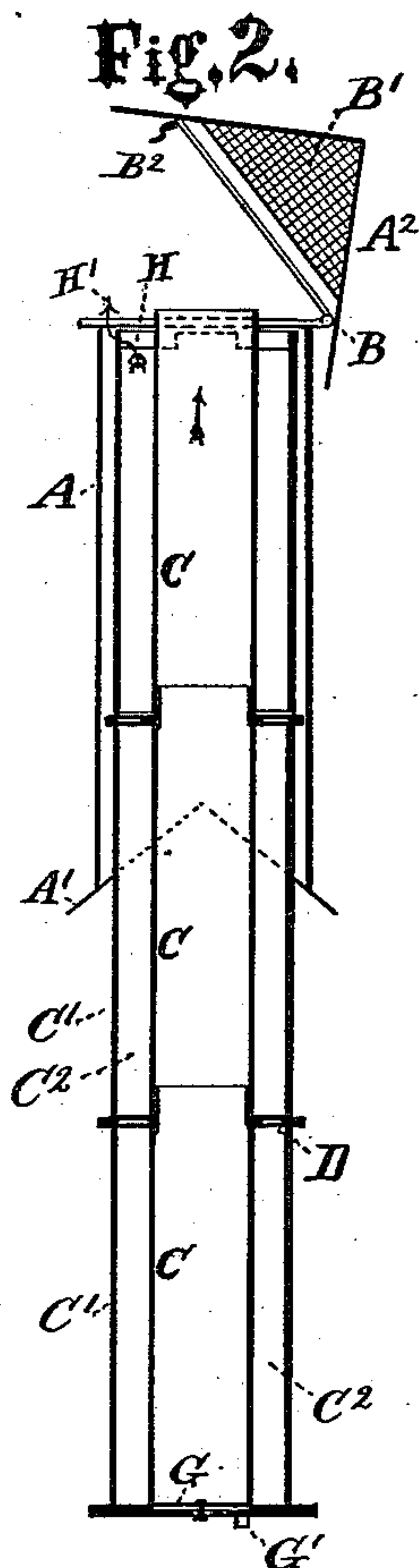
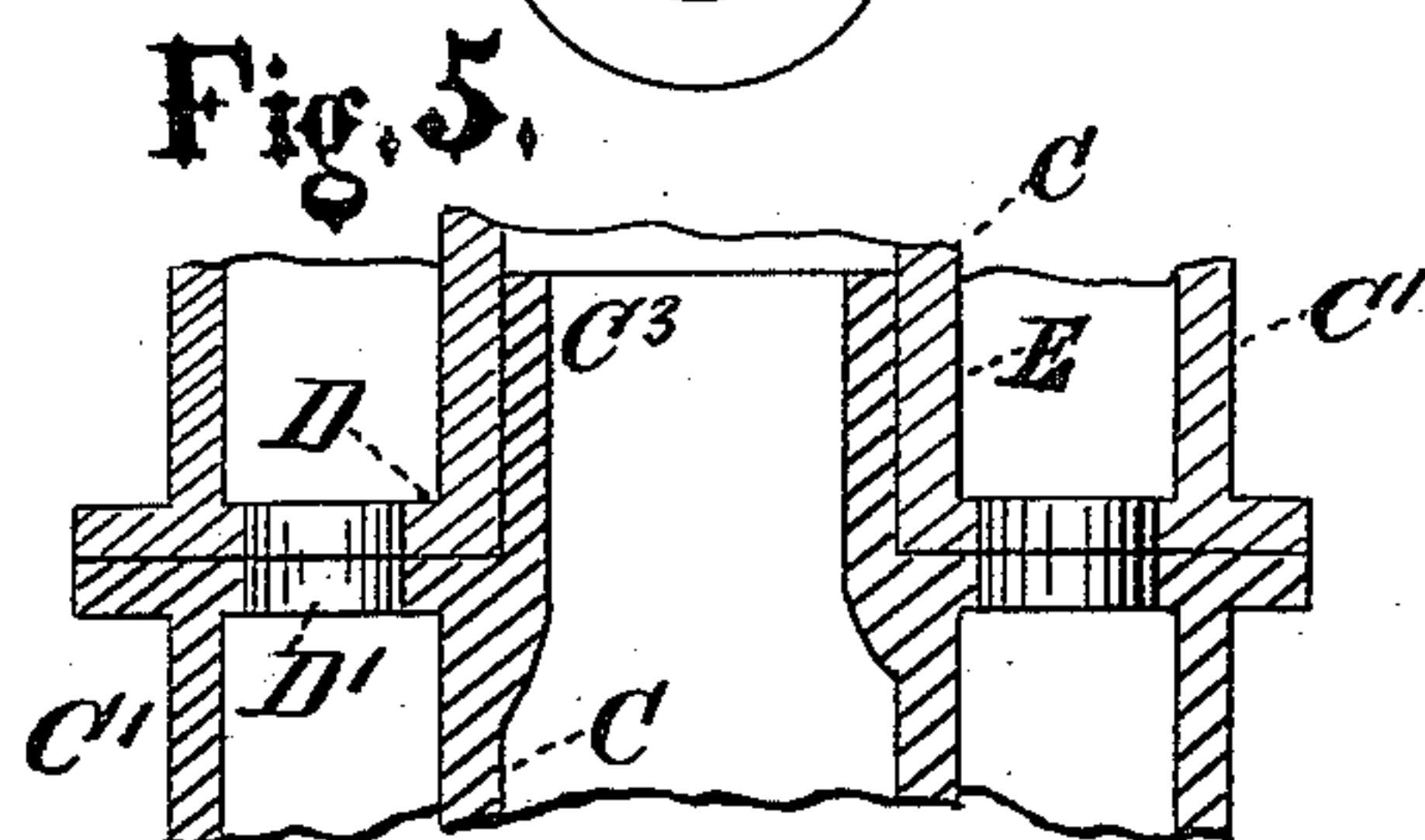
