No. 763,476. PATENTED JUNE 28, 1904.

W. P. GARRISON.

STOVEPIPE VENTILATOR.

APPLICATION FILED MAR. 21, 1904.

NO MODEL.

Fig. 1.

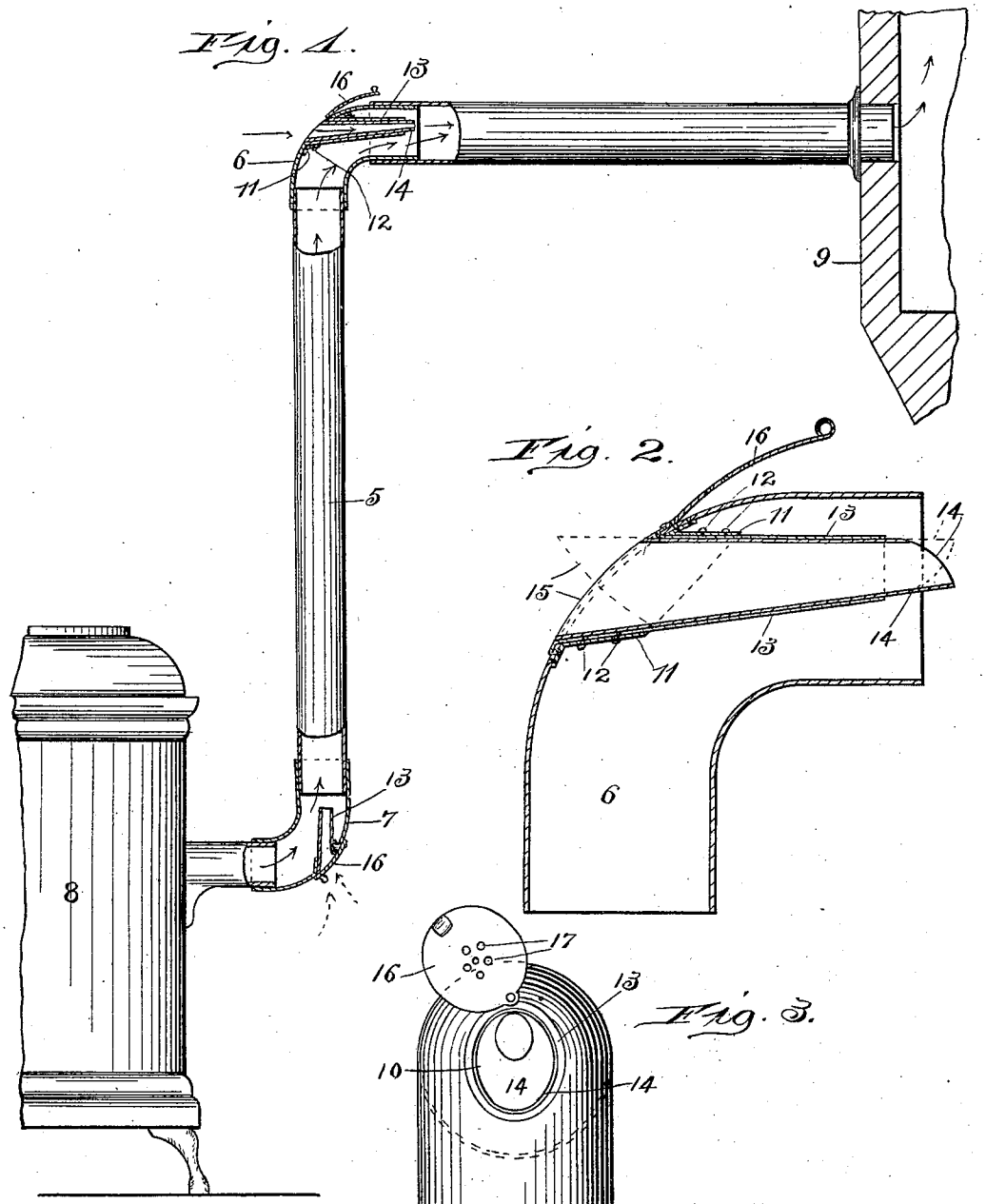

Fig. 2.

Fig. 3.

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No. 763,476. Patented June 28, 1904.

UNITED STATES PATENT OFFICE.

WILLIAM P. GARRISON, OF CHICAGO, ILLINOIS.

STOVEPIPE-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 763,476, dated June 28, 1904.

Application filed March 21, 1904. Serial No. 199,074. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. GARRISON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Ventilating Attachments for Stovepipes, of which the following is a specification.

