R. A. PRICE.

ELECTROLYTIC ANODE.

APPLICATION FILED MAR. 7, 1921.

1,438,722. Patented Dec. 12, 1922.

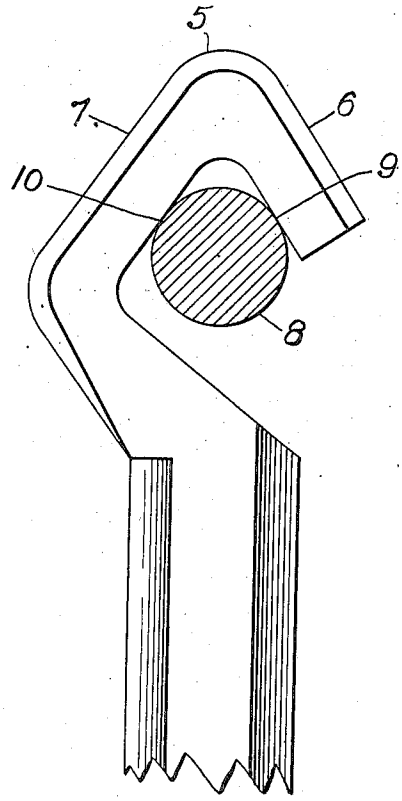


Fig. 1.

Fig. 3.

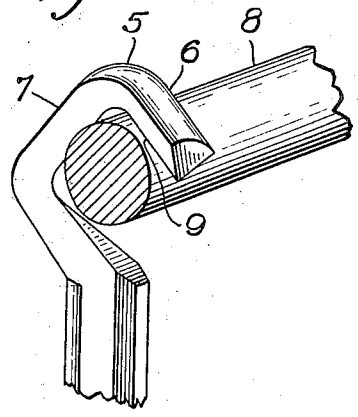
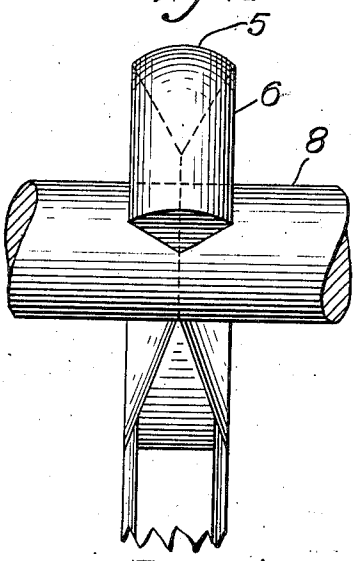


Fig. 2.



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UNITED STATES PATENT OFFICE.

RALPH ARTHUR PRICE, OF BERWYN, ILLINOIS, ASSIGNOR TO WESTERN ELECTRIC COMPANY, INCORPORATED, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

ELECTROLYTIC ANODE.

Application filed March 7, 1921. Serial No. 450,183.

To all whom it may concern:

Be it known that I, RALPH ARTHUR PRICE, a citizen of the United States, residing at Berwyn, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Electrolytic Anodes, of which the following is a full, clear, concise, and exact description.

This invention relates to electrolytic anodes, and more particularly to anodes of such metals as zinc, etc.

The object of this invention is to provide a construction of anode hook and suspending bar which reduces to a minimum the tendency toward a high resistance contact between such members due to the accumulation of salts between their contacting surfaces.

In accordance with the general features of this invention the anode hook and suspending bar are formed with surfaces which provide for contact between them at a point or points of small area with a pressure equal to the full weight of the suspended anode.

In practicing this invention one of the members is preferably circular in cross section, the other being provided with sharp contacting edge or edges and the engagement between them being at a point or points to support the anode in a vertical position.

In the drawings in which this invention is illustrated in connection with a suspending bar of circular cross section:

Fig. 1 is a view in side elevation of a hook formed in accordance with the features of this invention and shown applied to a suspending bar of circular cross section;

Fig. 2 is a view in front elevation of the parts shown in Fig. 1, and

Fig. 3 is a perspective of the parts.

As shown in the drawing, there is provided a hook suspending member 5 comprising angularly disposed arms 6 and 7, which arms are triangular in cross section, as indicated in Figs. 2 and 3. The arms 6 and 7 are so disposed with relation to each other that in suspending the anode over the bar the inner edges of the arms 6 and 7 engage the periphery of a bar 8 at points 9 and 10 which are upon opposite sides of a vertical center line extending through the bar 8 and above a horizontal line and extending through the center of said bar. The weight of the anode bearing upon the hook portion 5 causes the edges which are in contact with the bar 8 to bite into this bar a slight distance, thereby making a very intimate contact with the bar which is of low electrical resistance although covering but a small area. Due to this intimate contact of small area, the formation of zinc salts between the anode hook and the anode suspension bar is prevented.

The hook is preferably cast integrally with the anode, thereby providing an economical structure from a manufacturing standpoint.

What is claimed is:

1. A pair of cooperating members for supporting an electrolytic anode comprising a hook and a supporting bar one of said members being of circular cross section the other being provided with angularly disposed sharp engaging edges cooperating with the member of circular cross section at a single point on each side of the vertical axis thereof to provide contacts of small area and low resistance.

2. The combination with a supporting bar of circular cross section, of a suspending hook for electrolytic anodes having a portion comprising two angularly disposed arms of triangular cross section in which a single sharp portion of each arm engages the periphery of the supporting bar upon opposite sides of the vertical axis thereof to provide contacts of small area applied with a pressure equal to the weight of the anode.

3. A pair of cooperating members for supporting an electrolytic anode comprising a hook and a supporting bar, one of said members being of circular cross section, the other being provided with a continuous sharp engaging edge cooperating with the member of circular cross section at a single point upon each side of the vertical axis thereof to provide high pressure contacts of small area.

In witness whereof, I hereunto subscribe my name this 22 day of February, A. D. 1921.

RALPH ARTHUR PRICE.