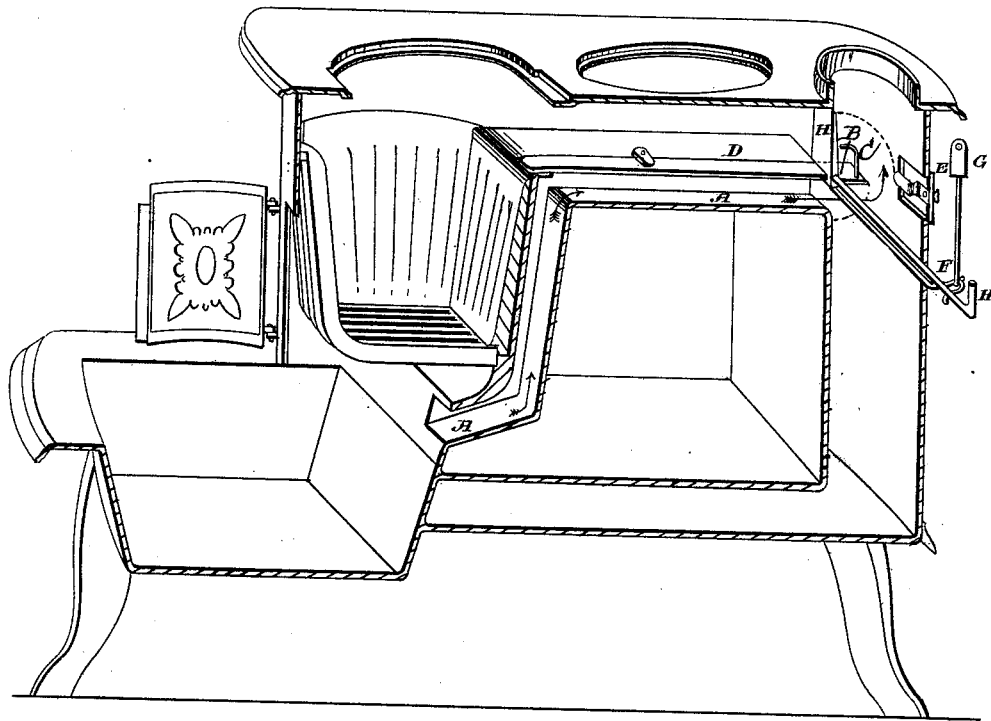


G. E. HOPKIN.
Cooking-Stove.

No. 205,961.

Patented July 16, 1878.



Attest

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UNITED STATES PATENT OFFICE.

GEORGE E. HOPKIN, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN COOKING-STOVES.

Specification forming part of Letters Patent No. **205,961**, dated July 16, 1878; application filed March 25, 1878.

To all whom it may concern:

Be it known that I, GEO. E. HOPKIN, of the city and county of Philadelphia, in the State of Pennsylvania, have invented new and useful Improvements in Cook-Stoves, of which the following is a specification, reference being had to the accompanying drawing.

The object of my invention is to provide cook-stoves with an efficient dust-flue that will not occasion deposits of dust upon the main top surface of the oven-plates, and that will be self-guarded in its efficiency against the carelessness of the operator should he forget to close the main draft.

The drawing shows in perspective a central longitudinal section of an ordinary flat-topped cook-stove containing my dust-flue with its accompanying improvements.

A is the dust-flue, in which the direction of a current through it is shown by arrows. B is the damper for controlling the dust-flue. It is furnished with a bent lever, C, so that in opening it will close the direct-draft damper H H of the stove should it be otherwise neglected; also, the opening of the direct-draft damper will close the dust-flue damper. This is an important feature, because neither flue has much efficiency when both are open. I have therefore made these two dampers to be co-acting reversely.

D is a removable plate covering the sunken portion of the dust-flue in its passage through the top plate of the oven. E is a small door in the back of the stove to accommodate the insertion of a poker for cleaning the dust-flue,

if desired. F is the cranked rod or arbor upon which the dust-flue damper is hung. G is the manual-rod for operating the dust-flue damper.

It will be seen that the top oven-plates are not here exposed to the action of the dust and ashes from the dust-flue, as I have made an independent passage through the oven-plates to the rear draft of the stove.

It is also obvious that the width of the dust-flue and the question whether or not to make more than one of them in like manner in any given stove must be left entirely to the option of the manufacturer.

I claim—

1. In a cook-stove, the dust-flue A, constructed to pass from beneath the back part of the fire-chamber, up the front oven-plate, and along horizontally in the top oven-plate to the smoke flue or flues of the stove, substantially as described.

2. The combination of the dust-damper B with the flue A and the main damper H H by the bent lever C, substantially as shown.

3. In combination with a stove provided with the dust-flue A, the door E, substantially as shown.

4. In the construction of the dust-flue A, and in combination with a stove containing such a dust-flue, the removable plate D, as shown.

GEORGE E. HOPKIN.

Witnesses:

WM. P. HIBBERD,
PATRICK HENRY BRADY.