Oct. 7, 1947. E. E. HOSMER 2,428,625

FUSE CONTAINING ELECTRIC PLUG

Filed May 28, 1946

FIG. 1.

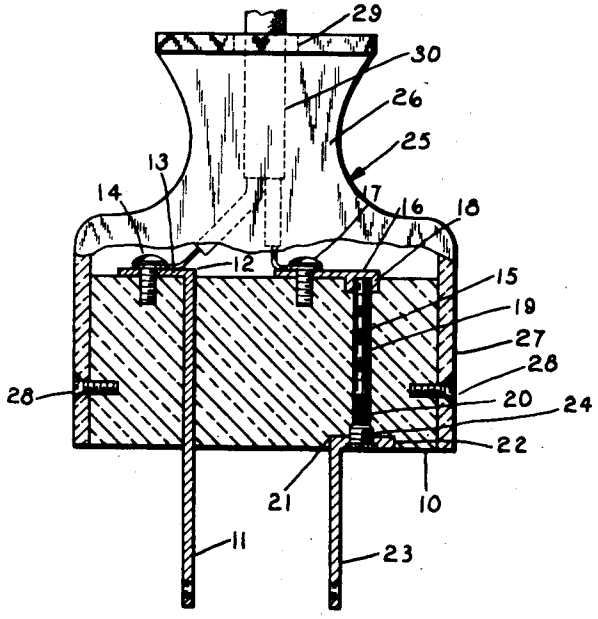
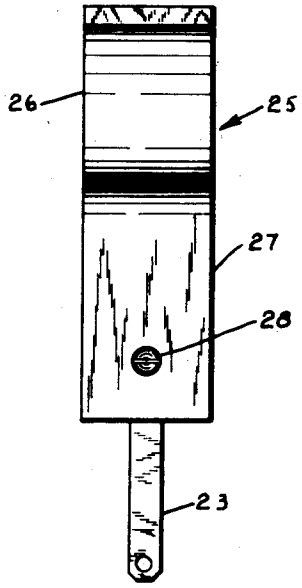


FIG. 2.



INVENTOR.
Elbridge E. Hosmer
BY
McManus Barnes & Davidson

Patented Oct. 7, 1947

2,428,625

UNITED STATES PATENT OFFICE

2,428,625

FUSE CONTAINING ELECTRIC PLUG

Elbridge E. Hosmer, Ridley Park, Pa.

Application May 28, 1946, Serial No. 672,741

1 Claim. (Cl. 200—115.5)

1

My invention relates to electric plugs and more particularly to plugs specially adapted to be attached to feed wires of electric appliances such as fans, refrigerators, washing machines and the like.

The object of my invention is to provide an electric plug which is adapted to protect the main house fuses against being blown out in case of an overload, short circuit or the like, occurring in the appliance to which the plug is attached.

Another object of the invention is to provide a plug adapted to give protection to the electric appliance to the feed wire of which the plug is attached against damage from disturbances on the main electric line.

Other objects of my invention may appear in the following specification describing my invention with reference to the accompanying drawing illustrating a preferred embodiment of my invention. It is however, to be understood, that my invention is not to be limited or restricted to the exact construction and combination of parts described in the specification and shown in the drawing, but that such changes and modifications can be made, which fall within the claim appended hereto.

In the drawing,

Figure 1 is a side view of the plug according to my invention partly shown in section, and

Figure 2 is an end view of Figure 1.

Referring now to the drawing in detail the plug according to my invention has a body block 10 made of any suitable nonconductive material.

This body block is formed to have a rectangular cross-section and a rectangular longitudinal section. It has a vertically extending slot therein through which one leg 11 of an angularly shaped contact member 12 extends. The other leg 13 of said member is comparatively much shorter than leg 11 and rests on top of the body block 10. It has a hole therein through which a machine screw 14 extends. This screw 14 engages the body block 10 threadedly and holds the contact member in position.

The leg 11 of the angular member 12 extends beyond the lower surface of the body block 10 and forms one prong of the electric plug. The slot in the body portion through which this leg extends is located adjacent one of the end surfaces of the body block 10.

A bore 15 extends through the body block 10 adjacent the other end surface thereof. It has a counterbore on its surface end. On its lower end it has a threaded counterbore which ends in a rectangular depression.

2

A contact plate 16 rests on the top of the body block 10 and is fastened thereon by a machine screw 17. It extends over the bore 15 in the body block 10 and has a sleeve forming a socket 18 thereon extending downwardly therefrom into the upper counterbore of the bore 15.

A fuse 19 of the cartridge type is located in the bore 15 and a helical spring 20 is also located in the bore 15 and arranged underneath the fuse 19.

A second angular contact member 21 has a short leg 22 located in the rectangular depression in the under surface of the body block 10. A longer leg 23 of the angular member 21 extends downwardly from the body block 10 and forms the second prong of the electric plug.

A flat head screw 24 engages the thread of the lower counterbore of the bore 15 and the screw head is located in a circular depression in the short leg 22 of the angular member 21 arranged coaxially with the bore 15 in the body block 10, holding the member 21 in position.

The screw 24 engages the helical spring 20 urging this fuse into firm contact with the sleeve 18 on the contact plate 16. To replace the fuse 19 in case of necessity, the screw 24 is removed, so that the spring 20 and the fuse 19 can be easily removed and replaced.

A protector cap 25 has a hollow upwardly extending body 26 having a downwardly extending skirt 27 thereon, which surrounds the body block 10. Countersunk machine screws 28 secure the protector 25 in position on the body block.

A hole 29 is provided in the top of the hollow protector cap 25 and a cable 30 extends through said hole. This is the feeding cable for any appliance to be equipped with the plug according to my invention and is connected with the prongs 11 and 23 by being clamped underneath the heads of the screws 14 and 17.

The above description should make it clear that the use of a plug according to my invention in connection with any electrical appliance will protect this appliance against damage by any overload on or defect in the main electric line and also should protect the main fuses against blow outs in case of defects or overloads on the appliance, because the connection between the appliance and the main line would be broken in any case of overload or defect on either side before any further damage could occur either on the appliance or on the main line.

Having described by invention, I claim as new and desire to secure by Letters Patent:

In an electric plug, a body, a prong extending

through said body, said body having a bore therethrough, a contact plate mounted on top of said body and having a socket positioned in said bore, a second prong mounted on the bottom of said body and having a flange with a hole therein registering with the bore through the body, a screw mounted in the hole in said flange, a cartridge fuse received at one end in said socket, and a compression spring positioned intermediate the other end of said fuse and the screw.

ELBRIDGE E. HOSMER.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,657,799	Kellner	Jan. 31, 1928
1,926,936	Casingena et al.	Sept. 12, 1933
2,232,679	Felke	Feb. 25, 1941