No. 664,176. Patented Dec. 18, 1900.

E. RISLER.

ELECTRIC INSULATOR.

(Application filed July 25, 1900.)

(No Model.)

Fig. 1.

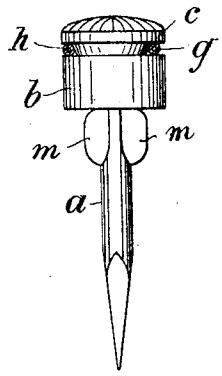


Fig. 2.

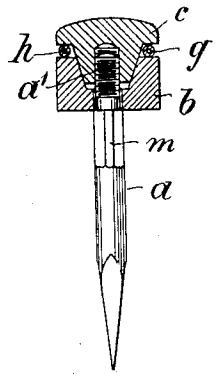


Fig. 3.

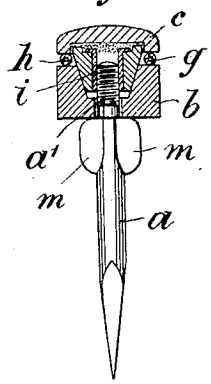


Fig. 4.

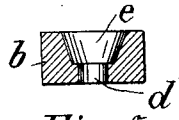


Fig. 5.

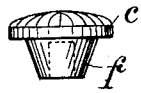


Fig. 6.

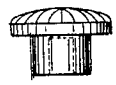


Fig. 7.

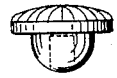


Fig. 8.

Fig. 9.

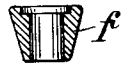


Fig. 10.

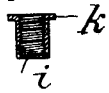
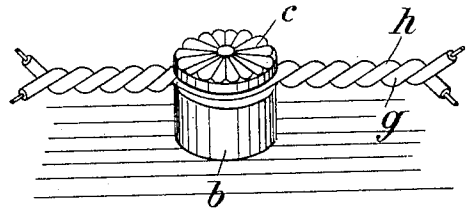


Fig. 11.



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C. R. Ferguson

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By Munn & Co
Attorneys.

UNITED STATES PATENT OFFICE.

EMIL RISLER, OF FREIBURG, GERMANY.

ELECTRIC INSULATOR.

SPECIFICATION forming part of Letters Patent No. 664,176, dated December 18, 1900.

Application filed July 25, 1900. Serial No. 24,787. (No model.)

To all whom it may concern:

Be it known that I, EMIL RISLER, a subject of the Grand Duke of Baden, and a resident of Freiburg, in the Grand Duchy of Baden, Germany, have invented a new and useful Improvement in Electric Insulators, (for which I filed an application for Letters Patent in Germany on the 18th day of June, 1900,) of which the following is a full, clear, and exact description.

This invention relates to an electric insulator especially adapted for use in dwelling-rooms.

In the accompanying drawings, Figure 1 is an elevation of the new insulator. Fig. 2 is a vertical section in a plane at right angles to that of Fig. 1. Fig. 3 is a vertical section of a modification. Figs. 4 to 10 show details of the construction, and Fig. 11 is a perspective view of the insulator in use.

The insulator consists of three parts—first, the steel pin *a*, for fixing the insulator to the wall, floor, or ceiling; second, the lower insulating part *b*, made of any suitable insulating material, and, third, the upper insulating part *c*, of similar material. The upper portion *a'* of the pin *a* is of reduced section and is screw-threaded at its end. Below this reduced portion are wings *m m*, preferably stamped from the body of the pin. These serve to prevent the pin from rotating when it has been driven home. Instead of these wings this part of the pin may be of rectangular section for the same purpose. When the pin has been driven into the wall up to the reduced part *a'*, the lower part *b* of the insulator is fitted onto it, being provided for this purpose with a central bore *d*, Fig. 4. The upper part *e* of this bore *d* is widened to a conical, cylindrical, or hemispherical shape, and the head *c* of the insulator is shaped at its lower part *f*, Fig. 5, to fit this widened bore *e*, as shown in Figs. 5, 6, and 7. The head *c* has a screw-threaded hole at its center and is screwed onto the pin at *a'*.

The leads *g* and *h* are clamped between the two parts *b* and *c* of the insulator, as shown at Figs. 1 and 2, by screwing the head *c* onto the pin. To facilitate this, the periphery of the head may be milled or the like.

Instead of cutting the screw-thread of the head *c* in the insulating material itself the hole may be lined with metal, and this may receive the thread, as shown at *i*, Fig. 3. In this case the head consists of three parts—namely, the conical, cylindrical, or hemispherical part *f*, Fig. 9, the cap *c*, Fig. 8, cemented onto the part *f*, and the screw-threaded lining *i*, Fig. 10, which has a flange *k* to fit the enlarged portion of the bore in the part *f*. When the lining has been inserted into the bore, the cap *c* is cemented onto the part *f*, the cement serving at the same time to prevent the lining from turning in the bore.

Having now particularly described and ascertained the nature of this invention and the best means I know of carrying the same into practical effect, I claim—

1. An electric insulator, consisting of a pin, a lower insulating-piece adapted to fit over the reduced and screw-threaded end of the pin, and an upper insulating-piece comprising a part having a central bore, a screw-threaded metal lining inserted in said bore, and a cap cemented both to the upper insulating-piece and to the said lining, the said upper insulating-piece being adapted to screw onto said screw-threaded end of the pin and to clamp an electric wire between itself and the said lower insulating-piece, substantially as specified.

2. An electric insulator, consisting of a pin, a lower insulating-piece adapted to fit over the reduced and screw-threaded end of said pin, and an upper insulating-piece adapted to screw on the said screw-threaded end of the pin and to clamp the electric leads between itself and the said lower insulating-piece, the said pin having wings extended from its body, substantially as specified.

3. An electric insulator, comprising a pin having laterally-extended wings, a block of insulating material engaging around said pin and having a recess, a cap for engaging a threaded portion of the pin, and a lug on said cap to engage in said recess, substantially as specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

EMIL RISLER.

Witnesses:
F. ICHAERLY,
BENJ. F. LIEFELD.