No. 857,137. PATENTED JUNE 18, 1907.

W. G. WINTER.

BINDING POST.

APPLICATION FILED JAN. 9, 1907.

Fig. 1.

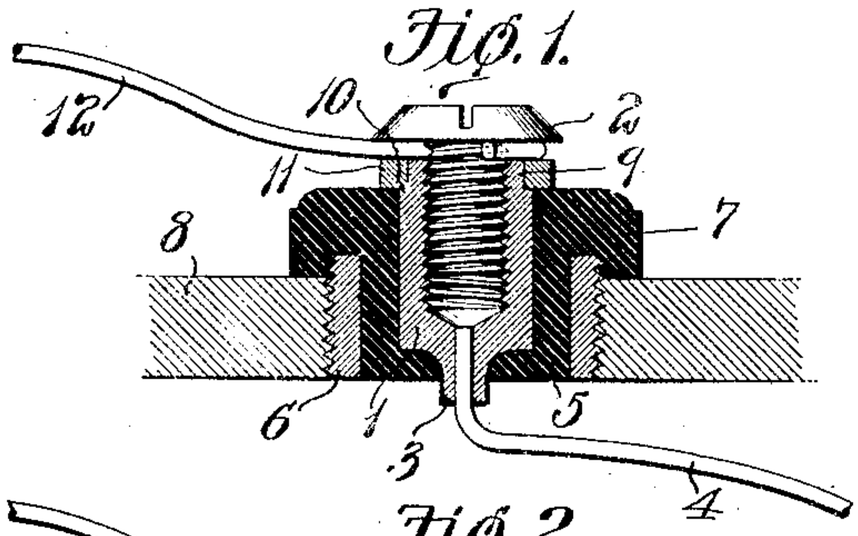


Fig. 2.

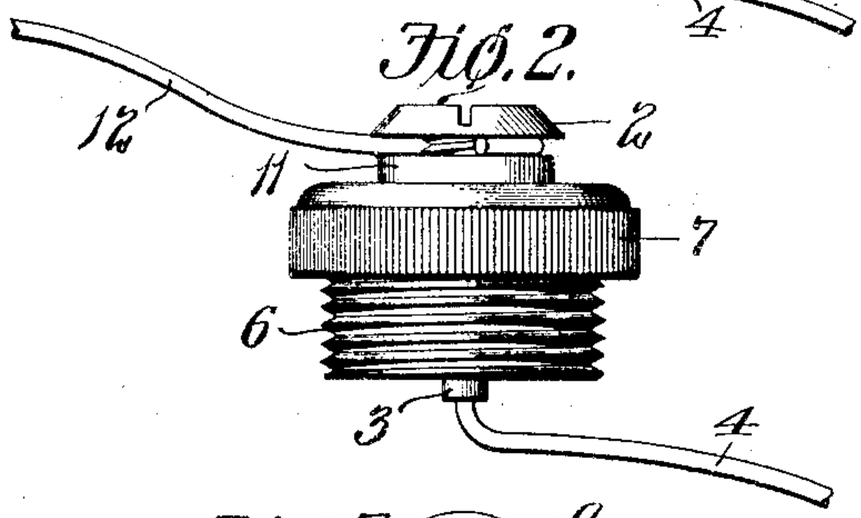


Fig. 3.

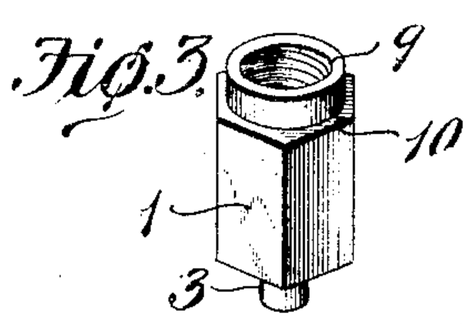


Fig. 4.

