

F. SCOTT.
INSULATOR.

No. 94,037.

Patented Aug. 24, 1869.

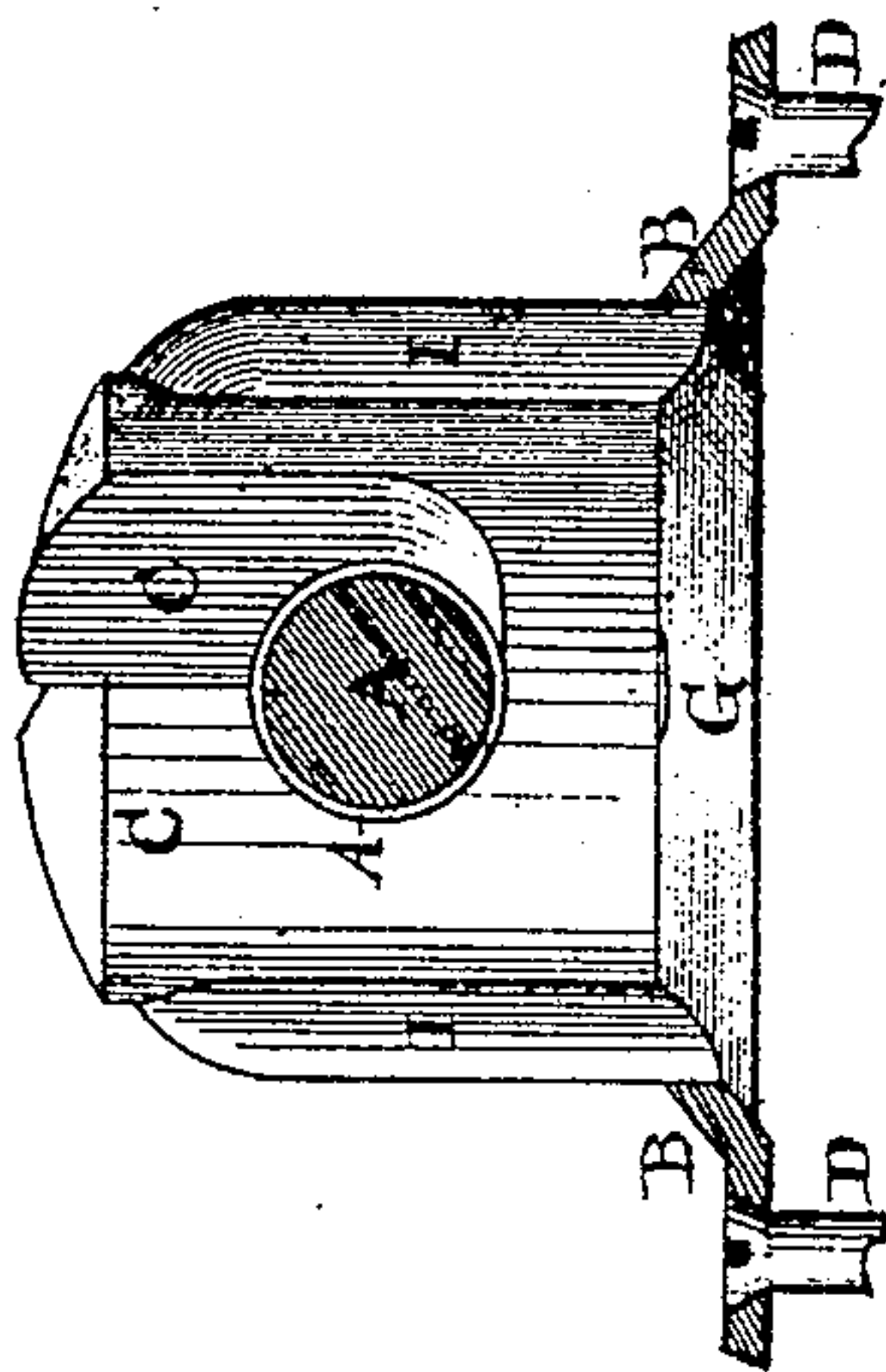


FIG. 2.

