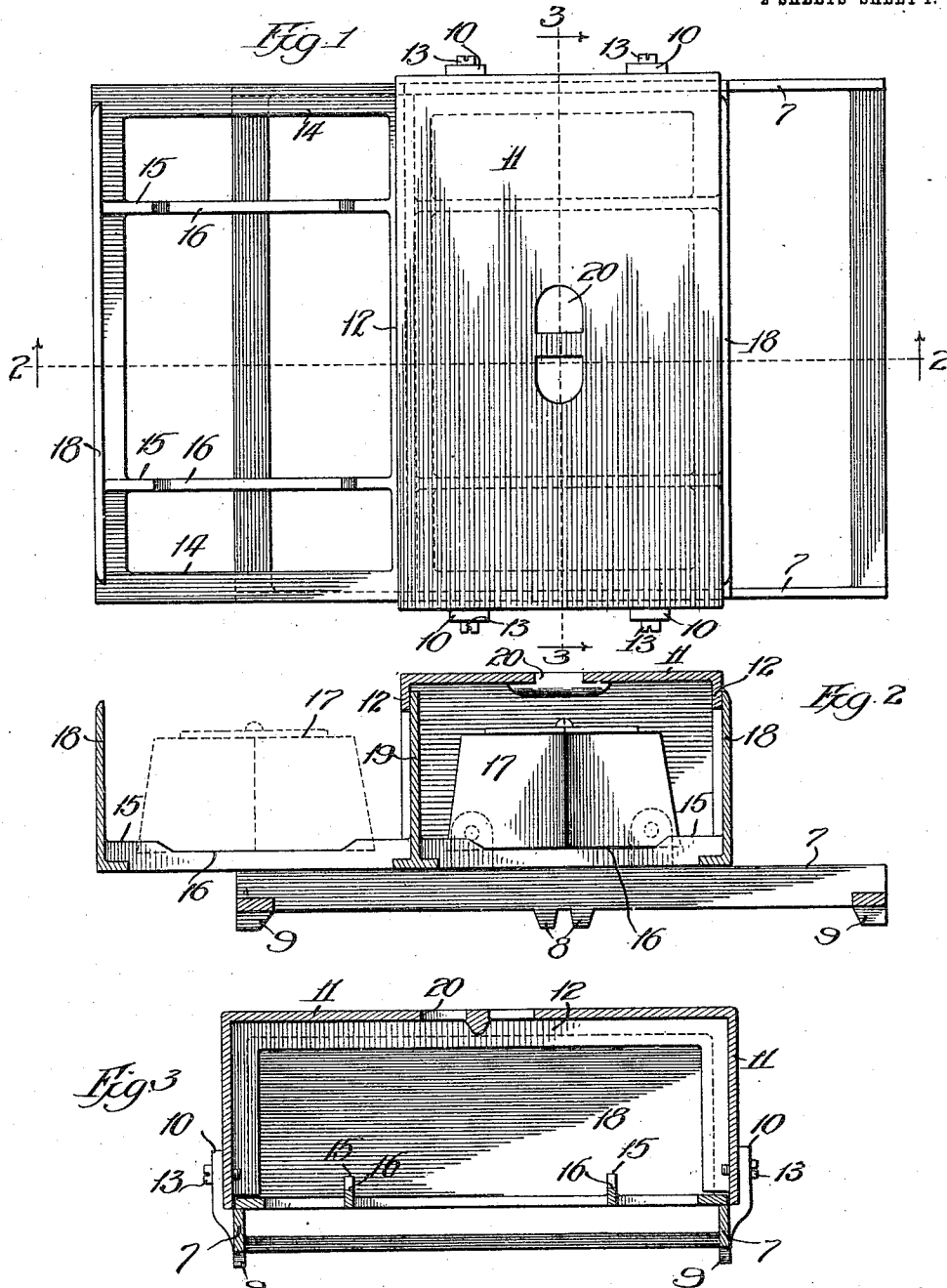


M. E. JOHNSON.
 FLAT IRON HEATER.
 APPLICATION FILED OCT. 17, 1910.

986,393.

