

(No Model.)

A. H. MERSHON.

WIRE SUPPORT FOR UNDERGROUND CONDUITS.

No. 265,621.

Patented Oct. 10, 1882.

Fig. 1.

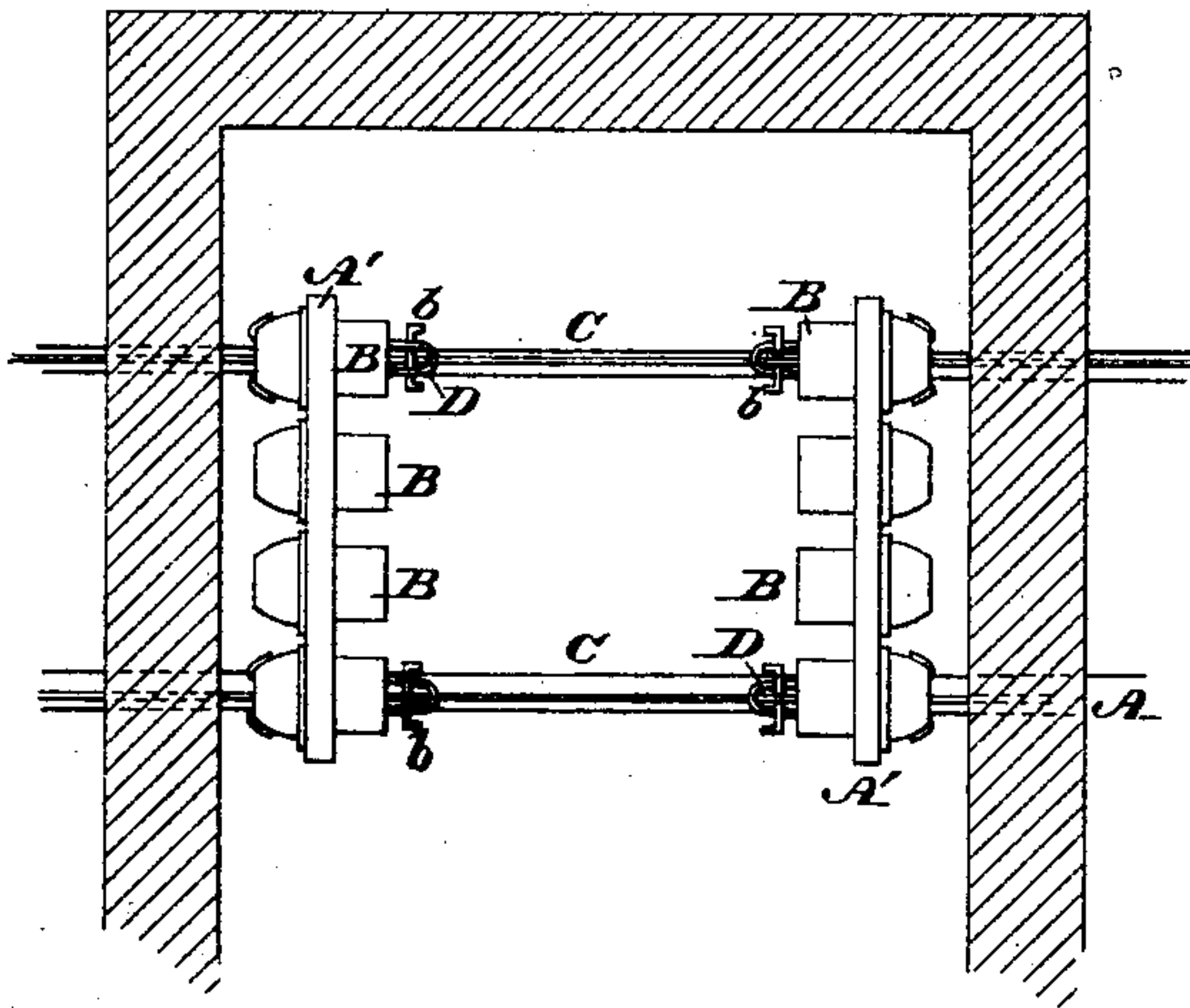


Fig. 2.

