(No Model.)

G. I. ROBERTS.

FLAT IRON HEATER.

No. 259,722. Patented June 20, 1882.

Fig. 2

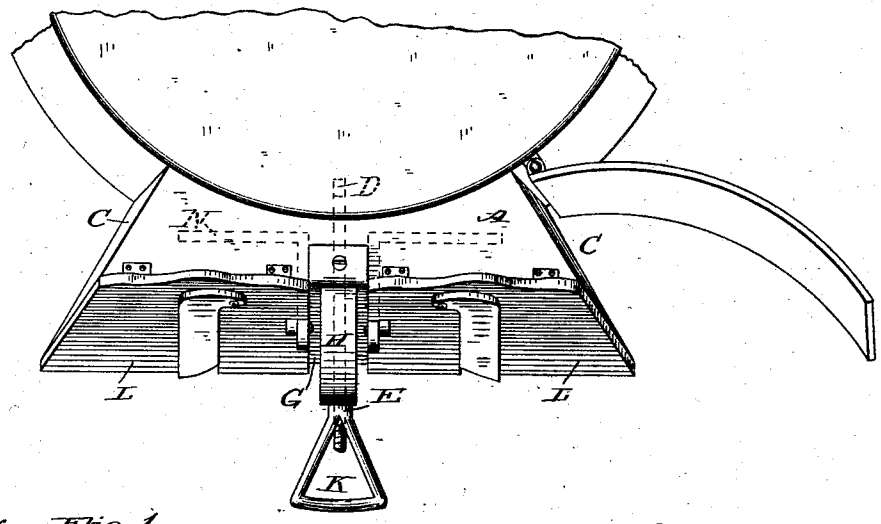


Fig. 1.

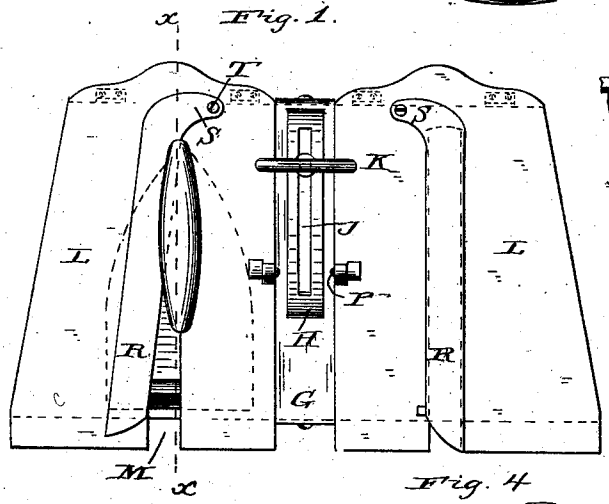


Fig. 3.

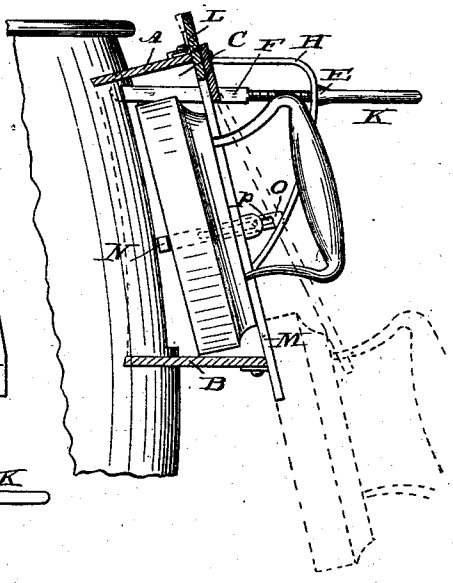
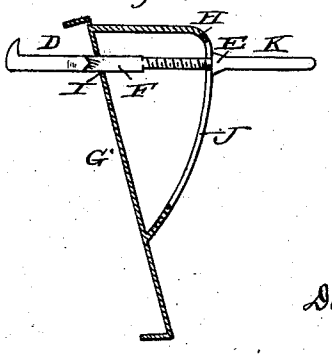


Fig. 4



Witnesses:

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UNITED STATES PATENT OFFICE.

GEORGE I. ROBERTS, OF FORT WAYNE, INDIANA.

FLAT-IRON HEATER.

SPECIFICATION forming part of Letters Patent No. 259,722, dated June 20, 1882.

Application filed March 16, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE I. ROBERTS, a citizen of the United States, residing at Fort Wayne, in the county of Allen and State of Indiana, have invented certain new and useful Improvements in Flat-Iron Holders, of which the following is a specification, reference being had therein to the accompanying drawings.

Figure 1 is a front elevation of my flat-iron holder. Fig. 2 is a top view. Fig. 3 is a vertical section on line *x x*, Fig. 1. Fig. 4 shows the clamping device detached.

In the drawings, A represents the top plate, and B the bottom plate, of the frame or casing which I employ. At their inner edges they are recessed so that they shall be curved to correspond in shape to the outer surface of the stove to which the device is to be fitted. At the ends there are two pieces, C C, preferably inclined somewhat to the top and bottom pieces, and curved at their inner edges to conform to the face of the stove.

