L. F. PARKHURST.

ELECTRIC HEATER FOR RANGES.

APPLICATION FILED NOV. 25, 1911.

1,045,320. Patented Nov. 26, 1912.

Fig. 1.

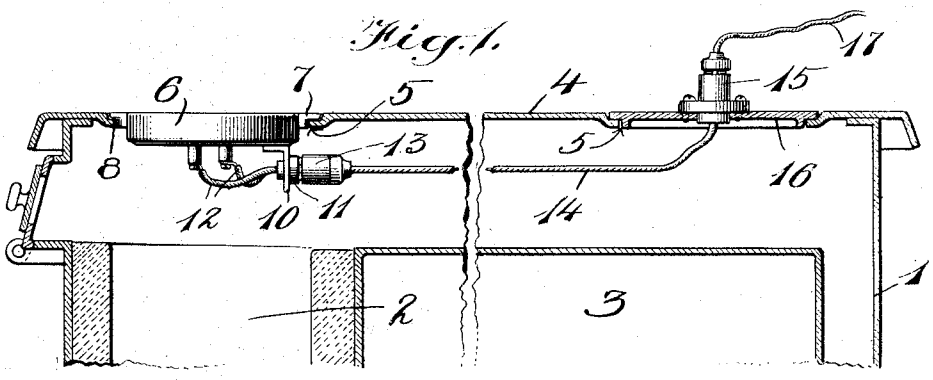
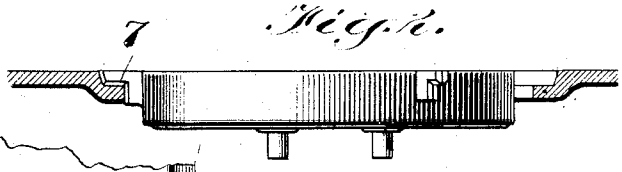
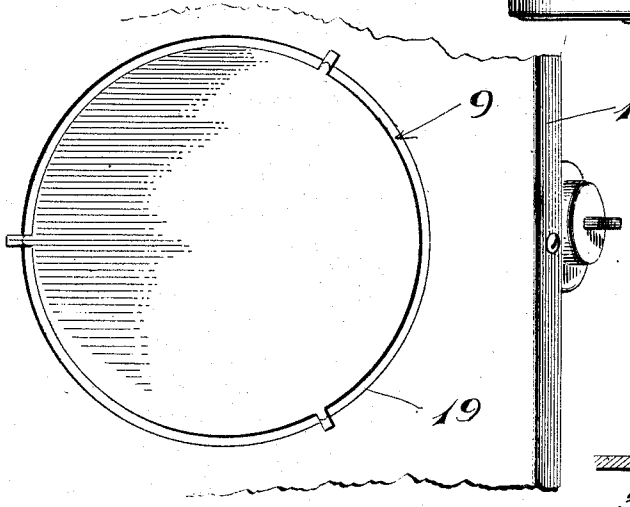


Fig. 4.





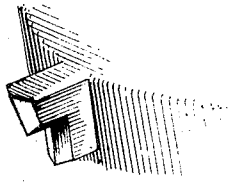


Fig. 3.

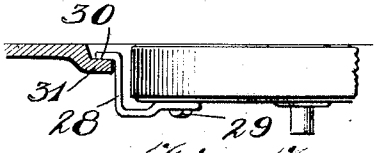


Fig. 7.

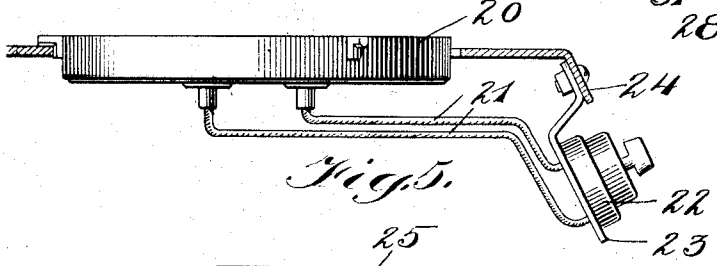


Fig. 5.

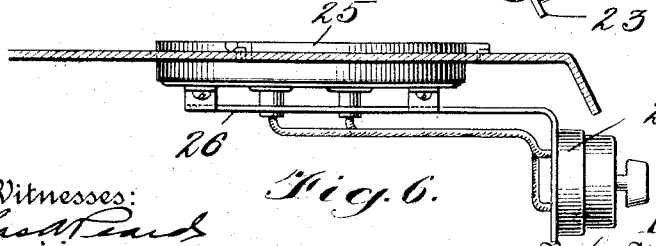


Fig. 6.

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UNITED STATES PATENT OFFICE.

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ELECTRIC HEATER FOR RANGES.

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To all whom it may concern:

Be it known that I, LEON F. PARKHURST, a citizen of the United States, residing at Binghamton, county of Broome, State of New York, have invented certain new and useful Improvements in Electric Heaters for Ranges, of which the following is a full, clear, and exact description.

