

C. D. WOODRUFF.
Stovepipe Thimble.

No. 106,528.

Patented Aug. 16, 1870.

FIG. 1

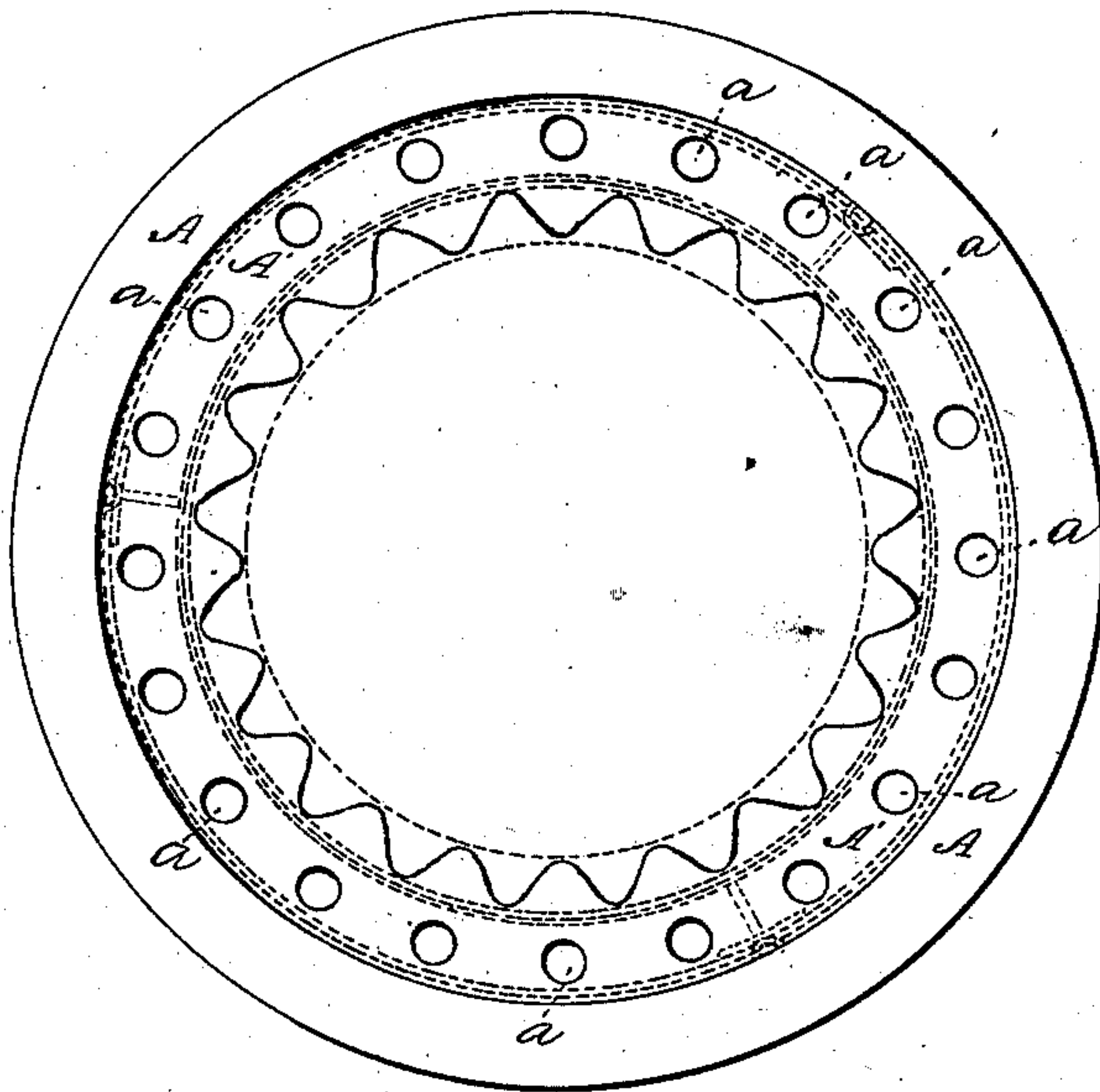