Patented Mar. 7, 1911.

2 SHEETS—SHEET 1.



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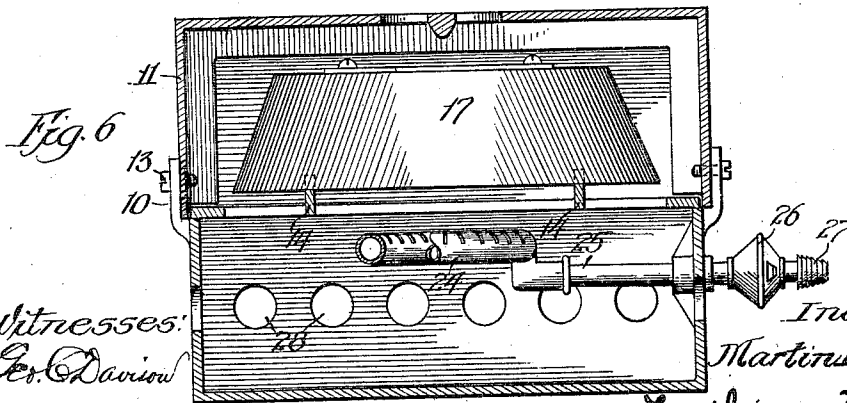
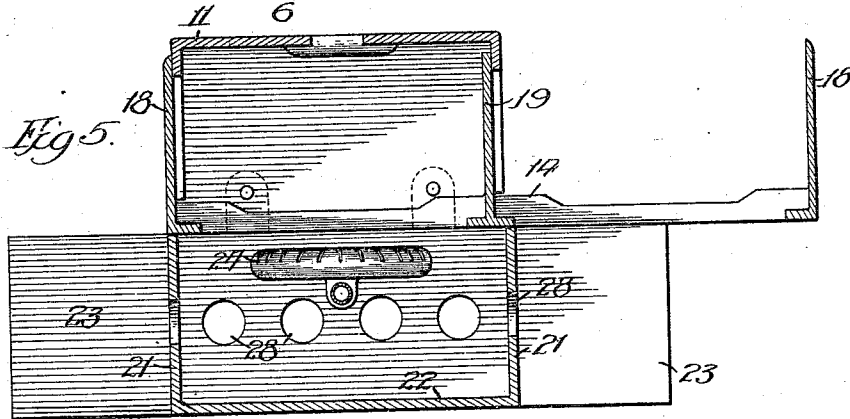
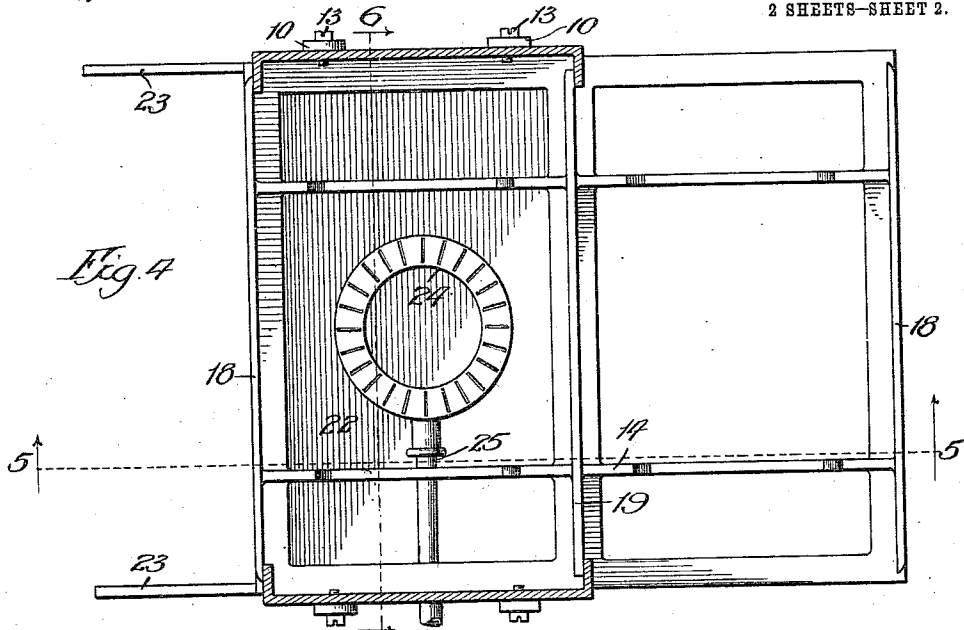
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UNITED STATES PATENT OFFICE.

