UNITED STATES PATENT OFFICE.

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SAFETY DEVICE FOR ELECTRICALLY-HEATED COOKING APPARATUS.


Application filed December 23, 1911. Serial No. 687,830.

To all whom it may concern:

Be it known that I, LLOYD GROFF COPEMAN, a citizen of the United States of America, residing at Flint, in the county of Genesee and State of Michigan, have invented certain new and useful Improvements in Safety Devices for Electrically-Heated Cooking Apparatus, of which the following is a specification, reference being had thereunto in the accompanying drawings.

My safety device is located in any position where it will be exposed to heat either conducted or radiated from the chamber, such as shown in Fig. 1 where it is placed in the top of the cabinet. Preferably each lead of the electric circuit is guarded by a fuse, and these fuses are arranged in separate chambers so as to avoid all danger of short circuiting. As illustrated, F is a casing formed of porcelain or other fire proof and electrical insulating material, being of any suitable shape, such, for instance, as an ordinary rosette, G are the electric contacts and H is the fusible connector which is coupled to the contacts G and is inclosed between the upper section F of the rosette and the base F' thereof.

In operation the current supply to the heating unit C normally passes from the leads D through the fuses H which are sufficiently low in resistance to avoid any danger of being electrically blown. When, however, an abnormal heat is developed within the chamber B and is communicated theretofrom to the casing F the fuse links H which are of low melting point, will be broken, interrupting the current and preventing further heating.

What I claim as my invention is:

1. In an electrically heated apparatus, the combination with a heat insulated chamber, of an electric heater therein, an electric circuit in which said heater is connected, and a fusible link included in said circuit of sufficiently high electrical conductivity to avoid fusion from internally generated heat and of relatively low fusing point, said link being positioned on the opposite side of said chamber from said heater and exposed to heat conducted or radiated from said chamber, and adapted to be fused by an abnormal heating of the contents of the chamber.

In testimony whereof I affix my signature in presence of two witnesses.

LLOYD GROFF COPEMAN.

Witnesses:

WM. C. STEWART,

EVERETT L. BEBY.