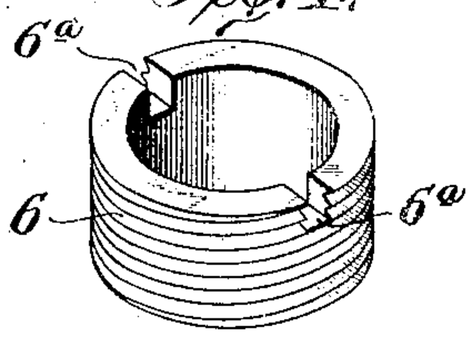
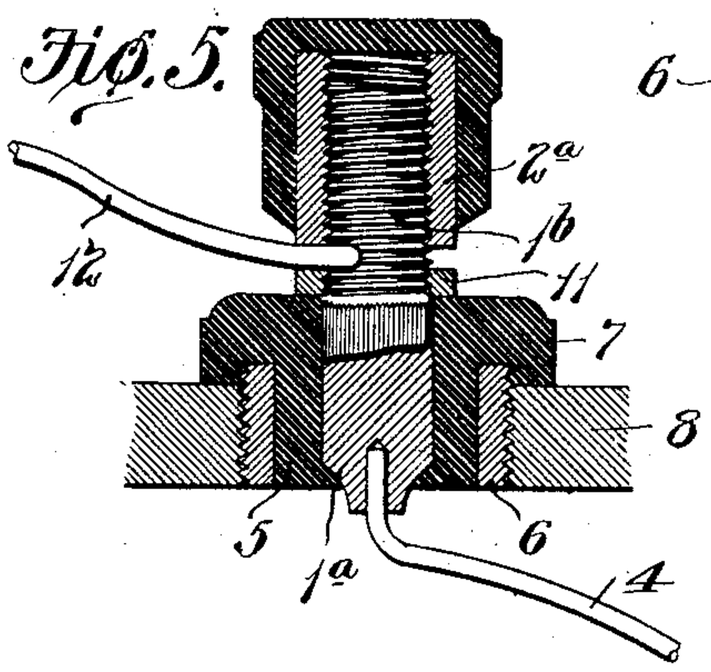


Fig. 5.



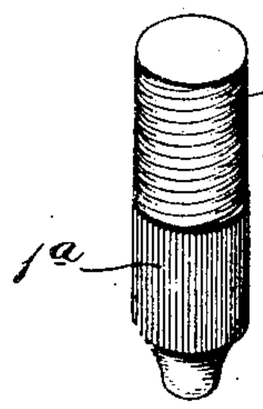


Fig. 6.

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Inventor:
William G. Winter.
By Bakewell & Cornwall Attys.

UNITED STATES PATENT OFFICE.

WILLIAM G. WINTER, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE EMERSON ELECTRIC MANUFACTURING COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF MISSOURI.

BINDING-POST.

No. 857,137. Specification of Letters Patent. Patented June 18, 1907.

Application filed January 9, 1907. Serial No. 351,527.

To all whom it may concern:

Be it known that I, WILLIAM G. WINTER, a citizen of the United States, residing at St. Louis, Missouri, have invented a certain new and useful Improvement in Binding-Posts, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical sectional view showing my improved device mounted in a support; Fig. 2 is an elevation of the device with all the parts thereof assembled; Fig. 3 is a detail perspective view of the metallic member which receives the binding screw; Fig. 4 is a detail view of the metallic sleeve which surrounds the block of insulating material; Fig. 5 is a vertical sectional view of a modified form of my invention in which the metallic member is provided with a screw threaded shank on which a binding post is mounted; and Fig. 6 is a detail view of the metallic member.

This invention relates to terminal studs for electrical apparatus, and consists, broadly stated, of a metallic member adapted to receive a binding screw, or having a screw threaded shank formed integral therewith to receive a binding post, and being embedded in a block of insulating material which is permanently secured to an externally screw-threaded metallic sleeve.

The main object of my invention is to provide a device in which none of the parts can work loose and which is not liable to turn or work out of the support to which it is connected.