MARTIN E. JOHNSON, OF CHICAGO, ILLINOIS.

FLAT-IRON HEATER.

986,393.

Specification of Letters Patent.

Patented Mar. 7, 1911.

Application filed October 17, 1910. Serial No. 587,405.

To all whom it may concern:

Be it known that I, MARTIN E. JOHNSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Flat-Iron Heaters, of which the following is a specification.

This invention relates to flatiron heaters and aims to produce a device of this character which shall be strong and durable, easy to manipulate and light enough to be readily moved about the house from place to place.

One of the objects of this invention is the production of a device which will form a heating compartment adapted to hold a flatiron when it is being heated and retain the heat around the iron, thereby enabling the iron to be heated more quickly and with a less consumption of gas than is necessary for the heating of an iron under ordinary conditions, *i. e.*, when it is simply positioned over a gas flame without any heat retaining inclosure.

Another object of the invention is to provide a device by means of which an iron may be readily slid away from the flame so that it can be engaged by the ordinary detachable handle without subjecting the user to the dangers of coming in contact with the gas flame or the necessity of turning down the flame.

Still another object is to construct a device adapted to support an iron in a horizontal position directly over the flame without any liability of the iron becoming displaced or slipping down onto the burner where it would be smirched with soot and dirt.

Other objects and advantages of my invention will become apparent as it is better understood by reference to the following description when taken in connection with the accompanying drawings illustrating preferred embodiments of my invention.

On the drawings Figure 1 represents a plan view of one embodiment of the invention. Fig. 2 is a sectional elevation on the line 2—2 of Fig. 1. Fig. 3 is a sectional elevation on the line 3—3 of Fig. 1. Fig. 4 is a plan of another modification of the invention with the top plate broken away. Fig. 5 is a sectional elevation on the line 5—5 of Fig. 4; and Fig. 6 is a sectional elevation on the line 6—6 of Fig. 4.

Referring to the drawings, and particu-

larly to Figs. 1 to 3 inclusive, 7 designates the base or frame of the device adapted to be positioned upon the top of an ordinary gas range. The frame is preferably provided with downwardly projecting lugs 8 adapted to seat upon either side of a finger of the spider over the burner, and feet 9 adapted to rest upon the flat top of the range and support the outer ends of the frame. Each side of the frame is provided with a pair of upwardly projecting ears or lugs 10 between which is fitted an inverted channel-shaped plate 11 provided at either side with a downwardly and inwardly projecting flange 12. The plate is rigidly secured to the base of the device by means of screws 13 which pass through the lugs or ears 10 and are threaded into tapped openings in the downwardly projecting ends of the plate.

As will be obvious from inspection of Fig. 3, the inner edges of the downwardly projecting ends of the plate are disposed outside the main frame of the device. This construction provides a smooth bearing surface on the top of each side of the frame upon which a support 14 is adapted to slide. It will also be evident that the inwardly projecting flanges 12 are stopped short of the bottom of the ends of the plate to serve as guides for the sliding support 14, thereby preventing the support from tilting or becoming displaced relatively to the frame.

