

L. CARR.  
STOVE.

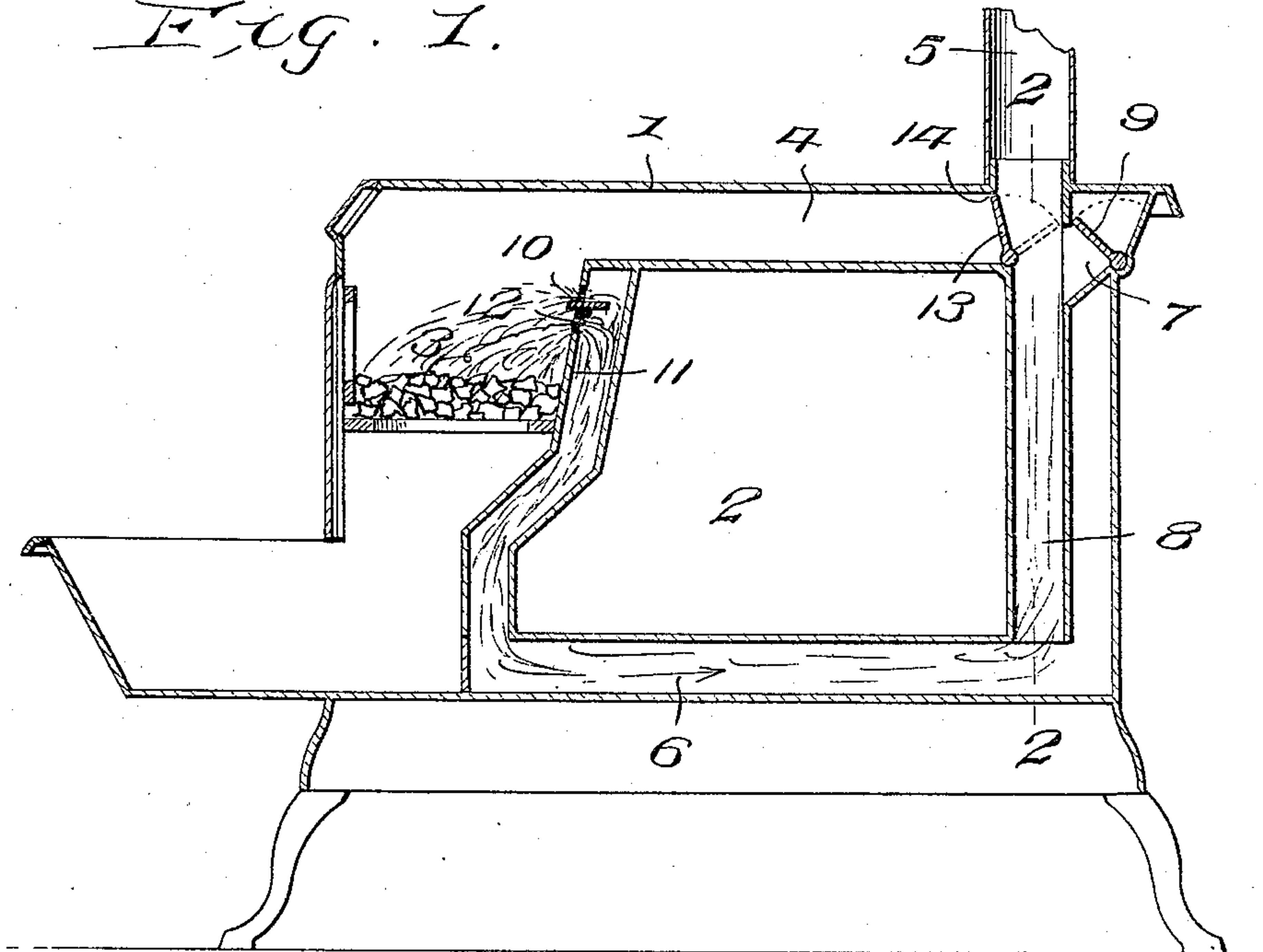
APPLICATION FILED OCT. 26, 1907.

908,203.

