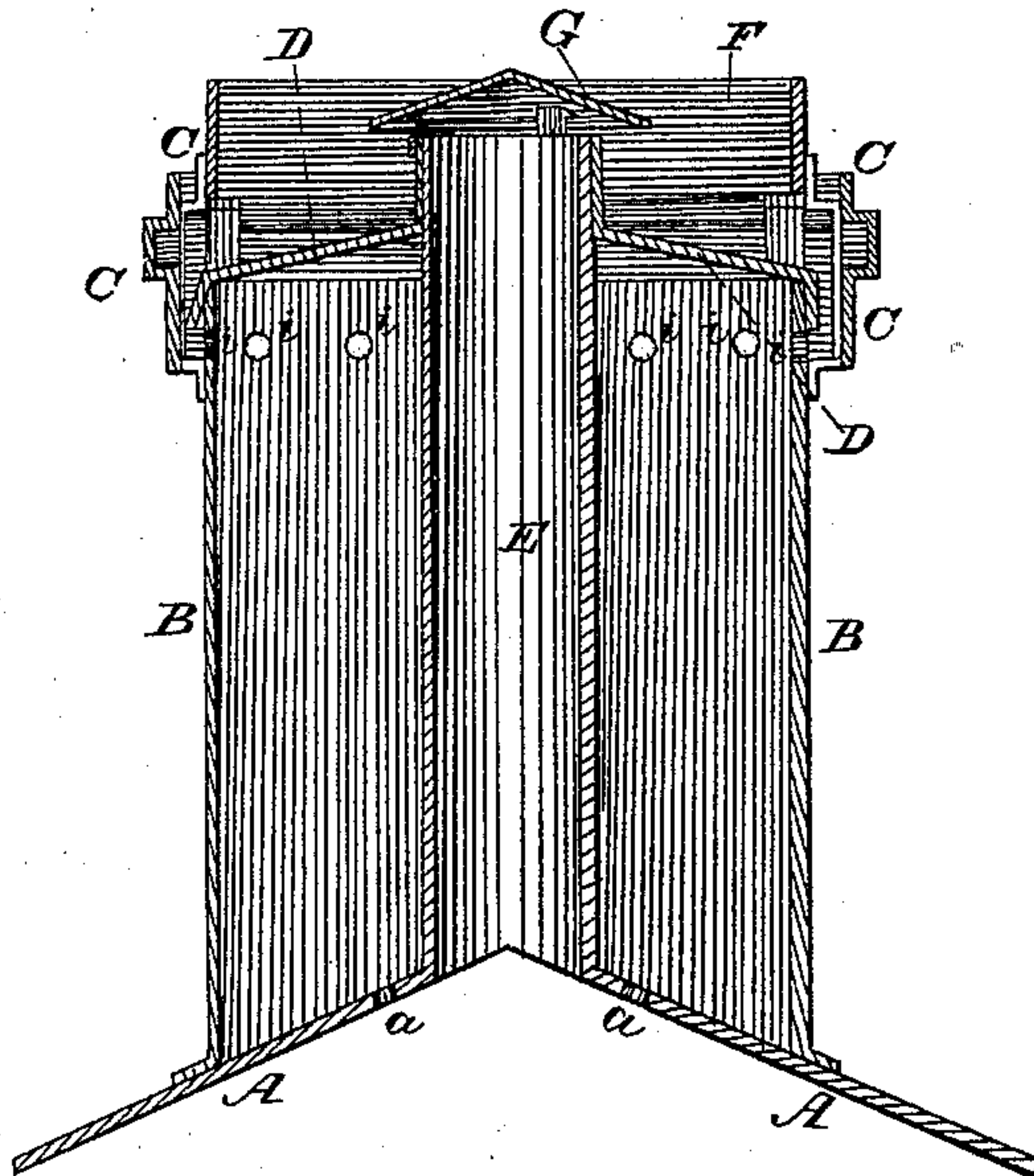


C. M. REYNOLDS.

Metal Chimney.

No. 98,800.

Patented Jan. 11, 1870.



Witnesses.

Harry King.
C. L. Cress

Inventor.

C. M. Reynolds.
per Alexander Mason

United States Patent Office.

C. M. REYNOLDS, OF MIFFLIN, WISCONSIN.

Letters Patent No. 98,800, dated January 11, 1870.

CHIMNEY-TOP.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, C. M. REYNOLDS, of Mifflin, in the county of Iowa, and in the State of Wisconsin, have invented certain new and useful Improvements in Metallic Chimneys; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "metallic chimney," as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains, to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a longitudinal vertical section of my invention.

A represents the saddle of the chimney, made so as to fit the roof of the house.

Upon the saddle A is secured the body B, of the chimney, having at its upper end the flanges or projections C C.

The body B is covered by a cap, D, which overlaps the upper edge of the body, as shown at *x*, so that rain or snow cannot penetrate within the chimney, but will be carried off on the outside.

Through the centre of the cap D the pipe E passes, said pipe passing downward the entire length of the chimney, and is made fast to the centre of the saddle A.

Around the lower edge of the pipe E, through the saddle A, is a series of holes, *a a*, for the purpose of allowing air to pass upward between the body B and the inner pipe E, and find an outlet through holes *i i*, near the upper edge of the body B.

The hole in the roof for chimney must be cut about

the same size as the body B, of the chimney, and the inner pipe or chimney, E, being smaller than the outer body, leaves an air-chamber, through which the foul or heated air can escape from the several rooms through which the pipe passes. The inner pipe E might be made tapering, so that the stove-pipe may fit tight, by which means all sparks and fire are prevented from falling into rooms below; and hence, the advantage of the ventilator carrying the heated and foul air.

The upper end of the pipe E is covered by an adjustable cap, G, projecting beyond the edges of the pipe, and so arranged that the smoke escapes at the sides, and does not go directly upward after leaving the pipe.

Around the upper edge of the body B, is a flange, F, which projects upward above the upper edge of the pipe E, a suitable distance, so that the wind will not interfere with the exit of the smoke from the pipe.

The entire chimney, thus constructed, is made of sheet-iron, and is consequently much lighter than cast-iron or brick, and can be much more easily adjusted, and its cost will be trifling, compared with the others.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The arrangement of the upper flange F, adjustable cap G, pipe E, cap D, with overlapping flange *x*, projections C, perforated body B, and perforated saddle A, all substantially as shown and described.

In testimony that I claim the foregoing, I have hereunto set my hand, this 30th day of October, 1869.

C. M. REYNOLDS.

Witnesses:

J. W. RENRY,
THOS. PATEFIELD.