May 31, 1932. L. C. DOANE 1,860,530

ELECTRIC HEATER

Filed Aug. 8, 1929 2 Sheets-Sheet 1

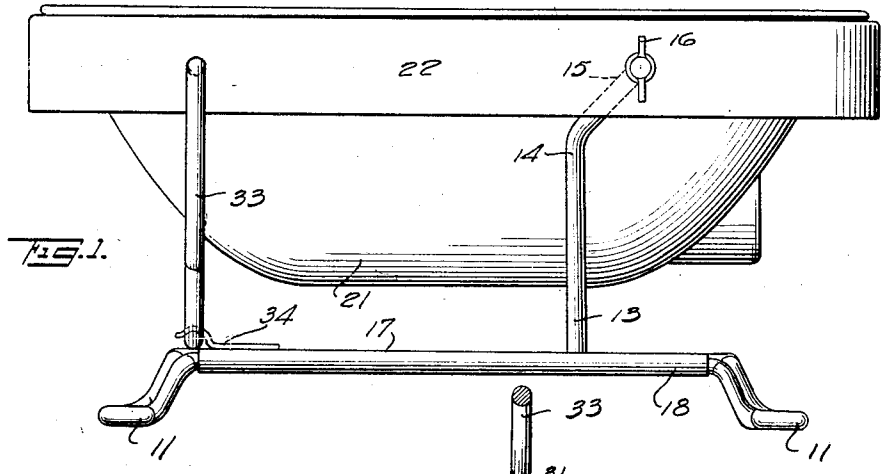


FIG. 1.

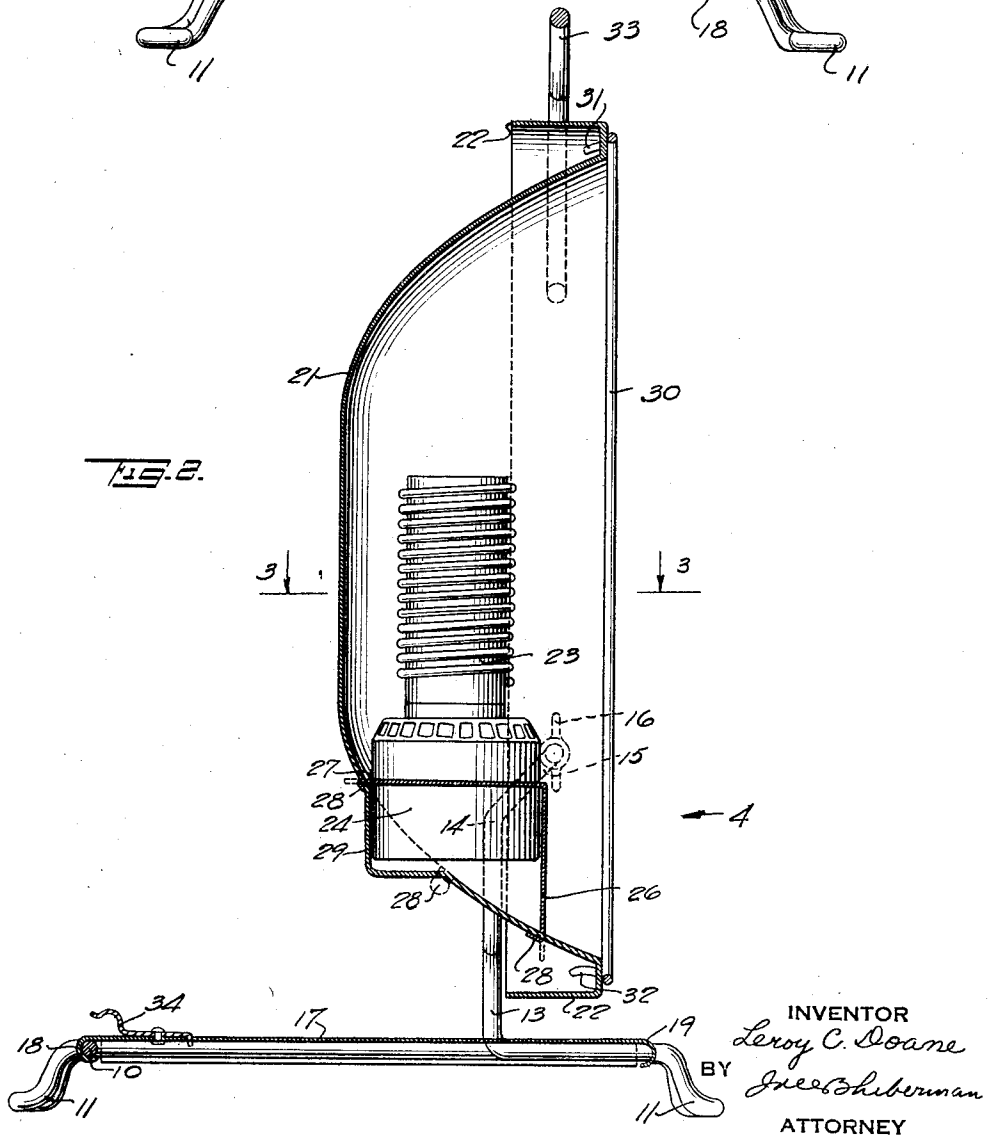


FIG. 2.

