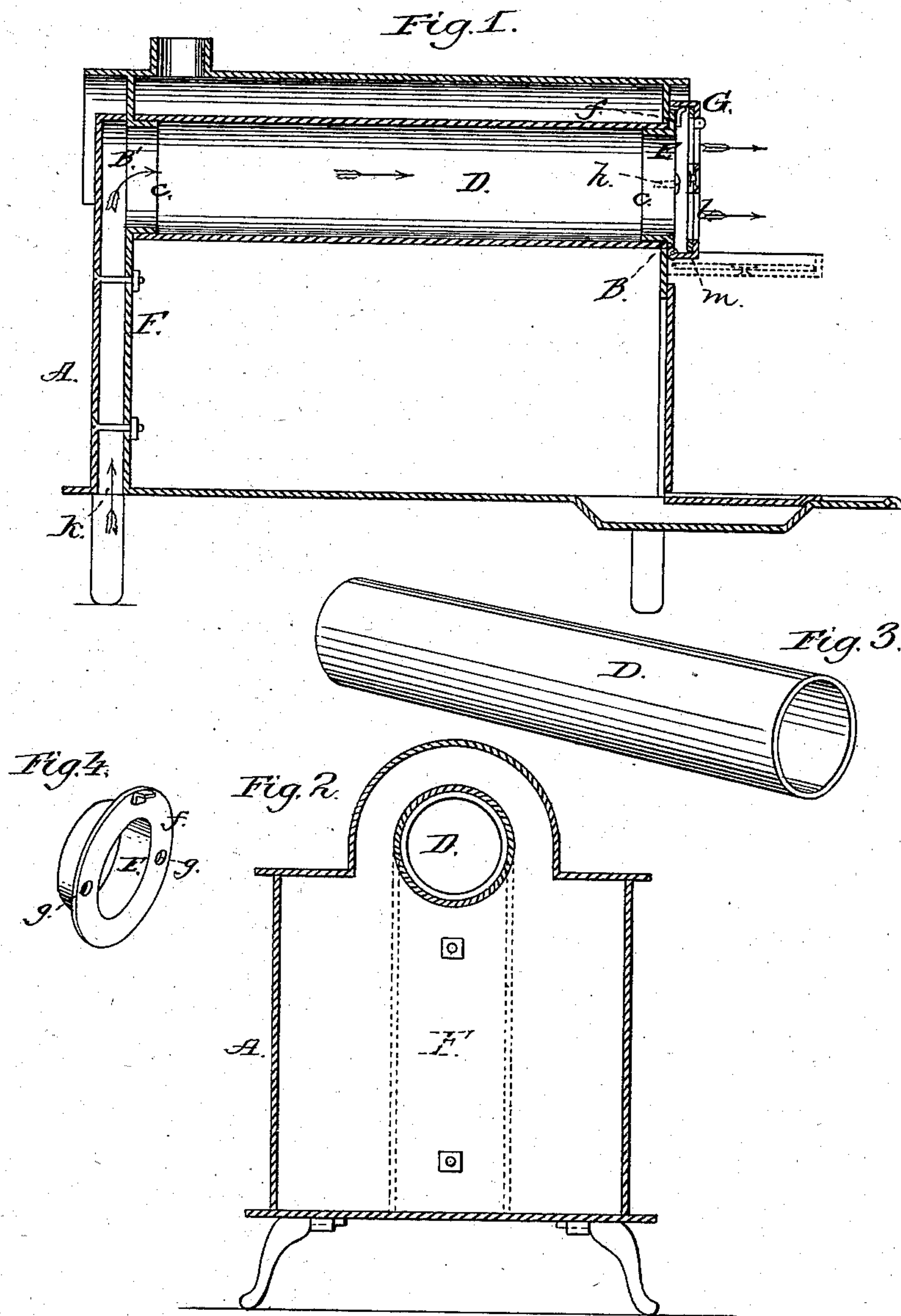


(No Model.)

J. STRASZER.  
HEATING STOVE.

No. 254,783.

