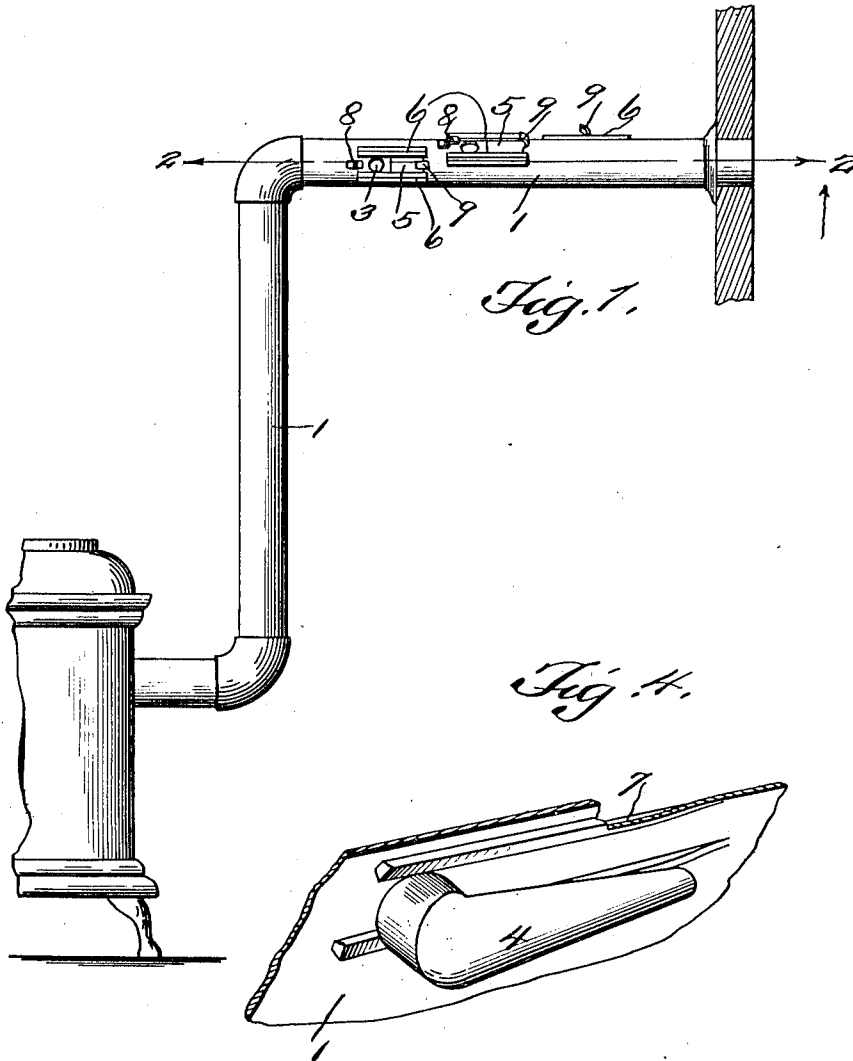


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J. W. WILLIAMS.
STOVEPIPE VENTILATOR.
APPLICATION FILED JUNE 6, 1911.

Patented Mar. 19, 1912.

2 SHEETS—SHEET 1.



Witnesses

Francis T. Brewster.
R. C. C.

Inventor

John W. Williams,

By

D. Swift & C.

Attorney

1,020,590.

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2 SHEETS—SHEET 2.

Fig. 2.

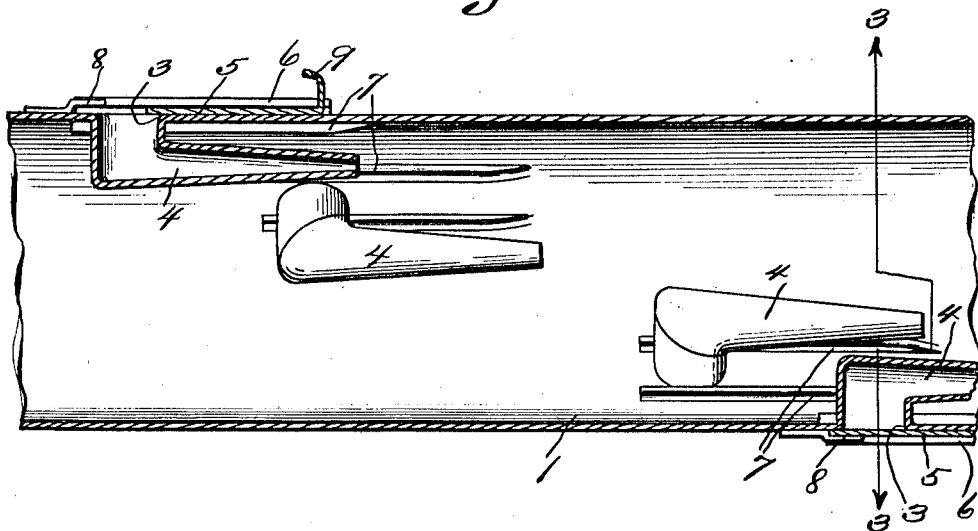
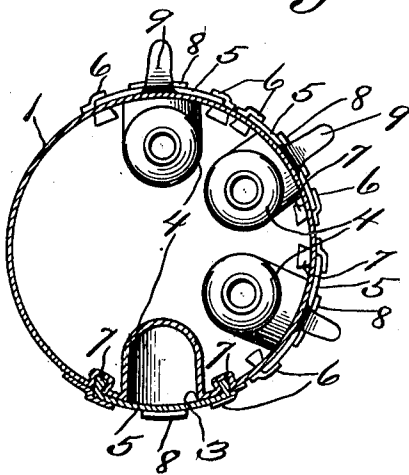


Fig. 3.



