

(No Model.)

L. HILLS.
INSULATOR.

No. 495,552.

Patented Apr. 18, 1893.

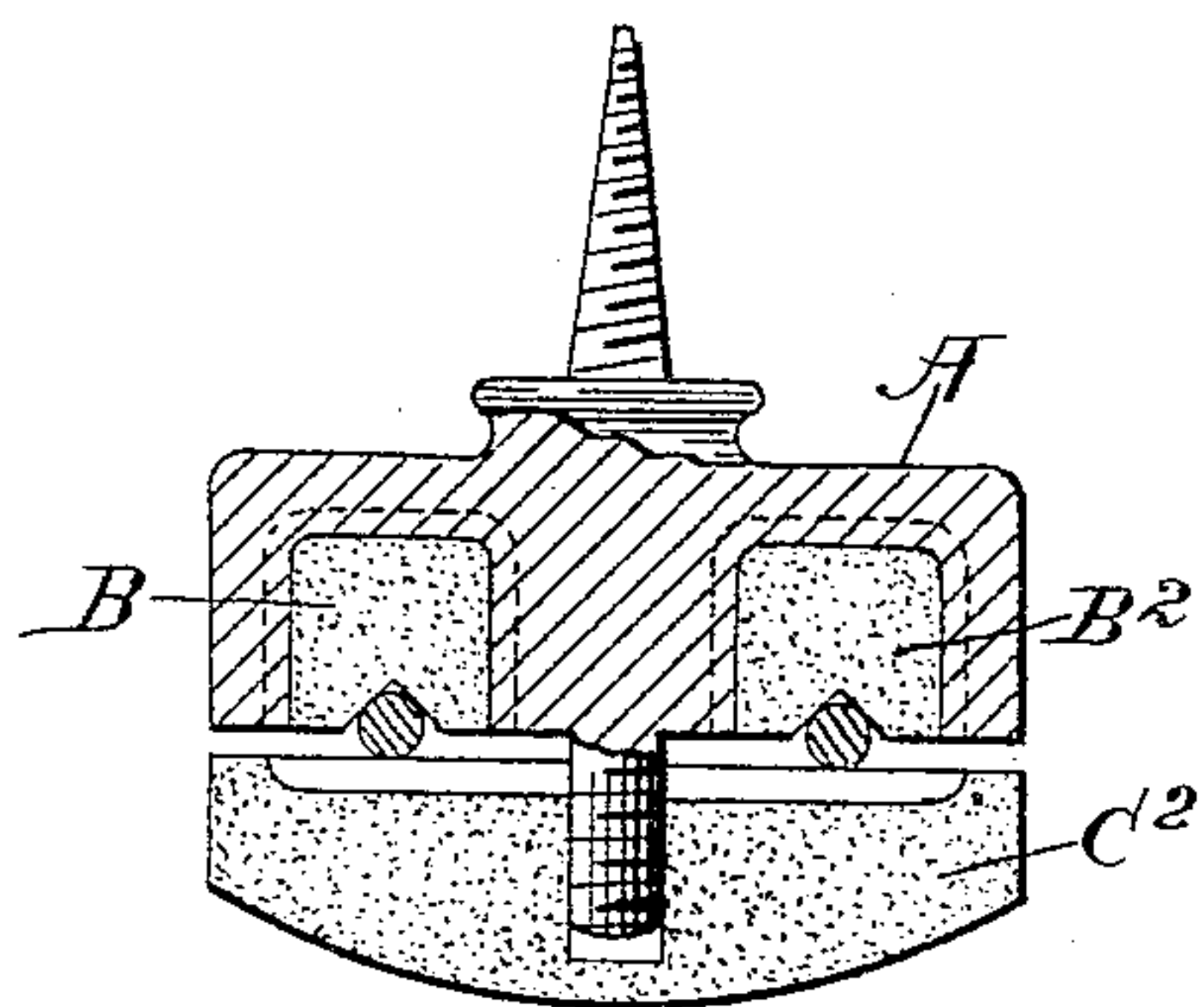
