

(No Model.)

J. H. HEITLAND.
FIREPLACE HEATER.

No. 605,713.

Patented June 14, 1898.

Fig. 2

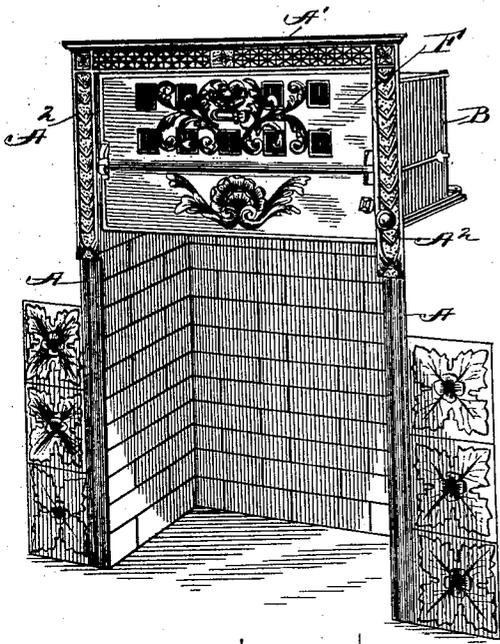


Fig. 1

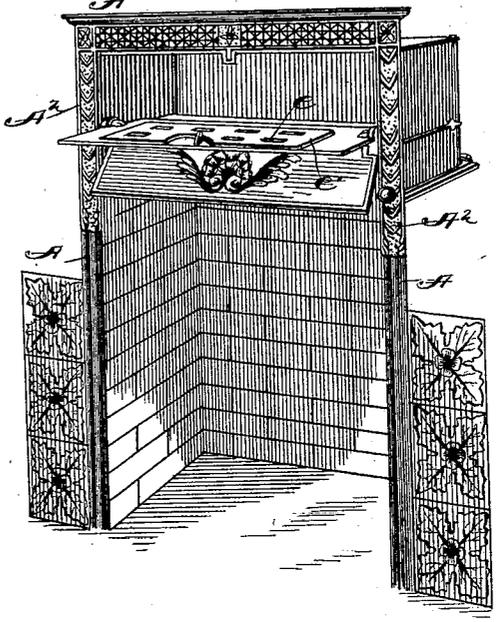


Fig. 3

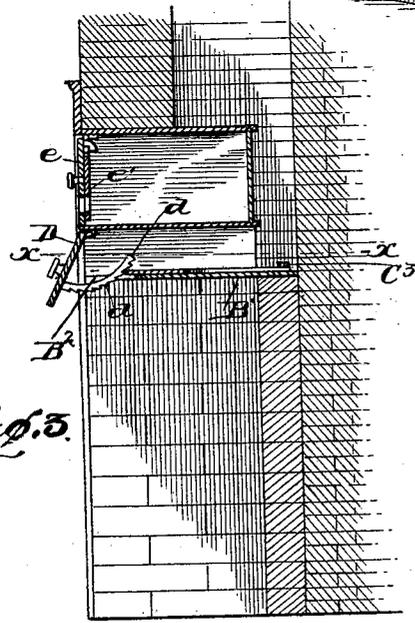
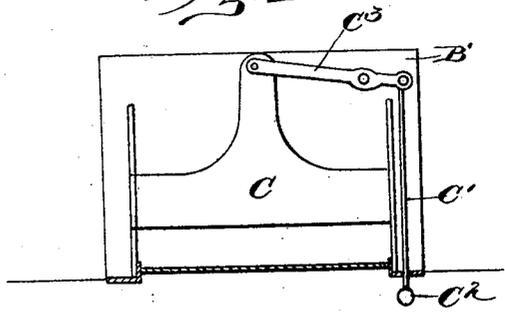


Fig. 4



witnesses:
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UNITED STATES PATENT OFFICE.

JOHN H. HEITLAND, OF QUINCY, ILLINOIS.

FIREPLACE-HEATER.

SPECIFICATION forming part of Letters Patent No. 605,713, dated June 14, 1898.

