

D. DESMOND.

Fire Place.

No. 541.

Patented Dec. 26, 1837.

Fig. 1.

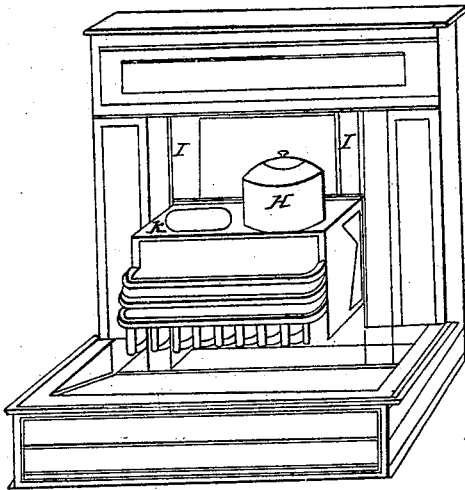


Fig. 2.

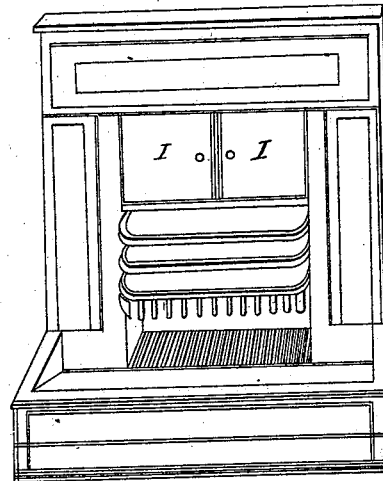


Fig. 5.

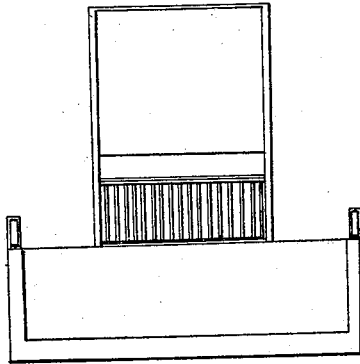


Fig. 3.

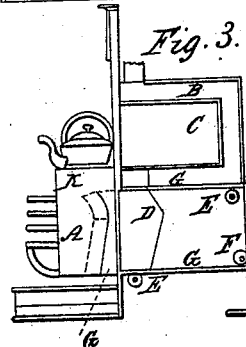
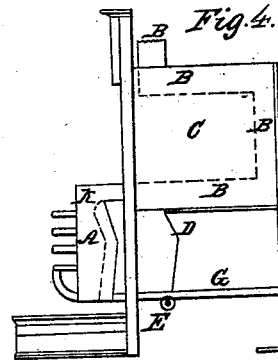


Fig. 4.



Witnesses:

Owen G. Warren
Henry Bartholomew

Inventor:

Daniel Desmond

UNITED STATES PATENT OFFICE.

DANIEL DESMOND, OF NEW YORK, N. Y.

SLIDING-FLUE GRATE.

Specification of Letters Patent No. 541, dated December 26, 1837.

To all whom it may concern:

Be it known that I, DANIEL DESMOND, of the city, county, and State of New York, have invented a new and useful Improvement in Grates, called "Desmond's Sliding-Flue Grate;" and I do hereby declare that the following is a full and exact description.

The nature of my invention consists in attaching to a fire-place a grate and flue so arranged that they may be drawn outward from the fireplace so as to throw the heat more into the room, or for the purpose of cooking upon the grate without occasioning smoke.

To enable others skilled in the business to make and use my invention I herewith describe its construction and operation.

Its general appearance is that of a parlor grate except when drawn out. It is constructed with a fire-place attached so that it may be set in the middle of a room if desirable, as a stove or franklin, a pipe being added to convey the smoke to the chimney, or it may be placed in any ordinary fire place and will be at once ready for use as no masonry is required to set it. An oven is attached, (see annexed drawing, Figures 3 and 4, C) on every side of which, if desired, the smoke passes. It is closed by two doors (I, Figs. 1 & 2) in front which are made to slide. The grate is made to draw out from the fire-place ten or twelve inches, more or less, for the purpose of giving out more heat, or for the purpose of cooking to which it is particularly applicable. The flue is so elongated as to pass in under the oven and

within the main flue, so that when the grate is drawn out the passage for the smoke remains the same, only lengthened, and the draught equally good. An air-tight plate and collar, (D. Figs. 3 and 4) is made through which the sliding flue passes. This prevents the air passing up the chimney, otherwise than through the proper flue, when the grate is drawn out. This grate can be adapted for cooking or for a parlor grate. When not intended for cooking, that part of it, marked in the drawing as K. Figs. 1, 3 & 4, is omitted and a plain grate substituted, the flue being made to slide in and out with it, as in the one for cooking. The oven may also be omitted in the parlor stove if desired, but it can be retained without injuring the appearance of the parlor grate. To enable the grate to move out easily the pieces marked G. Figs. 3 & 4, are extended back upon rollers, (E E Figs. 3 and 4). The roller F. Fig. 3, is placed above the lower bar G. to prevent the grate sinking down when drawn out.

What I claim as my invention and desire to secure by Letters Patent is—

The principle of drawing out the flue with the grate so as to preserve an equally good draught and yet adapt the grate for the purposes of cooking or give out more heat into the room.

DANIEL DESMOND,

Signed in presence of—

OWEN G. WARREN,
HENRY BARTHOLEMEW,