

No. 693,555.

Patented Feb. 18, 1902.

A. LELONG.
LIGHTNING CONDUCTOR.

(Application filed Nov. 1, 1901.)

(No Model.)

FIG. 2.

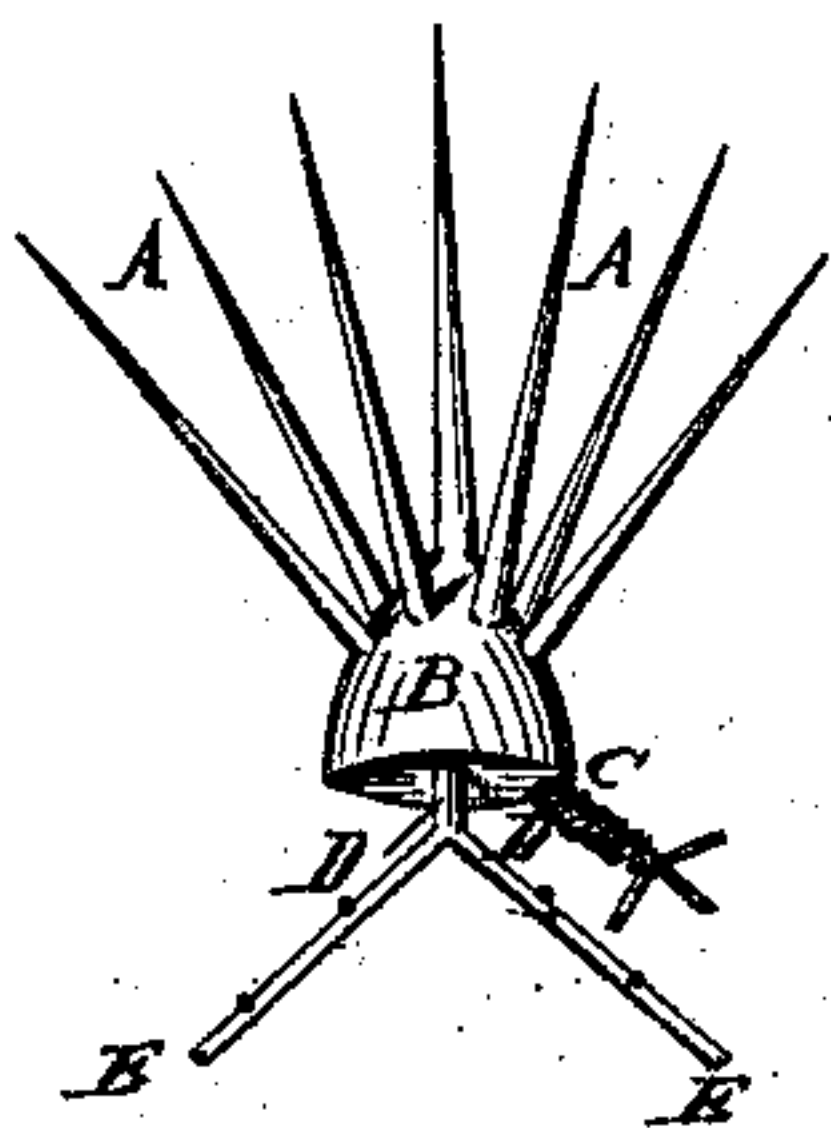


FIG. 1.

