F. KUHN & F. E. SHAILOR.

ELECTRICALLY HEATED COOKING UTENSIL.

APPLICATION FILED APR. 12, 1915.

1,154,418. Patented Sept. 21, 1915.

Fig. 1.

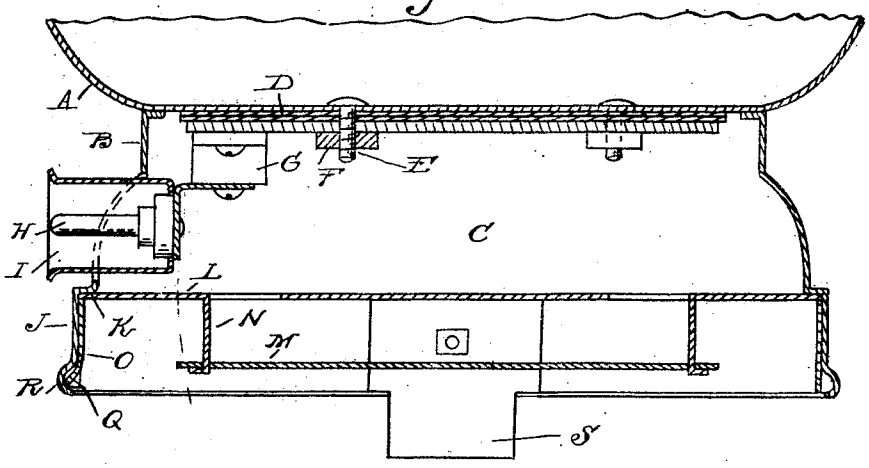


Fig. 2.

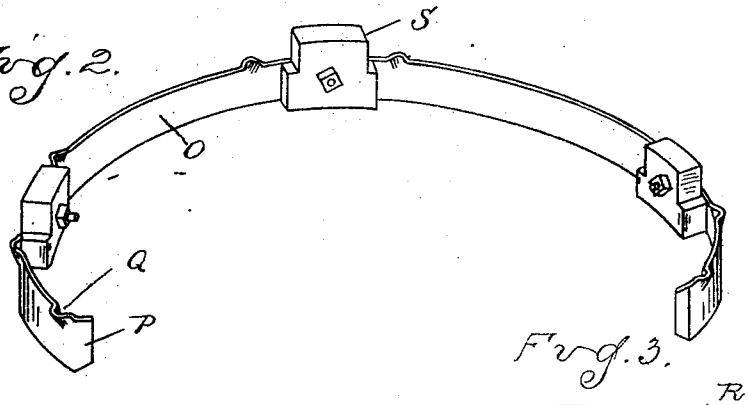
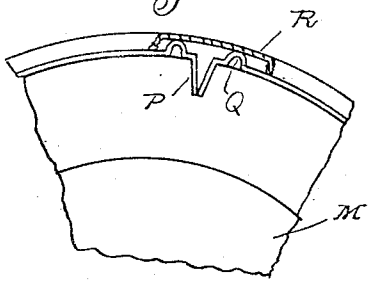


Fig. 3.



Witnesses

W. K. Ford

James P. Barry

Inventors

Frank Kuhn

Frank E. Shailor

By Whittemore Hulbert & Whittemore

Attorneys

NORRIS PETERS INC., LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK KUHN AND FRANK E. SHAILOR, OF DETROIT, MICHIGAN, ASSIGNORS TO AMERICAN ELECTRICAL HEATER COMPANY, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

ELECTRICALLY-HEATED COOKING UTENSIL.

1,154,418. Specification of Letters Patent. Patented Sept. 21, 1915.

Application filed April 12, 1915. Serial No. 20,893.

To all whom it may concern:

Be it known that we, FRANK KUHN and FRANK E. SHAILOR, citizens of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Electrically-Heated Cooking Utensils, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to electrically-heated cooking utensils and is more particularly designed for use as a chafing dish or equivalent device.

The invention has particular reference to the construction of the base which contains the heating unit, and which thermally insulates the same from downward radiation.

In the drawings: Figure 1 is a vertical central section through the utensil; Fig. 2 is a perspective view of the ring for securing the bottom and attaching the legs; and Fig. 3 is a bottom plan view showing the manner of locking the ring.