Another object of my invention is to provide a device that presents a neat and ornamental appearance and which is of simple construction so that it can be manufactured at a small cost.

Referring to Figs. 1 to 4 of the drawings which represent the preferred form of my invention, 1 designates a non-circular metallic member preferably of hexagonal shape provided with an internally screw-threaded bore that receives the binding screw 2, the lower end of said member having a tubular-shaped extension 3 into which one of the conducting wires 4 extends and is soldered. The member 1 is embedded in a block 5 of insulating material, preferably hard rubber, and said block is arranged inside of an externally screw-threaded metallic sleeve 6 to which it is permanenely connected preferably by molding the insulating material inside of the sleeve and around the metallic member 1, the sleeve 6 being preferably provided with notches 6^a in its upper edge so as to connect it more securely to the block 5.

The block 5 is provided at its upper end with a head or enlarged portion 7 having a milled or corrugated periphery which enables the device to be screwed into the support 8 to which it is connected, the underneath side of the head contacting with the upper face of the support, as shown in Fig. 1. The member 1 is provided at its upper end with a circular collar 9 and with a shoulder 10 on which rests a washer 11 that surrounds the collar 9, the other conducting wire 12 being clamped between this washer and the underneath side of the head of the binding screw 2.

As shown in Fig. 1, only the tubular-shaped portion 3 of the member 1 projects beyond the bottom face of the block of insulating material, and the upper edge of the hexagonal-shaped portion extends flush with the top face of said block so that a very neat and ornamental construction is produced.

It is impossible for the metallic member to turn in the block 5 on account of its non-circular shape, and the screw threads on the exterior of the sleeve 6 tend to prevent the device from turning in the support in which it is mounted, the opening in the support into which the device is screwed being preferably coated with cement or some adhesive. Consequently, none of the parts of the device can work loose and the device itself cannot work loose in the support in which it is mounted.

In Fig. 5 I have shown a slightly different form of my invention in which the metallic member 1^a is provided with an integral screw-threaded shank 1^b on which a binding post 2^a is mounted. Instead of having the metallic member 1^a non-circular I can form said member cylindrical and provide it with a roughened or corrugated surface that will prevent it from turning in the block 5, as shown in Fig. 6.

The device presents a neat and ornamental

appearance and as it is of very simple construction it can be manufactured at a small cost.

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

1. A device of the character described comprising a central metallic member adapted to receive a binding device and provided at its lower end with an opening for receiving a conducting wire, an externally screw-threaded metallic sleeve surrounding said member, and insulating material separating said sleeve and member; substantially as described.

2. A device of the character described comprising a central metallic member adapted to receive a binding device and provided at its lower end with a reduced tubular-shaped portion and at its upper end with a collar, and a block of insulating material in which said member is embedded, the top face of said block being flush with the shoulder produced by forming the collar on the upper end of said member and the tubular-shaped portion at the lower end of said member projecting beyond the bottom face of said block; substantially as described.

3. A device of the character described comprising a central metallic member provided with a screw-threaded portion for receiving a binding device and with an opening at its lower end to receive a conducting wire, a block of insulating material surrounding said member and provided at its upper end with an enlarged portion, and an externally screw threaded sleeve surrounding the lower portion of said block; substantially as described.

4. A device of the character described comprising a non-circular member adapted to receive a binding screw, a block of insulating material surrounding said member and provided with an enlarged head, a tubular-shaped portion on the lower end of said member which projects beyond the bottom face of said block and is adapted to receive a conducting wire, a circular collar on the upper end of said member projecting beyond the top face of the block, a washer surrounding said collar, and an externally screw-threaded sleeve surrounding the lower portion of said block; substantially as described.

In testimony whereof I hereunto affix my signature in the presence of two witnesses, this fifth day of January 1907.

WILLIAM G. WINTER.

Witnesses:

C. R. MESTON,

GEORGE BAKEWELL.