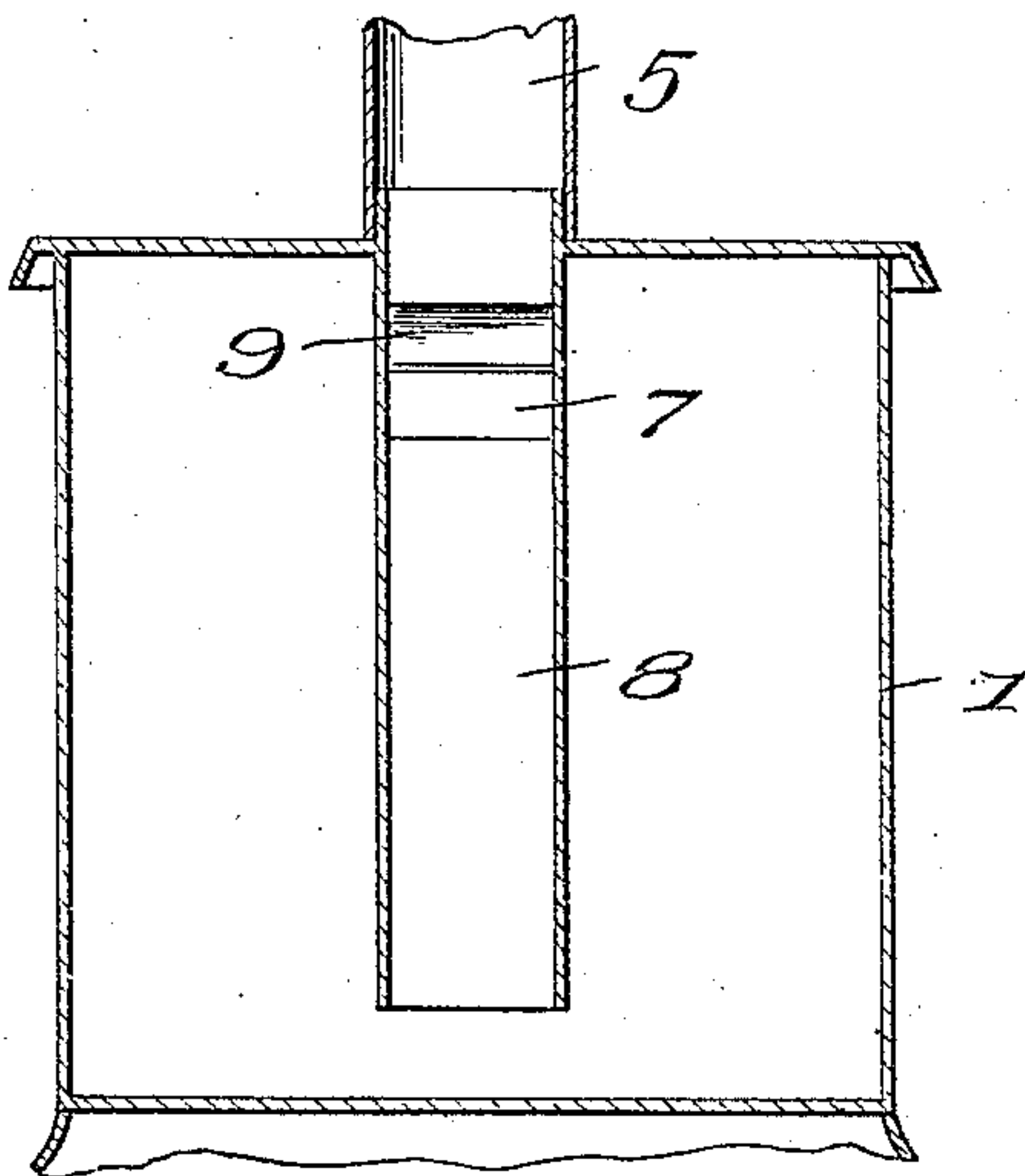
Patented Dec. 29, 1908.

2 SHEETS—SHEET 1.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

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2 SHEETS—SHEET 2.

Fig. 3.

