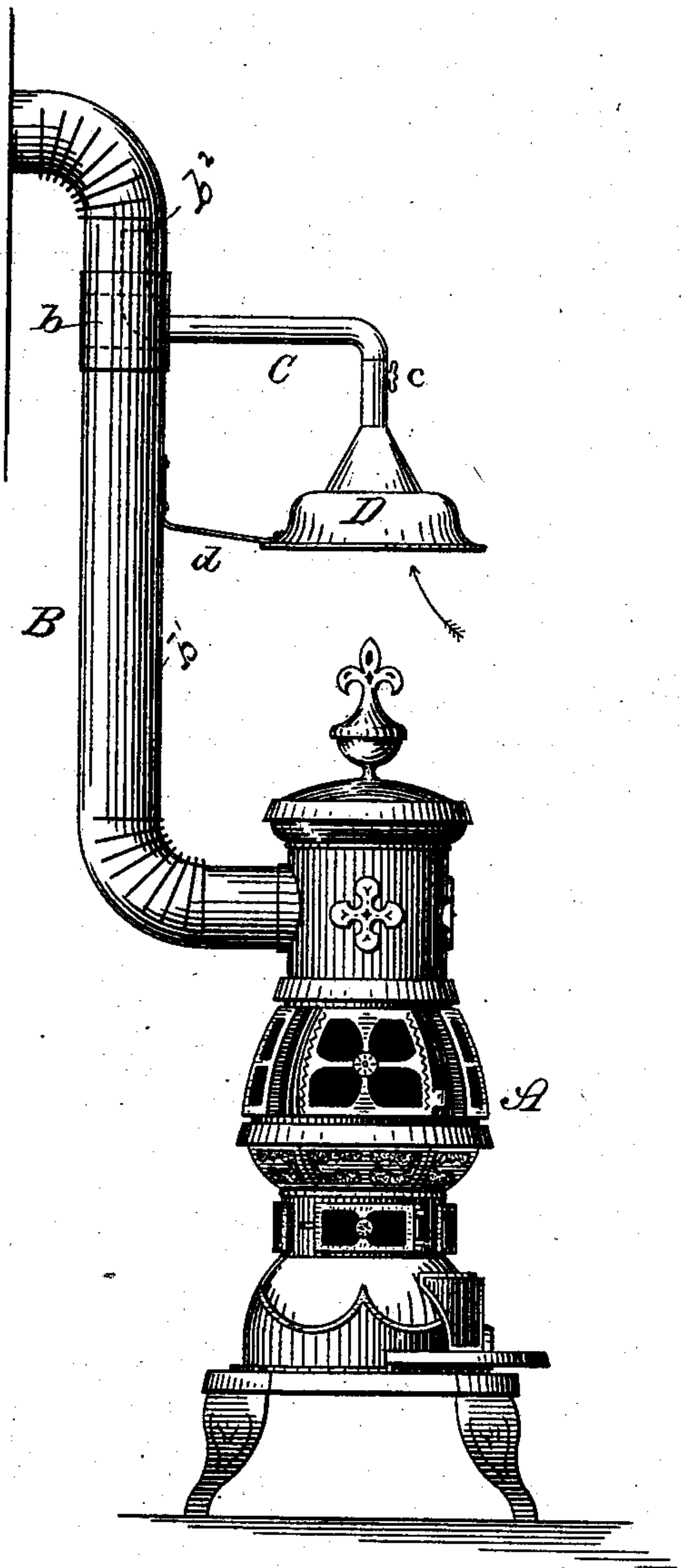


(No Model.)

T. J. HICKEY.
VENTILATOR.

No. 260,683.

Patented July 4, 1882.



Witnesses:

J. W. Garner?
W. S. D. Barnes

Inventor?
Thomas J. Hickey
by Howard A. Shaw
his Attorney

UNITED STATES PATENT OFFICE.

THOMAS J. HICKEY, OF RONDOUT, NEW YORK.

VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 260,683, dated July 4, 1882.

Application filed December 19, 1881. (No model.)

To all whom it may concern:

Be it known that I, THOMAS J. HICKEY, a citizen of the United States, residing at Rondout, in the county of Ulster and State of New York, have invented certain new and useful Improvements in Ventilating Devices, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to a new and improved article of manufacture in ventilating devices; and it consists in the construction and arrangement of its several parts, as will be hereinafter fully set forth, and pointed out in the claim.

In the drawing is shown a side elevation of a stove and pipe with my improved ventilator attached thereto, and in which A is the stove, and B the pipe. It is not necessary that either the stove or pipe be of special design in order to accommodate my ventilator, but may be of the various kinds generally used in houses.

In order to facilitate the description of the invention, I have lettered the upper portion of the stove-pipe b^2 and the lower portion b' , and have applied the letters b , C, c , D, and d to the different parts of the device.

My ventilator consists of a straight sleeve, b , of slightly larger diameter than the stove-pipe, to the curvature of which it conforms, and into the ends of which the sections b' b^2 are telescoped, as shown in the drawing. The sleeve b then becomes firmly united to and a part of the stove-pipe, and the smoke and gases have free access or passage through it. The sleeve differs in no respect from the stove-pipe, except that it is of slightly larger diameter and is much shorter than an ordinary pipe-section.

Projecting horizontally from the side of the sleeve through a suitable aperture is the pipe C. The portion of the pipe within the sleeve is curved upwardly, as shown in dotted lines in the drawing, and extends a short distance

above its upper edge in order to increase the draft through the pipe and to prevent the draft through the stove-pipe from being impaired. The outer portion extends to a point over the center of the stove, where it is bent downwardly and has secured to its lower end the bell-shaped nozzle D.

Arranged within the vertical outer portion of the pipe is a damper, c , by which the draft is regulated.

A brace, d , is attached to the rim of the nozzle, and extends and is attached to the stove-pipe. This brace is a necessary adjunct to the ventilator, in that it prevents the sleeve b from becoming displaced by the weight of the pipe C and nozzle D.

The operation of the ventilator will be readily understood by inspection of the drawing.

Among its advantages over the various kinds of ventilators in use are enumerated simplicity of construction and economy of manufacture, perfection of operation, and adaptability to all kinds of stoves.

What I claim is—

A new and improved article in manufacture in ventilators, consisting of a straight sleeve, b , of slightly larger diameter than the stove-pipe, and adapted to receive into its ends the sections of said stove-pipe, of a pipe, C, secured through said sleeve, the portion within being curved upwardly and projecting slightly above its top, the outer portion extending horizontally to a point over the center of the stove, bent downwardly, and provided with a damper, c , and having a nozzle, D, attached to its lower end, said nozzle having a brace, d , secured to its rim and attached to the stove-pipe, all arranged and combined to operate as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS J. HICKEY.

Witnesses:

JOHN W. WEBER,
ELVIN DEYO.