FIG. 2

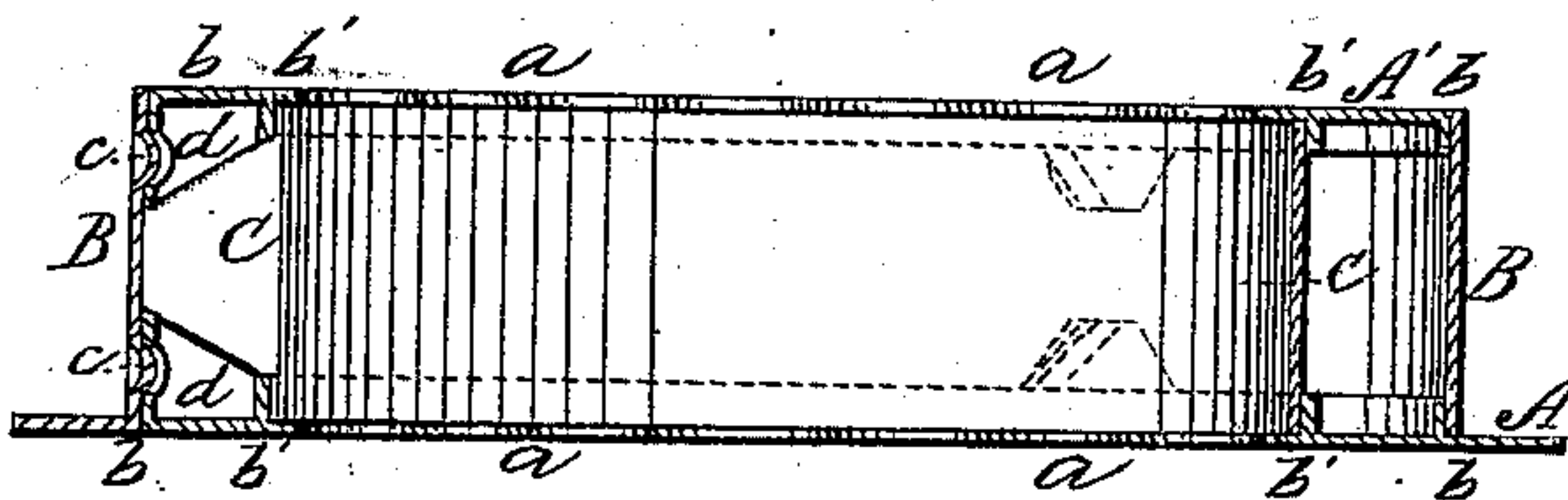
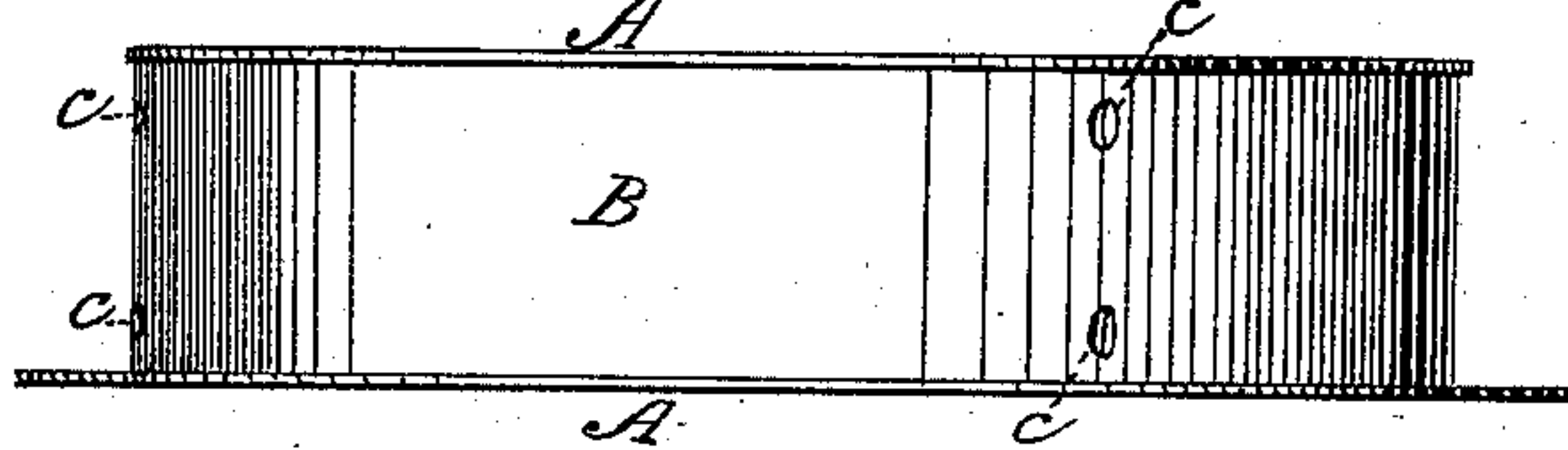


