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M. MURPHY

ELECTRIC TOASTER

Filed June 16, 1925

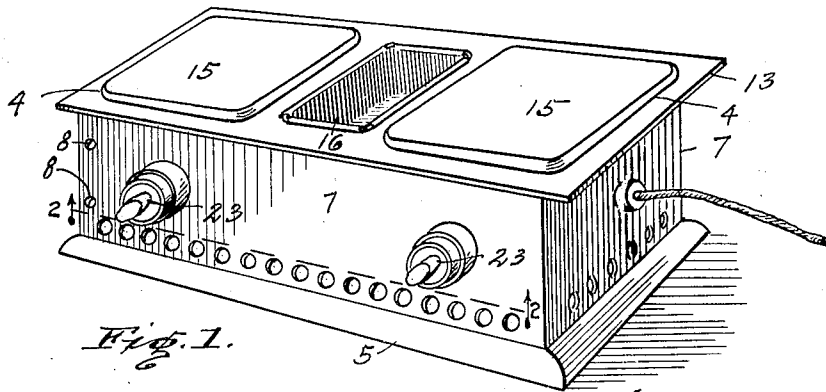


Fig. 1.

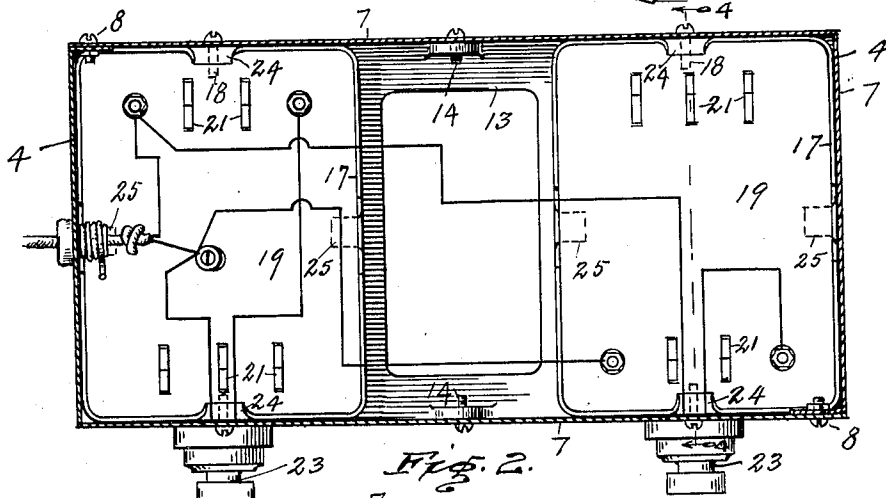


Fig. 2.

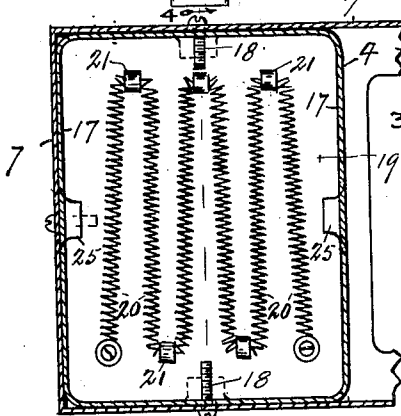


Fig. 3.

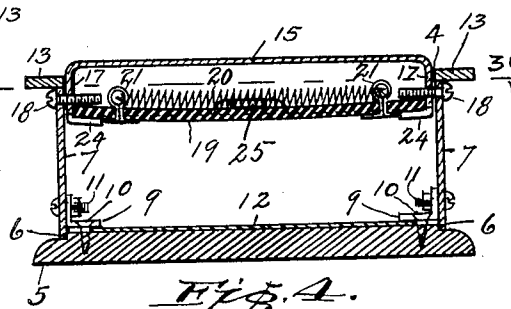


Fig. 4.

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UNITED STATES PATENT OFFICE.

MORTON MURPHY, OF RUSHVILLE, INDIANA.

ELECTRIC TOASTER.

Application filed June 16, 1925. Serial No. 37,453.

To all whom it may concern:

Be it known that I, MORTON MURPHY, a citizen of the United States, residing at Rushville, in the county of Rush and State of Indiana, have invented certain new and useful Improvements in Electric Toasters, of which the following is a specification.

The object of this invention is to provide an electrically heated toaster for toasting sandwiches, and the like, which will be convenient to use, handsome in appearance, cheap to manufacture, durable, and easily accessible to its interior for cleaning and repairs.

I accomplish the above, and other objects which will hereinafter appear, by the mechanism illustrated in the accompanying drawing, in which—

Fig. 1, is a perspective view of my invention in its complete assembly, ready for use; Fig. 2, is a horizontal section on the line 2—2 of Fig. 1, looking up; Fig. 3, is a horizontal section of an end comprising one toaster, on the line 3—3 of Fig. 4 looking down, and Fig. 4 is a vertical section on the line 4—4 of Fig. 2.