The holder is fastened in place in front of the door of the stove by the following devices: D represents a clamping-hook, which is arranged to pass into the door of the stove and catch against the inner face thereof. With it are combined pressing or tightening devices, whereby the iron-holder may be clamped against the stove. These devices may be of any suitable construction. The form which I have shown consists of a nut, E, adapted to engage with a thread on the shank F of the clamping-hook, and G H are supporting and guiding devices for said hook. The support and guide G is preferably attached to the top and bottom pieces, A and B, and is provided with an aperture, I, which is but little larger than shank F in cross-section. The supporting and guiding piece H is bent or arched and provided with an elongated slot, J, through which passes the threaded part of the shank F. When devices of this sort are employed the hook D may be drawn toward the holder A B C and caused to clamp the same to the stove by means of the nut E, which may be screwed up until it presses against the part H tightly. Preferably the nut is provided with a handle, K, whereby it can be readily manipulated, and which may be also used to carry the iron-holder, or used to move it into the desired position.

The slot J permits the clamping-hook to be moved up or down to accommodate it to stove-fronts of different shapes or thicknesses.

L represents a door, hinged at or near its upper end to the frame of the iron-holder, and adapted to close the front thereof or a portion of said front. Its lower end extends somewhat below the bottom B of the holder, for a purpose to be hereinafter set forth.

M is a slot formed in the door. Its width is substantially that of the handle of the ordinary flat-iron, or of the shank which joins the handle to the body of the flat-iron. The slot preferably is long enough to extend from the top A of the frame of the holder to the bottom of the door L.

When it is desired to insert a flat-iron it is accomplished by pressing the nose of the iron upward behind the downwardly-projecting lower end of the door L, which causes the door to swing upwardly sufficiently to let the body of the flat-iron pass upward behind the door, the handle or shank of the handle of the flat-iron passing upward in the slot M. The iron is then rested on its lower end on the bottom plate, B, of the holder, the bottom face of the iron being exposed to the fire through the door of the stove.

In order to hold the iron at the proper distance from the fire, I employ an adjustable support. Preferably it is constructed as shown, having an arm, N, arranged to lie in front of the bottom of the iron, and a slotted arm, O, situated at an angle to the arm N and secured to the door L by the set-screw P, Fig. 1. The set-screw passes through the slot *p* in the arm, (see Fig. 2,) and is arranged to permit the part N to be moved nearer to or farther from the door. When there is no iron inserted in the holder at this point it is desirable to have the slot M closed to prevent the escape of heat.

I provide an automatically-operating valve or door, which readily yields when the iron is being inserted, and instantly drops into place to close the slot after the iron has been withdrawn. The one shown in the drawings consists of a door portion, R, of substantially the width of the slot M, and a hinged portion, S, arranged to have the hinge or pivot T situated on a line other than that of the slot, so that the part R will be thrown away from the slot very quickly and without necessitating that it

be thrown very much out of the perpendicular. At the lower end the door R is beveled or inclined in one direction, so that the door may be automatically opened by the upward movement of the shank of the handle of the iron. Two or more of these doors may be employed, as shown in the drawings.

Of course it will be understood that many of the devices may be modified without departing from the spirit of my invention. Thus by making the holder square or of box form it may be adapted to fit against a stove with a plane front; and other modifications will readily suggest themselves to those acquainted with the construction and use of such devices.

What I claim is—

1. In a flat-iron holder adapted to be secured directly in front of an open doorway in the vertical wall of a stove, a fastening device which passes through said doorway and engages with the inside of the stove, substantially as set forth.

2. A detachable flat-iron holder upon which the iron rests and is supported, and which has attached thereto devices, substantially as described, for clamping it to a vertical or downwardly-projecting wall of a stove.

3. The combination, with the detachable flat-iron holder, of the clamping devices provided with the threaded shank, and a nut adapted to engage with said shank, substantially as set forth.

4. The combination, with the detachable flat-iron holder, of the clamping-hook arranged to swing vertically before it is fastened, and means, substantially as set forth, for clamping it against the stove.

5. The combination, with the detachable flat-iron holder, of the clamp which engages with the stove, the shank which carries the clamp, provided with a screw-thread adapted to receive a clamping-nut, and arranged, substantially as described, to prevent its being rotated.

6. The combination, with the detachable flat-iron holder, having the upper and the lower plates or walls, A and B, of the supporting-piece G, the clamping device mounted in said supporting-piece, and the outwardly-projecting slotted supporting and guiding piece H, substantially as set forth.

7. A detachable flat-iron holder having at the bottom a horizontal supporting part, B, on which rests the heel of the iron, and the slotted vertically-arranged door extending below said support B, the iron-holder being open on the side opposite to the said door, substantially as set forth.

8. In a detachable flat-iron holder which closes and surrounds an open doorway in the vertical wall of a stove, a vertically-swinging slotted plate or door which closes the outside of the holder and prevents the escape of heat from said open doorway, substantially as set forth.

9. In a detachable flat-iron holder arranged to have the iron heated while resting on its heel, the combination, with a swinging door, of a stop attached thereto and arranged to bear against the bottom of the iron to prevent its moving inwardly, substantially as set forth.

10. In a flat-iron holder, the combination, with the bottom support, B, upon which the heel of the iron rests, of the slotted door which swings toward and from the said support, and the stop attached to said slotted door to prevent the flat-iron from moving away therefrom, substantially as set forth.

11. In a flat-iron holder, the combination, with the swinging door, of a stop attached thereto which prevents the iron from moving inwardly from the door, and is adjustable relatively thereto, substantially as set forth.

12. In a flat-iron holder, the combination of a vertically-arranged outwardly-swinging door provided with a slot for the handle of the iron, and a laterally-swinging door or valve for said slot, pivoted to the outwardly-swinging door, and constructed, substantially as set forth, to be opened by the handle of the iron while the toe or body of the iron is swinging the main door outwardly, and arranged to automatically operate by gravity to close the slot after the iron has been withdrawn.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE I. ROBERTS.

Witnesses:
A. H. BITTINGER,
WILLIAM TOUS.