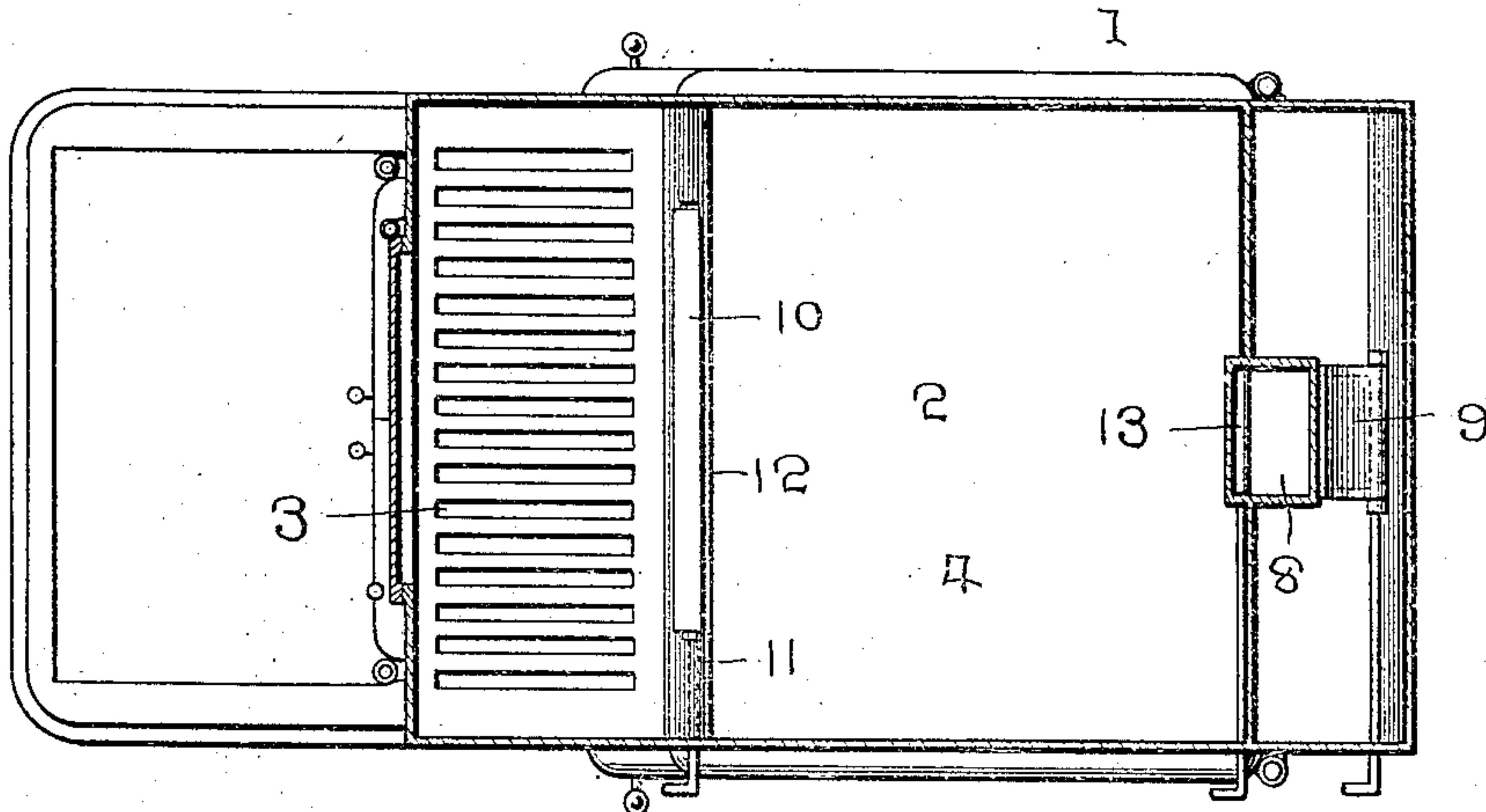