My invention relates to electric heaters which may be used with coal, gas or electric ranges.

The object of the invention is to provide a device of this character, which may be readily mounted in the lid openings of such stoves, and in such manner as to be as free as possible of contact with the edges of said openings, as is consistent with staple support.

A further object is to provide in combination with such heating devices, a convenient form of switch for connecting the heater to a source of current.

With these objects in view, the invention consists in the construction and arrangements of parts, the preferred embodiment of which is illustrated in the accompanying drawings, in which,

Figure 1 is a vertical sectional view from front to rear of a coal range showing my invention in conjunction therewith. Fig. 2 is a detail view of the heater somewhat enlarged, showing the manner of supporting the same within the stove hole. Fig. 3 is a detail view of one of the supporting lugs of the heater. Fig. 4 is a plan view of a heater as applied to a gas stove. Fig. 5 is a fragmentary view, similar to Fig. 1, of the device illustrated in Fig. 4. Fig. 6 is a view similar to Fig. 5 showing a modified arrangement of the switch block, and Fig. 7 is a detail of a modified form of supporting lug.

In the embodiment of my invention herein selected for illustration, and particularly shown in Figs. 1 and 2, 1 indicates the body of a coal range having a fire box 2, and an oven 3. The top 4 is provided with the usual lid holes 5. The heater embodying my invention comprises a casing 6, in which is inclosed suitable electric units of any desired form. The casing is provided with a plurality, preferably three, of lugs 7, attached to the side of the casing, and arranged to rest upon the lip 8 of the lid opening, so that the top of the heater is flush with the top of the stove. By forming the supporting lugs of the shape here shown, and attaching them to the heater, as indicated, it will be seen that the body of the heater is spaced away from the edges of the lid opening, so that dissipation of heat through the stove top is reduced to a minimum. This spacing is particularly illustrated at 9 in Fig. 4. The heater is provided with a depending lug 10 having a terminal block 11 connected with the heater terminals as at 12. The terminal socket 13 and circuit cable 14 serve to convey current to the heater. For convenience in making the electrical connection, the leads 14 may pass to a connector 15 mounted in a dummy stove lid 16 in one of the adjacent lid openings. The connector 15 may be merely an electric connector or it may be in the form of a switch of a circuit lead 17, leading to the source of energy.

In the modification shown in Figs. 4 and 5, 18 indicates the top of a gas or electric range or stove, in the lid opening 19 of which, the heater 20 is mounted in the same manner as in the first form described. The electrical connections 21 on this heater may lead to a switch block 22 mounted on a supporting arm 23 secured to the lip 24 of the stove top. In Fig. 6 I have shown the modified arrangement of the switch block. In this case, the heater 25 is provided with supporting bracket 26 upon the forward end of which the electric switch 27 is mounted. As indicated in the forms heretofore described, the supporting lug of the heater may be in the form of a cast bracket, or as indicated in Fig. 7, it may be a wrought metal arm 28, riveted or screwed at 29 within the side of the heater, and holding the laterally extending lug 30, adapted to rest upon the lip 31 of the stove top.

In all forms described, it will be seen that the heater proper is at all times maintained out of contact with the surrounding edge of the lid opening, and in the construction, as illustrated in Figs. 1, 2 and 7, the top of the heater is flush with the top of the stove.

While I have herein described the particular embodiments of my invention, it is to be understood that the same may be altered in details and relative arrangements of parts within the scope of the appended claims.

What I claim is:—

1. In a device of the character described,

the combination with a stove top having a lid opening, of an electric heating element having a plurality of supporting members extending from its sides and supporting said element from said stove top, with its surfaces within said opening and out of contact with the adjacent stove top.

2. In a device of the character described, the combination with a stove top having a lid opening, of an electric heating element having a plurality of spaced supporting lugs extending from its sides and supporting said element from said stove top, with its surfaces within said opening and out of contact with the adjacent stove top.

3. In a device of the character described, the combination with a stove top having a lid opening, of an electric heater having supporting lugs adapted to rest upon the edge of said openings to maintain the perimeter of the heater out of contact with said edge.

4. In a device of the character described, the combination with a stove top having a lid opening, of an electric heater having lugs adapted to support said heater within and free of the edge of said opening, and a switch block mounted adjacent said stove having suitable connections with said heater.

5. In a device of the character described, the combination with a stove top having a lid opening, of an electric heater adapted to be supported above and upon the edge of said opening, a switch block supported from said stove top and electrically connected with said heater.

6. In a device of the character described, the combination with a stove top having a lid opening, of an electric heater having lugs adapted to engage the edge of said opening and to support the heater with its top flush with the top surface of the stove and with its perimeter out of contact with said edge.

7. In a device of the character described, the combination with a stove top having a lid opening, of an electric heater adapted to fit above said opening, and having supporting lugs adapted to rest upon the edge of said opening and maintain the heater out of contact with said edge, said stove top having an adjacent lid opening, a dummy lid in said opening bearing an electric connector, electric conductors extending from said heater to said connector, and means for connecting said connector with the source of current.

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