

(No Model.)

W. E. BANTA.

DEVICE FOR INSULATING AND PROTECTING TELEGRAPH WIRES AND
OTHER ELECTRICAL CONDUCTORS.

No. 260,273.

Patented June 27, 1882.

Fig. 1.

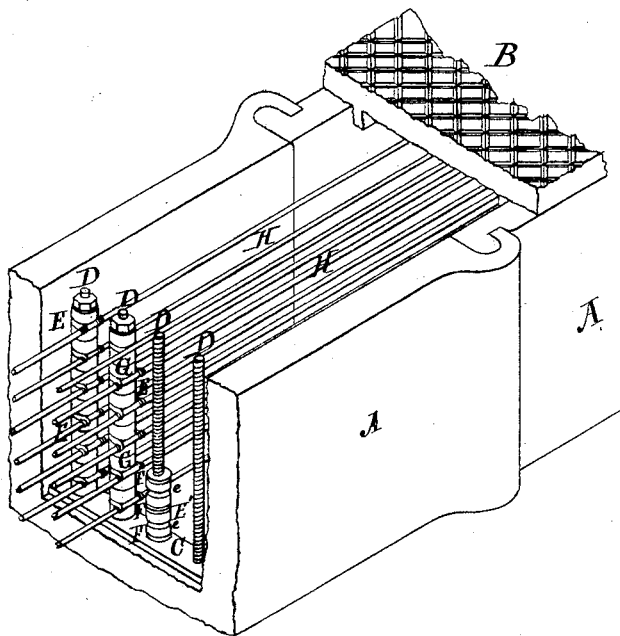


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM E. BANTA, OF SPRINGFIELD, OHIO, ASSIGNOR OF TWO-FIFTHS TO
JOHN M. DODD AND ABNER M. CROTHERS, BOTH OF SAME PLACE.

DEVICE FOR INSULATING AND PROTECTING TELEGRAPH-WIRES AND OTHER ELECTRICAL CONDUCTORS.

SPECIFICATION forming part of Letters Patent No. 260,273, dated June 27, 1882.

Application filed November 8, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. BANTA, of Springfield, Clarke county, Ohio, have invented a new and useful Device for Insulating and
5 Protecting Telegraph-Wires and other Electrical Conductors, of which the following is a specification.

My invention is more particularly designed as a means of conveying the wires of tele-
10 graphs and telephones in subterranean or other closed conduits.

In the accompanying drawings, Figure 1 is a perspective view, showing a portion of a street-pavement curb formed hollow and utilized as a
15 housing or conduit for a group of telegraph-wires. Fig. 2 is a longitudinal section of the same to a smaller scale.

A A may represent two of a series of troughs or trunks of identically similar conformation,
20 and so shaped at their ends as to be capable of interlocking one to another, so as, with the addition of litharge or other suitable luting, to be capable of being joined, water and air tight, end to end, in the manner shown.

25 B is a cap-plate or coping, which, after the insertion of the wires, is luted fast on top of the trough, so as to hermetically close the same.

The insulating support has a foot or base
30 plate, C, whose length equals the width of the interior of the trough, and which rests upon its floor, supports a series of posts, D, which rise to nearly level with the trough margin. Of these parts the trough is preferably of terra-cotta or other strong artificial stone, its
35 coping of cast-iron, or of any natural rock—such as granite, limestone, or sandstone. The posts D and their feet C are preferably of brass or other non-magnetic metal of adequate strength.

40 Fitted to be slipped upon the posts D are spools E and washers F, preferably of glass. Each spool has a circumferential groove, e, for

a fine wire, G, by which the telegraph-wire H or other electrical conductor is upheld.

The posts D may, if preferred, be bolted to a
45 wooden-shoe, which may be cemented in a transverse gutter in the floor of the trough, or their lower extremities may be anchored permanently into the trough-floor in the act of originally casting the trough.

50 The washers F may be omitted and the spools E be interiorly screw-threaded to engage over correspondingly screw-threaded posts, as at E', Fig. 1.

If desired, the trough, after the wires have
55 been placed in position, may be filled with sand or other insulating material.

I am aware that telegraph-wires and like electrical conductors have been hermetically
60 inclosed in tubes, and therefore make no claim to the same, broadly considered.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. A street-pavement curb adapted to form
65 a supporting and insulating case or inclosure for telegraph-wires and other electrical conductors, which consists of a series of troughs, A A, hermetically connected and hermetically closable by a coping, B, the said trough being
70 provided interiorly with posts D and spools E for support and insulation of the wires or conductors, substantially as set forth.

2. The combination, with suitable troughs,
75 of the posts D, spools E, washers F, and wires G, adapted to support the electrical conductors, as set forth.

In testimony of which invention I hereunto set my hand.

WM. E. BANTA.

Witnesses:

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SAML. S. CARPENTER.