R. G. PHEYSEY.

CONTACT PLUG FOR ELECTRIC IRONS, HEATING APPLIANCES, AND THE LIKE.

APPLICATION FILED AUG. 22, 1907.

911,439. Patented Feb. 2, 1909.

Fig. 1.

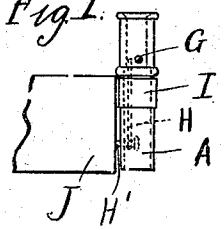


Fig. 6.



Fig. 5.

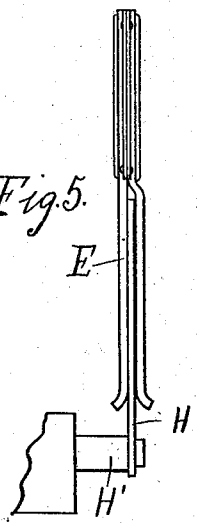


Fig. 2.

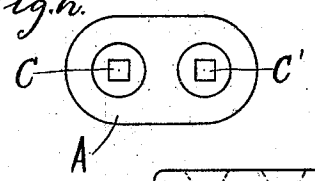


Fig. 3.

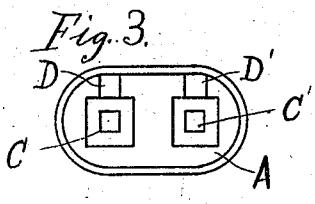


Fig. 4.

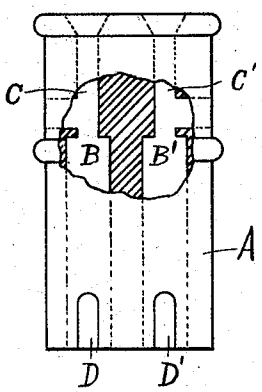


Fig. 7.



WITNESSES

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CONTACT-PLUG FOR ELECTRIC IRONS, HEATING APPLIANCES, AND THE LIKE.

No. 911,439. Specification of Letters Patent. Patented Feb. 2, 1909.

Application filed August 22, 1907. Serial No. 389,652.

To all whom it may concern:

Be it known that I, RICHARD G. PHEYSEY, a subject of Great Britain, residing at Ontario, county of San Bernardino, and State of California, have invented a certain new and useful Improvement in Contact-Plugs for Electric Irons, Heating Appliances, and the Like, of which the following is a specification.

My invention relates to a new and useful improvement in contact plugs for electric irons and the like, and has for its object to provide an exceedingly simple and effective construction of spring clip adapted to engage a binding post or to pass over and contact throughout the entire length of the tongue and thus avoid confusing of the members.

A further object of my invention is to entirely inclose the contact members so as to prevent them making any contact with the damp material which is being ironed and thus forming short circuits, and a still further object of my invention is to cheapen the construction of such contact devices by reducing the parts thereof to a minimum, and so design the same that they may be made from sheet material by automatic machinery.

With these and other ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, I will describe its construction in detail, referring by letter to the accompanying drawing forming a part of this specification, in which—

Figure 1 is an elevation of a portion of an electric iron showing my improved contact plug attached thereto. Fig. 2, a top view of the plug. Fig. 3, a bottom view thereof. Fig. 4, a side elevation, a portion thereof being broken away to show the recesses therein. Fig. 5, an enlarged view of one of the spring clips in contact with its tongue. Fig. 6, a top view of the spring clip. Fig. 7, an edge view of one of the spring clips adapted to engage a binding post.

In carrying out my invention as here embodied, A represents the plug, which is made of any suitable insulating material preferably porcelain, having molded therein the recesses B and B′, with which the square holes C and C′ connect, said holes being flared at their upper ends as shown in dotted lines in Fig. 4. Upon one side of this plug at the bottom thereof are formed the slots or channels D and D′, which lead into the recesses B and B′ respectively.

E represents one of the spring clips, which consists of one or two members stamped and bent from sheet metal and riveted together so as to form springs between the lower portions thereof, while the upper portions which come in contact with each other form a hole or socket F, in which is secured one of the contact wires leading from the usual twisted cord. One of these spring clips is secured by means of a screw G in one of the holes C and C′, so that the lower portion of these clips will extend into the recesses B and B′ without touching the walls thereof and in alinement with the slots D and D′.

H represents one of the contact tongues, which is secured in any convenient manner to the terminals H′ of the heating coils within the iron, here not shown, and the spring clips are adapted to pass over and embrace these tongues or binding posts contacting with them throughout nearly their entire length, thus greatly facilitating the passage of the electric current through these contacts and avoiding the liability of sparking or fusing at such points.

In practice, a suitable socket or collar I projects from the rear portion of the iron J and the circuit is made between the line wires and the heating coils within the iron by simply sliding the plug A through this socket or collar, which will guide it into place over the tongues H, causing the spring members of the clips to embrace said tongues or binding posts, as before described. From this it will be seen all of the contact parts and those which would likewise be liable to divert the direction of the current are entirely closed within the non-conducting plug and thus protected.

In Fig. 7 I have shown a slight modification of the spring clips in which the ends thereof are bowed at *a* and flared at *b* thereby especially adapting them for use on round binding posts.

It will be obvious that these devices are

exceedingly simple and cheap of construction and have very little tendency to wear or become disarranged.

Having thus fully described my invention, what I claim as new and useful, is—

1. In combination, an insulating plug having recesses and holes formed therein and also slots leading from said recesses, two spring clips each formed of two members of sheet metal secured together so as to inclose one end of the lead wires, said clips being secured within the holes formed in the plug and extending into the recesses therein, and two tongues or binding posts secured to the terminals of an iron and adapted to project into the plug and between the spring members of each of the clips, as specified.

2. In a device of the character described, a suitable plug, two clips each formed of two pieces of sheet metal secured together in such manner as to provide sockets for the reception of the ends of the lead wires and spring sections, two tongues or binding posts secured to the terminals of the iron and adapted to pass between the spring members of each clip, as specified.

In testimony whereof, I have hereunto affixed my signature in the presence of two subscribing witnesses.

RICHARD G. PHEYSEY.

Witnesses:
T. E. PARKE,
E. C. PARKE.