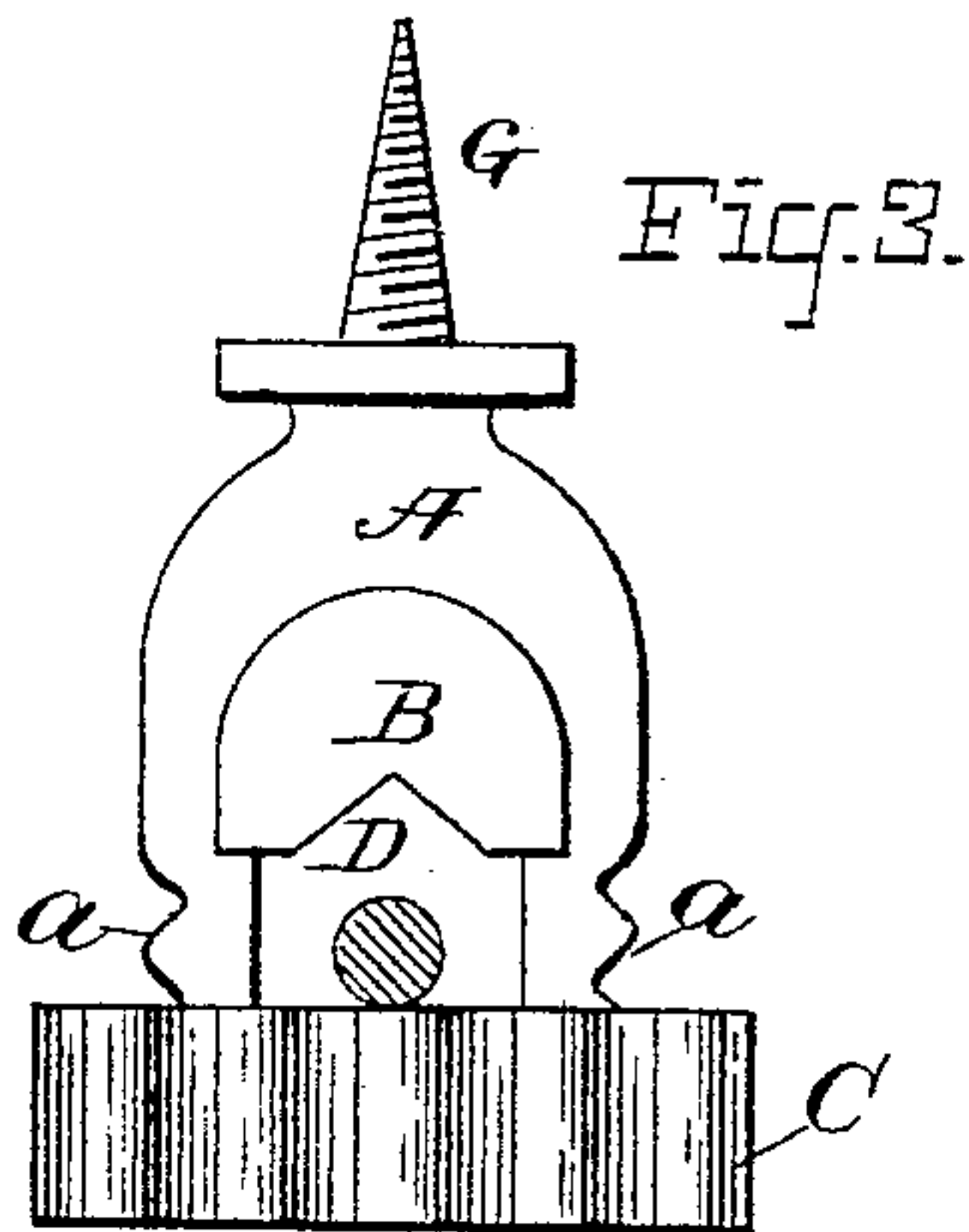
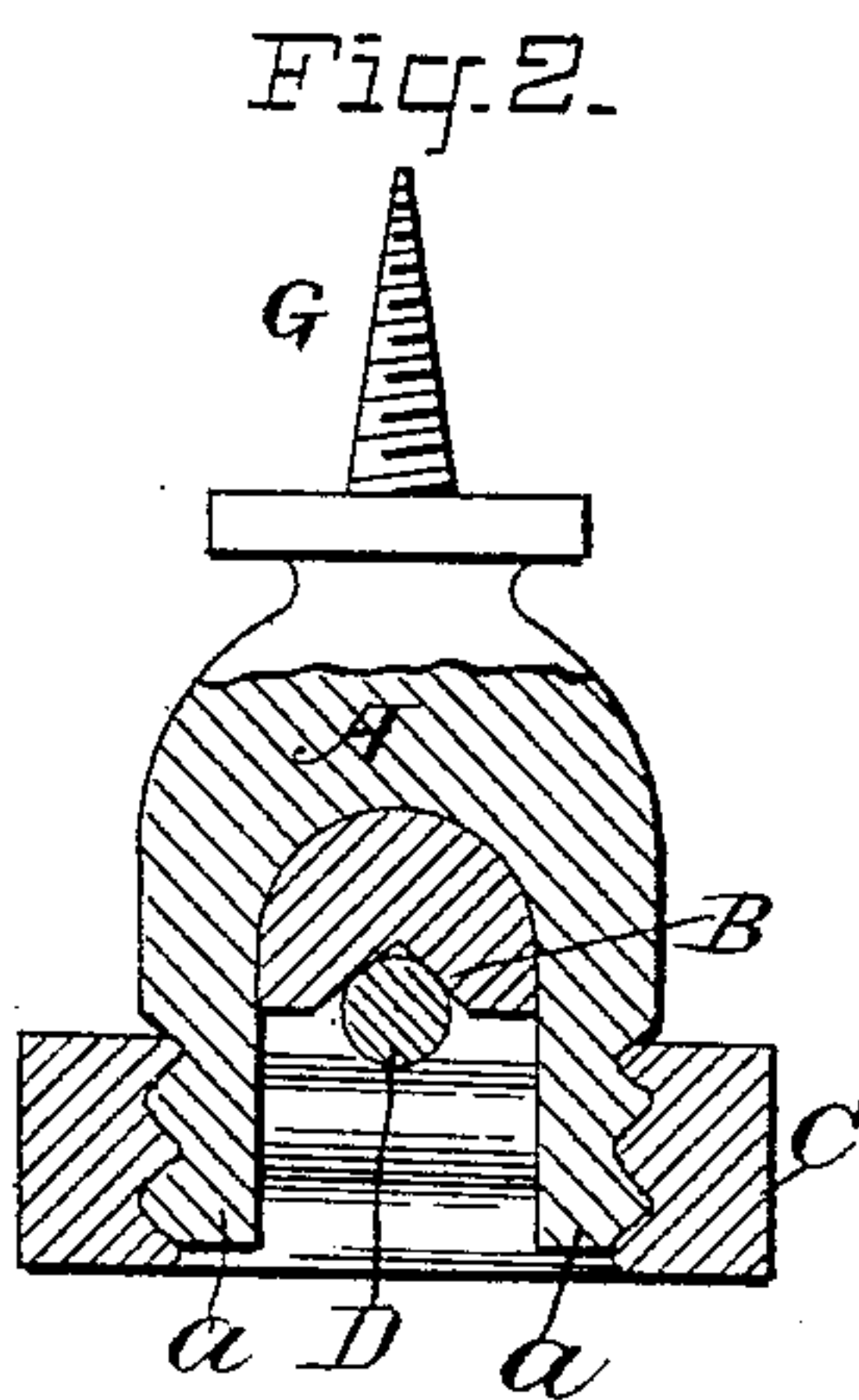
