July 27, 1926. 1,594,320

M. NESSIF

ELECTRIC STOVE

Filed Feb. 11, 1925

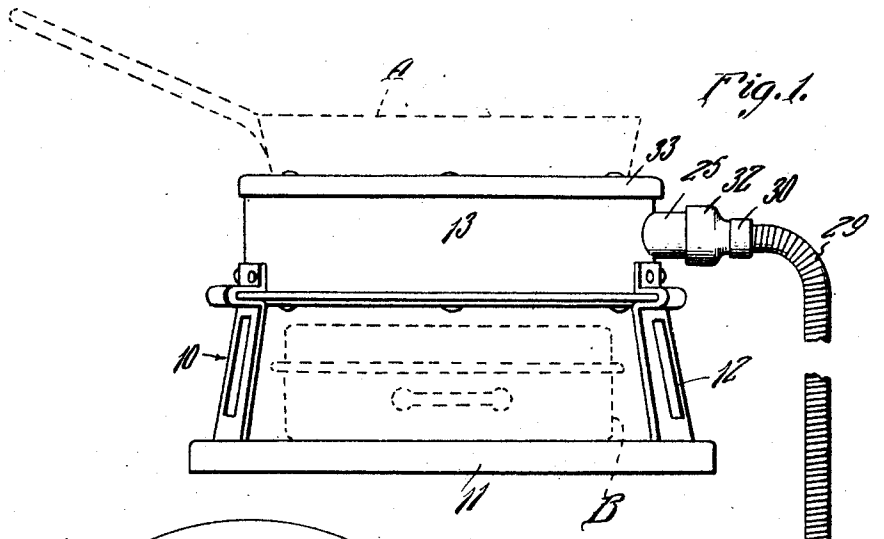


Fig. 1.

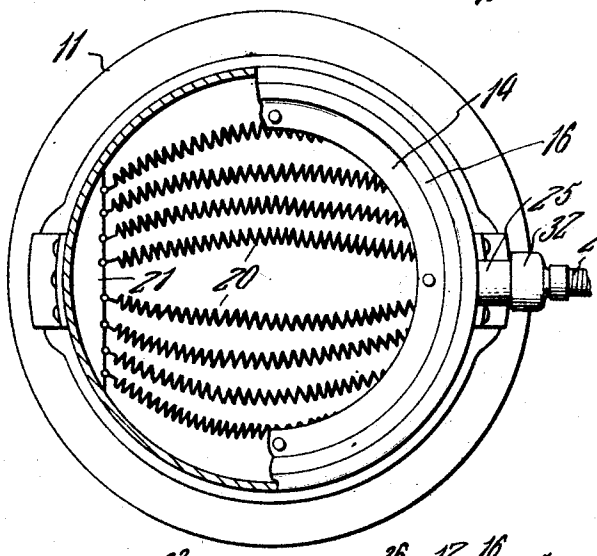


Fig. 2.

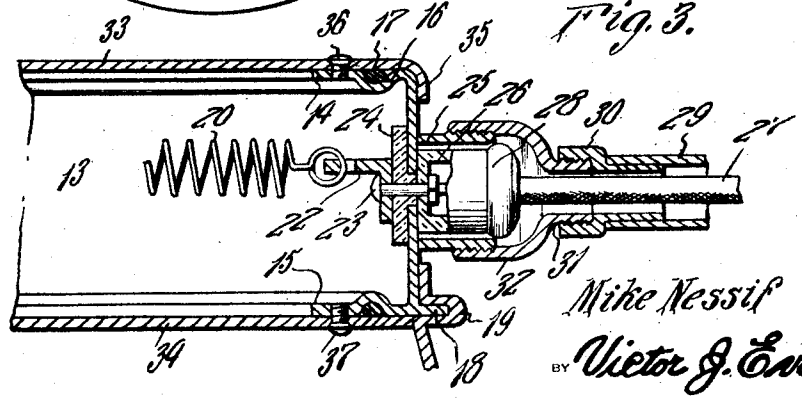


Fig. 3.

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MIKE NESSIF, OF NIAGARA FALLS, NEW YORK.

ELECTRIC STOVE.

Application filed February 11, 1925. Serial No. 8,551.

This invention relates to electrical heating apparatus and has for its object the provision of a novel stove which may be used for cooking or which may be immersed within water in a bathtub, kettle or the like for the purpose of effecting heating of the water.

An important object is the provision of a device of this character in which the heating unit itself is so constructed and arranged as to be made watertight so that water cannot gain access to the heating coils, contacts or other parts of the mechanism when the heating device is immersed within water.

Yet another object is the provision of a device of this character in which the heating unit is provided with removable covers which will, however, when in place fit in a waterproof manner.

An additional object is the provision of a device of this character which will be simple and inexpensive in manufacture, easy to use, positive in action, efficient and durable in service, and a general improvement in the art.

With the above and other objects and advantages in view, the invention consists in the details of construction to be hereinafter more fully described and claimed, and illustrated in the accompanying drawings in which:

Figure 1 is a side elevation of the complete device,

Figure 2 is a top plan view thereof with parts broken away and in sections, and

Figure 3 is an enlarged detail view taken through the point of connecting of the current carrying cable therewith.