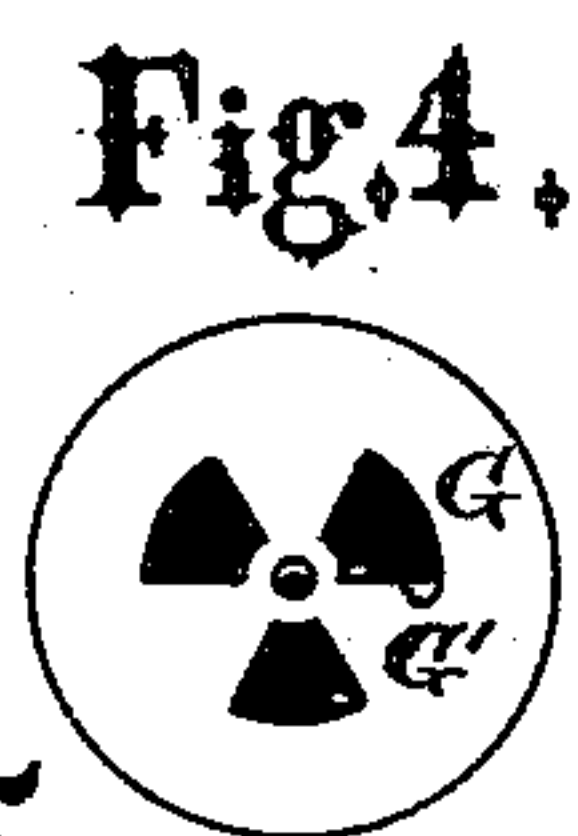
