Sept. 18, 1928. 1,685,030

J. LAVOIE

COMBINED SADIRON AND HEATER

Filed March 8, 1926 2 Sheets-Sheet 1

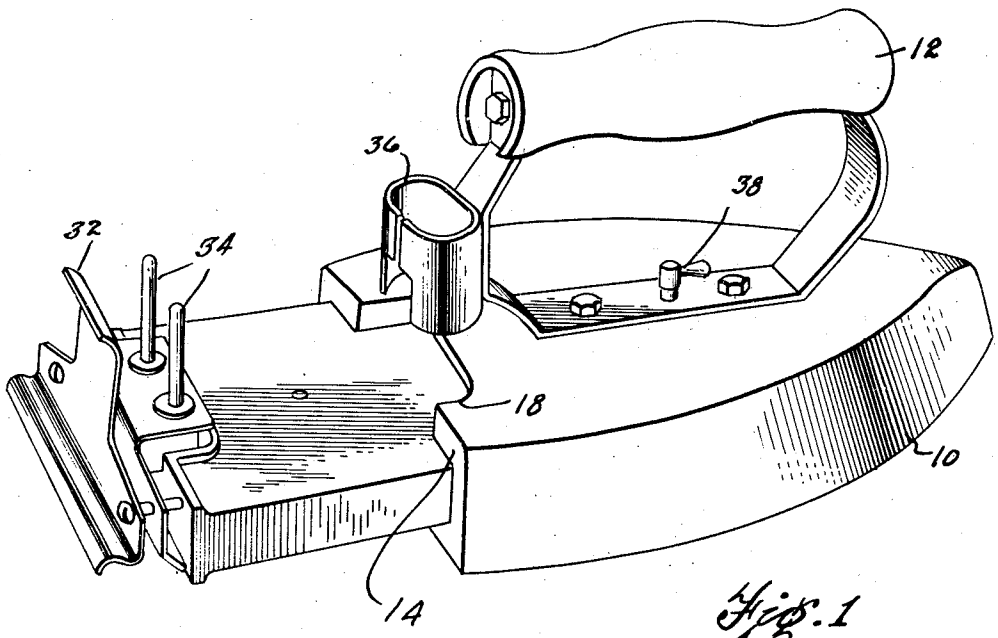


Fig. 1

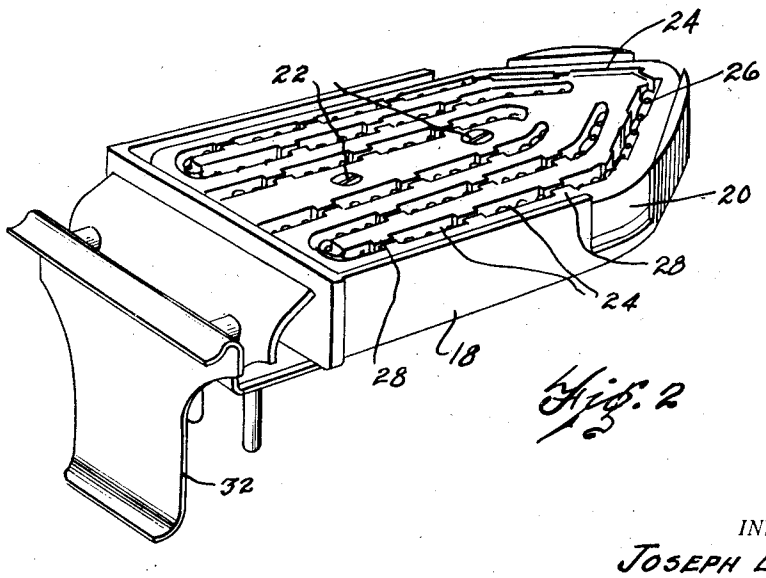


Fig. 2

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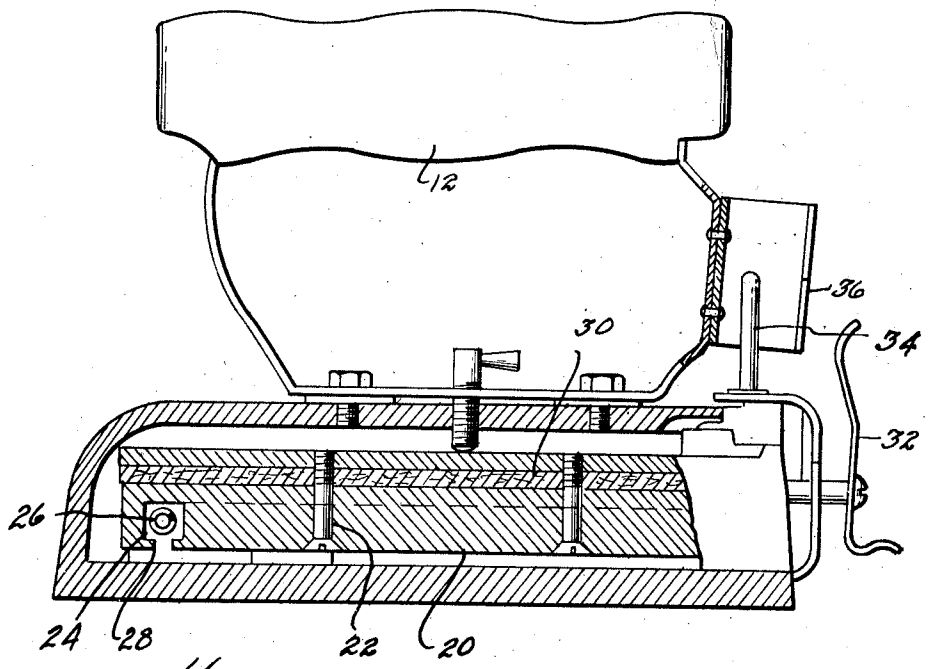


Fig. 3

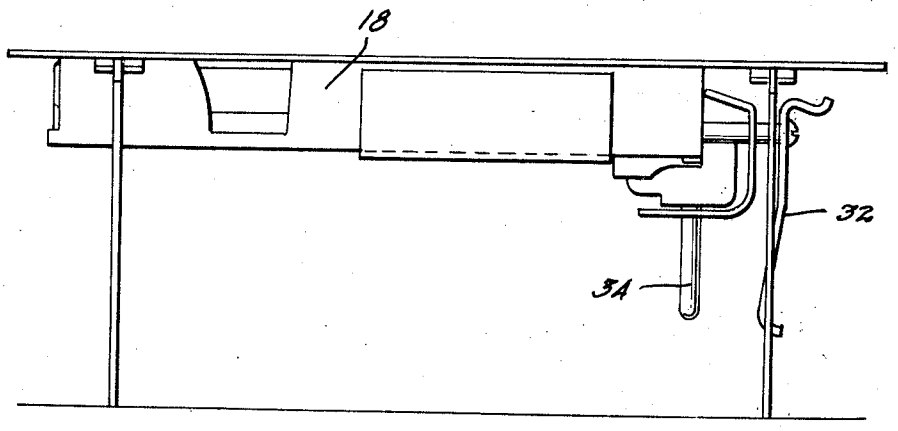


Fig. 4

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UNITED STATES PATENT OFFICE.

JOSEPH LAVOIE, OF DETROIT, MICHIGAN, ASSIGNOR TO EZRA H. FRYE, TRUSTEE, OF DETROIT, MICHIGAN.

COMBINED SADIRON AND HEATER.

Application filed March 8, 1926. Serial No. 93,123.

My invention relates to an improved combined sad iron and heater, and reference is hereby made to my Patent No. 1,491,147, and pending application filed October 5, 1925.

