C. H. POND.

(50.)

Improvement in Telegraph Insulators.

No. 122,961. Patented Jan. 23, 1872.

Fig 1.

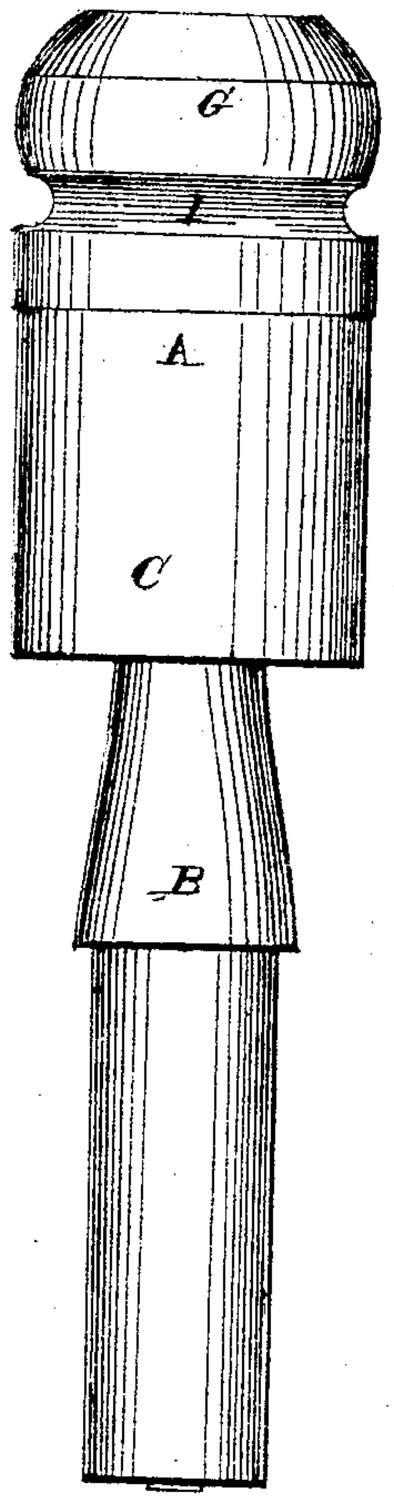


Fig 2.

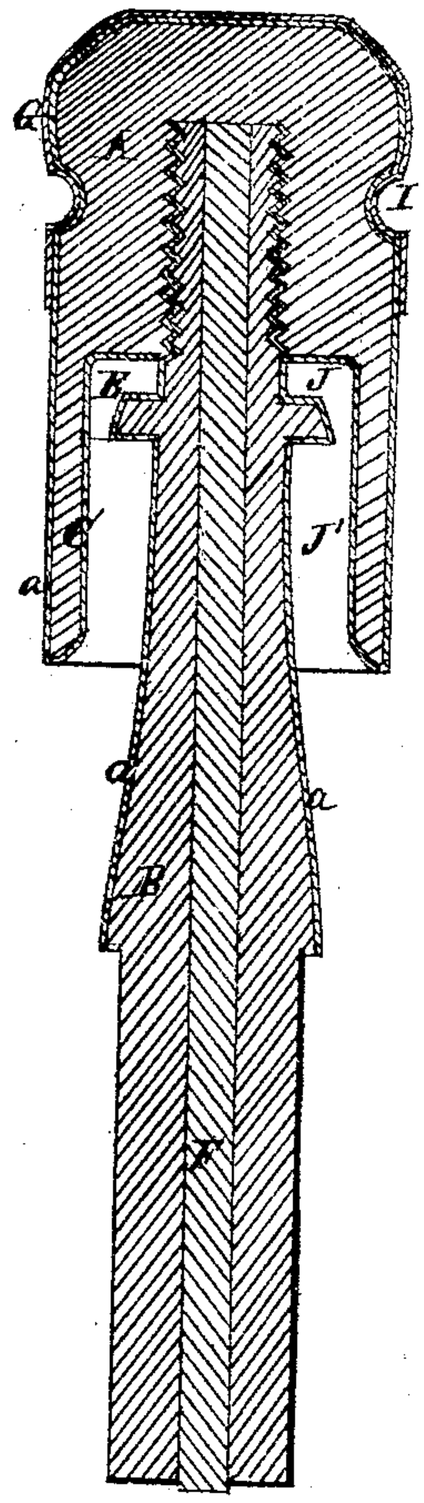
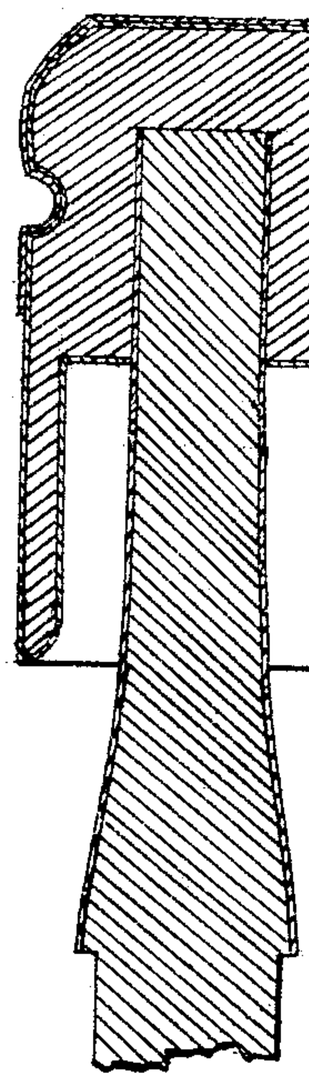


