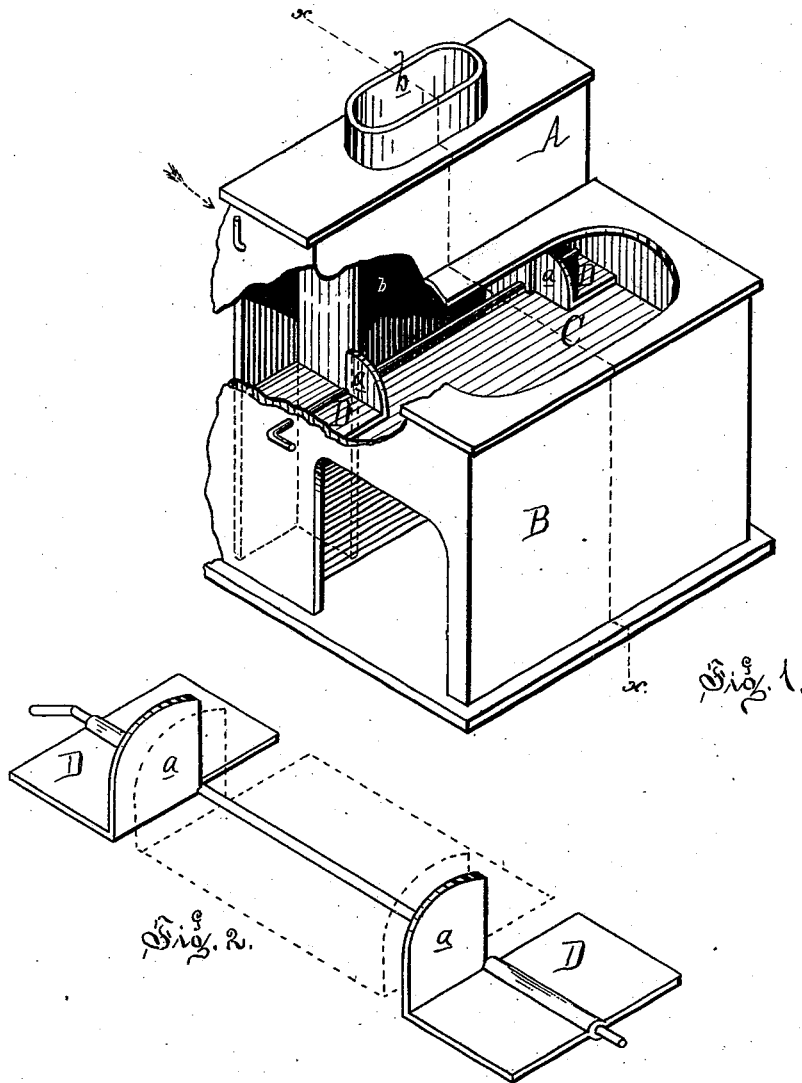


G. W. HERRICK.  
Stove-Damper and Flue-Strip.

No. 197,632.

Patented Nov. 27, 1877.



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H. L. Aulls,  
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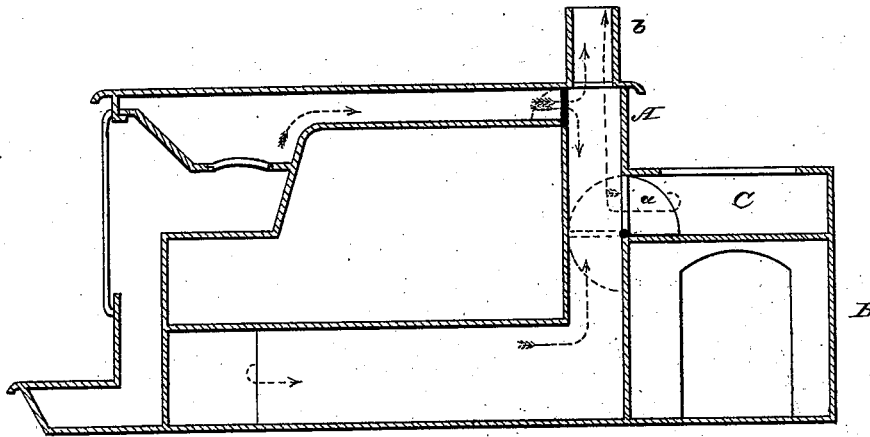
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By atty  
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*Fig. 3.*