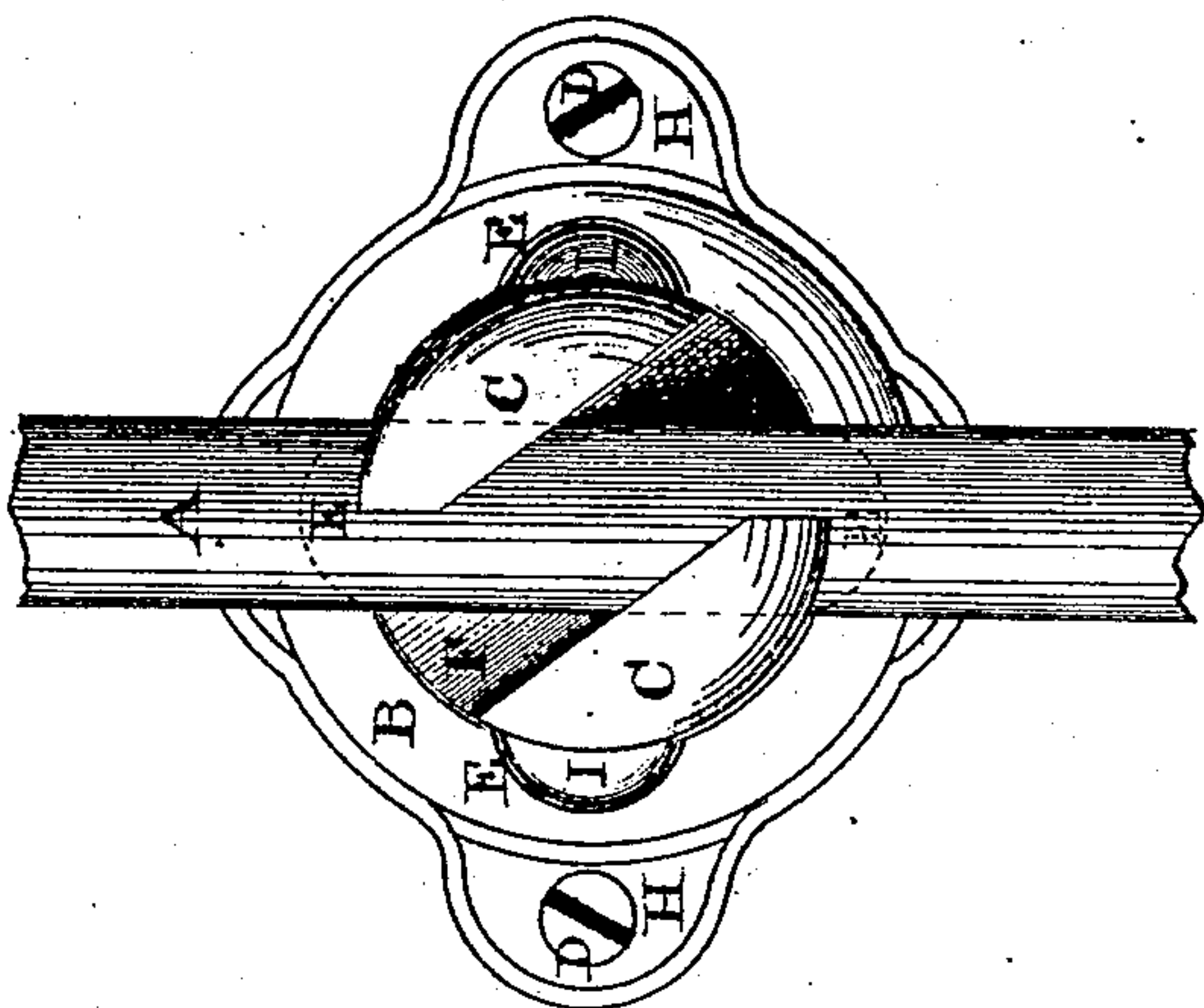


FIG. 1.

Witnesses,

Wm. C. O'Donnell

Inventor,

R. A. Quimby

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United States Patent Office.

FRANKLIN SCOTT, OF BROOKLYN, NEW YORK.

Letters Patent No. 94,037, dated August 24, 1869.

IMPROVEMENT IN INSULATORS.

The Schedule referred to in these Letters Patent and making part of the same.

To all to whom these presents may come

Be it known that I, FRANKLIN SCOTT, of the city of Brooklyn, in the county of Kings, and State of New York, have invented a new and improved Appliance for Insulating Electrical Conductors; and that the following is a full and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification.

Like letters in the drawings refer to corresponding parts.

Figure 1 is a front view of my device, as attached to a lightning-rod, and connected with a building.

Figure 2 is a side view of the insulator proper, also showing a transverse section of the collar by which the insulator is held in position.

To enable others skilled in the art to which my invention relates, to construct and use the same, I will here more fully and accurately describe its construction and operation.

The novel features of this device are two, viz, the peculiarly-shaped slot in the glass, through which the electrical conductor passes, and the ribs on the exterior surface of the insulator, in connection with the slotted collar.

The advantages secured by my invention are perfect insulation, simplicity of construction, being made of but two pieces, ease and facility of adjustment and removal, durability, and its cheapness. Its general adaptation to all uses where the insulation of a rod or wire is desired, as of telegraph-wires and lightning-rods, is one of its peculiar and most valuable features.

My device consists of two pieces, the insulating-piece, which may be made of glass or any other non-conducting material, and shown in both figs. 1 and 2, is provided with a flange, G, fig. 2, by which it is held to its proper location. It also has two or more ribs, I I, figs. 1 and 2, attached longitudinally to the body of the insulator, and which, in adjustment, pass through and are received by the slots E E, fig. 1, of the collar B B, figs. 1 and 2.

The slot F, fig. 1, consists simply of a longitudinal

slot opening into and in connection with a transverse perforation, beneath or behind it, in which the rod or wire is confined.

The axis of this transverse perforation is made on a line at an angle with the faces of the slot, thereby forming what may be termed two jaws, C C, figs. 1 and 2, which grasp and hold the conductor when the insulator is adjusted in its proper position, as shown in fig. 1, A representing the rod.

The ribs I I and slots E E, in the collar B, are for the purpose of preventing the insulator from rotating in the collar and releasing the rod.

This form of construction admits of the insulator being attached to or removed from a lightning-rod telegraph-wire, &c., without the use of auxiliary wires or analogous devices, and without cutting or breaking the connection of the rod or wire, or detaching it from its position. To attach it, all that is requisite to be done is to slip the collar over the insulator, let the rod or wire into the slot F of the same, revolve the whole around the rod until the collar is brought to its proper seat, then a partial revolution of the collar on its seat around the axis of the insulator brings the jaws C C into position, each one grasping and enclosing one side of the rod, thereby confining it in position. The whole is then firmly secured in place by means of the screws or spikes D D of the collar B. This collar may be constructed with any desired number of slots, so that its position on its seat may be changed to accommodate the screw-holes.

What I claim in this invention as new, and desire to secure by Letters Patent, is—

The combination of the insulator, provided with the slot F, jaws C C, and ribs I I, with the slotted collar B, in the manner and for the purpose as set forth.

Witness my hand, at Brooklyn, New York, this 22d day of June, A. D. 1869.

F. SCOTT.

Witnesses:

WM. C. O'DONNELL,
LA GRANGE MCCLASKY.