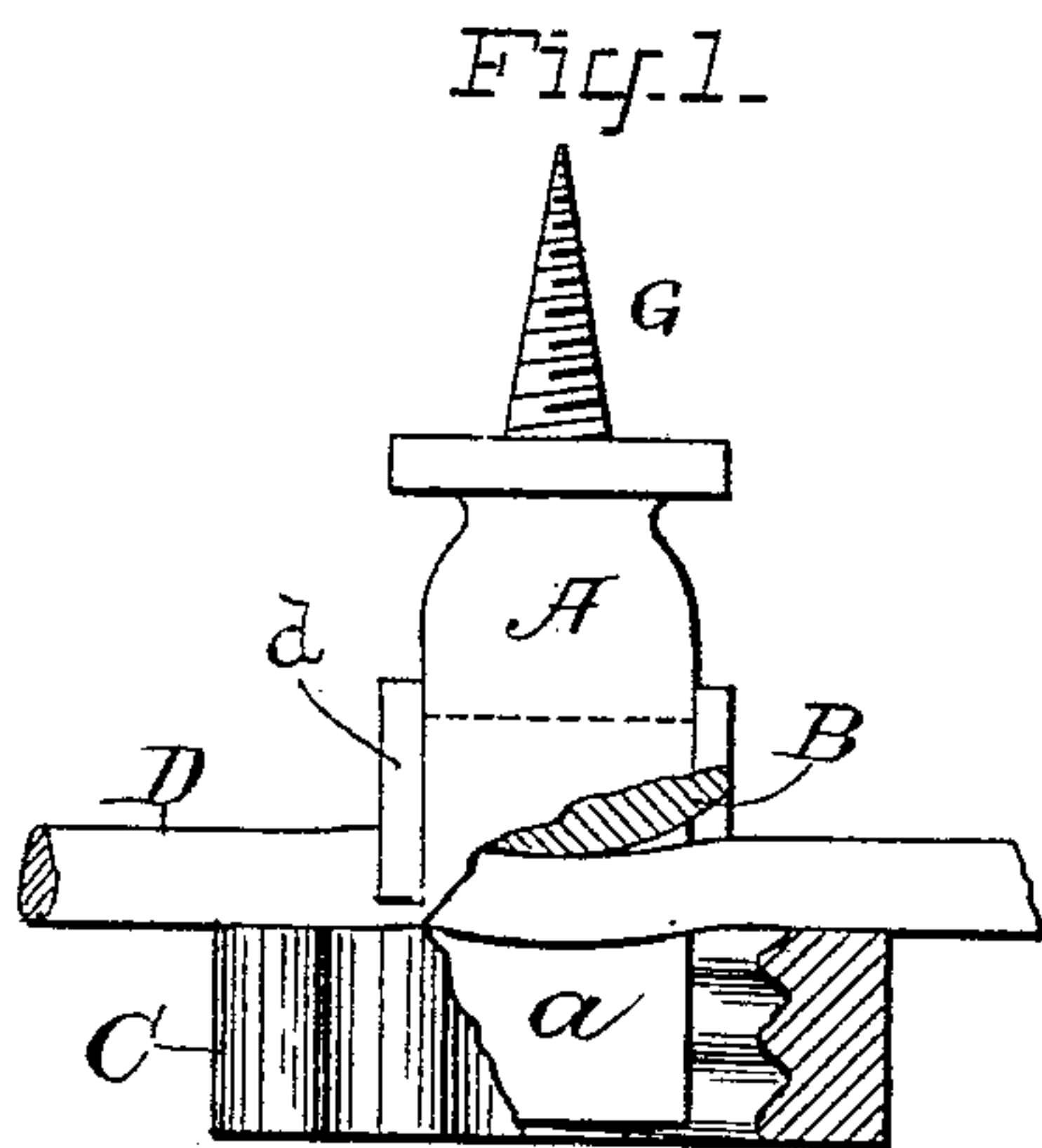