Witnesses

Francis G. Powell
R. Lee

Inventor

John W. Williams,

By *D. Swift & Co.*

Attorney

UNITED STATES PATENT OFFICE.

JOHN W. WILLIAMS, OF MONMOUTH, ILLINOIS.

STOVEPIPE-VENTILATOR.

1,020,590.

Specification of Letters Patent.

Patented Mar. 19, 1912.

Application filed June 6, 1911. Serial No. 631,629.

To all whom it may concern:

Be it known that I, JOHN W. WILLIAMS, a citizen of the United States, residing at Monmouth, in the county of Warren and State of Illinois, have invented a new and useful Stovepipe-Ventilator; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and useful stove pipe ventilator.

The invention in its broadest scope aims as its primary object to provide a device of this nature, for increasing the draft through a stove pipe, and to effect the ventilation of a room by conducting heated vitiated air into the stove pipe, from which it passes to the outdoor atmosphere. To increase or decrease and to effect the ventilation, the stove pipe is provided with a plurality of slide dampers. by opening them, the foul air may be conducted from the room through the stove pipe, and by closing the dampers, a thorough draft for the stove may be effected. By opening a portion of the dampers, the draft may be decreased, and at the same time a smaller amount of the foul air may be conducted from the room.

This device may be located in any room of a building, whether a sick room, a basement room or factory room, where there is foul or dusty air. The dampers coöperate with openings in the stove pipe, from which elbow conical tubes extend. The tubes extend along the length of the stove pipe and in a direction from the stove. By this arrangement the draft or the products of combustion from the stove passing through the pipe draws the foul air through the tubes.

This device may be applied to a pipe leading from a furnace. For instance, the pipe leading from the furnace may pass through one or several rooms, and at the point where the pipe passes through the rooms the damper controlled openings may be arranged.

In the drawings, there is disclosed only one form of the present invention, but in practical fields this form may require alterations, to which the applicant is entitled, provided the alterations are comprehended within the scope of what is claimed.

The invention comprises further features

and combination of parts, as hereinafter set forth, shown in the drawings, and claimed.

In the drawings:—Figure 1 is a view in side elevation, showing a stove pipe constructed in accordance with the invention. Fig. 2 is a longitudinal sectional view through the stove pipe. Fig. 3 is a transverse sectional view. Fig. 4 is a perspective view of a fragmentary section of the stove pipe, showing one of the conical shaped elbows.

Referring to the drawings 1 designates the usual form of stove pipe, which may be of any desired shape and size. The stove pipe, in the present instance, leads from the stove upwardly to the upper portion of a room, and thence outwardly of the building to the atmosphere, or it may pass through several other rooms (not shown). The stove pipe is provided with a plurality of openings 3, from which and through a portion of the stove pipe the elbows 4 extend. These elbows are tapering in contour, and extend for a short distance with the length of the stove pipe, so that the draft through the stove pipe causes a suction in the elbow, thereby drawing the foul air from the room. The openings 3 are controlled by the dampers 5, which are mounted in the main guides 6. The dampers 5 also have dovetailed tongue and groove connections 7 with the stove pipe, thus reinforcing the dampers when being moved in the main guide. The dampers are limited in one direction by the angular clips 8, as shown in the drawings. To operate the dampers, the same are provided with laterally extending finger pieces 9. The dampers may be arranged completely or partially open or closed, and are held in such positions by means of friction. When the dampers are completely closed, a thorough draft may be effected through the stove pipe and when they are fully or partially opened, the draft is decreased, and a full or partial ventilation of the room is effected.

From the foregoing it will be observed that there has been devised a simple, novel and inexpensive stove pipe ventilator, and one which has been found, through use, to be practicable in every way.

The invention having been set forth, what is claimed as new and useful is:—

In combination, a stove pipe having a plurality of ventilating openings, a plurality of conical shaped elbows extending from the openings and arranged in a plane substan-

tially parallel with the side of the stove pipe
and upon the interior, dampers for con-
trolling the openings, guides for the
dampers, clips for limiting the dampers in
5 their movements in one direction, and dove-
tailed tongue and groove connections be-
tween the dampers and the stove pipe for
reinforcing the dampers with regard to the
stove pipe.

In testimony whereof I have signed my 10
name to this specification in the presence of
two subscribing witnesses.

JOHN W. ^{his} × WILLIAMS.
mark

Witnesses:

MABEL A. SYKES,
ETHEL CALL.