Oct. 31, 1939. S. W. GEORGE 2,177,824

STOVE TOP CONSTRUCTION

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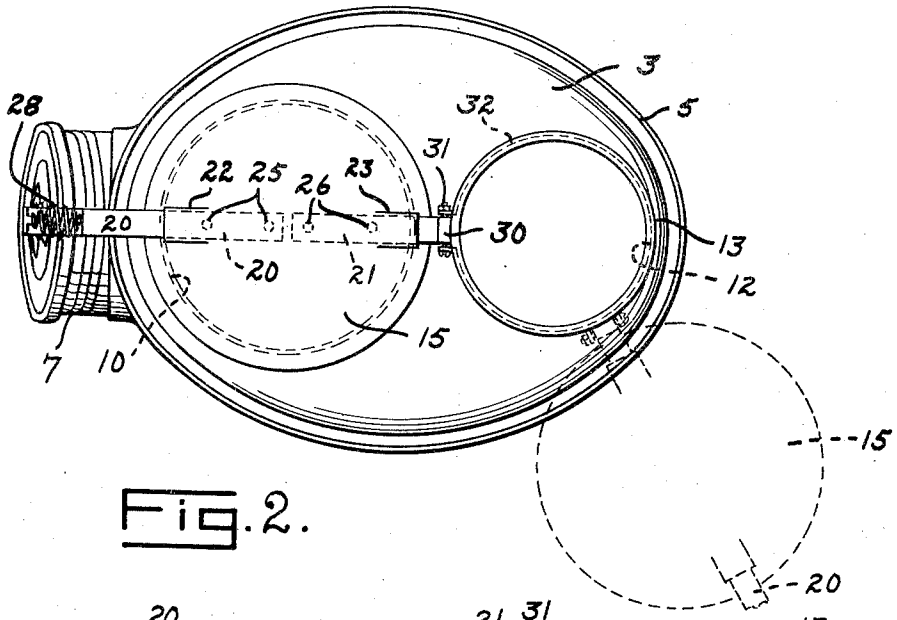

Fig. 2.

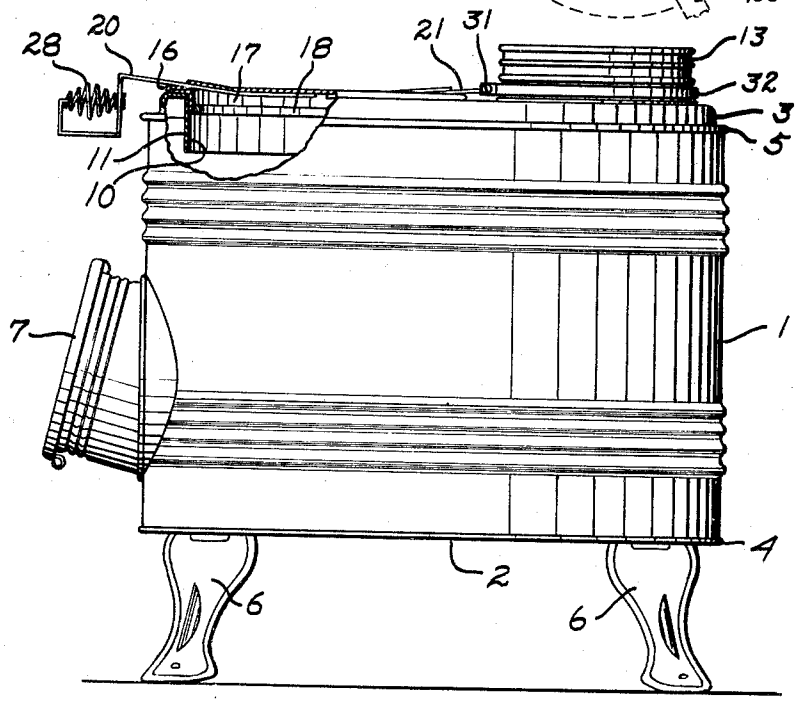

Fig. 1.

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STOVE TOP CONSTRUCTION

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7 Claims. (Cl. 126—217)

The invention relates to a stove and particularly to a top construction therefor.

It is an object of the invention to provide a construction which may be readily embodied in sheet metal stoves.

Another object is to provide a stove top construction which is simple, which may be economically formed and which may be opened by a simple movement of the hand.

Still another object is to provide a stove top including a cover which is swingable about an axis spaced from its center and which therefore permits complete uncovering of the opening in the top.

It is an object also to provide a stove cover or lid having a handle which passes through such cover and is secured thereto to provide a rigid construction and at the same time to provide a smooth top construction.

A more specific object is to provide a stove top having a cover which is swingable about the flue outlet of the stove.

Other objects, together with the foregoing will be apparent from the following description taken in connection with the drawing in which:

Fig. 1 is an elevation of a stove in which the construction of the invention is embodied.

Fig. 2 is a plan view of the construction shown in Fig. 1.