INVENTOR
Leroy C. Doane
BY Jacob Liberman
ATTORNEY

May 31, 1932. L. C. DOANE 1,860,530

ELECTRIC HEATER

Filed Aug. 8, 1929 2 Sheets-Sheet 2

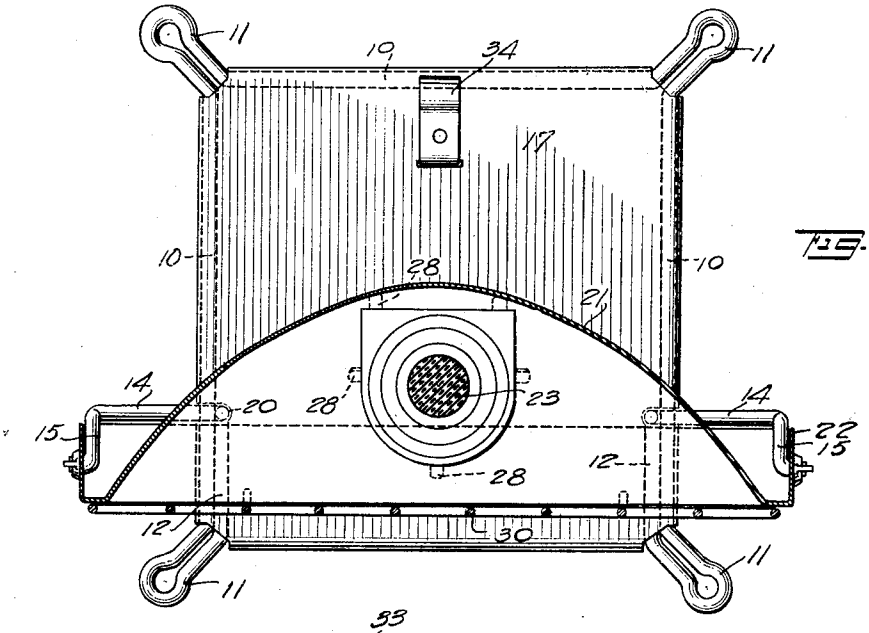


FIG. 3.

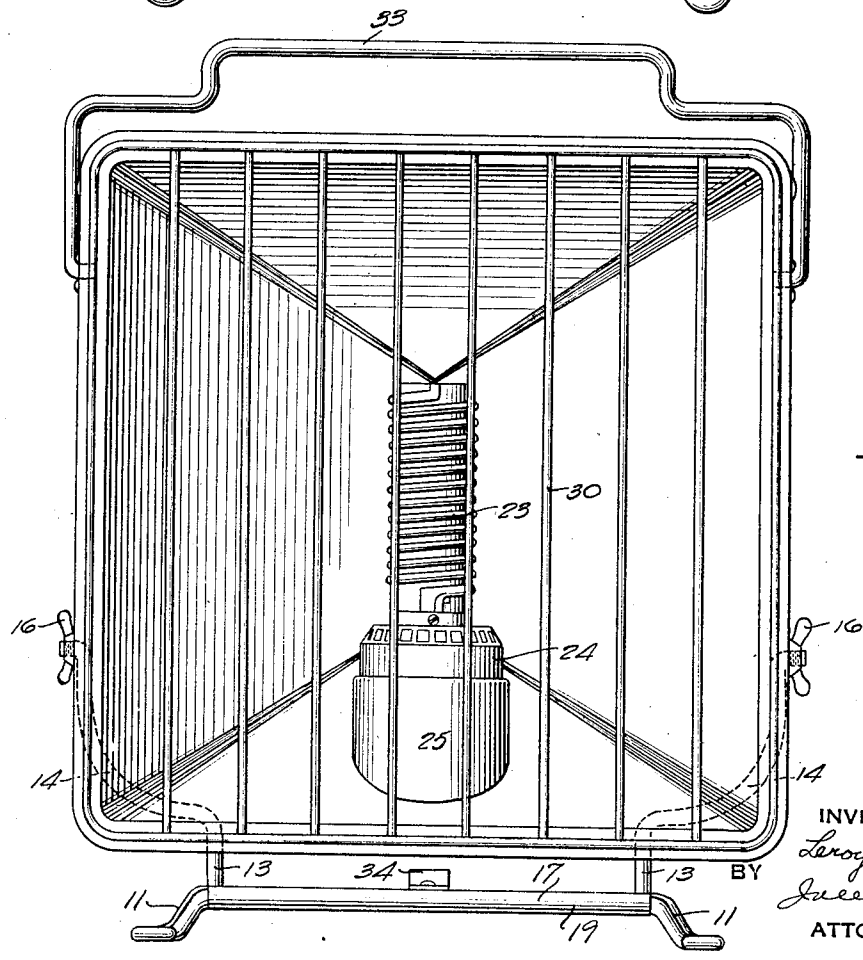


FIG. 4.