Fig 3.



Witnesses.

D. L. Humphrey.

R. M. Moore

Inventor.

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Attys

122,961

UNITED STATES PATENT OFFICE.

CHESTER H. POND, OF CLEVELAND, OHIO.

IMPROVEMENT IN TELEGRAPH-INSULATORS.

Specification forming part of Letters Patent No. 122,961, dated January 23, 1872.

To all whom it may concern:

Be it known that I, CHESTER H. POND, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Telegraph-Insulators, of which the following is a full and complete description, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a side view of the insulator. Fig. 2 is a vertical transverse section. Fig. 3 shows a modification of Fig. 1.

Like letters of reference refer to like parts in the several views.

This invention has for its object the insulation of telegraph-wires by means of a wooden insulator, consisting of a head screwed to a stem, and from which head depends a hood or cape around the stem a distance therefrom. Said stem is provided with a collar and also with central iron rod, all of which is coated with some non-conductive material. The head of the insulator is then covered with a metal shield or cap, whereby the upper end is protected from the weather.

A more full and complete description of the insulator is as follows: In the drawing, Fig. 1, A represents the head of the insulator, and which is made of wood and secured to a stem, B, by a screw, B′, as shown in Fig. 2. From the head A depends around the stem, a distance therefrom, a cape, C, thereby leaving the stem below the screw isolated. E, Fig. 2, is a collar, which, in its relation to the head A, is such as to form a space between it and the head. The purpose of said collar is to prevent capillary attraction in the event of the insulator becoming wet by the rains. F is an iron rod passing through the stem for the purpose of adding strength thereto. The double lines *a* indicate a thick coating of some non-conductive material, with which the several parts of the insulator are supplied before being put together. When put together, or before, the head is covered with a metal shield or cap, G, which is spun thereon. Said cap not only protects the head from the weather, but also prevents the wire from cutting through the coating into the wood.

An insulator thus made is perfect in its purpose, as it is entirely insulated from the stem by the dry-air chambers J J′, surrounding the stem in its connection with the head, and by non-conductive coating *a* applied to the screw-stem and head, excepting the cap G.

Fig. 3 shows a modification of the insulator, and which represents the head as being attached to the stem without the use of a screw, and which also shows the stem without the central pin F and collar E, which may be omitted without changing the nature of my invention.

Claim.

What I claim as my invention, and desire to secure by Letters Patent, is—

The herein-described telegraph-insulator, consisting of the head A, cape C, stem B, collar E, chambers J J′, with or without center-pin or rod F, insulating coating *a*, and shield G, substantially in the manner as and for the purpose specified.

CHESTER H. POND.

Witnesses:

J. H. BURRIDGE,

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