This invention relates to improvements in means for augmenting and regulating the draft in stovepipes; and it consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The principal object of the invention is to provide an attachment of simple and inexpensive construction which may be readily applied to the elbow or elbows of stovepipes and which by reason of its peculiar construction and operation of its parts will prevent the accumulation of soot in the pipe and at the same time will augment or increase the draft therethrough, so as to cause more perfect combustion of the fuel.

Another object of the invention is to provide means for ventilation or for carrying off through the pipe the foul air or odors.

A still further object is to so construct the device that the air-draft may be regulated or shut off.

Other objects and advantages of the invention will be disclosed in the subjoined description and explanation.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe it, referring to the accompanying drawings, in which—

Figure 1 is a view, partly in elevation and partly in section, of a portion of a stove, showing a pipe with two elbows therein and communicating with a chimney or flue, the elbows of said pipe being provided with my improved attachment. Fig. 2 is an enlarged vertical sectional view of one of the elbows, showing the attachment therein and illustrating by dotted lines the position to which the inner tube may be turned so as to increase the draft; and Fig. 3 is a face view in elevation of said elbow, showing the ventilating attachment open.

Like numerals of reference refer to corresponding parts throughout the different views of the drawings.

In the present instance I have shown a stovepipe 5 which is provided with upper and lower elbows 6 and 7, respectively. The lower end of the pipe is shown as communicating with a stove 8, which may be of the ordinary or any preferred construction, and the upper end of the pipe is illustrated as communicating with a chimney or flue 9, but which may be a wall through which the upper end of the pipe discharges. The face or front of the elbow 6 is provided with an opening 10, which has an inwardly and horizontally extending annular flange 11, to which is secured, by means of rivets 12, an inwardly-tapered tube 13, the inner end of which extends to near the discharging end of the elbow. Detachably fitted in the tube 13 is another tube, 14, which is also tapered and of a size to fit snugly in the fixed tube 13, or first-named tube. The outer end of the detachable or adjustable tube 14 is beveled or cut away, as shown by dotted lines at 15 in Fig. 2, so that when it lies in its normal position or the reverse position from that shown by dotted lines in Fig. 2 a door 16, which is pivotally secured to the elbow, may be placed so as to close the opening 10 in the elbow, as well as the inlet-openings of said tubes. This door is preferably provided with a number of perforations 17 to admit a small quantity of air when the door is closed. As shown in Figs. 1 and 2 of the drawings, the adjustable or detachable tube 14 projects somewhat through the inner end of the fixed tube 13 and when in place in said tube will increase the air-draft by reason of its elongated and tapered form. By turning the tube 14 so that its longer portion will rest at the top of the tube 13, as shown by dotted lines in Fig. 2, it is evident that the conduit composed of the two tubes 13 and 14 will be materially lengthened and the air-draft increased.

While it is usually sufficient to apply my attachment to one of the elbows only of a stovepipe, yet I may sometimes provide the

other elbow with an attachment of the above-described construction and operation or may simply use the fixed tapered tube 13, as shown in the lower elbow illustrated in Fig. 1 of the drawings. When thus employed, the lower elbow is provided with a pivoted door 16 of the same construction as shown in Figs. 1 and 2 and used for the same purpose. It is also apparent that where one elbow only is employed I may use the fixed tapered tube 13, which may extend horizontally in the elbow or vertically therein, without departing from the spirit of my invention.

From the foregoing and by reference to the drawings it will be clearly seen and readily understood that when both elbows 6 and 7 of the pipe are equipped with my improved attachment the doors 16 may be turned on their pivots to open or partially open the inlet-openings of the tubes, when a fresh supply of oxygen will be admitted through the lower attachment and a supply of air admitted through the upper one, which will increase the drafts to such an extent as to prevent the accumulation of soot, and the freshly-supplied oxygen will facilitate the combustion of the fuel. If an increased draft over that afforded when the doors 16 are wide open is desired, the adjustable tube 14 may be turned to the position shown by dotted lines in Fig. 2, which, as before stated, will lengthen the conduit in the upper elbow and, as is obvious, will increase the draft.

It is evident that the detachable or adjustable tube 14 may be employed in the lower elbow as well as the upper one, or it may be omitted from the upper one and employed in the lower one.

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

The combination with a stovepipe-elbow, of a tubular extension fixed therein, a tapered tube movably located in said extension and extending at its inner end beyond the inner end of the fixed extension and having its front end beveled, and means to close the inlet-openings of said extension and tube, substantially as described.

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