*Attest:*  
*R. A. Dyer*  
*L. M. Miller*

*Inventor:*  
*Geo. W. Herrick*  
*by Geo. W. Herrick*  
*att'y*

# UNITED STATES PATENT OFFICE.

GEORGE W. HERRICK, OF DETROIT, MICHIGAN, ASSIGNOR TO MICHIGAN  
STOVE COMPANY, OF SAME PLACE.

## IMPROVEMENT IN STOVE-DAMPER AND FLUE-STRIP.

Specification forming part of Letters Patent No. **197,632**, dated November 27, 1877; application filed  
July 30, 1877.

*To all whom it may concern:*

Be it known that I, GEORGE W. HERRICK, of Detroit, in the county of Wayne and State of Michigan, have invented an Improvement in Stove-Damper and Flue-Strip Combined, of which the following is a specification:

The nature of my invention relates to an improvement in the construction of combined stove-dampers and flue-strips; and it consists in the employment of double-winged dampers, provided with wings or flanges, which operate as flue-strips, and place under perfect control the passage of the products of combustion to the exit, and in such manner that they may be compelled to pass under the reservoir situated at the back of the stove, or under the oven, as may be desired, all of which is more fully hereinafter set forth.

Figure 1 is a perspective view of the rear part of a cooking-stove, showing the back flues, warming-closet, place for water-reservoir, and my improved arrangement of the dampers and flue-strips, with a portion broken away. Fig. 2 is a detached perspective view of my improved dampers and flue-strips, and also showing a modification of the same in dotted outline. Fig. 3 is a section through a three-flue cooking-stove, with my damper and flue-strip in position, the rear part of the stove and the warming-closet being cut on the dotted line in Fig. 1.

Like letters denote corresponding parts.

In the drawing, A represents a portion of the rear and main part of a cook-stove, with a warming-closet, B, on the rear, above which is the flue-space C, provided with a suitable opening for the reception of a water-reservoir, or other vessel or vessels. Upon the top of the top plate of the warming-closet it has been usual to cast or otherwise secure flue-strips, coincident with the flues, so that when the products of combustion were sent under the

reservoir they would be carried under the bottom, and not pass directly to the exit.

D D are double-winged dampers, by which the side flues are opened or closed at will, and to them are cast or otherwise secured the flanges or wings *a a*, so arranged that when the heat is diverted under the bottom of the reservoir or other vessel they will perform the functions of flue-strips, and direct the heat backward and under the reservoir before it passes to the exit *b*.

By this arrangement all the products of combustion can be compelled to pass directly under the reservoir or other vessel upon that part of the stove, and thence to the exit, or they may be compelled to pass down and under the oven at will.

Thus it will be seen that the operation of the dampers D entirely control the passage of the products of combustion directly and separately to either the reservoir or the oven, as may be desired.

The same end can be accomplished by omitting the dampers and flue-strips arranged to operate in connection with the side flues; but, in lieu thereof, they should be arranged to operate in connection with the central flue, as shown in dotted lines in Fig. 2. While this latter arrangement would virtually perform the same functions, it would not be as effectual in its operation and control of the products of combustion, as I have found by practical tests and experiments.

What I claim as my invention is—

The combined damper and flue-strip D D *a a*, constructed and arranged substantially as and for the purposes described.

GEORGE W. HERRICK.

Witnesses:

H. S. SPRAGUE,  
H. L. AULLS.