

J. N. MAAS.
 AUTOMATIC CONNECTING PLUG.
 APPLICATION FILED JAN. 19, 1912.

1,053,618.

Patented Feb. 18, 1913.

Fig. 1.

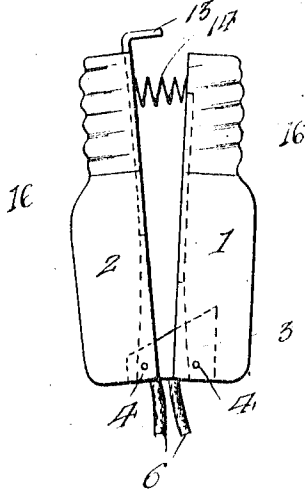


Fig. 2.

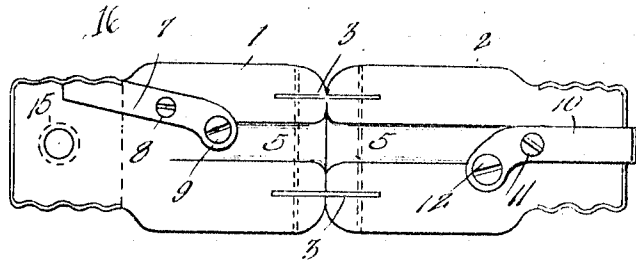


Fig. 3.

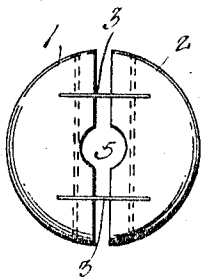
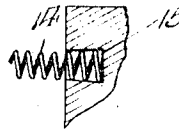


Fig. 3.

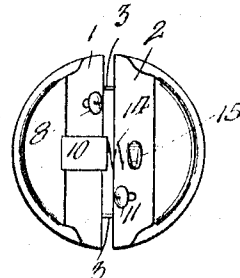


Fig. 4.

WITNESSES

G. W. Spring.
 J. R. Kelly

INVENTOR

John N. Maas.
 By Richard J. Over
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UNITED STATES PATENT OFFICE.

JOHN M. MAAS, OF LOS ANGELES, CALIFORNIA.

AUTOMATIC CONNECTING-PLUG.

1,053,618

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN N. MAAS, a citizen of the United States, and a resident of Los Angeles, Los Angeles county, and State of California, have invented new and useful Improvements in Automatic Connecting-Plugs, of which the following is a specification.

My invention relates to the class of connection plugs and more specifically to that class of connection plugs which are automatic in operation.

An object of my invention is to provide an automatic connection plug which is simple in construction and one which can be easily connected or disconnected to or from an ordinary lamp socket.

Another object of my invention is to provide an automatic connection plug which plug consists of but a few parts thereby obviating the danger of the same getting out of order.

Another object of my invention is to provide an automatic connection plug which, as above stated consists of but a few parts thereby making the same easy and simple to manufacture.

A further object of my invention is to provide an automatic connection plug which is so constructed as to assure its durability and efficiency.

With the above and other objects in view my invention consists in such details of construction and in the arrangement and combination of parts as will be hereinafter more fully described and specifically pointed out in the appended claims.

In describing my invention in detail reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views and in which—

Figure 1 is a side elevation of my invention. Fig. 2 is a plan view showing the sections which compose my invention open. Fig. 3 is a bottom view of my invention. Fig. 4 is a top plan view of my invention. Fig. 5 is a detail view.

In the accompanying drawings which fully illustrate the preferred form of my invention 1 and 2 designate the two sections of my improved plug which sections are pivoted upon the members 3 as shown at 4. Each of the members is provided with the cut out portions 5 into which cut out portions are adapted to be introduced the

electrical conductors 6 as is clearly shown. Pivotally connected to one of the sections 1 is an arm 7 as shown at 8. The arm 7 is provided at its lower end with the binding pin 9 whereby one of the electrical conductors 6 may be connected thereto. The other of the sections 2 is provided with a second arm 10 which is pivotally secured thereto as shown at 11 and is also provided at its lower end with the binding pin 12. This arm extends above the section 2 and is bent as shown in 13 for a purpose that will be hereafter fully described. I further provide a coil spring 14 which coil spring is adapted to be fastened to the member 2 by any suitable means and to enter the cut out portion 15 which is formed in the member 1. Particular stress is laid upon the peculiar construction of the cut out portion 15. It will be readily apparent upon reference to the drawings and particularly to Fig. 5 thereof that the said cut out portion is of such construction that it prevents the easy removal of the coil spring. It will be also recognized that the sections 1 and 2 are pressed apart with the medium of the coil spring and that the said sections may be inserted into sockets of different sizes and held therein by means of the screw threaded members 16.

I desire to lay great stress upon the simplicity of my invention and it is thought that the advantages and novel features of the same will be apparent from the foregoing disclosure.

I desire it to be understood that slight changes in the construction and in the arrangement and combination of the several parts may be resorted to without departing from the spirit of my invention, provided such changes fall within the scope of the appended claims.

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

1. In an automatic connection plug, two sections having their lower ends pivotally connected together, a coil spring interposed between the upper ends of said sections whereby they are held out of engagement with each other and into engagement with the inner periphery of electrical sockets of different diameters when inserted therein.

2. In an automatic connection plug members pivoted together at their lower ends one of said members provided with a cut out

portion near its upper end, a coil spring seated within said cut out portion and adapted to engage the upper ends of said other member whereby they are held out of engagement with each other and into engagement with electrical sockets of different diameters when seated therein.

3. In an automatic connection plug sections having their lower ends pivotally connected together one of said sections provided with a cut out portion near its upper end said cut out portion having a constricted mouth a coil spring seated within said cut out portion and engaging the other of said sections said constricted mouth adapted to prevent the withdrawal of said coil spring from said cut out portion and means whereby the ends of said sections may be received into electrical sockets of different diameters.

4. In an automatic connection plug, two sections having their lower ends pivotally connected together, one of said sections provided with a cut-out portion near its upper end, said cut-out portion having a constricted mouth, a coil spring seated within said cut-out portion and adapted to engage the inner surface of the other of said members whereby they are held out of engagement with each other and into engagement with the inner periphery of electrical sockets of different diameters when inserted therein, said sections provided with longitu-

dinally extending recesses, and members pivoted to the inner surface of said sections, one end of said members projecting into said recesses to which end electrical conductors are connected.

5. In an automatic connection plug, two sections having their lower ends pivotally connected together, one of said sections provided with a cut-out portion near its upper end, said cut-out portion having a constricted mouth, a coil spring seated within said cut-out portion and adapted to engage the inner surface of the other of said members whereby they are held out of engagement with each other and into engagement with the inner periphery of electrical sockets of different diameters when inserted therein, said sections provided with longitudinally extending recesses, levers pivoted at a point intermediate their ends to each of said sections having a binding post secured to their inner ends to which binding post electrical conductors are secured and one of said levers having its outer or upper end projecting a short distance above said sections and bent at right angles so as to form a means of contact with an electrical socket.

JOHN N. MAAS.

Witnesses:

GEORGE H. COOPER,
PAUL FELTEN.