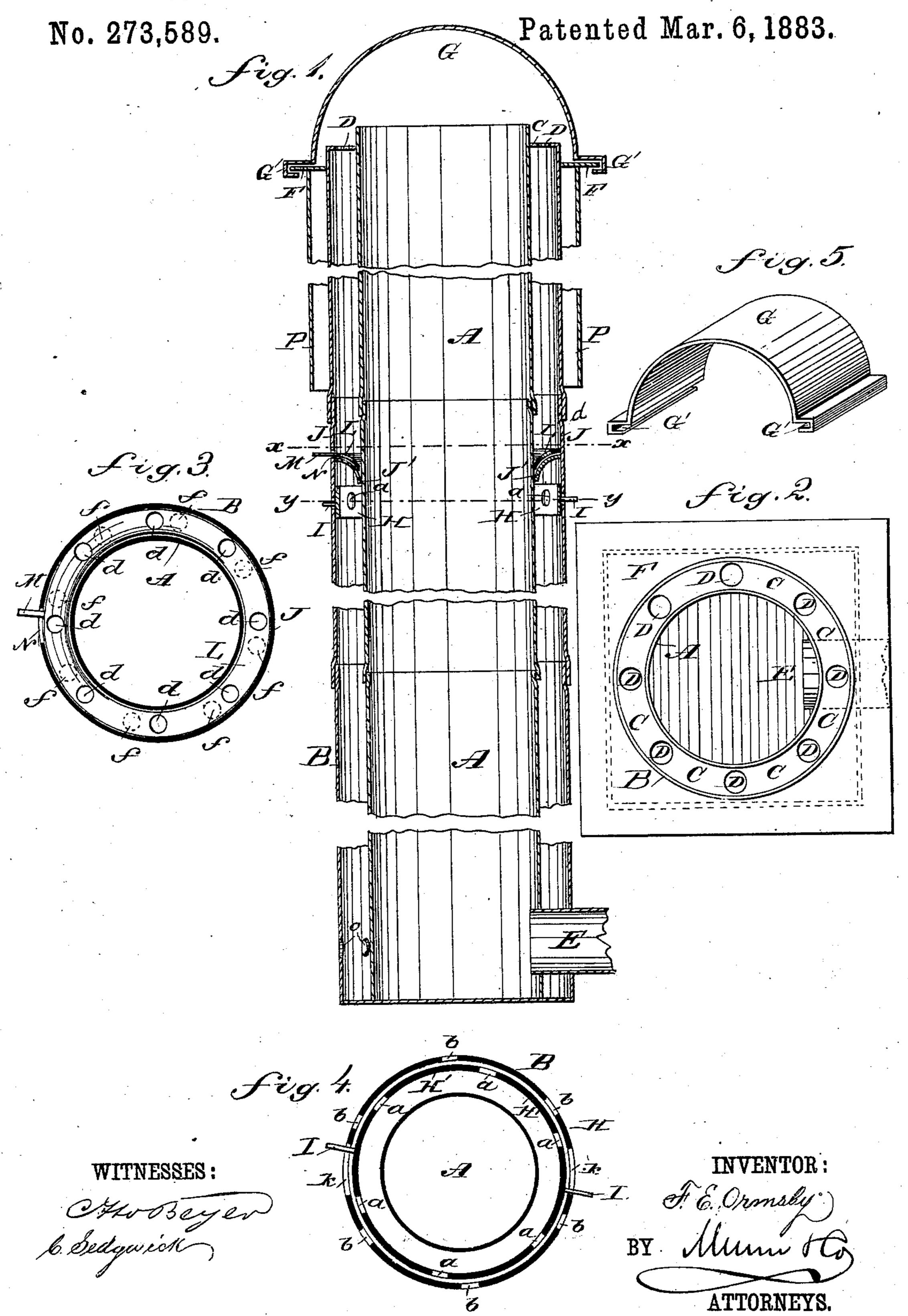
F. E. ORMSBY.

COMBINED CHIMNEY VENTILATOR AND HEATER.