Patented Mar. 7, 1882.



WITNESSES

*Willet Anderson.*  
*Philip C. Masi.*

INVENTOR

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his ATTORNEYS

# UNITED STATES PATENT OFFICE.

JOHN STRASZER, OF MANCHESTER, MISSOURI, ASSIGNOR OF ONE-HALF TO  
GEORGE STRASZER, OF SAME PLACE.

## HEATING-STOVE.

SPECIFICATION forming part of Letters Patent No. 254,783, dated March 7, 1882.

Application filed January 7, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN STRASZER, a citizen of the United States, resident of Manchester, in the county of St. Louis and State of Missouri, have invented a new and valuable Improvement in Stoves; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of longitudinal section of my invention. Fig. 2 is a cross-section, and Figs. 3 and 4 are detail perspective views.

This invention has relation to hot-air stoves; and it consists in the construction and novel arrangement of the horizontal hot-air flue in the upper part of the stove, the hollow plate at the back of the stove forming an up-draft flue for cold air, and communicating by an opening at the back of the stove with the horizontal flue, the rear and front flange-bearings for the latter flue, and the front register-door having a bottom hinge and stop-shoulder, all as hereinafter set forth, and especially pointed out in the claims appended.

In the accompanying drawings, the letter A designates the wall of an ordinary box-stove having my invention applied thereto.

B B' indicate openings made in the upper part of the front and rear walls of the stove, said openings being preferably of circular form and provided with annular interior flanges or rim-bearings *c*, for the ends of the horizontal flue, D, into which they are inserted. The front flange or rim-bearing *c* is designed to be formed on a collar, E, having an exterior or face flange, *f*, provided with holes *g*, through which the fastening-bolts *h* are passed. This collar is therefore removable, as is also the cylindrical flue D, which is usually made of sheet-iron and can be easily replaced when too much burned for service.

At the back of the stove, in rear of the rear opening, B', is the up-draft flue-plate F, which

extends to the bottom of the stove and is provided with an inlet-opening, *k*, at its lower end. This flue receives cold air from the lower part of the room and guides it into the horizontal flue D through the opening B'. In this flue it is heated and emitted through the front opening, B, or through the register-openings *l*, in the door G thereof. This door is hinged by its lower horizontal border to the stove-wall below the opening B, and it is provided with a bearing-shoulder, *m*, at right angles with its face and in front of the hinge, so that when it is dropped from the opening on its hinge it will be stopped in the horizontal position, and will form a very convenient shelf or ledge on which articles may be placed to receive the warm air which is emitted from the opening B.

It will be apparent that in this construction the horizontal flue D is the main heater for the air passing through the stove, and that its action is greatest in the rear part, where it is subject to the greatest heat, the front portion of the stove being comparatively cool. This flue therefore draws the air rapidly up through the vertical rear flue, F, and discharges it warmed through the front opening.

By means of the register in the door G the discharge of hot air may be regulated, or it may be shut off entirely.

The devices described hereinbefore can be easily applied to larger stoves or heating-furnaces.

A horizontal hot-air flue in the upper portion of the stove communicating with an up-draft flue in the rear portion of the stove and a register-door in the front of the hot-air flue is not new, and is not broadly claimed herein-after.

Having described this invention, what I claim and desire to secure by Letters Patent, is—

1. In a heating stove or furnace, the wall-openings B B' in the upper portion, the up-draft-flue plate extending from the rear opening, B', to the bottom of the stove, the rim-bearings *c*, the removable front collar, E, and



the removable horizontal hot-air flue D, having its ends seated on said rim-bearing, substantially as specified.

2. In a heating-stove, the combination, with  
5 the horizontal flue D and its front opening, B, of the register-door G, having a hinge at its lower edge, and a stop-shoulder, *m*, whereby it forms a shelf below said opening, substantially as specified.

In testimony that I claim the above I have  
hereunto subscribed my name in the presence  
of two witnesses.

JOHN STRASZER.

Witnesses:

JACOB S. GATES,  
WM. E. HANNA.