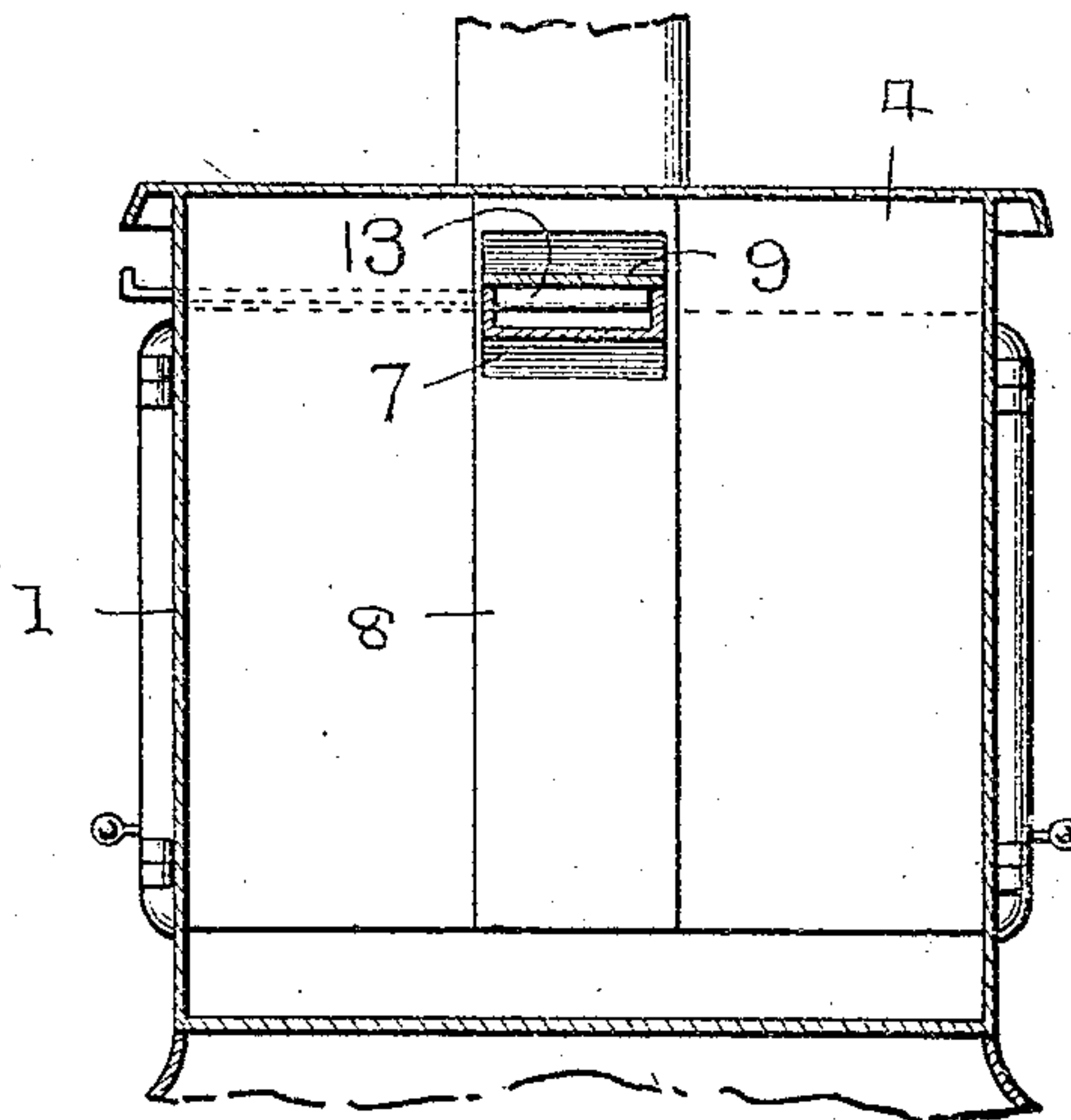


