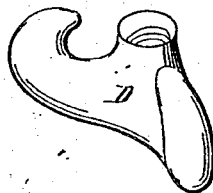
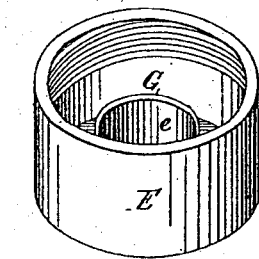
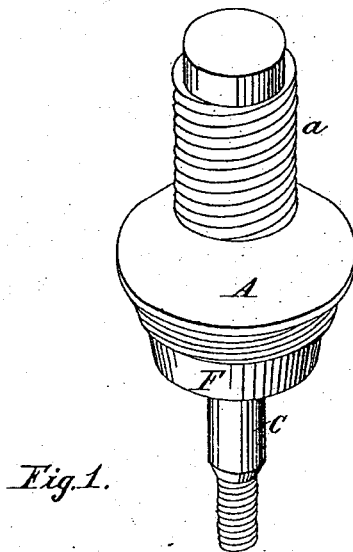


W. W. SMITH.
TELEGRAPH INSULATOR.

No. 52,761.

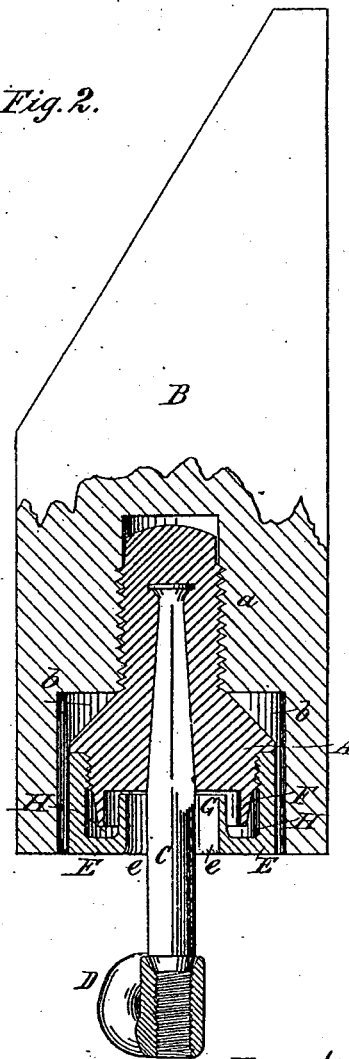
Patented Feb. 20, 1866.



Witnesses:

Geo. B. Nicholson
James H. Layman

Fig. 2.



Inventor:

W. W. Smith
By Knight Bros.
Atty

UNITED STATES PATENT OFFICE.

W. W. SMITH, OF CINCINNATI, OHIO.

IMPROVEMENT IN TELEGRAPH-INSULATORS.

Specification forming part of Letters Patent No. 52,761, dated February 20, 1866.

To all whom it may concern:

Be it known that I, WILLIAM W. SMITH, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Telegraphic Insulator; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

The object of my invention is the construction of an insulator that shall be comparatively or wholly exempt from liability to conduct off the electric current during moist weather, or when dew is liable to collect and form a conducting medium upon the surface of the insulating material.

Figure 1 shows the parts of my insulator detached. Fig. 2 is an axial section through the same in position.

A is a block of vulcanite, or other substance having the requisite toughness and capacity for electrical insulation. The block A is provided with a screw-thread, *a*, adapting it to be screwed into a chamber or recess, *b*, in a wooden block, B, which projects from the post. The relative size of the block A and chamber *b* is such as to leave an annular space between the block and the walls of the chamber.

C is the stem of a customary hook, D, which stem is firmly cast into the substance of the block A.

Adapted to screw to the lower end of the block A is a cap, E, also composed of some non-conducting substance. The cap E has a central aperture, *e*, which surrounds without touching the stem C.

F and G are annular ridges or projections, formed on the opposing surfaces of the block and cap, respectively, so as to inclose the stem in a kind of convoluted or meandering chamber, H, designed to exclude or be out of the reach of any considerable deposition of rain or dew, and also designed to greatly lengthen the distance which the electric current would have to travel along the surfaces of the cap and block in order to reach the post.

I claim as new and of my invention herein—

Forming the insulating-block with the reflexed convoluted or meandering chamber H, which incloses without touching the metallic stem or shank of hook, substantially as and for the objects set forth.

In testimony of which invention I hereunto set my hand.

W. W. SMITH.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.