C. HORN.

INDICATING ELECTRIC CONNECTOR.

APPLICATION FILED MAY 18, 1914.

1,229,460. Patented June 12, 1917.

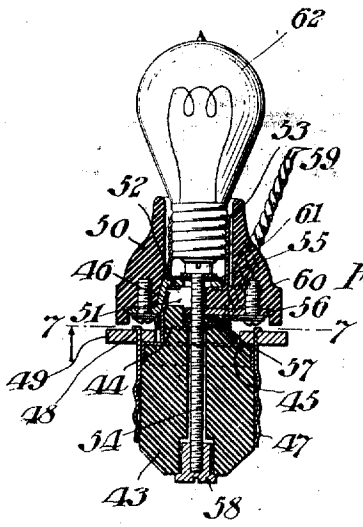


Fig. 1.



Fig. 3.

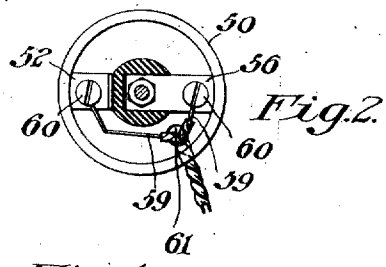


Fig. 2.

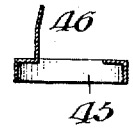


Fig. 4.

WITNESSES:

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CHARLES HORN, OF MILLBOURNE, PENNSYLVANIA, ASSIGNOR, BY MESNE ASSIGNMENTS, TO HARVEY HUBBELL, INC., OF BRIDGEPORT, CONNECTICUT, A CORPORATION OF CONNECTICUT.

INDICATING ELECTRIC CONNECTOR.

1,229,460. Specification of Letters Patent. Patented June 12, 1917.

Application filed May 18, 1914. Serial No. 839,354.

To all whom it may concern:

Be it known that I, CHARLES HORN, a citizen of the United States, residing at Millbourne, Delaware county, Pennsylvania, have invented certain Improvements in Indicating Electric Connectors, of which the following is a specification.

My invention relates to connecting plugs having lamps for indicating the character of the connection and my leading object is to provide improved means for effecting the desired connection and indication.

In the accompanying drawings, Figure 1 is a sectional elevation of an indicating electric conductor embodying my invention; Fig. 2 is a sectional view thereof, taken substantially on the line 7—7 of Fig. 1, looking in the direction of the arrow; Fig. 3 is a plan view of a partly developed contact device to be used in connection with the construction shown in Fig. 1, and Fig. 4 is a sectional view of the developed contact device.

As illustrated in the drawings, an insulating plug 43 is provided with the reduced head 44. A metal ring 45 of angular cross section encircles the plug 43 and the head 44, the ring having a tongue 46 formed integrally therewith and turned up to permit the passage of the head through the ring. A threaded metal sleeve or shell contact 47 is swiveled on the plug 43 and is provided with lugs 48 which pass through and are fixed to the insulating ring 49, which rests on the surface of the ring 45 transverse to the sleeve, the latter being revoluble in contact with the cylindrical part of this ring surrounding the plug.

An insulating cap 50 has a chamber 51 extending therethrough into which the head 44 extends, the cap having the angular contact 52 fixed in the chamber in engagement with the shell contact 53 of the cap and the tongue 46 of the body, said shell closing said chamber. A screw 54 forming a center contact passes through the bottom of the socket 53 and the part of the conductor 52 connected therewith (from which it is electrically separated by the insulating disk 55), thence through the conductor 56 fixed to the cap by a screw 60, the insulating packing 57 on which the part 56 rests, and the plug 43, the parts being drawn together by a nut 58 engaging the end of the screw and the plug, said nut also serving as a center contact for the plug.

Conducting wires 59 are engaged to the conductors 52 and 56 by the binding screws 60, and pass forwardly through the aperture 61 in the cap to a machine connected thereby in parallel with the lamp 62.

Having described my invention, I claim:

1. The combination of an insulating body, a contact comprising a resilient tongue fixed to said body, an insulating cap containing a chamber and a passage, a conductor having an inclined bearing disposed in said chamber in engagement with said tongue, a conductor by which said body and cap are engaged together, wires passing through said passage and connected with said conductors, a socket in said cap, and a lamp in said socket, said socket engaging one of said conductors and said lamp engaging the other of said conductors.

2. The combination of an insulating body, a threaded conducting sleeve swiveled thereon, a conducting ring on said body in engagement with said sleeve, said ring having a conducting member projecting therefrom, an insulating cap containing a chamber, a lamp socket in said chamber, a conductor fixed to said cap in said chamber for connecting said socket with said projecting member, a screw passing through said socket and through said insulating body, a conductor fixed to said cap in said chamber and engaging said screw, wires passing from said conductors through said cap, and a lamp in circuit with said socket and screw.

In testimony whereof I have hereunto set my name this 22nd day of April, 1914, in the presence of the subscribing witnesses.

CHARLES HORN.

Witnesses:
JOS. G. DENNY, Jr.,
C. N. BUTLER.