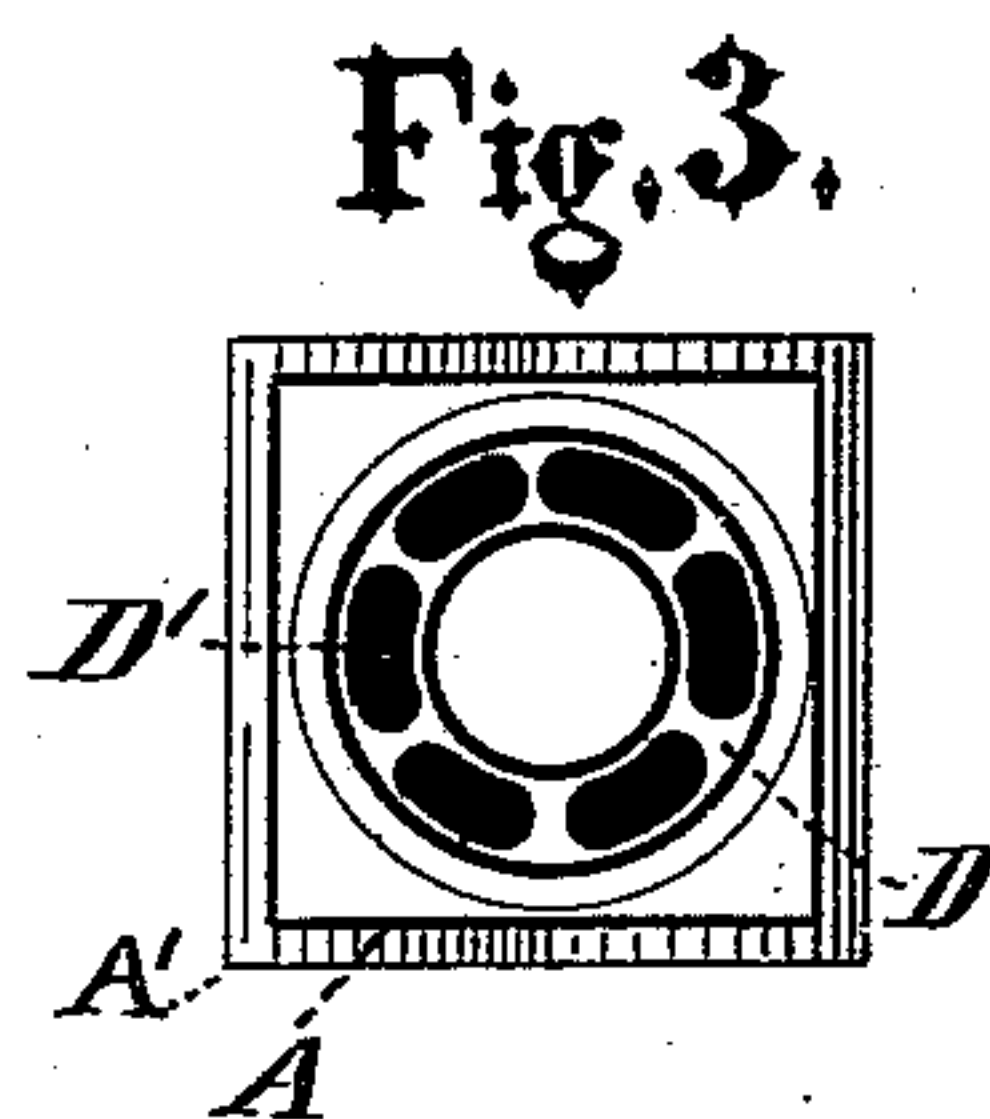
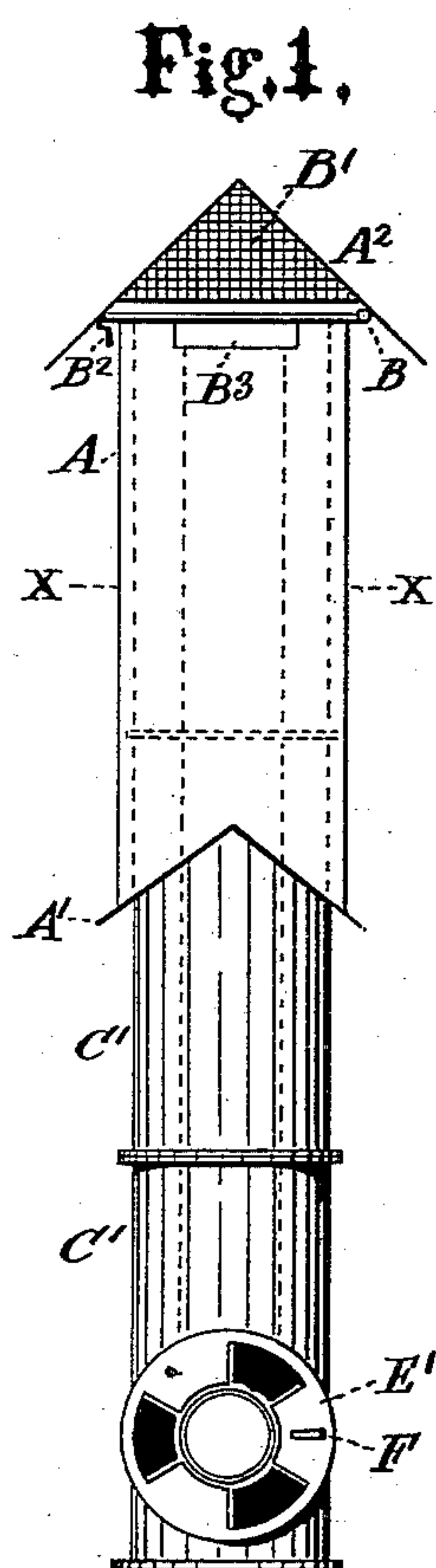