The sliding support 14 comprises side members which slide upon the tops of the frame sides and longitudinally extending bars or supporting members 15 which preferably have their upper sides cut away at 16 to form suitable seats for the reception of the usual flatirons 17. The support is also provided with an integral upstanding plate 18 at either end and a central vertically disposed plate 19, as best shown in Fig. 2. The sliding movement of the support is limited in either direction by the engagement of the plate 19 with the inner face of one or the other of the inwardly projecting flanges 12. The plates 18 and 19 are spaced apart a distance equal to the width of the channel-shaped plate 11.

It will be evident that the channel-shaped plate, in conjunction with one of the plates 18 and the plate 19, forms a compartment directly over the gas flame when the device is properly positioned on the range. When

an iron is positioned in this compartment the heat which rises from the flame instead of escaping to the room as ordinarily occurs, is retained to a large degree within the compartment around the iron positioned therein, and thereby rapid heating of the iron is greatly facilitated.

Assuming that the sliding support is in the position shown in Fig. 2 with an iron in the heating compartment, this iron will be heated while the other iron is in use. When it is desired to change irons the one which has been in use is deposited upon the sliding support in the position shown in dotted lines in Fig. 2. The support is then pushed toward the right until the vertical plate 19 engages with the inwardly projecting flange 12 on the right hand side of the channel-shaped plate. This movement of the support pushes the cool iron within the heating compartment the sides of which will now be formed by the vertical plate 19 and the plate 18 at the left of the iron, while the heated iron will be delivered at the right side of the compartment away from the flame and in position to be grasped by the ordinary detachable handle. After this iron has been cooled by use it is returned to the sliding support which is then moved back to the left to position this iron over the flame and deliver the heated iron at the left of the compartment.

In order that the device may be removed from the range when in heated condition, I have provided in the top of the plate a plurality of openings 20 through which the fingers of the ordinary detachable flatiron handle may be inserted to engage with the device. These openings also permit enough heat to rise from the heating compartment to insure a circulation within the compartment sufficient to produce the best results.

In the modifications disclosed in Figs. 4, 5 and 6, the construction is varied slightly to enable it to be used independently of a gas range. This modification also comprises the inverted channel-shaped plate 11, the sliding support 14 provided with the vertically disposed plates 18 and 19, but the base instead of being shaped especially to fit the top of an ordinary gas range, as in the previously described modification, is constructed so that it may be positioned upon any flat surface and the device may be used entirely remote from the ordinary range. The base in this instance comprises a rectangular box 21 provided with a bottom 22, the ends of the box projecting beyond the side walls thereof to form guiding and supporting members 23 for the sliding support 14. A gas burner 24 is supported from one end of the base by a pipe 25 and may be provided with the usual regulating device 26. The end of the pipe outside the wall terminates in a nipple 27 to which an ordinary

flexible gas tube may be attached. The ends and side walls of the base are preferably provided with perforations 28 to admit air to the burner. It will be obvious that a round burner, such as is disclosed in the drawings, a long burner or any other type may be employed in connection with this embodiment of my invention and that the device may be readily moved from place to place when the burner is lighted, as occasion may require.

In the modifications of my invention described, the various parts are preferably cast but it will be obvious that they may be made in any other preferred manner, and that various mechanical changes in the size and proportion of the various parts and in the general arrangement of the same may be resorted to without departing from the spirit of the invention or sacrificing any of the material advantages thereof.

What I desire to claim is:

1. A flatiron heater, comprising a base having the top and ends of a heating compartment fixedly secured thereto, and a support slidably mounted on said base, said support being of such length with respect to the heating chamber as that it may support a flatiron thereon without the chamber while a flatiron is being supported thereon within said chamber, whereby the introduction of an iron within the chamber from either side thereof is permitted.
2. A flatiron heater, comprising a base, an angle plate providing the top and ends for a heating chamber secured to said base, and a support slidably mounted on said base so as to be extended in either direction beyond the heating chamber, said support being of such length with respect to the heating chamber that it may support a flatiron thereon without the chamber and simultaneously support a flatiron thereon within said chamber, whereby the irons may be alternately introduced and withdrawn from said chamber at either side thereof.
3. A flatiron heater, comprising a base having the top and ends of a heating compartment fixedly secured thereto, and a support slidably mounted on said base, said support being provided with a plurality of spaced integral upwardly extending plates adapted to form the sides of the heating chamber.
4. A flatiron heater, comprising a base, a plate fixedly secured to said base and forming the top and end walls of a heating compartment, and a support slidably mounted on said base provided with a plurality of fixed vertically extended plates adapted to form the side walls of said heating compartment, said support being adapted to simultaneously support one iron within the heating chamber and another without said chamber.