FIG. 3



WITNESSES:

W. Clayton
J. H. Clayton

INVENTOR:

C. D. Woodruff
by his attys
J. H. Clayton & Co.

United States Patent Office.

CHAUNCEY D. WOODRUFF, OF TOLEDO, OHIO.

Letters Patent No. 106,528, dated August 16, 1870.

VENTILATOR FOR STOVE-PIPES.

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, CHAUNCEY D. WOODRUFF, of Toledo, in the county of Lucas and in the State of Ohio, have invented certain new and useful Improvements in Ventilators for Stove-Pipes; and I 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.

The nature of my invention consists in the means of securing together the parts of ventilators for stove-pipes, by providing the upper and lower plates with two or more projections, having recesses therein, in which lugs are formed by indenting the parts of the band connecting the plates, which are immediately over the recesses in the projections on the plates, and then filling them with solder, all of which will be more fully hereinafter described, so as to enable those skilled in the arts to make and use my invention.

In the drawings—

Figure 1 is a view representing my invention when perfected and ready for use, the bottom of the ventilator being turned up;

Figure 2 is a vertical section; and

Figure 3 a side elevation of my ventilator.

A and A' are thin cast-iron annular plates, and differ from each other only in one (A) of them having a greater circumference than the other, A'. Plate A, having the greater circumference, is made the top of the ventilator, and the ventilator is supported and held in position by plate A'. The plates have their inner edges, next to the stove-pipe, (shown by a red circle in fig. 1,) serrated. The openings or intervals in the serrated edges serve as passages through which a current of air may pass between the band C and the stove-pipe, and thus providing a second current of cold air to assist in cooling the ventilator.

A series of holes, *a*, is made about half an inch from the inner edges of the plate, in casting, and serve

as passages for a current of cold air to cool the ventilator.

On each side of these holes *a*, next to the inner and outer edges of the plates, are annular flanges *b* and *b'*, projecting up from the plates.

On the inner side of flanges *b'* the band C, which is made of tin, is placed, and the flanges *b'* and *b'* serve as braces to hold the band C in place.

The flanges *b* and *b* each have two or more projections, *d*, *d*, and *d*, cast with them, having braces extending back to flanges *b'*; and on the outer side of these projections *d* are made recesses, which are to receive the lugs *c*, which project from the inner side of the band B, and made by indenting the space on band B, immediately covering the recesses in projections *d*, and the filling such indentations with solder, to make the lugs *c* stronger and more durable.

The advantages of my invention mainly consist in the simple manner of connecting the parts of the ventilator together, and providing a second current of cold air to assist in cooling the ventilator.

Having thus fully described my invention,

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

1. The plates A and A', with rims *b b* and *b' b'*, lugs or projections countersunk, in combination with rims C C and D D, constructed substantially as described, and for the purposes set forth.

2. The plates A A', fastened together by means of countersunk lugs *d* and indentations *c c*, filled with solder, substantially as described, and for the purposes set forth.

In testimony that I claim the above-described certain new and useful "improvements in ventilators for stove-pipes," I have hereunto signed my name this 4th day of August, 1868.

Witnesses:

C. D. WOODRUFF.

OTTO REIDEMEISTER,

M. B. DOYLE.