

G. W. BUCHER.
Hot Air Register.

No. 234,369.

Patented Nov. 9, 1880.

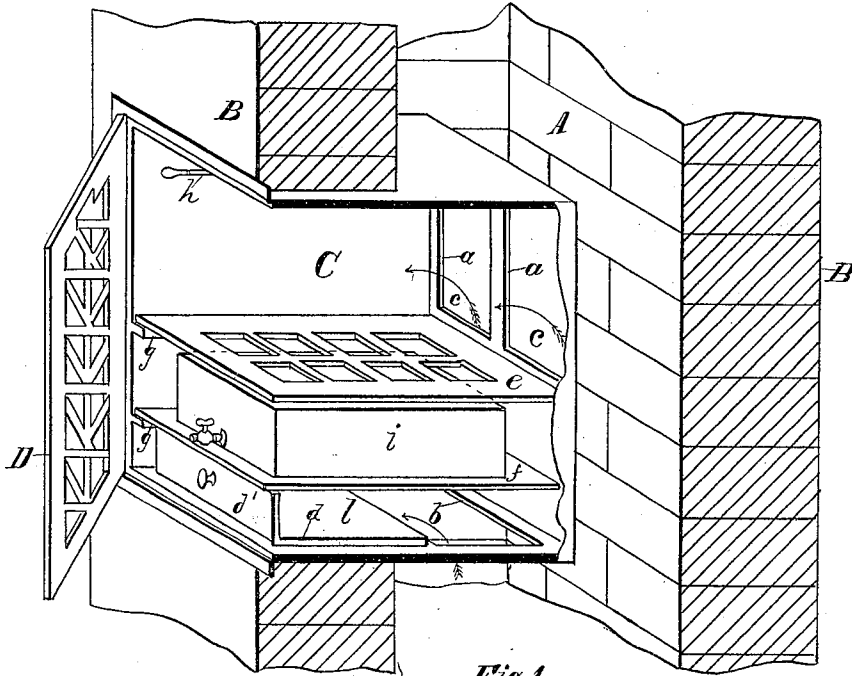


Fig. 1.

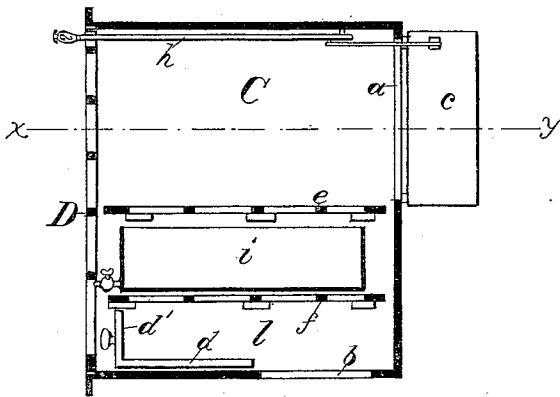


Fig. 2.

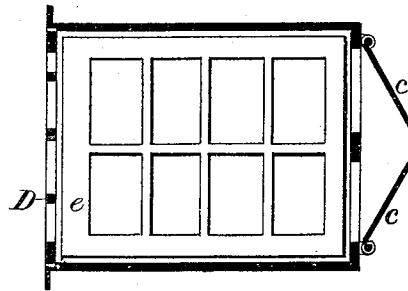


Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

GEORGE W. BUCHER, OF WAVERLY, MARYLAND.

HOT-AIR REGISTER.

SPECIFICATION forming part of Letters Patent No. 234,369, dated November 9, 1880.

Application filed January 29, 1880.

To all whom it may concern:

Be it known that I, GEORGE W. BUCHER, of Waverly, Baltimore county, State of Maryland, have invented new and useful Improvements in Chambers in Combination with Hot-Air Registers; and I do hereby declare that the following is a full, clear, and exact description of the same.

The object of my invention is to confine and direct the hot-air to different points, that the same may be advantageously utilized to heat different articles, such as water, victuals, &c.; and to this effect my invention consists in incasing in the wall, back of the face-grate, a chamber containing openings, dampers, and apartments for the above-mentioned purposes.

I attain these objects by the following arrangements and mechanism illustrated by the accompanying drawings, in which Figure 1 is a perspective view with one side broken away. Fig. 2 is a vertical section of the entire device. Fig. 3 is a cross-section on line *x y*, Fig. 2.

Similar letters refer to similar parts throughout the several views.

A designates the flue; B, the walls of same; C, the chamber, provided with openings *a*, *a*, and *b*, shutters or valves *c* and *d*, grates *e* and *f*, resting on lugs *g*, sub-chamber *l*, and door D, which opens on hinges in the ordinary man-

ner. The chamber C extends part way into the flue, in which openings *a a* are provided with shutters *c*, that are controlled by suitable mechanism and lever *h*, these openings to be used when victuals are to be heated or kept warm, so that a more direct current and greater heat may be directed to this point when desired.

The opening *b* is provided with a slide-valve, *d*, which is operated by sliding in or out, and is constructed with a flange, *d'*, so that when opened it forms a sub-chamber, *l*, under the water-vessel, *i*, thereby confining the heat directly under the said vessel.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, in a hot-air register, the chamber C, openings *a* and *b*, shutters *c* and *d*, and sub-chamber *l*, for the purpose and as herein specified.

2. The combination, in a hot-air register, of the chamber C, extending into the flue A, openings *a* and *b*, and shutters *c* and *d*, for the purpose as substantially set forth.

GEORGE WILLIAM BUCHER.

Witnesses:

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