A is the vessel for containing the material to be heated, and B is a downwardly-projecting skirt which forms beneath said vessel a compartment C for containing the heating unit. This heating unit D is preferably of the flat disk type, and is secured to the bottom of the vessel A by suitable means, such as the studs E and clamping nuts F.

G is an insulator block for the terminal connections, and H are the contact posts mounted on said block and extending outward through an aperture in the skirt into a guide housing I for receiving the conductor plug.

J is an enlargement at the base of the skirt forming a shoulder K against which is placed a bottom plate L for closing the chamber C. There is also preferably a second plate M beneath the plate L, but separated therefrom, being preferably connected by struck-out lugs N integral with the plate L.

For detachably securing the plates L and M in position and for also attaching the supporting legs to the utensil, we have provided a split ring O for engagement with the portion J of the skirt. This ring is formed of resilient material and when closed will exactly fit within the portion J, having inwardly-bent flanges P which come in contact with each other. Adjacent to the lower edge of the ring O portions thereof are struck-outward to form detents Q, which are in engagement with a groove R at the lower edge of the portion J. These detents may be engaged with the groove R by overlapping the ends of the ring when it is first inserted within the portion J, and by then expanding the ring until the flanges P abut against each other, all of the detents will be interlocked with the groove.

The ring O in addition to forming a securing device for the bottom plates L and M also forms a means of attaching the feet S which support the utensil. These feet are bolted or otherwise secured to the ring as shown, and project downward therefrom, so that when the parts are assembled they form a support, holding the skirt out of contact with the table.

With the construction as described, the heat which is generated by the unit D is directly conducted into the bottom of the utensil, while the air space beneath the unit forms an effective heat insulation. Downward radiation of the heat is further prevented by the plates L and M, both of which are preferably formed of material having bright faces, and therefore forming good heat reflectors. If at any time it is desired to obtain access to the unit, all that is necessary is to spring out one of the ends of the ring O, which will permit of detaching the latter and removing the plates L and M.

What we claim as our invention is:

1. An electrically heated utensil, comprising a depending skirt, a heating unit secured to the bottom of said vessel within the space inclosed by said skirt, a false bottom secured within said skirt below said unit, and a split ring for holding said false bottom in position.

2. An electrically heated utensil, comprising a vessel having a depending skirt, a heating unit secured to the bottom of said vessel within said skirt, a closure for the space within said skirt, and means for securing said closure also constituting the support for said utensil.

3. An electrically heated utensil, comprising a vessel having a depending skirt, a heating unit within the space inclosed by said skirt, a closure for the bottom of said skirt,

a split ring for securing said closure, and supporting feet mounted on said split ring and secured thereby.

4. An electrically heated utensil, comprising a vessel having a depending skirt forming a chamber beneath the bottom of the vessel, a heating unit within said chamber, a bottom closure for said chamber, a split ring for securing said bottom closure within said skirt, and a plurality of feet secured to said split ring and connected by the latter to said utensil.

5. An electrically heated utensil, comprising a vessel having a depending skirt with a groove therein, a heating element in the chamber within said skirt, a bottom closure for said chamber, a split ring for fitting within said skirt with its ends abutting, and detents on said ring for engaging said groove.

6. An electrically heated utensil, comprising a vessel having a depending skirt forming a chamber for the heating unit, a closure for said chamber and a securing device for said closure comprising a resilient split ring having inwardly-flanged ends and outwardly-projecting detents, said ring being insertible within said skirt when the ends are overlapped, and said detents engaging locking shoulders in said skirt when the ends of said ring abut.

7. An electrically heated utensil, comprising a vessel having a depending skirt forming a chamber for the heating unit, bottom plates secured to each other at a spaced distance, below the heating unit and forming a closure for said chamber, and means for detachably securing said bottom plates in position.

8. An electrically heated utensil, comprising a vessel having a depending skirt forming a chamber beneath the bottom of the vessel, a heating unit within said chamber, a bottom closure for said chamber, and a split ring for securing said bottom closure within said skirt, said split ring having inwardly-bent flanges at its ends contacting with each other.

In testimony whereof we affix our signatures in presence of two witnesses.

FRANK KUHN.
FRANK E. SHAILOR.

Witnesses:
HARRY W. LUYCKX,
OSCAR A. ECKLIFF.