Fig. 4.



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# UNITED STATES PATENT OFFICE.

LAURENCE CARR, OF LOS ANGELES, CALIFORNIA.

## STOVE.

No. 908,203.

Specification of Letters Patent.

Patented Dec. 29, 1908.

Application filed October 26, 1907. Serial No. 399,333.

*To all whom it may concern:*

Be it known that I, LAURENCE CARR, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Stoves; 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.

My invention relates to new and useful improvements in stoves and more particularly to that class adapted to be used for cooking purposes and my object is to provide means for conveying the products of combustion from the fire box in a direct line to the flue of the stove or around the oven of the stove, whereby the temperature of the oven may be readily increased or decreased, and a further object is to provide means for readily controlling the movements of the products of combustion.

Other objects and advantages will be hereinafter referred to and more particularly pointed out in the claim.

In the accompanying drawings which are made a part of this application, Figure 1 is a central, longitudinal sectional view through my improved form of stove, Fig. 2 is a sectional view as seen on line 2—2, Fig. 1. Fig. 3 is a horizontal sectional view through the upper portion of the stove at a point above the oven in the stove, and, Fig. 4 is a vertical sectional view through the rear end of the stove between the rear wall of the stove and the duct at the rear of the oven.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates a stove, which may be of the usual or any preferred construction and more particularly to that class adapted to be used for cooking purposes, said stove being provided with an oven 2, while at one end of the oven is a fire box 3.

A chamber 4 is formed between the oven 2 and top of the stove, through which the products of combustion from the fire box may travel on its passage to the flue 5 at the rear of the stove and in order to convey the heat from the fire box around the oven to increase the temperature in the oven, a compartment 6 is formed at each end and below the oven, said compartment extending downwardly from the upper edge of the rear wall

of the fire box, below the oven 2 and upwardly in the rear of the oven to the top portion of the stove, from whence the products of combustion may escape through a port 7, adjacent the top of the stove or through a duct 8, extending downwardly from the flue 5 to the lower edge of the oven 2 and when the products of combustion are to pass through the duct directly into the flue, the port 7 is closed by means of a damper 9, the products of combustion being directed into the compartment 6 by means of a damper 10, placed in the rear wall 11 of the fire box 3, said damper being a sufficient distance above the bottom of the fire box to prevent ashes, or the like, from passing through the port 12, in which the damper 10 is located.

When the products of combustion are to be directed through the compartment 6, a damper 13 is swung into position to close the passage 14, between the chamber 4 and the flue 5, thereby preventing the products of combustion from entering directly into the flue and causing the same to travel around the oven through the compartment 6 and into the flue through the duct 8 or the port 7, thereby thoroughly heating the oven and increasing the temperature thereof.

When the damper 9 is closed, the products of combustion enter directly into the duct 8 at its lower end, thereby conveying the heat directly from that portion of the compartment immediately below the oven to the flue and thus reducing to a degree, the heating qualities of the products of combustion but, when the damper 9 is open, a portion of the products of combustion, will pass to the upper end of the compartment 6 in the rear of the oven and through the port 7, thereby increasing the temperature of the oven.

When the products of combustion are conveyed directly from the fire box to the flue 5 through the chamber 4, the damper 10 is closed while the damper 13 is swung rearwardly and over the upper end of the duct 8, thereby opening the passage 14 and closing said duct, in which event the products of combustion will pass directly into the flue and greatly reduce the temperature in the oven.

It will thus be seen that I have provided a very cheap and economical form of device for conveying the products of combustion from the fire box directly into the flue 5, or around the oven 2 and by locating a damper



in the rear wall of the fire box, the products of combustion are conveyed into the compartment surrounding the oven before the heating qualities thereof have deteriorated.

5 What I claim is:

A stove of the class described, having a fire box at one end, a flue adjacent to the opposite end thereof, an oven in the rear of the fire box, said oven being spaced from  
10 the top of the stove to form a chamber, said chamber communicating at its forward end with the fire box and extending to the flue and a damper between said chamber and flue, whereby the passage of the products of  
15 combustion from the fire box to the flue may be controlled; said oven being also spaced from the fire box and from the bottom and rear end of stove, forming a compartment  
20 extending from said fire box and below the oven and upwardly at the opposite end of the stove to the flue, said fire box having a

port in its rear wall communicating with said compartment, a damper in said port, a duct at the rear of said oven extending from the lower edge thereof to the flue, said duct 25 being in communication with the flue and of less width than the width of the oven and being of less depth than the depth of the compartment, said duct having a port adjacent the top of the stove, a damper adapted to 30 close said port, the damper between the chamber and flue being adapted to close the upper end of the duct when the products of combustion are passed direct from the fire box to the flue. 35

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

LAURENCE CARR.

Witnesses:

MARK S. ARMSTRONG,

JOHN H. SOMERS.