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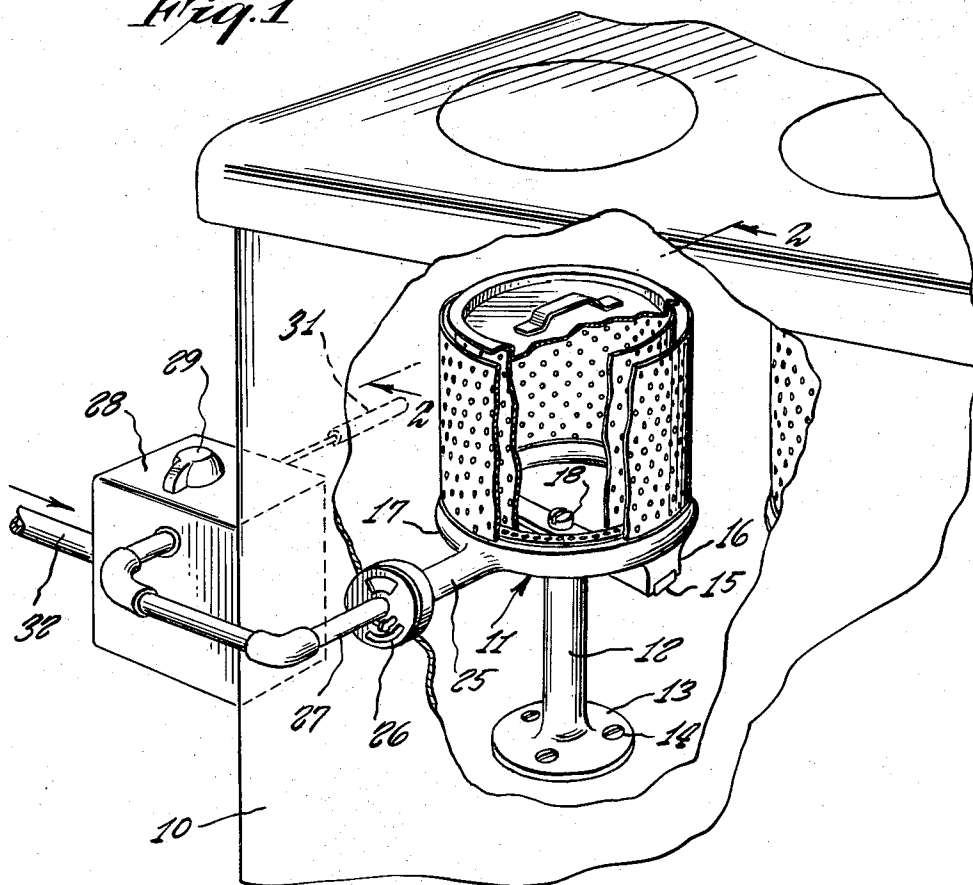
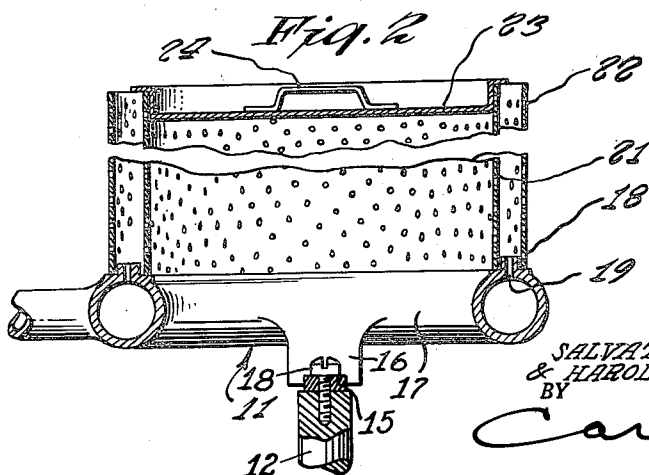
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2,597,062

INTERNALLY FIRED SHEET METAL GAS BURNER

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Fig. 1



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INTERNALLY FIRED SHEET METAL GAS BURNER

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1 Claim. (Cl. 158-99)

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This invention relates to a gas burner unit for stoves.

It is an object of the present invention to provide a gas burner which can be supported in an ordinary kitchen stove to convert the stove into a gas burning range and wherein the burner ring is supported on a pedestal fixed to the bottom of the stove and is supported on the pedestal by means of a transverse bar fitted into depending projections on the ring.

Other objects of the present invention are to provide a gas burner unit for stoves which is of simple construction, inexpensive to manufacture, easy to install in the stove, easy to control, and efficient in operation.

For other objects and for a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawing, in which:

Fig. 1 is a perspective view of a stove broken away to show the burner unit embodying the features of the present invention.

Fig. 2 is a vertical sectional view taken on line 2-2 of Fig. 1.

Referring now to the figures, 10 represents a stove in which our burner unit, indicated generally at 11, is installed. The burner unit comprises a pedestal 12 having a round base 13 which can be attached by screws 14 to the bottom of the stove. On the upper end of the pedestal 12 there is mounted a transverse member 15 which can be pivoted and be moved laterally to a desired position to receive a slotted depending projection 16 of a gas ring or manifold 17. The transverse member 15 is secured to the top of the pedestal by a bolt 18 and about which the transverse member 15 can be adjusted.

The ring 17 has a raised portion 18 through which outlets 19 extend to emit gas between concentric and perforated sleeves 21 and 22. A cover 23 having a handle 24 may be rested upon the internal sleeve 21 to confine the burner flame to an annular shape leaving the upper ends of the sleeves.

A neck 25 extends from the ring 17 and has

an adjustable air inlet chamber 26 thereon. A pipe 27 extends through the neck 25 and the chamber 26 and into a thermal control unit 28 which can be controlled or adjusted by a button 29. A thermally responsive element 31 extends from the control 28 to a point near to the flame. An inlet pipe 32 enters the control 28.

While various changes may be made in the detail construction, it shall be understood that such changes shall be within the spirit and scope of the present invention as defined by the appended claims.

Having thus set forth and disclosed the nature of our invention, what is claimed is:

A gas burner unit for stoves comprising a pedestal and a horizontal member, a gas burner manifold ring having upwardly directed ports and depending projections, the latter having recesses receiving the said horizontal member, the latter supporting thereby the gas burner manifold ring, concentric perforated sleeves supported upon the manifold and extending upwardly therefrom on opposite sides of said ports, and a pivot bolt securing the horizontal member to the pedestal substantially in the center of said gas burner manifold ring and a neck portion extending from the latter, a gas inlet extending into said neck portion, and an adjustable air inlet member about the gas inlet and secured to the neck portion.

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