

L. P. REED.
CONTACT SHOE FOR ELECTRIC CRANES.
APPLICATION FILED MAY 9, 1918.

1.286,103.

Patented Nov. 26, 1918.

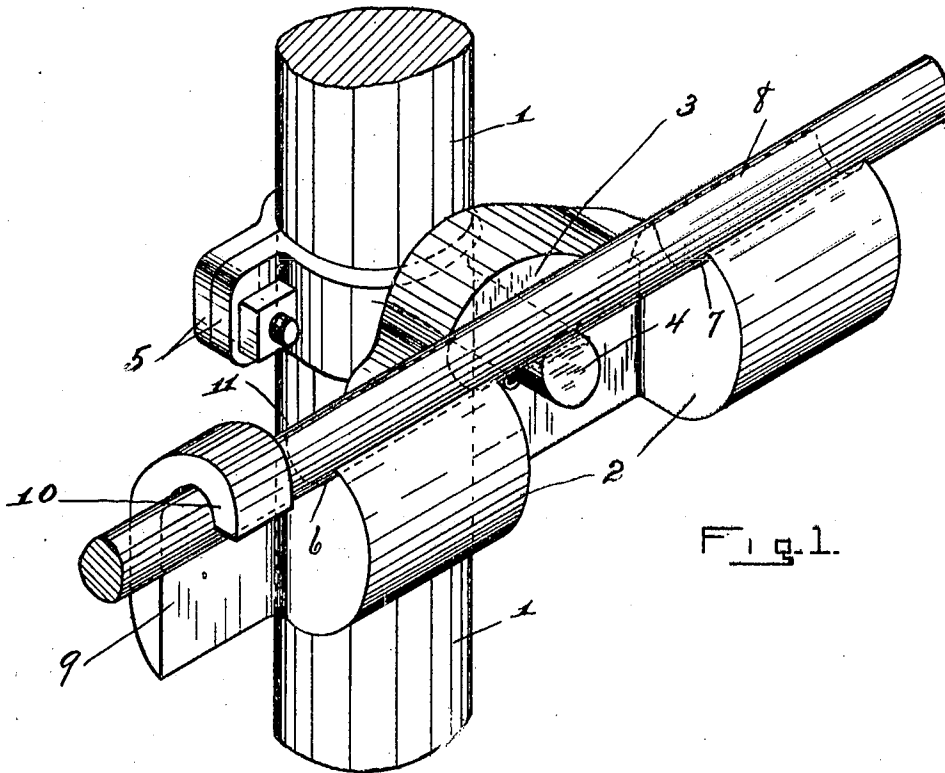


Fig. 1.

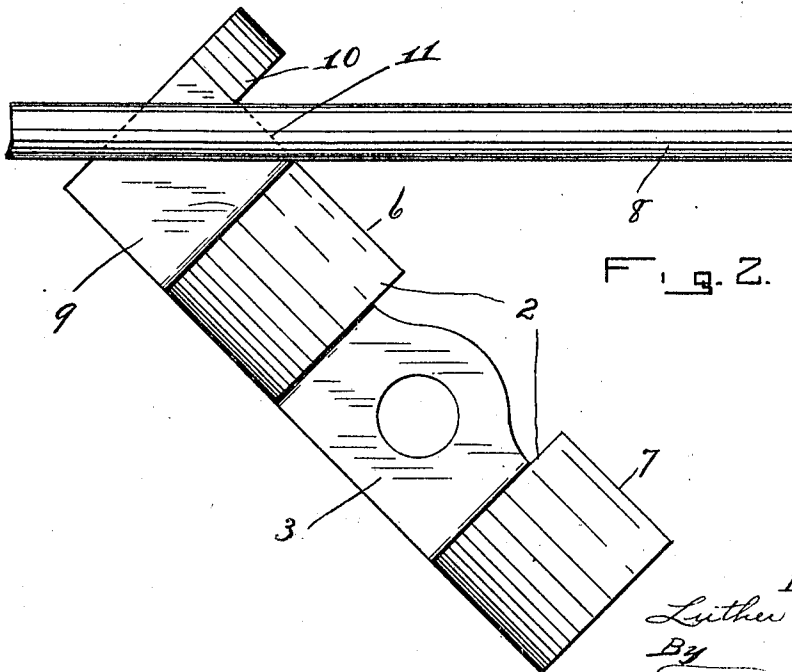


Fig. 2.