Fig. 4.

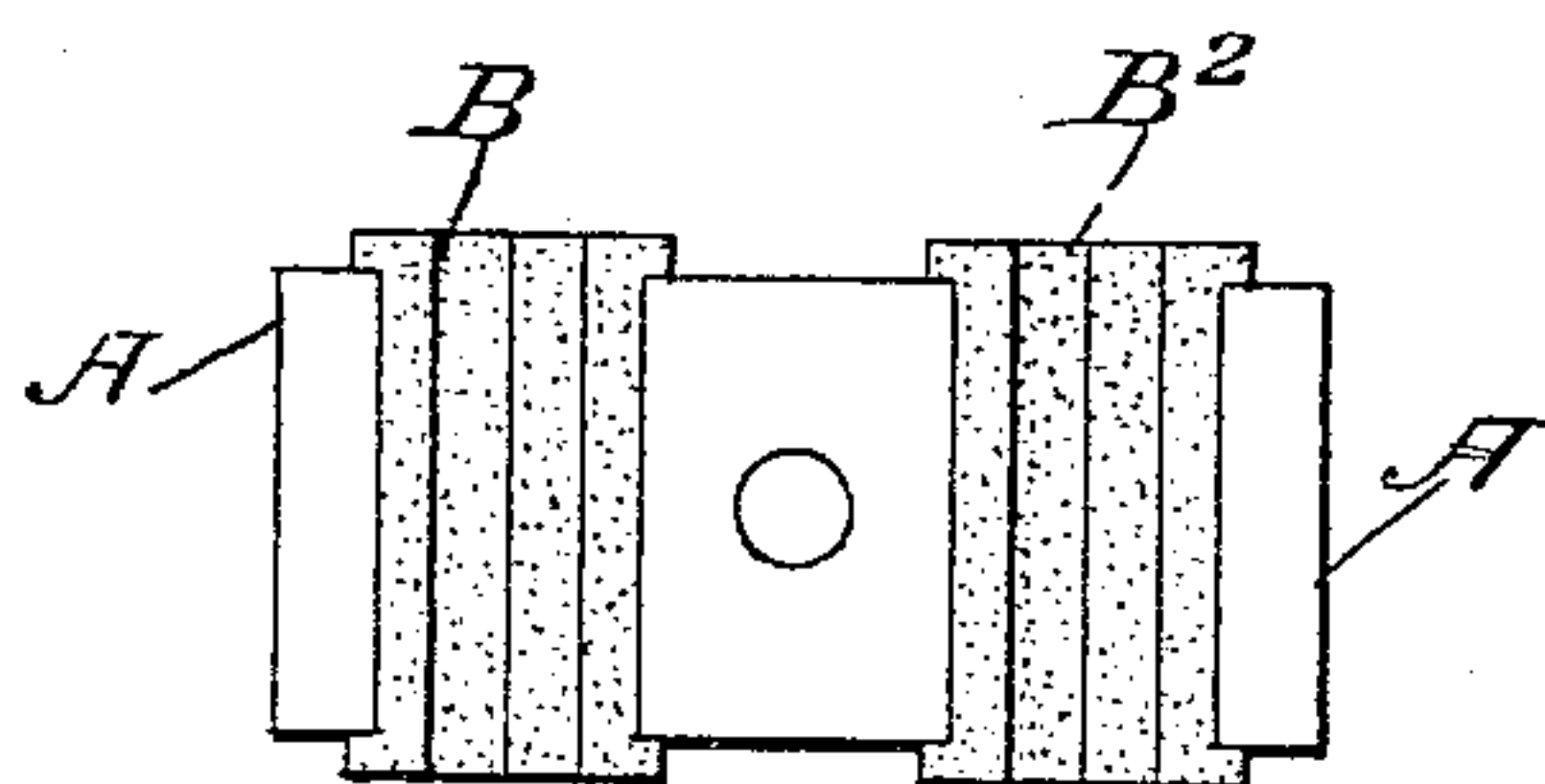


Fig. 5.

