(No Model.)

G. B. DAMON.

INSULATION PROTECTOR.

No. 566,064. Patented Aug. 18, 1896.

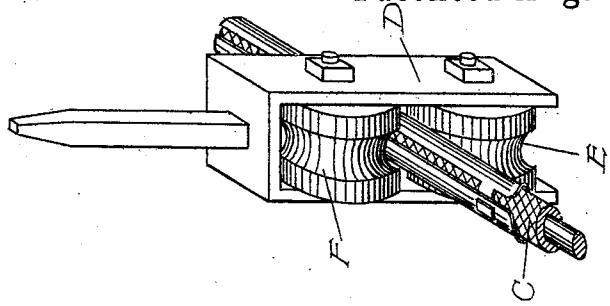

FIG. IV.

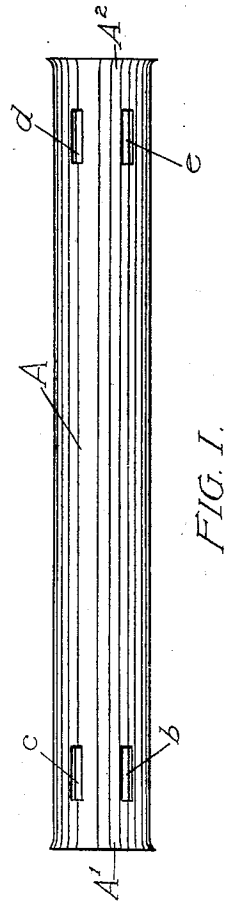

FIG. I.

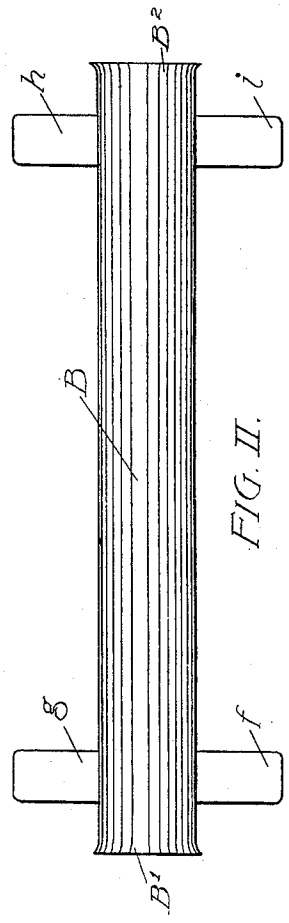

FIG. II.

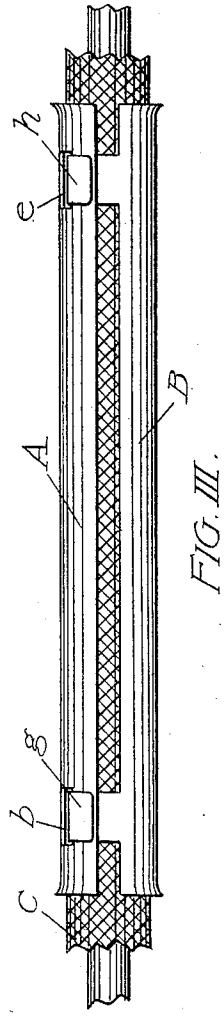

FIG. III.

WITNESSES

Fred A. Lovejoy

Henry L. Rourke

INVENTOR

George B. Damon

by his attorney

Gardner W. Pearson

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE B. DAMON, OF LOWELL, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO GARDNER W. PEARSON, OF SAME PLACE.

INSULATION-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 566,064, dated August 18, 1896.

Application filed July 8, 1896. Serial No. 598,412. (No model.)

To all whom it may concern:

Be it known that I, GEORGE B. DAMON, a citizen of Germany, and a resident of Lowell, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Insulation-Protectors, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention consists of a device for protecting the insulating-covering of electric wires from being worn away by contact with certain classes of insulators. It is more particularly applicable to that form of insulators shown in Figure IV, which consists of a forked framework D, between the prongs of which are loosely mounted two grooved rollers E and F, of some hard insulating material, whose faces form a grooved channel through which the insulated wire or cable passes. This form of insulator is generally used on trees, and the swaying of the branches causes the insulator to move and thus gradually to wear away the insulating-covering of the wire.

I attain the desired result by the appliance illustrated by the accompanying drawings, in which—

Figs. I and II show the two shells of the device separate. Fig. III shows it applied to an insulated wire, and Fig. IV shows the application to a tree-insulator of the form mentioned.

My device consists of two parts, the shell A, of sheet brass or other suitable thin flexible metal, (see Fig. I,) of such dimensions as to cover the length of wire to be protected and somewhat less than half the circumference of the insulating-covering of the wire. This shell is pierced with four or more rectangular holes or slots *b c d e*, is curved along its entire length to fit outside the said covering, and preferably has its ends at A′ and A^2 flared. The other part consists of a shell B, of similar material, of corresponding dimensions, (see Fig. II,) but instead of slots provided with corresponding ears *f g h i*, which are slightly narrower than the length of the slots and long enough to operate, as shown hereinafter. This second shell is also curved along its entire length to fit the outside of the insulating-covering of the wire, and preferably has its ends at B′ and B^2 flared.

The application is as follows: The two parts are placed on opposite sides of the portion of insulated wire C to be protected. The ears of the second part are drawn through the corresponding slots of the first part to bring the two parts close to the insulating-covering and are then bent back and down flat, as shown in Fig. III, clenching the two parts together and in place. The flared ends serve to prevent the ends of the device from cutting or wearing the insulation. It will be seen that this affords a metal covering over practically the whole circumference of the wire and protects the insulating-covering from abrasion.

What I claim for my invention, and desire to cover by Letters Patent, is—

1. A device for protecting the insulating-covering of insulated electric wires, consisting of two shells of thin flexible metal, one of which is pierced with four or more slots and the other of which has corresponding ears adapted to pass through said slots, when the two parts are adjusted around the insulated wire, and then bent over and back to hold the device in place and together, as described and for the purpose specified.

2. A device for protecting the insulating-covering of insulated electric wires, consisting of a shell of thin flexible metal of such dimensions as to cover the length of wire to be protected and somewhat less than half the circumference of the insulating-covering, curved to fit such insulating-covering, having flared ends and pierced with four or more slots, combined with a shell of the same metal of similar dimensions and similarly curved, having flared ends and having ears corresponding with the slots in the other shell passing through said slots and bent over and back to hold the device in place as described and for the purpose specified.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 6th day of July, A. D. 1896.

GEORGE B. DAMON.

Witnesses:
GARDNER W. PEARSON,
MILLARD F. DAVIS.