June 4, 1929. W. D. KYLE 1,715,507

INSULATOR MOUNTING

Filed July 10, 1925

Fig. 1.

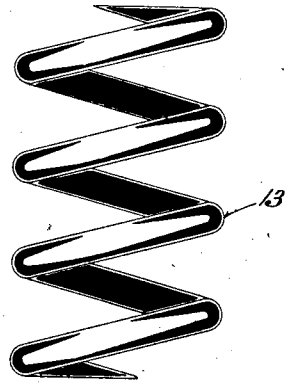


Fig. 3.

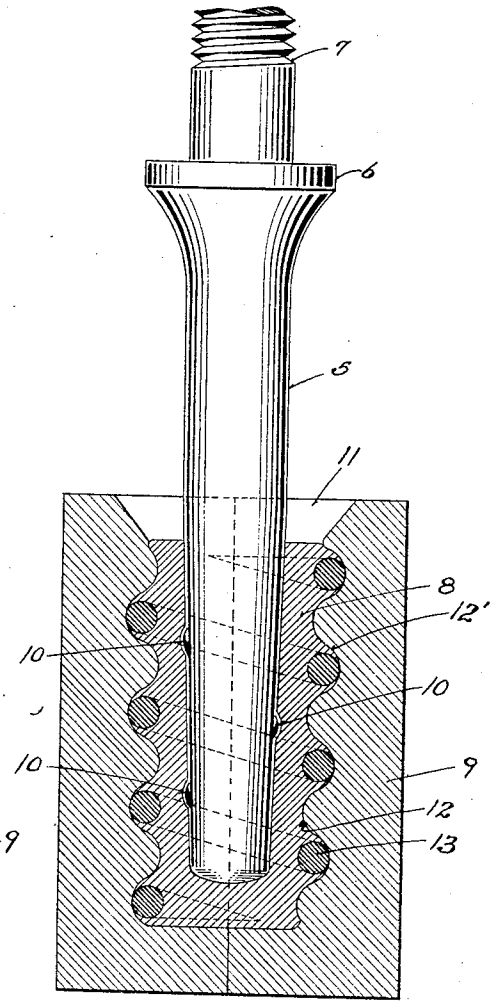
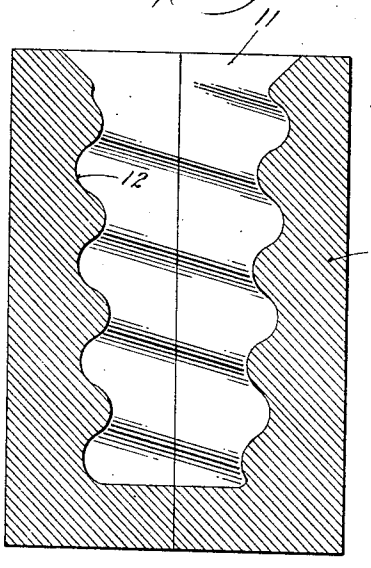


Fig. 2.



Inventor

William D. Kyle

By Ira M. Jones.

Attorney.

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UNITED STATES PATENT OFFICE.

WILLIAM D. KYLE, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO LINE MATERIAL COMPANY, OF SOUTH MILWAUKEE, WISCONSIN, A CORPORATION OF WISCONSIN.

INSULATOR MOUNTING.

Application filed July 10, 1925. Serial No. 42,759.

Heretofore it has been customary to form the threaded head for mounting the usual insulator of lead, which has proven objectionable in that the material being relatively soft is often forced out of position due to blows, and when considerable strain is applied thereto the lead frequently flows sufficiently for the insulator to be practically loose on the pin.

Having the above and other objections to the present type of insulator mountings in mind, this invention has as one of its objects the provision of an improved head in which a member formed of harder material is incorporated to prevent injury to head when subjected to blows or severe strains.

Another object of this invention resides in the provision of an improved insulator mounting in which the externally threaded head proper has incorporated therein at its time of formation a member which serves to retain the shape of the head and forms a part of the threads thereof to take the wear incidental to the threading of the insulator head thereon.

With the above and other objects in view which will appear as the description proceeds, my invention resides in the novel construction, combination and arrangement of parts substantially as hereinafter described and more particularly defined by the appended claims, it being understood that such changes in the precise embodiment of the hereindisclosed invention may be made as come within the scope of the claims.

In the accompanying drawings I have illustrated one complete example of the physical embodiment of my invention constructed according to the best mode I have so far devised for the practical application of the principles thereof, and in which:

Figure 1 is a side elevational view of the spiral member employed in the construction of my improved insulator mounting;

Figure 2 is a transverse sectional view taken through the mould member employed in the manufacture of the mounting, and

Figure 3 is a view, partly in section and partly in elevation, illustrating a complete insulator mounting prior to its withdrawal from the mould.

Referring now more particularly to the accompanying drawing, the numeral 5 designates a mounting pin on one end of which is formed a shoulder 6, beyond which projects a threaded stud 7, to facilitate its securement to a support, not shown. The upper end of the pin has a threaded head 8 formed thereon for the reception of a suitable insulator, not shown, which may be of any desired type.

The head 8 is formed about the pin 5 by inserting the pin within a mould 9, and then pouring the material such as molten lead, or the like. The outer end of the pin 5 is preferably formed with tits or projections 10 to prevent detachment of head 8 from the pin after formation. The mould 8 may be formed in a single piece or in two pieces, as illustrated, and the bore 11 thereof is formed with threads 12.

Prior to the insertion of the pin in the mould, a cylindrical spiral member 13 is inserted therein with its coils in register with the bottoms of the threads 12. The pin outer end is then placed in the mould, in the manner illustrated in Figure 3, and the material out of which the head 8 is to be formed is poured thereabout. After the material forming the head has set, the member 13 is incorporated therein as an integral part of the head and forms the outer portions of the threads 12′ of the head. The pin and head are then withdrawn from the mould either by splitting the mould or threading the head therefrom.

Heretofore, insulator mounting heads have been usually formed of lead, which is objectionable in that lead is a dead material and is easily knocked out of shape when subjected to blows. With the member 13 incorporated in the head in the manner previously described, means are provided for retaining the shape of the head and also forming the peaks of the threads to take all wear.

From the foregoing description taken in connection with the accompanying drawings it will be readily obvious to those skilled in the art to which an invention of this character appertains that I have provided an improved insulator mounting and method of forming the same, which may be made of lead or any other material but at the same time is protected against becoming out of shape when subjected to blows or great strains.

What I claim:

1. A mounting of the character described, comprising a support, a head formed on the support of relatively soft material and having external threads, and a spiral member of relatively hard material incorporated in the head at its time of formation and form-

ing the points of the head threads to take the wear on the threads.

2. A mounting of the character described, comprising a support, an externally threaded head formed on the support and of relatively soft material, means anchoring the head on the support, and a coiled wire spiral member incorporated in the head at its time of formation and having the outer periphery of its coils exposed to take the wear from the head.

3. A mounting of the character described comprising a support, a head cast on the support and having external threads, and a spiral coil member of harder material than the head and cast in the head to form a wear-resisting surface for the threads of the head.

In testimony whereof I affix my signature.

WILLIAM D. KYLE.