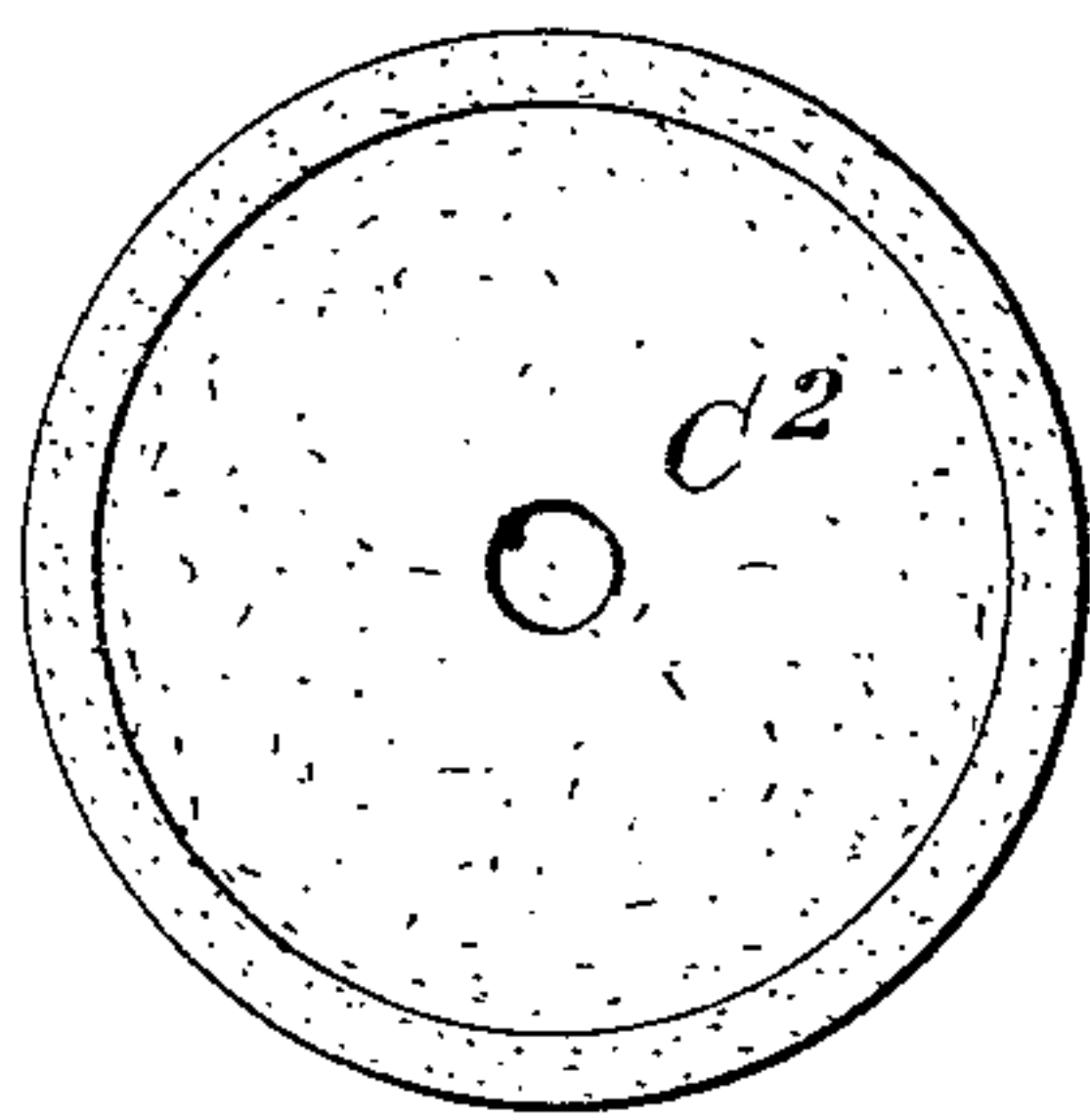


Fig. 6.