5. A flatiron heater, comprising a base, a plate secured to said base and forming the end walls and top of a heating compartment, a support slidably mounted on said base provided with seats for the reception of a plurality of flatirons and having upwardly projecting end plates and a vertically disposed central plate, said plates being adapted to form the side walls of said heating compartment.

6. A flatiron heater, comprising a base, an inverted channel-shaped plate secured to either side of said base and having inwardly projecting flanges at either side thereof, a support mounted to slide upon said base and having three vertically disposed plates spaced apart a distance equal to the width of said channel plate, the central plate being disposed between the flanges of said channel plate whereby said plate is adapted to form either side wall of a heating compartment and of which either end plate may form the other side wall.

7. A flatiron heater, comprising a base, a support slidably mounted thereon and provided with vertically extending plates affording a compartment for an iron between adjacent plates, and a channel-shaped plate fixedly secured to said base and forming the top and end walls of a heating compartment, the vertical plates on the sides serving as the side walls of the compartment, and said support being of a length adapted to simultaneously support one iron within the chamber and another without said chamber.

8. A flatiron heater, comprising a base, an inverted channel-shaped plate secured to said base, and a support slidably mounted on said base so as to be capable of being extended in both directions beyond the sides of said channel plate, said support being provided with vertical partition plates adapted to form in conjunction with said channel plate, a heating compartment for an iron, both sides of said heating compartment being formed by said vertical plates whereby upon actuation of said support one iron may be introduced into the chamber from one side thereof simultaneously with the withdrawal of another iron from the chamber at the other side thereof.

9. A flatiron heater, comprising a base, a support slidably mounted thereon to be projected beyond either end of said base, a vertical plate arranged at each end of said support, and a third plate disposed between the ends thereof, and an inverted channel-shaped plate secured to said base, said channel plate in conjunction with the centrally

disposed plate and one end plate of the support, forming a closed heating chamber.

10. A flatiron heater, comprising a base, a support slidably mounted thereon and provided with three vertically extending partition plates, a channel plate secured midway said base to form the top and end walls of a heating chamber, said support being provided with a seat for an iron between each of said vertically extending plates, and said support being slidable beyond the base in either direction to alternately position the irons carried thereby within the heating chamber.

11. In a flatiron heater, the combination of a base, a gas burner located centrally thereof, a sliding support mounted upon said base and providing seats for two flatirons and having three spaced vertically extending plates, and a heating chamber disposed above said burner and formed by said vertically extending plates and an inverted channel-shaped plate secured to said base.

12. In a flatiron heater, the combination of a base, a support slidably mounted thereon and adapted to be extended beyond the base in either direction, a heating compartment having the end wall and top thereof secured to the base and the side walls thereof formed by vertical plates rigidly secured to the sliding support, said support being adapted to hold one iron outside the heating chamber while another is disposed therein.

13. In a flatiron heater, the combination of a base, a heating compartment disposed within said base, and means of a length greater than the width of the heating compartment for simultaneously delivering a heated iron from said compartment at one side thereof and inserting another iron into the compartment from the opposite side thereof.

14. In a flatiron heater, the combination of a base, a burner secured thereto, a heating compartment disposed above said burner, and means for simultaneously inserting an iron to be heated into the chamber through one side thereof and delivering a heated iron from the chamber through the opposite side thereof, said means being of a length at least twice the width of said heating compartment and carrying the side walls of said compartment.

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Witnesses:

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