United States Patent Office.

FRANK E. ORMSBY, OF NAUMBURG, NEW YORK.

COMBINED CHIMNEY-VENTILATOR AND HEATER.

SPECIFICATION forming part of Letters Patent No. 273,589, dated March 6, 1883.

Application filed September 16, 1882. (Model.)

To all whom it may concern:

Naumburg, in the county of Lewis and State of New York, have invented a new and Im-5 proved Combined Chimney - Ventilator and Heater, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved chimney ventilator which

to can be used as a heater.

The invention consists in a combined ventilator and heater formed of an inner and an outer pipe provided with a register for establishing communication between the room and 15 the air-space between the pipes, and a register for establishing communication between the upper and lower parts of the air-space between the pipes.

The invention also consists in parts and 20 combinations of the same, as will be fully de-

scribed and set forth hereinafter.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate

25 corresponding parts in all the figures.

Figure 1 is a longitudinal sectional elevation of my improved combined chimney-ventilator and heater. Fig. 2 is a plan view of the same, showing the cap removed. Fig. 3 30 is a sectional plan view of the same on the line x x, Fig. 1. Fig. 4 is a sectional plan view of the same on the line y y, Fig. 1. Fig. 5 is a perspective view of the cap.

The pipe A, which is closed at the bottom 35 and open at the top, is surrounded by a larger pipe, B, which also is closed at the bottom, and has an annular top, C, which is provided with a series of apertures, D. The smokepipe E enters the inner pipe, A, at the bot-40 tom, and passes through the annular space

between the two pipes.

A represents the chimney proper, and P the chimney top, secured to the pipe B by means

of the flange F at its upper end.

G represents a curved cap adapted to be placed over the chimney, and provided with | bent flanges G'at its lower ends, by means of which the cap may be removably secured to the flange F.

In that part of the ventilator within the room two registers, H and J, are formed. The register H consists of a ring, H', resting, free to turn, against the inner surface of the

outer pipe, B, and provided with a series of 55 apertures, a, which coincide with apertures b \

in the outer pipe, B. The ring H' is provided Be it known that I, FRANK E. ORMSBY, of | with handles I, projecting through horizontal slots K in the outer pipe. The register J is formed of a fixed ring, J', attached to the inner surface of the pipe B and to the outer surface 60 of the inner pipe, A, which ring preferably has a quadrant cross-section curved downward from the outer toward the inner pipe. On the fixed ring J' a sliding ring, L, rests, which is provided with a series of apertures, d, coin- 65 ciding with apertures f of the fixed ring J'. The ring L is provided with a handle, M. which projects through a longitudinal slot, N, in the outer pipe, B. When the register J is closed and the register Hopen, the ventilator 70 becomes a heater, the inner pipe heating the air which passes into the air-space between the pipes A and B through bottom apertures, o, and the heated air passes into the room through the openings of the lower register, H. 75 If the upper register, J, is opened, and the lower register, H, closed, the heated air passes upward and out of the top of the chimney. If both registers are opened, a perfect ventilator is formed, which carries off the air in the 80 room.

> The ventilator can be made of sheet-iron or any other suitable fire-proof material. The same can be made of any desired length until the cap projects above the chimney. The cap 85 prevents the wind from blowing down the pipes.

Having thus fully described my invention, I claim as new and desire to secure by Letters

Patent— 1. In a combined ventilator and heater, the combination, with the inner pipe, A, and the outer pipe, B, provided with the orifices o, of the smoke-pipe E and the registers H and J, substantially as herein shown and described, 95

and for the purpose set forth. 2. In a combined ventilator and heater, the combination, with inner pipe, A, and the outer pipe, B, having apertures o, of the ring H', provided with apertures a and handles I, roc the perforated ring J, extending across the air-space between the pipes A and B, and provided with opertures f, and the sliding plate L, provided with apertures d and with a handle, M, substantially as herein shown 10: and described, and for the purpose set forth.

FRANK E. ORMSBY. Witnesses:

CHARLES A. ORMSBY, ELVA E. EDDY.