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UNITED STATES PATENT OFFICE.

LOUIS HILLS, OF NEW YORK, N. Y.

INSULATOR.

SPECIFICATION forming part of Letters Patent No. 495,552, dated April 18, 1893.

Application filed August 22, 1892. Serial No. 443,726. (No model.)

To all whom it may concern:

Be it known that I, LOUIS HILLS, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Electric-Wire Clamps or Holders, of which the following is a specification.

My invention relates to insulating clamps or holders for electric wires.

The object of the invention is to provide a simple, cheap and strong device adapted to facilitate the stringing of the wire and to provide for the ready detachment and attachment thereof to the support or clamp.

To this end my invention consists of a clamp or holder constructed as hereinafter described and more particularly specified in the claims.

In the accompanying drawings:—Figure 1, is a side elevation of a device embodying my invention, the wire being shown in place therein and parts of the device being broken away to better show the construction. Fig. 2, is a vertical central section of the same. Fig. 3, is an end elevation with the clamping screw ring or cap partly unscrewed. Fig. 4, is a vertical central section of a modified form adapted for supporting two wires. Fig. 5, is an inverted plan of the screw clamp or cap. Fig. 6, is a plan view of the base.

Referring to Figs. 1, 2 and 3; A, indicates the base or body of the device made preferably of metal and furnished at G, with a screw formed in one piece with the body by which the whole wire clamp may be properly fastened to a wall, ceiling or other support. The screw might, instead of being made in one piece with the body, be a separate screw passing through the body to its support.

In the form of the invention illustrated in Fig. 1, the body A, has two prongs or projections *a*, between which, at B, is a seat or support for the wire placed between said prongs. The fork *a*, constitutes a stem or projection from the body which is formed with a screw thread, as indicated, adapted to receive a clamp nut C, which screws down upon said projection and engages the wire D, at opposite ends of the seat.

The seat B, is grooved as indicated to prevent lateral movement of the wire, but is preferably depressed at its ends or, in other words,

is higher at the center so that the clamp nut C, engaging with the wire at opposite ends of the support may more readily bend the same and hold the wire firmly against longitudinal strain.

The seat B, is a block of insulating material held between the prongs *a*, and preferably provided as at *d*, with flanges that engage the prongs and prevent the block from being displaced.

When the clamping nut or cap C, is loosened or removed the wire may be placed between the prongs and then the nut applied to hold it in place against detachment and to clamp it firmly against longitudinal movement by bending it as indicated.

The insulating material for the seat B, may be porcelain, or mica composition or other insulating material, as desired. The clamp C, may be of some similar or different insulating material.

Fig. 4, illustrates a modification adapted to hold two wires. Two seats or supports B, B², for the wires are shown, said supports or seats being received in recesses or openings between prongs or projections from the body A. The second prong or projection is extended to form a screw threaded stem or projection adapted to receive a clamping cap or nut C², which is recessed on its inner face as shown. The flange at the edge of the cap or nut C², engages the wire at the opposite ends of the support and holds it firmly against longitudinal strain.

It will be obvious by making the parts of metal where they engage the wires, the device may be employed for making electrical connection by a bare wire at the same time that it clamps it.

What I claim as my invention is—

1. In an electric wire clamp, the combination, substantially as described, of the forked metal base, having exterior screw thread, the wire bearing block of insulating material supported in the form, and the clamping nut of insulating material adapted to screw upon the fork and bend the wire.

2. The combination, substantially as described, of the metal base having a screw threaded stem or projection, a block of insulating material carried by the base and adapted

to form a seat for the wire, and a clamping nut of insulating material adapted to engage and hold the wire against detachment from the support.

- 5 3. The combination with the forked metal base, of the insulated block seated in the fork and provided with flanges *d*, *d*, and the clamping nut C.

Signed at New York, in the county of New York and State of New York, this 19th day of 10 August, A. D. 1892.

LOUIS HILLS.

Witnesses:

WM. H. CAPEL,
THOS. F. CONREY.