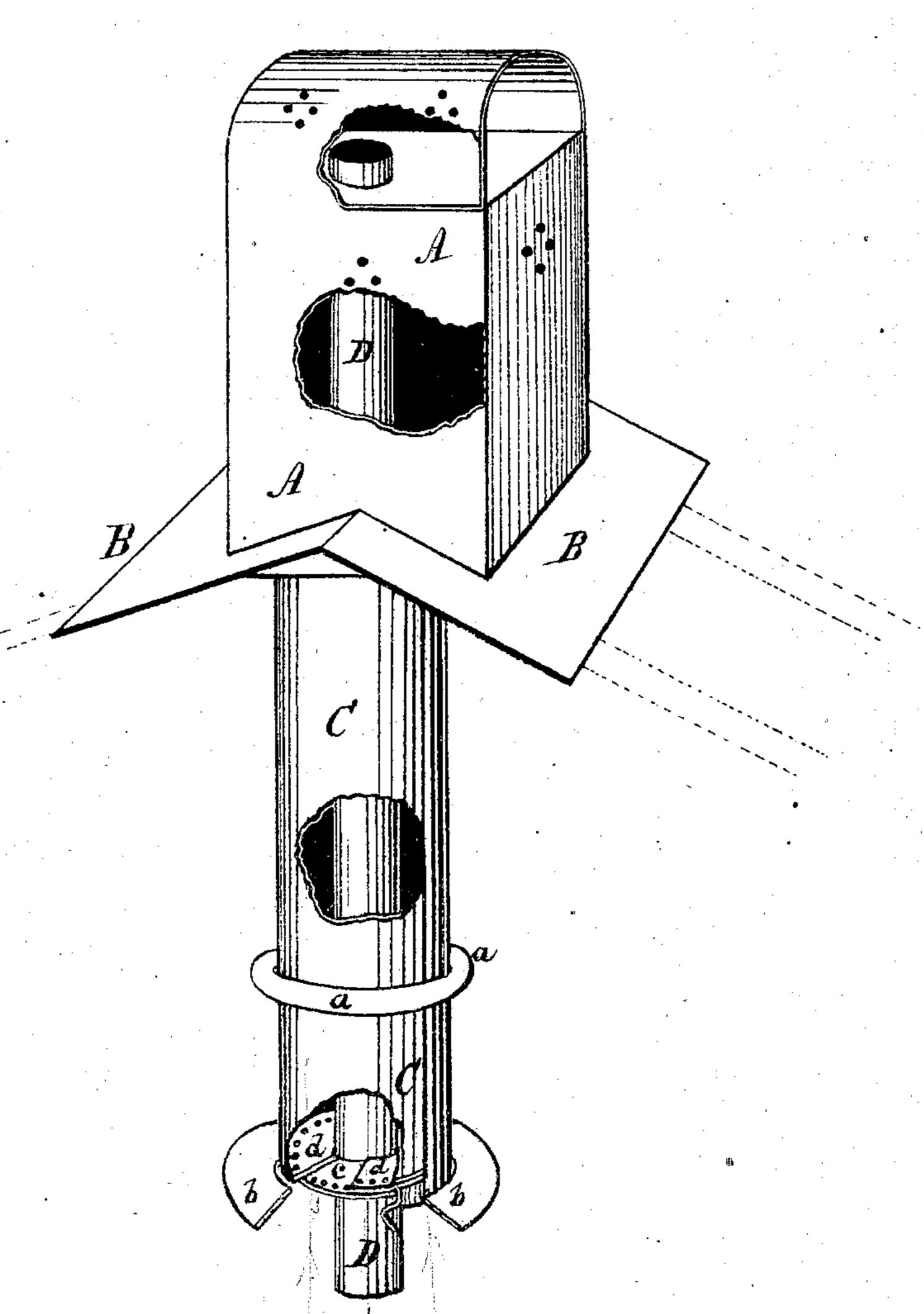
CHARLES H. BROWN'S

Portable Chirmey and Ventilator.

No. 120,031.

Patented Oct. 17, 1871.



M. E. Orweg.

mounter.

Thomas G. Orrig, Attorney,

UNITED STATES PATENT OFFICE.

CHARLES H. BROWN, OF ATLANTIC, IOWA.

IMPROVEMENT IN CHIMNEYS.

Specification forming part of Letters Patent No. 120,031, dated October 17, 1871.

To all whom it may concern:

Be it known that I, CHARLES H. BROWN, of Atlantic, in the county of Cass and State of Iowa, have invented an Improved Portable Chimney, of which the following is a specification:

My invention is a portable chimney and ventilator, made and combined in such a manner that it can be easily placed upon a building and used to conduct smoke from stoves and also ventilate the building at the same time. It consists in a metal top in the form of a chimney, with a metal cylinder attached to the bottom, and a register on the lower end of the cylinder, as hereinafter described.

The drawing is a perspective view with openings to show the forms and relative positions of

the different parts.

A A is the chimney, made of sheet metal. is of quadrilateral form, and arched over the top, with openings on two sides under the arch. The form and size may be varied as desired. A plate is inserted at the base of the arch which closes the top and supports the pipe that extends up through the center of the chimney. Holes in the sides admit the passage of air. B B is a metal guard that is secured to the chimney, and is shaped to conform with the angle of the roof of the building upon which it is to rest. It serves to support the chimney in its place on the roof, and also closes the roof tightly and conducts the rain from the chimney. CC is the hollow cylinder. It is made to fit tightly into the base of the chimney, and may be permanently fastened, if desired. It can vary in size, but must be larger than the pipe which is to pass through it in order to obtain an air-chamber all around the pipe. a a is a flange secured to the cylinder, and serves to support it on the floor and ceiling through which it extends. bb is a collar that fits around the cylinder on the under side of the floor or ceiling. $\,c\,$ is the bottom of the cylinder with holes in it around

the edge. d d is a movable plate with holes in it corresponding with the holes in the bottom of the cylinder. A handle is attached to this movble plate and extends through a slot in the cylinder in such a manner that the plate can be moved to register the holes and open and close them, as desired. By this means a current of air may be allowed to pass through the cylinder and chimney whenever desired, and a good ventilator is thus provided. A cord or wire may be attached to the handle of this register and passed over a pulley in such a manner that the register can be operated by pulling the cord or wire. D D is the stove-pipe which passes through the cylinder and chimney.

I am aware that I employ no new mechanism in the construction and operation of my chimney and ventilator. My object is to provide a ready-made portable chimney that will dispense with the expense and weight of brick and mortar chimneys, and to afford convenience and better protection. The air-chamber in my chimney and cylinder will prevent heat and fire from communicating with the floor and the roof, while at the same time it affords an excellent means of ventilation. I am also aware that chimneys have been made with an air-chamber around the inner pipe or flue, similar to mine; but I claim that my mode of forming and combining a portable chimney and ventilator and register is new and useful.

I claim—

The combination of the arched metal chimney A A, the guard B B, the cylinder C C, the pipe D D, and the register composed of the bottom c, the plate d d and its handle, in the manner described and for the purposes specified.

CHARLES H. BROWN.

Witnesses:

W. B. TEMPLE, GEO. M. ABEL.

(154)