INVENTOR
Leroy C. Doane
BY
Jules Shiberman
ATTORNEY

Patented May 31, 1932 1,860,530

UNITED STATES PATENT OFFICE

LEROY C. DOANE, OF MERIDEN, CONNECTICUT, ASSIGNOR TO THE MILLER COMPANY, OF MERIDEN, CONNECTICUT, A CORPORATION OF CONNECTICUT

ELECTRIC HEATER

Application filed August 8, 1929. Serial No. 384,355.

The present invention relates to electric heaters.

The present invention contemplates a portable electric heater which may be readily converted from the form in which it may function as an electric grill to a form in which it may function as a glow heater or radiator.

According to the present invention, the heater is made up in such a manner that when the parts are in one position the heating element is carried underneath a horizontal guard or grate so that the device may be used as an electric stove for heating dishes and the like, while in the other position the heater unit is upright and backed up by a reflector so that the device may be used as a room heater.

An object of the present invention is to provide an electric heater having these and other desirable characteristics which may be constructed out of inexpensive materials and may be arranged to be readily converted from one form to the other.

The accompanying drawings show, for purposes of illustrating the present invention, one of the many possible embodiments in which it may take form, it being understood that the drawings are illustrative of the invention rather than limiting the same.

In these drawings:

Figure 1 is a side elevational view of the electric heater with the parts in position to act as an electric grill;

Figure 2 is a vertical sectional view through the heater with the parts in position to act as an air heater;

Figure 3 is a horizontal sectional view taken approximately on the line 3—3 of Figure 2; and

Figure 4 is a view taken in the direction of the arrow 4 of Figure 2.

According to the form of construction shown in the drawings, the heater has a stationary base provided with uprights which support the movable parts of the device. The base and uprights are, as shown, made out of a single piece of bent wire together with a sheet metal reinforcing plate. The wire member referred to is bent to have three frame forming portions 10 at the sides and rear and four legs or feet 11 at the corners. These legs and feet are formed by doubling the wire member back on itself as indicated. The end portions of the wire behind the front feet may be bent backwardly as indicated at 12—12 and are then bent outwardly as indicated at 14—14 and forwardly as indicated at 15—15 where they are reduced and threaded to receive wing nuts 16.

This bent wire member is held securely in place by a sheet metal platform or plate 17 whose side and rear edges 18 are bent about the wire as indicated in section at the left of Figure 2. The front edge of the bottom plate 17 is bent downwardly as indicated at 19 in Figures 2 and 4 and acts to hold the portions 12—12 of the frame member against movement. The plate is cut away as indicated at 20 to accommodate the upwardly extending portions 13 of the wire member. It will therefore be seen that these two pieces constitute a rigid base or support for the device, the extreme ends of the wire member being above the base in a position to act as trunnions to support the movable parts of the device.

These movable parts, as here shown, consist of a sheet metal pan or reflector pan 21 of suitable size and configuration. This pan has a rearwardly drawn peripheral flange or skirt 22 outside the portions 15 of the wire frame, and apertured to receive the trunnions. A glow heater 23 is carried in a lamp socket 24 which may be of the conventional sign receptacle type having a body 24 and an outer ring 25. The body 24 of the sign receptacle is held in place by a fitter 26 having a ring 27 to receive the sign receptacle. This fitter 26 has prongs 28 passed through openings in the stamping 21 for the purpose of securing the fitter and sign receptacle in place. To accommodate the sign receptacle, the stamping 21 is drawn outwardly as indicated at 29. The glow heater 23 is covered by a protective guard 30 made of wires and detachably secured to the stamping 21 by prongs or other devices 31 and 32 which are carried by the stamping 21.

A bail or handle, also made of bent wire, is shown at 33. It is pivoted to the flange 22

and may act as a handle with which to carry the heater, or when the heater is used for a grill, the bail is caught under a clip 34 where its acts as a support for the movable part.

From the foregoing it will be apparent that the electric heater shown herein is well suited for the purposes intended and that it can be made in a strong rugged manner out of easily worked materials. The same device fills two purposes, and it can be readily taken apart for cleaning or replacement of the heater unit.

It is obvious that the invention may be embodied in many forms and constructions, and I wish it to be understood that the particular form shown is but one of the many forms. Various modifications and changes being possible, I do not limit myself in any way with respect thereto.

What is claimed is:

In an electric heater, a dish-shaped stamping, a sign receptacle secured thereto by a fitter in a position to receive a glow heater, a glow heater in the sign receptacle, a guard over the face of the stamping, a base to which the stamping is pivotally secured to swing about a horizontal axis above the base, and a bail carried by the stamping in a position to engage the base and support the stamping in a horizontal position.

Signed at Meriden in the county of New Haven and State of Connecticut, this 5th day of August, 1929.

LEROY C. DOANE.