(No Model.)

# E. VERSTRAETE.

## ATTACHMENT FOR POLES FOR ELECTRIC WIRES.

No. 456,683. Patented July 28, 1891.

Fig. I.

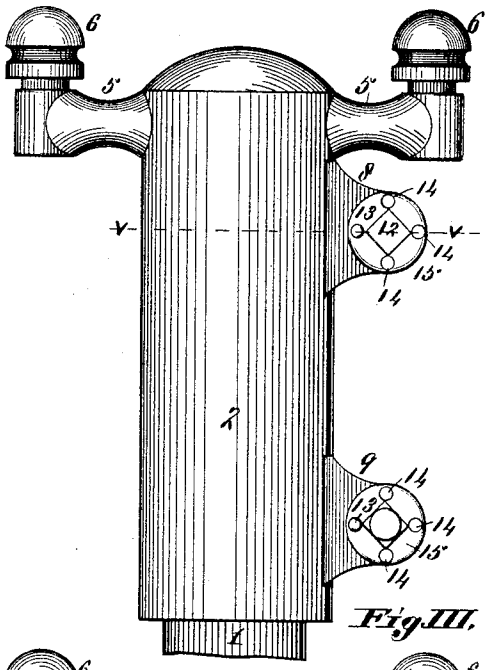



Fig. II.

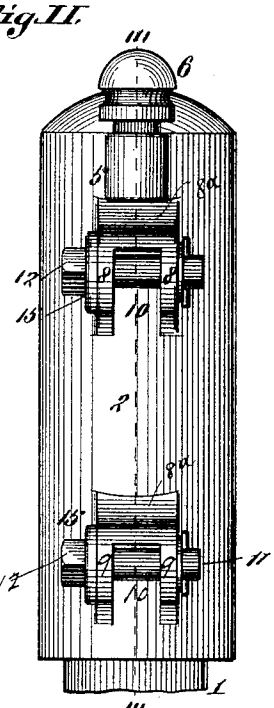



Fig. III.

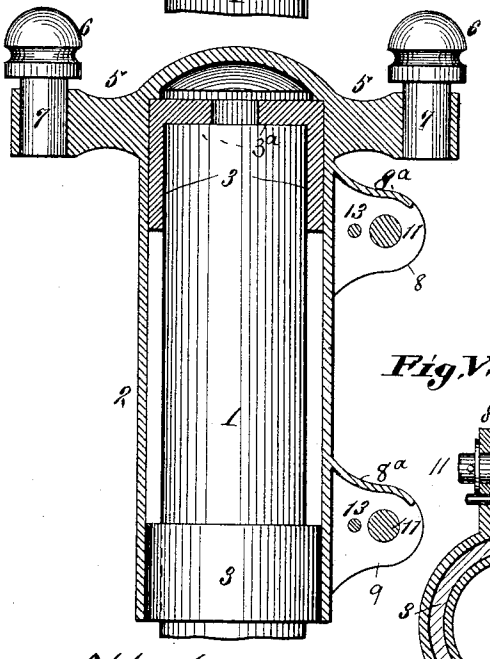



Fig. IV.

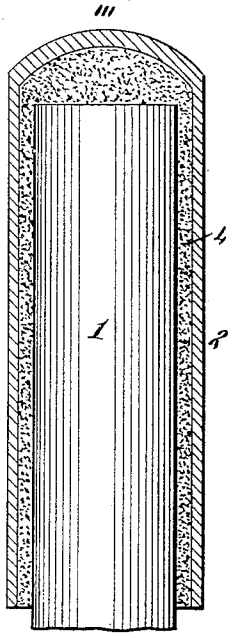
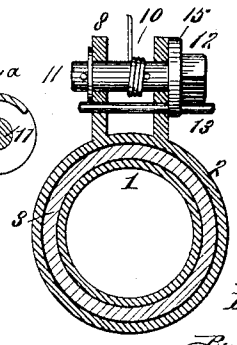



Fig. V.




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# UNITED STATES PATENT OFFICE.

EDMOND VERSTRAETE, OF ST. LOUIS, MISSOURI.

## ATTACHMENT FOR POLES FOR ELECTRIC WIRES.

SPECIFICATION forming part of Letters Patent No. 456,683, dated July 28, 1891.

Application filed July 7, 1890. Serial No. 357,944. (No model.)

*To all whom it may concern:*

Be it known that I, EDMOND VERSTRAETE, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Attachments for Poles for Electric Wires, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to an improved cap for poles for electric wires; and my invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a side elevation illustrative of my invention. Fig. II is a similar view showing another side to that illustrated in Fig. I. Fig. III is a vertical section taken on line III III, Fig. II. Fig. IV is a vertical section showing a different method of insulating the cap from the pole to that shown in Fig. III, and Fig. V is a horizontal section taken on line V V, Fig. I.

Referring to the drawings, 1 represents the upper end of a pole for electric wires—such, for instance, as the supporting and guard wires to an electric road and the wires of an electric light.

2 represents a cap or hood fitted over the upper end of the pole and insulated therefrom by rings 3, as shown in Fig. III, or by means of a continuous insulating-cap 4, as shown in Fig. IV. The upper one of the rings 3, it will be seen, has an annular flange $3^a$, which rests on the top of the pole, thus forming an insulating-cap. It is of course evident that if a wood pole or other non-conductor of electricity is used an insulator 3 4 will not be required, and the cap may be simply fitted on the end of the pole.

5 represents arms or projections on the cap which support knobs 6, to which the wires of an electric light may be secured, the knobs being formed on the ends of stems 7, fitting in sockets in the arms or projections 5. (This is clearly shown in Fig. III.) The cap is further provided with lateral ears 8 9 for the attachment of the supporting and guard wires of an electric road. The supporting-wires would be connected to the ears 8 and the guard-wires to the ears 9. There are two ears 8 and two ears 9, as shown in Fig. V, each pair of ears being separated by a space 10 and provided at top with a strengthening-web and water-shed $8^a$.

11 represents bolts provided with a non-circular head 12 and which pass through the ears 8 9. There is a bolt for each pair of ears. The supporting and guard wires are made fast to the cap through means of these bolts, as shown in Fig. V, the wires being made fast to and wrapped around the bolts. For the purpose of regulating the tension of the wires the bolts can be turned in the ears by applying a suitable wrench to their heads 12, and they are held to any adjustment by means of pins 13, which pass through perforations 14 in flanges or collars 15 on the bolts, preferably on the ends of the bolts having the heads 12, and which also pass through perforations in the ears, as shown in Fig. V. It will thus be seen that each pair of ears is provided with a windlass, and that by removing the pins 13 and turning the bolts 11 the supporting and guard wires may be tightened or loosened, and that by reapplying the pins the bolts will be held to their adjustment.

By the use of my invention the wires of an electric light can be supported on the same cap to which the supporting and guard wires of an electric road are secured, and the supporting and guard wires can be very quickly and easily adjusted in tension.

I claim as my invention—

1. The combination, with the pole, of an insulating-cap fitted on the end of said pole, an insulating-ring fitted on said pole at a distance below said insulating-cap, and the metallic cap 2, having wire-supporting knobs fitted over said insulating cap and ring, substantially as set forth.

2. As an article of manufacture, a cap adapted to fit over the end of the pole, having lateral arms 5, provided with sockets at their outer ends for the reception of wire-supporting knobs, and two pairs of ears arranged one below the other, each pair having a strengthening-web and water-shed $8^a$ and being provided with a windlass, said cap, arms, and ears being formed integral, substantially as set forth.

EDMOND VERSTRAETE.

In presence of—

A. M. EBERSOLE,

J. M. MAROT.