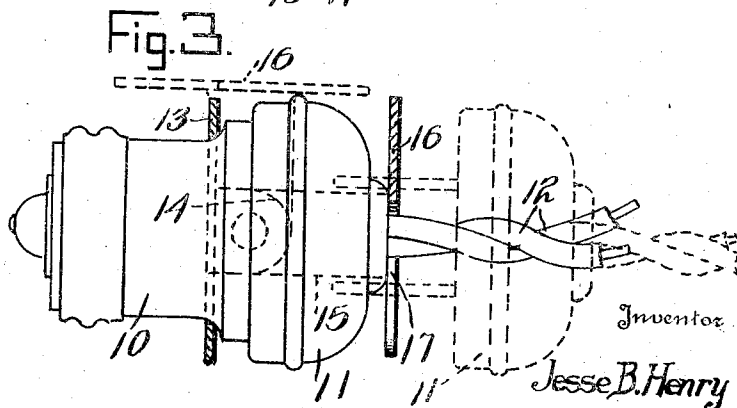
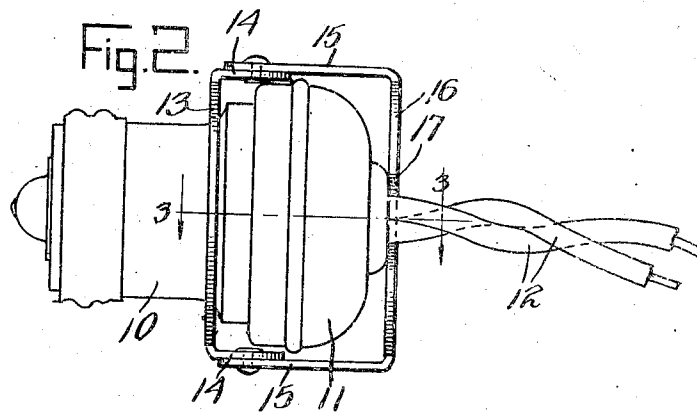
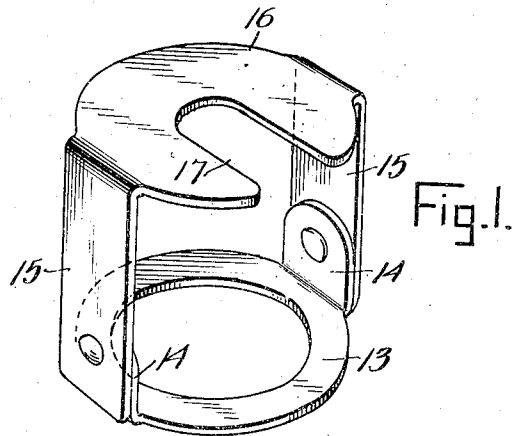


April 3, 1928.

1,665,095

J. B. HENRY
ELECTRICAL PLUG LOCK
Filed Jan. 5, 1927



Inventor

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By

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UNITED STATES PATENT OFFICE.

JESSE B. HENRY, OF CONNERSVILLE, INDIANA.

ELECTRICAL PLUG LOCK.

Application filed January 5, 1927. Serial No. 159,182.

My said invention relates to a lock or fastener for preventing the accidental disconnection of the separable sections of a detachable connecting plug adapted to be inserted in an electric light socket or the like for completing an electrical connection.

It is an object of the invention to provide a lock or fastener of simple and inexpensive construction which may be attached to one of the sections of a connecting plug and which may be moved into engagement with the other section for preventing accidental separation when stress is applied to the conductors or wires connected to one of the sections.

Referring to the accompanying drawings which are made a part hereof and on which similar reference characters indicate similar parts,

Figure 1 is a perspective view illustrating one form of my invention,

Figure 2, a side elevation, and

Figure 3, a section on line 3—3 of Figure 2 showing the parts in their two positions.

In the drawings reference character 10 indicates an electrical screw plug adapted to be inserted in an electric light socket and having a detachable head 11 of the usual construction from which extend electrical conductors 12. As is well-known, a plug of this type is used wherever an extension is desired in the use of various electrical appliances, such as electric irons, vacuum cleaners and the like and considerable annoyance is occasioned by the head 11 pulling away from the plug 10 thus breaking the electrical connection.

