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E. B. NOWOSIELSKI

BINDING POST FOR ELECTRIC CABLES

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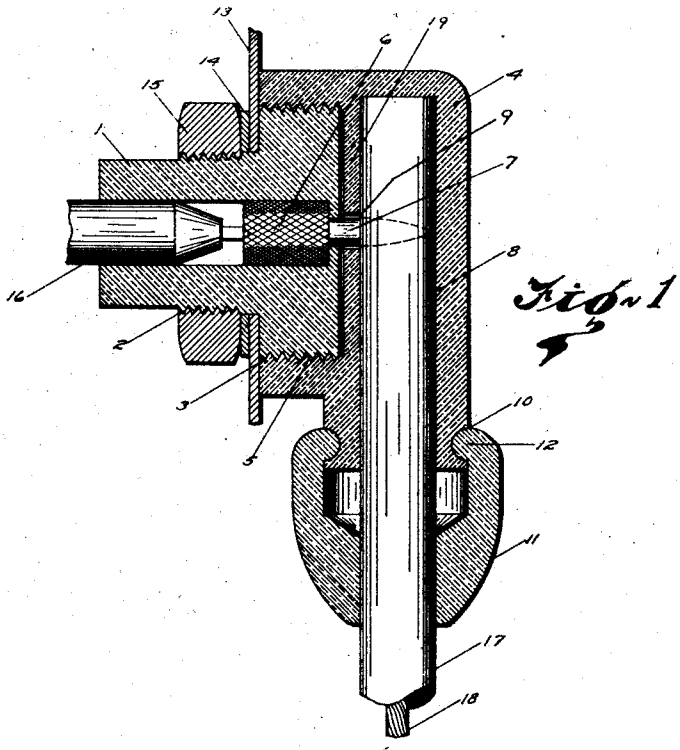



Fig. 1

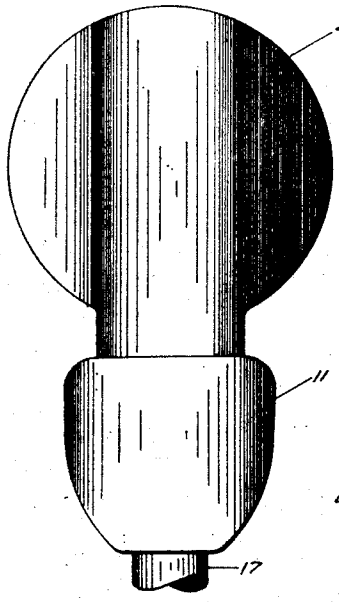



Fig. 2

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# UNITED STATES PATENT OFFICE.

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## BINDING POST FOR ELECTRIC CABLES.

Application filed September 24, 1920. Serial No. 412,441.

*To all whom it may concern:*

Be it known that I, EDWARD B. NOWOSIELSKI, a citizen of the United States, residing at Newark, in the county of Essex, State of New Jersey, have invented certain new and useful Improvements in Binding Posts for Electric Cables, of which the following is a description, reference being had to the accompanying drawing and to the figures of reference marked thereon.

My invention relates to binding posts for electric cables, more particularly those used in connection with ignition apparatus.

The object of my invention is to provide a quick detachable binding post of this type.

A further object is to provide a binding post of this type which permits of quick assembly of the cable and the terminal.

Another object of this invention is to provide a cheap and efficient binding post of the quick detachable type.

Other objects will appear to those skilled in the art from the following description and accompanying drawings, in which—

Figure 1 is a longitudinal sectional view through the binding post, showing the cable in place and the binding post mounted on a frame, and

Figure 2 is a plan view of my binding post, the cable being inserted in place.

My binding post consists of two threaded main portions, a male member 1 threaded at 2 and provided with an enlarged portion threaded at 3 and a female member 4 having a bore threaded at 5, both of high tension insulation material. Moulded within the male member is a roughened metallic pin 6 made of steel or other suitable hard conductive material, the end of this pin being turned down to a smaller diameter as at 7 and tapered to a stiletto point as shown in dotted lines in Figure 1.

The female member has a bore 8 at an angle to the first mentioned bore extending through the major portion of the length of the member into which an insulated cable 17 having a preferably stranded conductor 18 may be inserted.

A hole 9 in a partition wall 19 between the bores is provided for the reception of the point of the pin. The partition 19 is shown moulded integral with the member 4, thereby forming a barrier of insulating material to prevent the high tension current from the conductor 18 jumping out to the mounting plate 13, which it would have a tendency to do through the joint produced by the threads 3 and 5, if the partition were not present. The lower portion of the member 4 is channeled as at 10 and a soft rubber bushing provided with a beaded edge 12 is slipped over the member 4 so as to render the binding post dust and moisture proof when the cable is in place. The male member is clamped to its support as to the framework 13 of a magneto by means of a washer 14 and locknut 15. A quill terminal 16 as from the secondary of an induction coil abuts a slightly hollowed out part of the pin 6 when the male portion of the binding post is in place.

In assembling the two parts of the binding post, the male member being mounted in place on the magneto frame, the cable is first inserted in the bore 8 until it seats against the bottom of the bore then the female member is threaded onto the male member, with the tapered portion of the pin extending through the hole. It is preferable that the cable fits snugly within the bore, so that when the tapered pin penetrates the cable, the spreading of the cable will cause it to be bound tightly against the wall of the bore. As the two members are screwed together, the tapered pin pierces the insulation of the cable and engages the conductive wire therein. Thus a quick and good electrical connection is assured by the mere screwing on of the member 4.

Having thus described my invention what I claim is:

1. A quick detachable binding post comprising a female member provided with a cable receiving bore, another bore at an angle to the same, a partition separating said bores, said partition being formed integral with the female member, an end being provided with a centrally located aperture, a male member of insulating material fitting snugly into the last mentioned bore, a tapered conducting pin embedded within said male member and passing through the aperture in the partition, said male member having an extension to receive and support a conductor in end to end contact with said tapered pin as and for the purpose described.

2. A quick detachable binding post comprising a one-piece female member provided

with a cable receiving bore, another bore at an angle to the same, a partition separating said bores, said partition being formed integral with the female member and provided with a centrally located aperture, a male member of insulating material screw threaded into the second mentioned bore, said male member having an extended part with a bore therein, a conducting pin moulded in the male member closing one end of the bore therein, said pin having a tapered end passing through the aperture in said partition into contact with said cable in the female member, said bore in the male member serving to support a conductor in end to end contact with said pin.

In testimony whereof, I affix my signature.

EDWARD B. NOWOSIELSKI.