In the drawing a stove embodying the invention is shown as comprising a body 1 to which a bottom 2 and top 3 are secured by beaded or crimped edges 4 and 5. This construction is supported by means of suitable legs 6 and there is provided in the body a draft regulator and cleanout opening, generally indicated as 7. The top 3 comprises a special construction which embodies the essential features of the invention.

The top 3 has an opening 10, a downwardly extending flange 11 being provided integral with the surrounding metal whereby a stiff construction is provided even though the metal of the top is relatively light material. A second opening 12 is provided in the top and a flue outlet 13 to receive the stove pipe, and hence serve as a pipe base or connection, is secured therein by means of double crimped flanges which engage the bottom and top surfaces of the metal about the opening 12. This construction likewise enhances the stiffness of the structure and at the same time provides a connector for the stove pipe as well as a pivot for the stove lid, as will more fully appear.

The opening 10 receives a circular lid 15 formed of a single piece of sheet metal having its peripheral edge tightly crimped at 16, the inner portion of the crimped metal being flanged to provide a downwardly extending wall 17 which telescopically fits within the flange 11 about the opening 10. This lid construction is such that it is sufficiently rigid to support cooking utensils and similar articles, even though the element is formed of relatively light material. To further stiffen the lid 15 peripherally a ring 18 is secured to the wall 17 as by spot welding or the metal of the wall may be beaded about this ring in a manner well known in the art.

The lid 15 is further strengthened by reinforcing members 20 and 21. U-shaped slots 22 and 23 are formed in the lid and the metal within these slots is displaced upwardly so that the members 20 and 21 may be inserted within the openings so provided and lie closely adjacent the nether surface of the lid. These members are secured to the lid as by spot welds 25 and 26. It is to be understood that while members 20 and 21 are shown as separate members it is contemplated that a single member only may be used without departing from the invention if such construction be deemed desirable.

Reinforcing member 20 extends outwardly from the lid 15 and terminates in a handle portion 28 which is so designed that it will remain sufficiently cool that the lid may be manipulated by the bare hand. Reinforcing or attaching member 21 extends oppositely from the handle 20 and has a loop 30 formed on its end to receive a bolt 31 which passes through the flange ends of a pivot ring 32 surrounding the flue outlet 13. The ring 32 is of such size that when the member 21 is pivotally connected thereto by means of the bolt 31, the ring may rotate about the flue outlet, which in this manner forms a pivot member.

It is believed apparent that the lid 15 may be lifted by means of the handle 28 and pivoted upon the bolt 31. In this manner the lid may be lifted to a substantially vertical position or, if desired, the lid may be lifted until the wall 17 clears the surface of the top 3 whereupon the lid may be swung sidewardly to any suitable position as is indicated in dotted outline in Fig. 2.

What is claimed is:

1. A stove construction comprising a sheet metal top having an opening, a downwardly extending flange within said opening, a relatively flat lid having a downwardly extending wall spaced from the periphery thereof and adapted to fit within said flange, a reinforcing member secured to the lid and extending outwardly

therefrom, a flue outlet secured to the top adjacent the opening and extending upwardly from the top, a pivot ring surrounding the flue outlet to move thereabout in a horizontal plane, and a pivot connection between said ring and reinforcing member whereby the lid may be lifted from within the opening and swung about the axis of the flue outlet.

2. A stove construction comprising a sheet metal top having an opening, a relatively flat lid having a downwardly extending wall spaced from the periphery of the lid and adapted to fit within the opening, a reinforcing member secured to the nether surface of the lid and extending outwardly therefrom, a flue outlet secured to the top adjacent the opening and extending upwardly from the top, a member pivotally mounted on the flue to move thereabout in a horizontal plane, and a horizontal pivot connection on said member to which the end of the reinforcing member is attached so that the lid may be lifted from within the opening.

3. A stove construction comprising a top having an opening, a relatively flat lid adapted to fit within said opening, a flue outlet adjacent said opening and secured to the top, an attaching member secured to the lid and extending outwardly therefrom, and a pivot member surrounding the flue outlet and pivotally connected to said attaching member whereby the lid may be lifted from the opening and swung about the flue outlet to uncover said opening.

4. A stove construction comprising a metal top having an opening, a lid adapted to cover said opening, a reinforcing means attached to the lid and extending outwardly therefrom, a member pivotally connected to the top at a point spaced from said opening and a pivot connection between the reinforcing means and the member, whereby the lid may be lifted and swung sidewardly to uncover the opening.

5. In a stove construction, a lid, an opening in said lid, a hinge member secured to the nether side of the lid and extending outwardly through the opening, and a hinge connection at the outer end of said member.

6. In a stove construction, a lid, spaced openings therein, reinforcing means secured to the nether side of the lid and extending outwardly through the openings, and a handle and hinge connection formed upon the respective outer ends of said reinforcing means.

7. A sheet metal stove lid comprising a flat top portion, a downwardly crimped peripheral edge on said lid, a downwardly extending wall on the lid adjacent said crimped edge, and a reinforcing member extending transversely of the lid, said member passing through the top portion adjacent the opposite crimped edges and being fastened to the nether side of the lid.

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