(No Model.)

J. P. WINTER.

FIRE PLACE ATTACHMENT.

No. 264,990. Patented Sept. 26, 1882.

fig. 1.

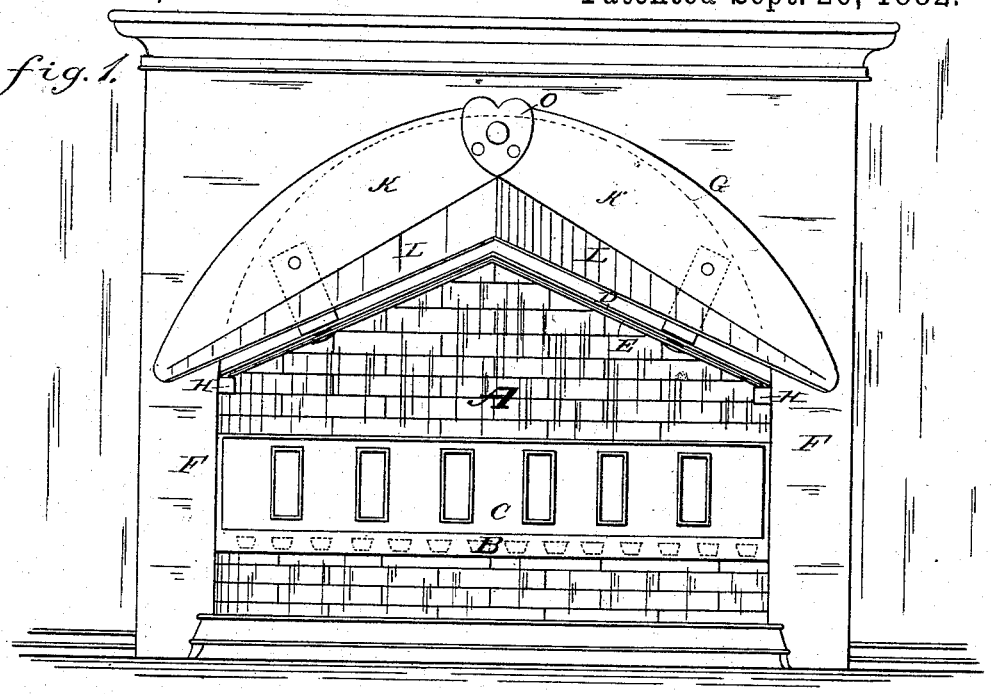


fig. 2.

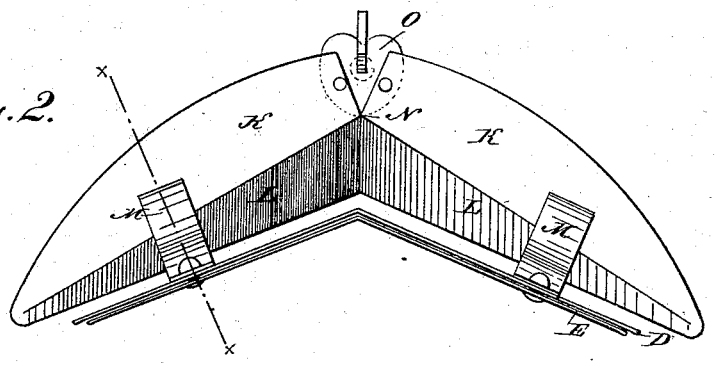


fig. 3.

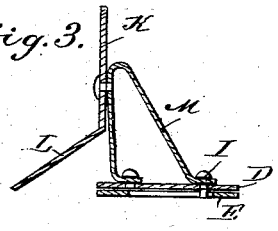
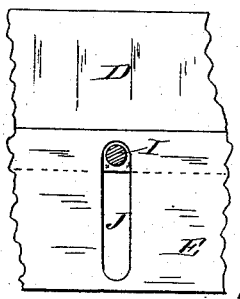


fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES P. WINTER, OF GREENUP, KENTUCKY.

FIRE-PLACE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 264,990, dated September 26, 1882.

Application filed June 5, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES P. WINTER, of Greenup, in the county of Greenup and State of Kentucky, have invented a new and Improved Fire-Place Attachment, of which the following is a full, clear, and exact description.

My invention consists of a heat regulating and reflecting attachment for open fire-places, calculated to control the draft, lessen the escape of the heat up the chimney, and increase the reflection of the heat into the room, so as to effect a large economy of fuel in open-fire heaters, as hereinafter fully described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of a fire-place with my improved attachment. Fig. 2 is an elevation of the reverse side of the attachment. Fig. 3 is a transverse section of Fig. 2 on line *x x;* and Fig. 4 is a detail of the adjustable part of the regulator in plan view, inverted.

A represents an open fire-place, with a grate, B, and front C thereto, for holding the fuel.

D and E represent the two plates of an Λ-shaped draft and heat regulator which I propose to introduce between the jambs F of the fire-place, above the fire, and below the arch G, (dotted,) on supporting studs, cleats, or brackets H, of any approved kind, so that the said regulators may be adjusted to partly or wholly close the passage from front to back of the fire-place by shifting the plate E forward and backward on plate D, to which it is attached by the rivets I for so shifting, the holes J in it for said rivets being slotted to enable it to slide along them. To these regulating-plates a vertical front plate, K, of arch or other form of the top, corresponding to the form of the top of the opening of the fire-place, together with a forwardly-sloping hood, L, is attached by the bent arms M, as shown, the said front plate, K, and the regulators D E being so constructed that when the plate K rests against the front wall and the regulator-plates D and E are in the positions shown in Fig. 3 the draft will be open behind the plate D; but when plate E is shifted back to the limit of its range the draft will be wholly closed thereat, so that the products of combustion will escape between the front of regulator D E and the hood L, which will cause great deflection of the heat into the room without materially lessening the draft of the fire. The heat will of course be proportionately deflected forward, according as the regulator is opened or closed. The Λ shape of the regulator facilitates the deflection of the heat. The lower edge of front plate, K, and the hood conform to the Λ shape of the regulator.

In practice the regulator will also be made adjustable lengthwise, to adapt it to be fitted to fire-places of different widths; or the same may be effected by bending the whole device at the angle N, the front plate being notched thereat, as shown in Fig. 2, and the notch may be covered by a plate, O, which may be riveted to one of the parts only; or, being riveted to both, the rivets may be contrived to be shifted.

A button may be attached to the inside of front plate, K, at the angle, or thereabout, to turn up inside of the front wall of the fire-place, if desired to secure the attachment.

It will readily be seen that a regulator of the kind herein shown may be used with considerable advantage in fire-places of different sizes with respect to the economy of fuel and the condition of the temperature of the rooms.

It will be understood that the hood L and front K may be formed integral with the fire-front, and the regulator D E M attached as described.

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

1. The improved fire-place attachment consisting of front K, hood L, and regulator D E, substantially as described.

2. The improved fire-place attachment consisting of the front K, hood L, regulator D E, and bent arms or brackets M, substantially as and for the purpose set forth.

3. The improved fire-place attachment consisting of the front K, hood L, and regulator

D E, said front and hood being capable of endwise adjustment, and the regulator being adjustable back and forth in the direction of the depth of the fire-place, substantially as described.

4. The improved fire-place attachment consisting of the front K, hood L, and regulator D E, said front being notched at N to enable the attachment to be adjusted by bending it in the angle, substantially as described.

JAMES PARKER WINTER.

Witnesses:

BERNHARD KUEHBORTH,

WILLIAM J. A. RARDIN.