March 24, 1931. C. J. LEMONT 1,797,238

INSULATOR MOUNTING PIN

Filed July 16, 1928

Fig. 1.

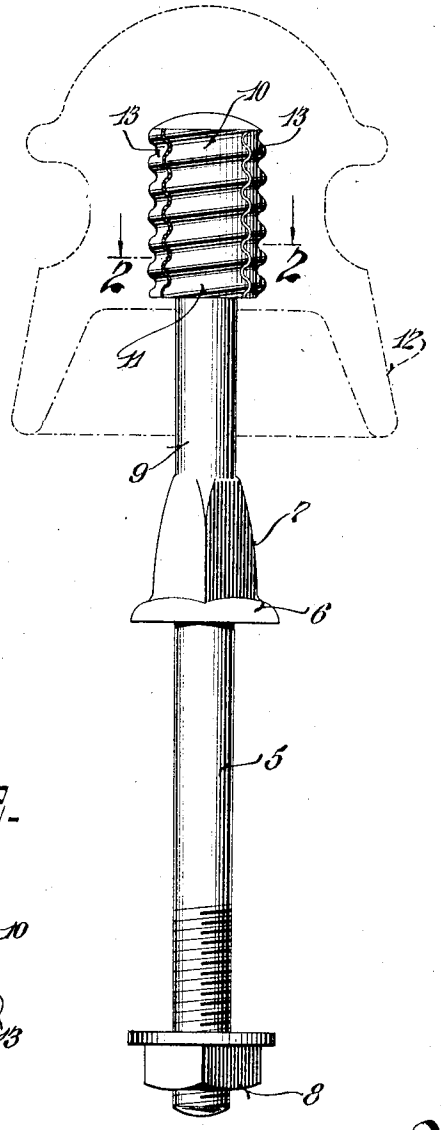
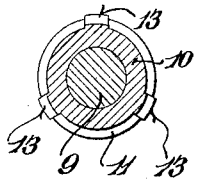


Fig. 2.



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UNITED STATES PATENT OFFICE

CLARENCE J. LEMONT, OF SOUTH MILWAUKEE, WISCONSIN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO LINE MATERIAL COMPANY, OF SOUTH MILWAUKEE, WISCONSIN, A CORPORATION OF DELAWARE

INSULATOR-MOUNTING PIN

Application filed July 16, 1928. Serial No. 292,960.

This invention relates particularly to insulator mounting pins of the type adapted to be carried by a cross arm or other support and having an upstanding projection upon which an insulator of any suitable design or construction may be detachably mounted and has as its object to provide means on the head of the mounting pin for accommodating the irregularities and variations in porcelain insulators.

And a more specific object of this invention resides in the provision of a plurality of raised portions formed on the threaded lead head of the mounting member, which being substantially plastic readily conform themselves to the irregularities and variations in the threaded recesses of the insulator.

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 drawing, 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 an elevational view of an insulator mounting pin embodying my invention; and

Figure 2 is a cross sectional view taken through Figure 1 on the plane of the line 2—2.

Referring now more particularly to the accompanying drawing, in which like numerals designate like parts throughout the several views, 5 represents a pin which may be a drop forging or the like having a shoulder 6 and a squared portion 7 formed at a medial point and having its lower end threaded to receive a clamping nut 8. The pin 5 is usually mounted by being passed through an aperture in a cross arm or other like suitable support, not shown, with its shoulder 6 engaging the top thereof and the nut 8 drawn up to clamp the cross arm, not shown, between it and the shoulder.

The upper portion 9 of the pin has a lead head 10 formed thereon which is provided with threads 11 to receive an internally threaded porcelain insulator 12.

Porcelain, being a product subject to great shrinkage during the firing process, is very irregular and cannot be depended upon to maintain predetermined sizes. Accordingly it has always been a problem to make suitable pins to fit the variations encountered in porcelain insulators, and where a solid lead exteriorly threaded head is resorted to there usually is an excess of metal which does not readily flow to fit the imperfections incident to porcelain insulators. The present invention obviates this objectional feature of lead heads for mounting pins by the formation of a plurality, preferably three, raised portions or ribs 13 which extend longitudinally throughout the length of the lead head.

It will be apparent that as there are but a few such raised portions or ribs there is but a small amount of lead which must be displaced to give a perfect seating for the insulator and it will be readily obvious that the excess material forming the raised portions 13 will freely flow with the irregularities of the threaded recess of the insulator to provide a perfect joint between the insulator and the lead head.

What I claim as my invention is:

1. An insulator mounting pin of the character described having an exteriorly threaded lead head adapted to receive an insulator, and means formed on the head for filling the irregularities of the insulator connected therewith to provide a perfect seat for the insulator throughout the entire peripheral surface of the head.

2. An insulator mounting pin of the character described having an exteriorly threaded soft metal head adapted to receive an insulator, and longitudinal ribs formed on the head which are displaced to fill irregularities of the insulator when the same is applied to the head to provide a perfect seat for the insulator throughout the entire peripheral surface of the head.

3. An insulator mounting pin of the character described having a lead head exteriorly threaded to receive an insulator, and means formed integral with the lead head which is readily displaced by the insulator at the time of its application to accommodate the irregularities in the insulator and provide a perfect seat for the insulator throughout the entire peripheral surface of the head.

4. An insulator mounting pin of the character described having a head adapted to receive an insulator and formed of substantially plastic material, and means whereby the head readily shapes itself to the insulator.

5. An insulator mounting pin of the character described, comprising a hard metal pin, a head of soft metal formed on the pin and exteriorly threaded to receive an insulator, and longitudinal projections extended slightly beyond the surface of the head, said projections being formed integral with the head and being readily displaced by the insulator at the time of its application to fill the irregularities thereof and provide a perfect seat for the insulator throughout the entire peripheral surface of the head.

In testimony whereof I have hereunto affixed my signature.

CLARENCE J. LEMONT.