A. T. WHEELER.
Combined Ventilator and Chimney.

No. 226,215.

Patented April 6, 1880.



Witnesses,
Geo. N. Dunbar
A. B. Smith

Inventor,
Albert T. Wheeler
By James Sampster
Atty.

UNITED STATES PATENT OFFICE.

ALBERT T. WHEELER, OF SPRINGVILLE, NEW YORK.

COMBINED VENTILATOR AND CHIMNEY.

SPECIFICATION forming part of Letters Patent No. 226,215, dated April 6, 1880.

Application filed October 31, 1879.

To all whom it may concern:

Be it known that I, ALBERT T. WHEELER, a citizen of the United States, residing at Springville, in the county of Erie and State of New York, have invented certain new and useful Improvements in Combined Ventilators and Chimneys, of which the following is a specification.

My invention relates to a combined chimney and ventilating-shaft for dwellings or other buildings. Its object is to produce a light, cheap, metallic chimney provided with the means for ventilating the rooms through which it passes, a spark-arresting device, and the means for readily cleaning it when required, the whole being adapted to be easily put into a building; and it consists of a series of double tubes held together by a perforated annular rim at each end, so as to leave an annular ventilating-space between them, the inside tube (or smoke-pipe) projecting through the upper end, so as to adapt it to slip into the lower end of another similar tube, in combination with one or more adjustable ventilators and a chimney-jacket, as will be more clearly understood by reference to the drawings, in which—

Figure 1 is a front elevation of a chimney complete; Fig. 2, a vertical section down through the center of Fig. 1; Fig. 3, a horizontal section through line X X, Fig. 1. Fig. 4 represents a bottom view of the chimney; and Fig. 5 is an enlarged section through a portion of two of the double tubes, showing the manner of connecting them together.

A represents the chimney-jacket. It is provided with a flange, A', at the bottom, by which it may be easily connected to the roof of a building so as to be water-tight, and with a cap at the top, A², jointed to the jacket at B, and held when closed, as in Fig. 1, by a spring-catch or its equivalent, B². It is also provided with a screen, B', on each side, to prevent the sparks from coming out onto the roof.

C represents the inner tube or smoke-pipe, and C' the outside tube, leaving the ventilating-space C². I have shown three sections; but there may be more or less. The tubes C C' are held together by the annular rims D, hav-

ing perforations D', to allow a free passage for the air through the ventilating-space C², and the sections are jointed together, as shown in Fig. 5, the upper end, C³, of C being made to project up high enough to slip into the lower end of the upper section at E, as shown. They may be bolted or otherwise fastened together in any well-known manner.

E' (see Fig. 1) represents a ventilator made in the usual way, so it can be closed or opened more or less by means of the handle F.

In the bottom of the chimney, which is in the basement or cellar, I arrange a valve, G, or its equivalent, having a handle, G', to open or close it, for the purpose of removing the ashes or soot or cleaning the chimney. There may be another above, if desired.

The object of the space C² is to make the chimney a non-conductor, and thereby avoid the danger of fire. There are as many ventilators E' as there are stories in the building; and, if desired, a ventilator may be arranged in the cellar.

The ventilators E' communicate with the air-space C², so that the air passes into the ventilator and up through said space, and from section to section, through the perforations D', and out at the top through the openings H into the space between the jacket A and the tube or pipe C', and from thence out at the opening B³ in the jacket. The smoke passes up through the central tube and out through the screen in the chimney-cap.

I claim as my invention—

1. A combined chimney and ventilating-shaft consisting of sections comprising each an outer tube, C', perforated rims D, inner tube, C, with projecting end C³, and the ventilator E', substantially as set forth.

2. The combination, with the tubes C C' and intervening passage C² and opening H, of the outer jacket, A, its opening B³, and the cap A², as set forth.

ALBERT T. WHEELER.

Witnesses:

JAMES SANGSTER,
DANL. H. BURTIS.