The object is to provide an improved combined electric sad iron and heater adapted to serve all the purposes of an electric sad iron and in addition provided with a removable heating element adapted to be employed as a heater or cooker when removed from the sad iron shell. My improved combined sad iron is particularly adapted for use in small city apartments and other places where space is limited. It is small and compact and possesses an attractive appearance. It has a minimum number of parts to get out of order and is of strong, durable construction.

The several objects and advantages of my improvement will more fully appear from the following description of the illustrative embodiment thereof shown in the accompanying drawings and defined in the appended claims.

In the drawings,—

Figure 1 is a perspective showing my improved sad iron with the heating element partially removed.

Fig. 2 is a perspective of the heating element removed and in the reverse position.

Fig. 3 is a longitudinal sectional view through the iron.

Fig. 4 is an elevation of the heating element supported by a suitable stand for use as a cooker.

I provide a sad iron shell of the conventional generally triangular shape indicated as 10 having a handle 12 secured to its top wall. The shell is hollow and open at its broad end 14. The top wall of the shell is recessed at 16, the recess extending inwardly from the broad end toward the handle.

I provide an electric heating element of a shape and size adapted to freely fit within the shell by sliding the same through the broad end of the shell. This heating element comprises a metallic frame 18 having a top and sides as indicated in Figs. 1 and 2. A refractory insulation core 20 which may be formed of a porcelain composition is supported within the frame, being held in place by any suitable means such as screws 22. The core is provided with exposed channels 24 within which is disposed a resistance wiring 26 that may be held in place by lugs 28 which are integral parts of the insulation. I prefer to provide a refractory non-heat conducting pad such as asbestos, indicated as 30, disposed between the core and the top of the metal frame.

The frame is provided with a handle 32 disposed at the broad end thereof and a connection adapted to receive an electric plug socket, which connection is indicated as 34 and rises upwardly from the rear end of the frame. The resistance wire, of course, is joined to such connection so as to receive current from the provided source of supply.

A support 36 is secured to the handle superimposing the recess 16 in the top wall of the sad iron shell.

Suitable means are provided to hold the heating element within the shell and I have here shown a thumb screw 38 operable to perform such function.

For ordinary service, as a sad iron, the construction is employed in the usual fashion. The heating element is within the shell and connection is made therewith to a suitable source of current while if the device is intended to be used as a heater or cooker the heating element is removed bodily from the shell and may be supported upon any suitable form of stand. A stand which is capable of performing this function is shown in Fig. 4. This is the stand which is illustrated in my Patent No. 1,491,147 and is here shown merely for the purpose of illustrating a device capable of supporting the element when removed from the shell. When the element is within the shell the resistance wiring is exposed to the bottom of the shell. The element when used as a cooker is reversed in position so that the resistance wiring is exposed on top.

What I claim is:

1. In a sad iron, a hollow generally triangular shell open at the broad end, a heating element shaped to fit within said shell and being bodily insertable and removable therefrom by sliding the same through the broad open end of the shell, said heating element comprising a metal frame of generally triangular shape having a top and sides and provided with a handle at its broad end, a core of refractory insulation disposed within said frame exposed on the bottom, a refractory non-heat conducting plate positioned between said core and

the top of the frame, resistance wiring upon said core exposed at the bottom of the element, and a connection with said wiring extending upwardly from the frame at the broad end thereof, and means extending through the top of the shell engaging said element to releasably hold the same in place within the shell.

2. A sad iron comprising, in combination, a hollow generally triangular shell open at its broad end and the top of which is cut out extending forwardly from the broad end, said shell provided with a handle having a support for an electric connection secured thereto above said cut-out in the top of the shell and a heating element shaped to be received within said shell through its broad open end, said heating element comprising a generally triangular carrier of refractory insulation having resistance wires mounted thereupon and exposed on its lower face and a suitable electric connection mounted upon its broad end to be received within the cut-out in the top of the shell below the electric connection support carried by the handle when the heating element is in place within the shell.

In testimony whereof, I sign this specification.

JOSEPH LAVOIE.