In order to prevent the accidental separation of the separable sections of the plug I provide a ring member 13 having diametrically opposed perforated ears 14, such ring being of a size to permit its being readily threaded over the small end of the plug 10, but being sufficiently small to prevent its passing over such end without being rotated, or over the opposite end of such plug. The arms 14 are bent at substantially right angles to the body of the ring and pivotally support arms 15 of a disk 16, such arms being also diametrically opposed and bent at substantially right-angles to the body of the disk permitting the disk to be swung from a position in axial alinement with the opening in the ring to a position substantially 90 degrees removed therefrom and at right angles to the opening in the ring, or per-

mitting the disk to be swung from a position in parallelism with the body of the ring through an arc of substantially 90 degrees to a position substantially at right angles to such ring.

The disk 16 is provided with a slot at one side midway between the arms 15, said slot being of a width sufficient to permit the conductors or wires 12 to pass therinto and extending from the edge of the disk to a point sufficient to permit the wires to pass to a point centrally of the disk. With this structure the ring 13 may be threaded over the plug 10 and when the head of the plug is attached thereto the disk 16 may be swung over behind the head or on the opposite side of the head from the plug 10 whereupon stress applied to the wires 12 will cause the head 11 to engage the disk 16 and be held against being detached from the plug 10. If it is desired to break the connection the disk 16 may be swung to one side out of the way of the head 11, as shown in dotted lines in Figure 3, to permit the head to be withdrawn from the plug.

It will be obvious that my device consists of only two very simple parts and may be produced at a very small cost and sold either in combination with the plug or separately therefrom but the same fills a long felt want in this particular art and various modifications may be made without departing from the spirit of my invention and therefore I do not limit myself to what is shown in the drawings and described in the specification but only as indicated in the appended claims:

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent, is:

1. The combination with an electrical connection formed of separable sections of a ring member arranged to be mounted on one of said sections, and a disk member pivoted on the first member and swingable into and out of position to prevent accidental detachment of the other section, substantially as set forth.

2. The combination with an electrical connection comprising a pair of separable sections, of a ring capable of being slipped over the smaller end of one of said sections, and a member pivoted to said ring and swingable across the other section for permitting accidental separation of said sections, substantially as set forth.

3. The combination with an electrical

- connection comprising separable sections one of which is provided with means for engagement with an electrical socket and having an enlarged portion adjacent thereto, 5 of an element formed to slip over the portion of the section which engages said socket but being held on said connection when the same is connected to the socket, and a member pivoted to said element and swingable 10 over the other section for preventing their endwise accidental separation, substantially as set forth.
4. A device for preventing the accidental separation of the separable sections of a detachable connecting plug comprising a ring 15 for engagement with one end of the plug, and a body pivoted to said ring and swingable to a position at the opposite end of the plug for preventing endwise separation of 20 the sections, substantially as set forth.
5. A device for preventing the accidental separation of the separable sections of a detachable connecting plug comprising a ring for engagement with one end of the plug, 25 and a body pivoted to said ring and swingable to a position at the opposite end of the plug for preventing endwise separation of the sections said body being slotted to permit the electrical wires to pass to the center of the same, substantially as set forth. 30
6. An electrical connection comprising separable sections, a ring surrounding one section, oppositely disposed parallel lugs formed on said ring, a disk having parallel 35 arms pivoted to said lugs and a slot in said disk to permit the electric wires to pass to the center of the same to prevent accidental endwise separation of the sections, substantially as set forth.
7. An electrical connection comprising 40 separable sections, a pivot-carrying ring surrounding one section and a forked member pivoted to said ring and adapted to swing over the other section to prevent accidental separation of the sections, substan- 45 tially as set forth.
- In witness whereof, I have hereunto set my hand at Connersville, Indiana, this 3rd day of January, A. D. nineteen hundred and twenty-seven.

JESSE B. HENRY.