Inventor
Luther P. Reed
By
Frank C. Curtis
Attorney

UNITED STATES PATENT OFFICE.

LUTHER P. REED, OF SCHENECTADY, NEW YORK.

CONTACT-SHOE FOR ELECTRIC CRANES.

1,286,103.

Specification of Letters Patent.

Patented Nov. 26, 1918.

Application filed May 9, 1918. Serial No. 233,555.

To all whom it may concern:

Be it known that I, LUTHER P. REED, a citizen of the United States, residing at Schenectady, county of Schenectady, and State of New York, have invented certain new and useful Improvements in Contact-Shoes for Electric Cranes, of which the following is a specification.

Reference may be had to the accompanying drawings, and the reference characters marked thereon, which form a part of this specification. Similar characters refer to similar parts in the several figures therein.

This invention relates to a sliding contact for electric cranes, whereby a supply of electric current is taken from a conductor-wire and transmitted to the motor which operates the crane.

The principal object of the invention is to maintain the shoe or contact-device in proper sliding engagement or contact with the conductor-wire.

Figure 1 of the drawings is a view in perspective showing my improved contact-shoe supported upon a broken-away portion of the crane in engagement with a section of a conductor-wire.

Fig. 2 is a view in side elevation illustrating the manner in which the shoe is applied to the conductor-wire.

Referring to the drawings wherein the invention is shown in preferred form, 1 represents a post, carried by an electric crane, not shown, through which post the electric current is transmitted to the electric motor, not shown, whereby the crane is operated.

The contact-shoe, 2, has near its longitudinal middle an ear, 3, whereby it is pivotally mounted upon a stud, 4, projecting from a bracket, 5, mounted upon the post, 1.

On opposite sides of the ear, 3, the shoe is formed with upwardly-open longitudinal seats, 6 and 7, adapted to engage the underside of the conductor-wire, 8, which is stretched along the path traversed by the crane.

In carrying out my invention, as shown, I form an extension, 9, on one end of the shoe, 2, which extension is formed with a downwardly-open hook, 10, adapted to overhangingly engage the conductor-wire, 8.

This hook, 10, is located at such a distance from the neighboring seat, 7, as to leave a space, 11, between the hook and said seat adapted to freely receive the conductor-wire, 8, when the shoe is swung to a downwardly-inclined position as shown in Fig. 2.

In applying the shoe to the conductor-wire, the shoe is removed from the stud, 4, and is applied to the conductor-wire in the position and manner shown in Fig. 2.

When the wire has been inserted in the space, 11, the shoe is swung back to horizontal position, seating the wire, 8, in both seats, 6 and 7, and also locating the wire beneath the overhanging hook, 10.

The shoe in this position is applied to the stud, 4, and thereby secured in contact with the conductor-wire.

The overhanging hook, 10, effectively prevents the wire from jumping out of the seats, 6 and 7, and thus maintains the shoe in proper contact with the wire as the crane travels back and forth.

What I claim as new and desire to secure by Letters Patent is—

A contact-shoe having means whereby it can be pivotally mounted upon a traveling support, upwardly-open seats adapted to engage a conductor-wire, and a downwardly-open hook adapted for overhanging engagement with said conductor-wire at a sufficient distance from the nearest of said seats to permit the passage of said conductor-wire when the shoe is in oblique position with respect to the wire.

In testimony whereof, I have hereunto set my hand this 6th day of May, 1918.

LUTHER P. REED.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."