J. JEWETT.
Cooking-Stove.

No. 212,472. Patented Feb. 18, 1879.

Fig. 1.

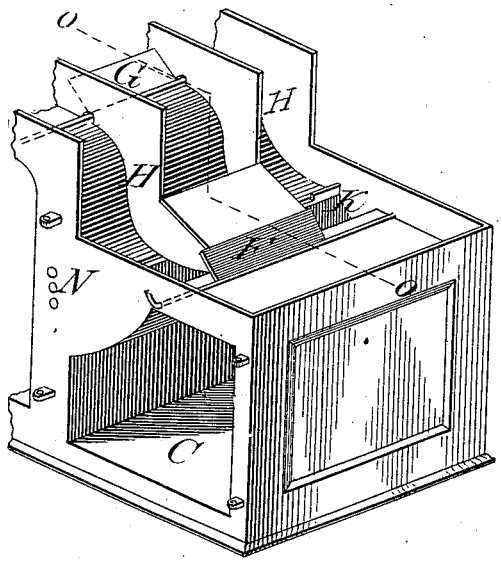


Fig. 2.

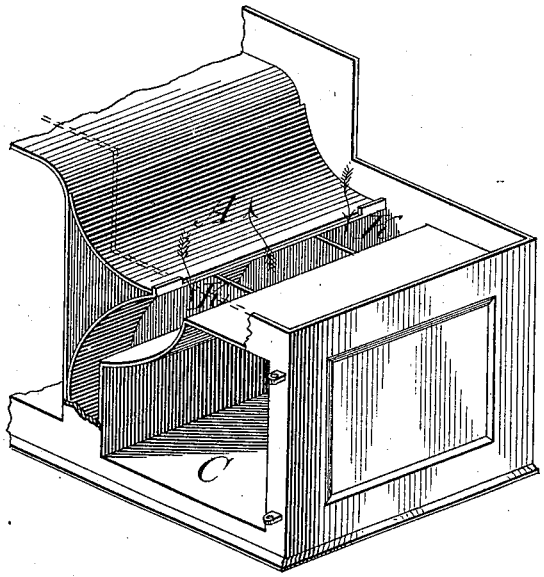
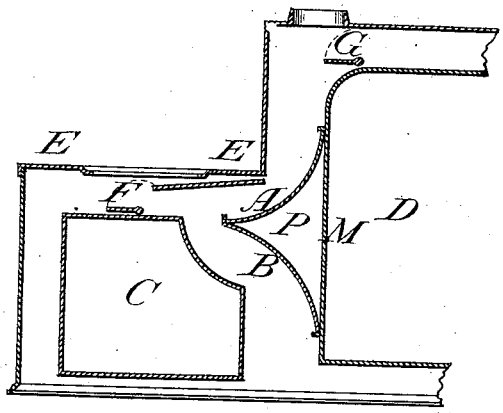


Fig. 3.



Attest:

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UNITED STATES PATENT OFFICE.

JOSIAH JEWETT, OF BUFFALO, NEW YORK, ASSIGNOR TO SHERMAN S. JEWETT & CO., OF SAME PLACE.

IMPROVEMENT IN COOKING-STOVES.

Specification forming part of Letters Patent No. **212,472**, dated February 18, 1879; application filed November 22, 1878.

To all whom it may concern:

Be it known that I, JOSIAH JEWETT, of the city of Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Cooking-Stoves, of which the following is a specification:

The object of my invention is to provide the rear flue or flues of a cooking-stove with a deflecting plate or plates which shall serve the double purpose of affording a greater amount of heat to the rear warming-oven, and at the same time affording the necessary intensity of heat for the purpose of heating water in what are known as "reservoir cooking-stoves."

The invention consists in the arrangement of a plate or plates, which may be made in a (and for which for obvious reasons I choose the) curved shape, as shown in the drawings.

It is a matter of general complaint against the class of stoves known as "reservoir-stoves" that during the process of baking the object for which the reservoir is provided—namely, that of heating water—has to be abandoned, except in the class of stoves known as the "Crowning Glory," the peculiar construction of the rear flues of which I have secured by Letters Patent, and in conjunction with which my present improvement may be used.

By the use of the lower curved flue-plate a larger surface of the warming-oven is exposed to the heat, making it in fact what it has only possessed in name in stoves as ordinarily constructed.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is a perspective of a sufficient portion of a cooking-stove to illustrate my invention, the top of the stove being thrown aside to give a view of the flue-strips and dampers. Fig. 2 is a perspective of the same portion of a cooking-stove, with the upper flue-strips and dampers thrown aside, showing the upper curved flue-plate in position. Fig. 3 is a central vertical sectional view, taken on the line *o o*.

A is the upper, and B the lower, curved flue-plate; C, warming-oven; D, portion of baking-oven. E E represent the seat for the reservoir; F, damper beneath the reservoir, which is used only when all the heat is required for heating water; G, main damper or the direct-draft damper.

When the main damper G is closed the products of combustion, passing downward through the side flues, H H, are deflected from their natural course by the upper curved flue-plate, A, so as to throw them toward and under the reservoir, whence they return to the perpendicular flues K K, Fig. 2, and resume their natural downward direction, traveling, as usual, through the side bottom flues to the front of the stove, and thence to the middle flue, backward and upward, where they meet the under curved flue-plate, B, which again throws them toward and under the reservoir in their course to the exit-flue.

I have omitted giving a perspective of the under curved flue-plate, considering the sectional view, Fig. 3, sufficient for the purpose of illustrating that portion of my invention.

The two curved flue-plates, being placed in the position shown in Fig. 3, together with the rear oven-plate, M, form an air-chamber, extending from side to side of the stove. Into this chamber I admit air through the openings N N, which passes through openings placed at any desirable point in the rear oven-plate, M, into the baking-oven, producing circulation, and thereby ventilating said oven.

When it is desirable to supply the reservoir with all of the heat the damper F is thrown down, when the products of combustion take the direct course to the exit-pipe.

What I claim is—

1. The air-chamber P, as formed by the position of the flue-plates A B, in combination with the rear oven-plate, M, as set forth.

2. The curved flue-plates A B, in combination with the rear oven-plate, M, whether used as separate plates or constructed in one plate, so as to form the front wall of the rear flue.

JOSIAH JEWETT.

Witnesses:
H. H. GIBBS,
J. O. MUNROE.