Like characters of reference indicate like parts in the several views of the drawing.

The device is assembled upon a wooden base 5, which is rabbeted all around near the edges to form a shoulder-stop 6 as a bearing for sheet metal sides and ends 7 which form a rectangular body, here shown as comprising two sheets which are bolted together at diagonally opposite corners by bolts 8. Angle irons 9 are fastened to the base 5 by screws 10 and to the sides 7 by bolts 11. The wooden base is insulated from the heat, above, by a sheet 12, of suitable material.

A metal top 13 has under-side ears with threaded holes for screws 14 by which the top is removably secured to the sides 7. This top has suitable end holes 4, 4, each to receive a hot-plate 15 and accompanying electrical heating element, and between the two is an opening in which a pan 16 for melted butter is removably suspended, from the wired edge of the pan, as shown in Fig. 1.

As the two hot plates 15, 15, and their heating elements are alike, a description of one will suffice for both.

Referring particularly to Fig. 4, it will be seen that the plate 15 has a continuous

depending flange 17, which makes sliding contact with the adjacent sides and end 7, and the plate is held in its operative assembly by screws 18 that pass through the members 7 and screw into threaded holes in flange 17.

Supported by the flange 17, at a suitable distance below the plate 15, is a sheet of insulation 19, preferably asbestos, upon which resistance coils 20 are zig-zagged and are held by eyelets 21, the ends of which are bent up against the under side of the sheet 19. The coils 20 are supplied with electric current by suitable wiring, such as that shown in Fig. 2, and a switch 23 provides means for turning the current on or off.

The asbestos sheet 19 is retained in position by tongues 24, 24, at its ends which are formed from the material of flange 17, and are bent inwardly at right angles for the ends of the sheet 19 to rest upon. It will be noted that the tongues 24 are immediately under two of the screws 18, such that the sheet 19 is held at its ends from displacement either up or down. Additional tongues 25, 25, are also formed out of the material of the flange 17, and are bent inwardly somewhat closer to the plate 15, and bear upon the top of the sheet 19 at such positions that the sheet is slightly sprung or bowed thereunder and is thereby more tightly held in position.

Thus it is apparent that either of the hot plates, with their heating element, are easily and quickly removed to afford access to the interior of the housing for cleaning, or for the cleansing or repair of the hot-plate and heating element, by the removal of three screws 18, of the plate in question. The body may be lifted off of its base by removing the two bolts 11.

The pan 16 may be lifted out and its opening provides a hand-hole for access in cleaning under either or both of the adjacent hot-plates and its location between the two hot-plates insures that the butter in the pan is kept hot and liquid for proper and convenient use.

Having thus fully described my invention, what I claim as new and wish to secure by Letters Patent of the United States, is—

1. In a toaster, a base having a shoulder near its edge, a sheet metal body secured

to the base against the shoulder, a top removably secured to the body and having an opening, a hot-plate with a depending marginal flange said flange making a close fit in the opening of the top, means for removably fastening the flange to the body with the plate above the upper surface of the top, a sheet of electrical insulation assembled in the flange enclosure of the plate at a suitable distance below the plate, means for removably securing the insulation to the flange in bowed condition to hold it in fixed relation therewith and means supported by the insulation for heating the plate by electricity.

2. In a toaster, a body member, a top secured thereto having an opening, a hot-plate with a depending marginal flange the latter making a close fit in the opening, screws passing through the body and flange and projecting inwardly of the flange, a pair of tongues formed out of the flange projecting inwardly of the latter under a pair of said screws, a sheet of electrical insulation assembled in the flange enclosure with two of its opposite edges between a screw and a tongue, a second pair of tongues at right angles to the first two also formed from the flange contacting the top side of the insulation sheet and electrical

resistance heating coils secured to the insulation sheet for heating the plate.

3. In a toaster, a body-member closed on all sides and bottom, a top-closure having two hot-plates located therein and having a hole between the two plates and a butter holding pan removably secured in said hole and heated by the hot-plates on both sides.

4. In a toaster, a sheet metal body-member, a top having an opening, a hot-plate having a depending integral marginal flange which makes a close fit in the opening, screws passing through the body and the flange and projecting an appreciable distance inwardly of the flange, a pair of tongues formed out of the flange and projecting inwardly of the flange under a pair of said screws, a sheet of electrical insulation assembled in the flange-enclosure with two opposite ones of its edges impinged between a screw and a tongue, a second pair of tongues at right angles to the first two also formed from the flange under which the sheet of insulation is bowed, resistance coils mounted on the sheet of insulation and means for passing an electric current through the coils.

In testimony whereof I affix my signature.

MORTON MURPHY.