Referring more particularly to the drawings, I have shown the device as including a supporting stand designated broadly by the numeral 10, which stand includes a suitable base 11 from which rise uprights 12 carrying the heating unit or stove member.

The heating unit is shown as comprising a cylindrical casing 13 open at its top and bottom and provided at its upper and lower edges with inwardly extending flanges 14 and 15, respectively, which flanges are formed with annular grooves or channels 16 for the reception of a packing 17 of asbestos or the like. The lower edge of the stove or casing 13 is shown as having an outstanding flange 18 engaged within bent portions 19 at the upper ends of the uprights or legs 12. This connection might be removable or, if preferred, the upper extremities of the uprights or legs may be riveted or otherwise secured to the side of the casing 13 as indicated in Figure 1.

Located within the confines of the casing 13 is a plurality or series of coils 20 of suitable resistance wire or other suitable material, which coils are all connected at one end with an anchoring member 21 suitably secured within the casing. At their other ends, all the coils are connected with an anchoring member 22 held in place as for instance by means of a bolt 23. Both anchoring members must naturally be insulated from the wall of the casing, and for this reason I have illustrated a block or strip 24 of insulating material such as mica or the like. Of course, it is obvious that if it is preferred the anchoring member 21 may not be insulated from the casing but may simply be grounded thereon in order to constitute one of the terminals.

Secured on the outside of the casing 13 at a point opposite the anchoring member 22 is a cylindrical flange member 25 within which is disposed an insulating shell 26 held in place by the above described bolt 23. The current carrying wires 27 which are naturally in loom form carry a terminal 28 which is adapted to be engaged within the shell member 26 or to form a part of this member, one of the wires being connected with the bolt 23. The other wire may simply be grounded on the member 25. In order that the wires may be kept free from water at all times, they are enclosed within a flexible preferably metallic housing 29 which carries a cap 30 screwed or otherwise detachably engaged upon the constricted end portion 31 of a union 32 which is in turn screwed upon the flange member 25. From the above, it will be obvious that when current is turned on it will flow through the wires 27, bolt 23, anchoring member 22 and all of the coils 20 to the anchoring member 21 and back through the metal of the casing to the return wire.

Obviously, the device may be used as above described and a frying pan or other implement designated by the letter A may be placed upon the top of the stove while a baking pan, indicated at B, or other utensil may be disposed beneath the heating device and supported by the base 11. It will be observed that these implements or utensils are

indicated by dotted lines as they form no part of the present invention.

When it is desired to enclose the heating device as for example when intending to place it in a vessel of water for heating the water, use may be made of covers 33 and 34 which are engageable upon the top and bottom, respectively, of the casing 13. The cover 33 has a peripheral flange 35 overlying the edge of the casing and this cover is held in place as for instance by means of a plurality of screws 36. The cover 34 is not flanged but is held in place by similar screws 37.

When the device is to be used for heating water in a bath tub, dish pan or the like, the covers 33 and 34 are applied and held in place by the screws 36 and 37. It will be observed that the above described packing gasket 17 will act to make the joint water tight so that no water can at any time enter within the casing 13 and short circuit the enheating wires.

From the foregoing description and a study of the drawings it will be apparent that I have thus provided a simply constructed, inexpensive and highly efficient stove for cooking or other purposes which is, moreover, so constructed and arranged that it may be emersed bodily within a quantity of water to effect heating thereof.

While I have shown and described the preferred embodiment of the invention, it should be observed that I reserve the right to make such changes in the form, construction and arrangement of parts as will not depart from the spirit of the invention or the scope of the subjoined claims.

Having thus described the invention, I claim:

1. In a stove of the character described, a base, legs rising therefrom, a casing carried by said legs and having its stop and bottom open, a plurality of resistance coils located within the casing for generating heat, a terminal connection on the casing whereby current may be supplied to said coils, and cover members adapted to be engaged upon the top and bottom of the casing to form a water tight receptacle.

2. In a device of the character described, a casing, anchoring members located therewithin at spaced points, one anchoring member being insulated from the casing and the other being an electrical connection therewith, a plurality of resistance coils connected with and bridging the space between said anchoring members, a cylindrical flange on the outside of the casing opposite said insulated anchor member, a terminal member located within said flange, a securing element passing through said insulated anchoring member, through the casing and through said terminal member, conducting wires connected with said terminal member, a flexible housing surrounding said wires, and a union connected with one end of said housing and engaging upon said flange member.

3. In a stove of the character described, a casing having its top and bottom open, a plurality of resistance coils mounted within the casing for regenerating heat, terminal connections for the resistance coils, and cover members adapted to be engaged upon the top and bottom of the casing to form a water tight receptacle.

4. A convertible stove of the character described comprising a casing having its top and bottom open and provided internally with resistance coils for generating heat, cover members detachably engageable upon the top and bottom of the casing for forming a water-tight receptacle, in combination with a supporting stand upon which the casing may be mounted.

In testimony whereof I affix my signature.

MIKE NESSIF.