Application filed October 20, 1897. Serial No. 655,814. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. HEITLAND, a citizen of the United States, residing at Quincy, in the county of Adams and State of Illinois, have invented certain new and useful Improvements in Fireplace-Heaters; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the letters of reference marked thereon.

This invention relates to improvements in fireplace-heaters, and has for its object to provide a fireplace in which the heat from the fire will be thrown out into the room instead of being allowed to escape up the chimney and then lost.

A further object is to provide a chamber that will be heated by the fire, in which articles may be kept warm and from which the hot air escaping into the room will assist in heating.

To this end the invention consists in certain novel details of construction and combinations and arrangements of parts, all as will be now described, and the particular features of novelty pointed out in the appended claim.

Referring to the accompanying drawings, Figure 1 is a perspective view of a fireplace constructed in accordance with my invention, parts of setting being removed and the door of the hot-air chamber being open and the check raised. Fig. 2 is a similar view showing the door of the hot-air chamber closed and the check down. Fig. 3 is a longitudinal vertical section. Fig. 4 is a horizontal section on the line $x x$, Fig. 2.

Like letters of reference in the several figures indicate the same parts.

The frame or fireplace front in the present construction preferably consists of the two side pieces A A and an integral upper section, consisting of the cross-piece A' and two depending portions A² A², the latter resting upon and secured to the side pieces A A at the upper ends thereof. The complete framing is of metal of any desired or preferred design and is slightly larger than the opening in the wall, so that when in position it presents a finished appearance.

Secured to the back of the upper portion of the frame is a rectangular box B, closed on

all sides save at the front and extending back to within a short distance of the back of the chimney or flue, as shown in Fig. 3. To the sides of this box, which extend a short distance below the bottom and at a short distance from the front thereof, is attached a plate or guard B', of cast metal, said plate extending back to the chimney-back and resting on the usual fire-brick lining. This plate or guard B', extending out as it does over the fire, will prevent the heat thereof from being carried off directly up the chimney, but will deflect it and throw it out into the room, as will be readily understood, the products of combustion passing up around the front of the guard B', through the passage-way B² between the guard and box B, and back to the chimney or flue.

Sliding in guides or grooves in the deflector-plate is a damper C, operated by means of a rod C', extending out through the front of the frame and provided with a knob or handle C², the opposite end of said rod being connected to one end of a lever C³, pivoted to the plate B', the other end of the lever being connected to the rear of the damper, all as will be clearly seen in Fig. 4.

Pivoted in bearings on the side pieces of the frame is a check D, adapted to be held at various points of adjustment by means of a curved arm d , provided with teeth d' , which are adapted to engage with the damper, as will be readily understood from Fig. 3. By adjusting this check the draft may be directed over the fire and the fire then kept from burning brightly.

In order to vary the flue-opening or space between the guard and check, as may be required to carry off the products of combustion, as when starting a fire or when adding fresh fuel, it is only necessary to operate the bar or rod C' and slide the damper in or out, as will be readily understood.

The box B forms, in effect, a heating-chamber heated by the products of combustion in their passage through the space B², and, if desired, articles may be placed within the chamber to be heated or kept warm. The front of the chamber is closed by a door E, having openings e , whereby the heated air within the chamber may be utilized to heat the room, said openings being closed by damper-slide e' .

While I have shown and described the box as being secured to the front frame, and this is the preferred construction, I do not wish to be confined to this specifically, as the box
5 could be separate from the frame and be built in with the fire-brick or lining, as will be readily understood. So, too, the heating-chamber might be entirely omitted, leaving simply the deflector-plate and check.

10 The heater, it will be seen, is simple, can be shipped ready to be set up, and does not require skilled labor to put it in position.

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

In a fireplace-heater, the combination with the heating-box, of the deflector-plate located below said box extending from a short distance from the front to the chimney-back, whereby the products of combustion may be
20 caused to pass from front to rear beneath the box, the damper in said deflector-plate and the check having the curved toothed arm adapted to engage with the damper to adjust said check; substantially as described.

JOHN H. HEITLAND.

Witnesses:

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