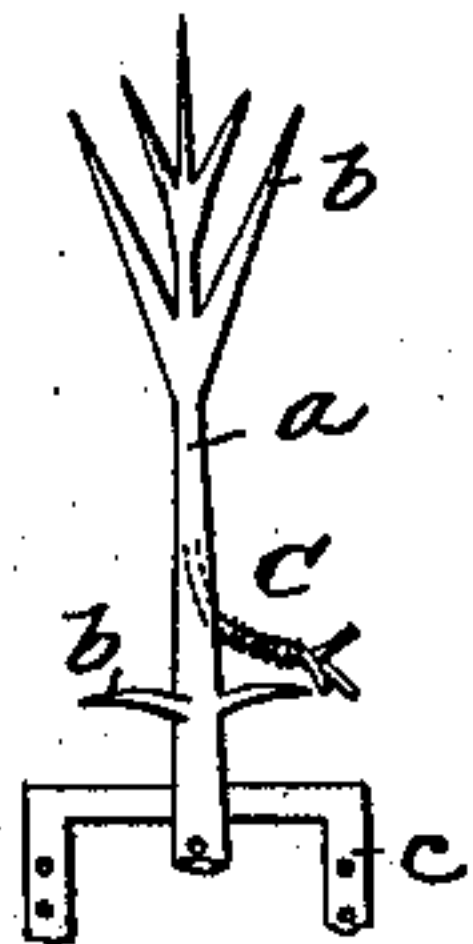
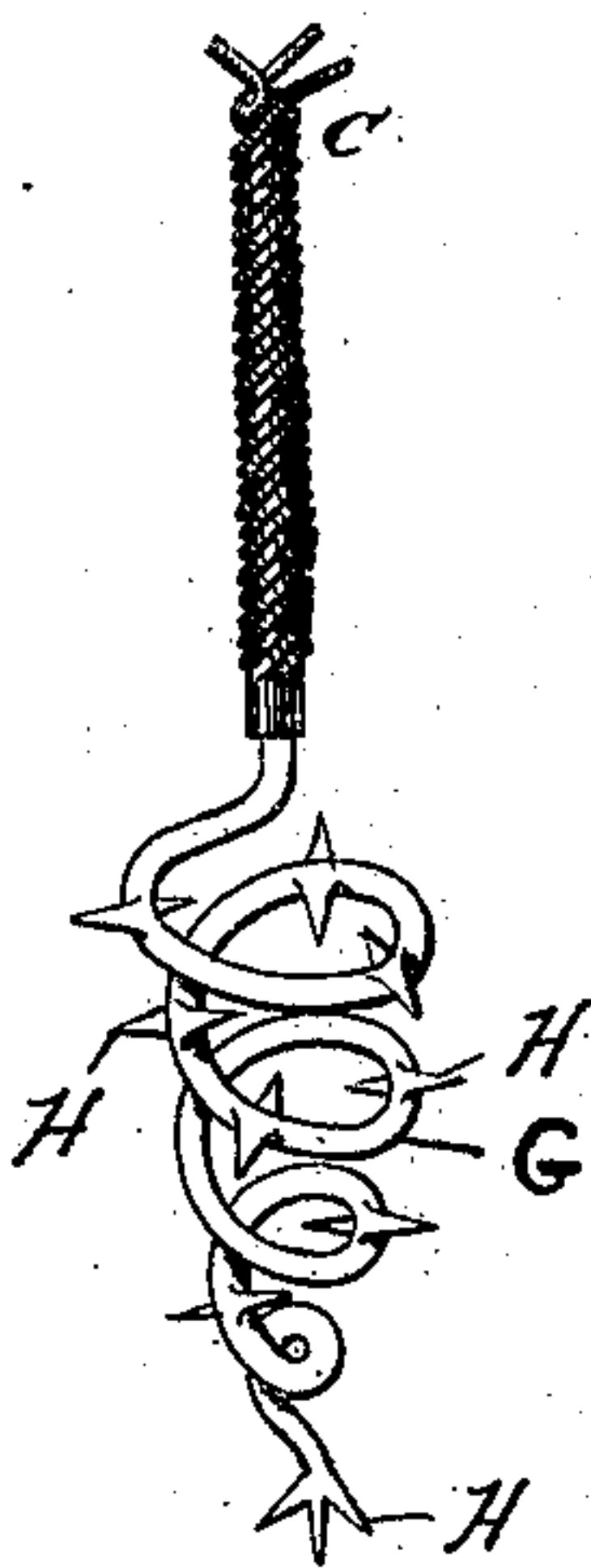


FIG. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

ACHILLE LELONG, OF VILLERS POTERIES, BELGIUM.

LIGHTNING-CONDUCTOR.

SPECIFICATION forming part of Letters Patent No. 693,555, dated February 18, 1902.

Application filed November 1, 1901. Serial No. 80,732. (No model.)

To all whom it may concern:

Be it known that I, ACHILLE LELONG, a subject of the King of the Belgians, and a resident of Villers Poteries, Belgium, have invented certain new and useful Improvements in Lightning-Conductors, of which the following is a specification.

Figure 1 shows a Franklin rod made in accordance with my invention. Fig. 2 shows a Melsens pear made in accordance with my invention and details for fixing the same. Fig. 3 shows the spiral which is employed in lieu of the ordinary earth-plate for conducting the electric current to the earth.

In Fig. 1 I have shown a Franklin rod *a*, composed of copper and provided with integral spikes or projections *b*. A part of one of the supporting-brackets *c* is shown in this view.

In Fig. 2 I show a Melsens pear *B*, provided with a series of integral spikes or projections *A*. This pear *B* is mounted on one or more feet *D*, which rest on lead rods *E*, usually mounted on zinc ridge-plates (not shown) on the roof. The conductor-wire *C* is connected

to the rod *a*, Fig. 1, above the securing-bracket *c* and to the pear *B*, Fig. 2.

In Fig. 3 is shown a copper spiral conductor *G*, that is employed in lieu of the ordinary earth-plate, this spiral being provided with a series of barbs or spikes *H* and having the conductor-wire *C* connected thereto. If desired, these spikes *H* may be protected against oxidation by being galvanized or tinned.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

A lightning-conductor comprising a conducting-wire connected at its upper end to a conducting-body provided with a series of spikes, and at its lower end to a spiral copper coil having a series of projecting spikes, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two witnesses.

ACHILLE LELONG.

Witnesses:

JULES REE,
GREGORY PHELAN,