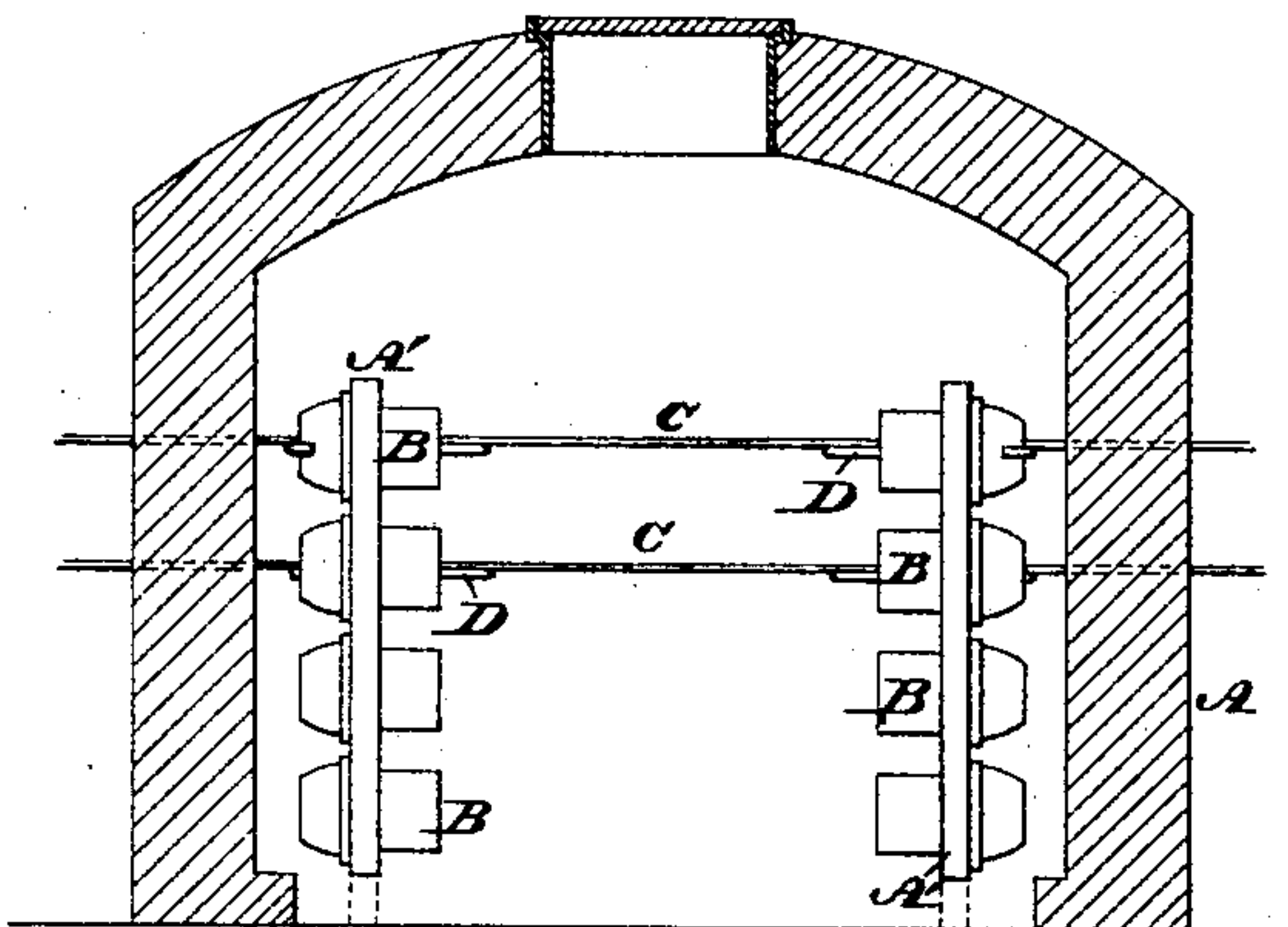
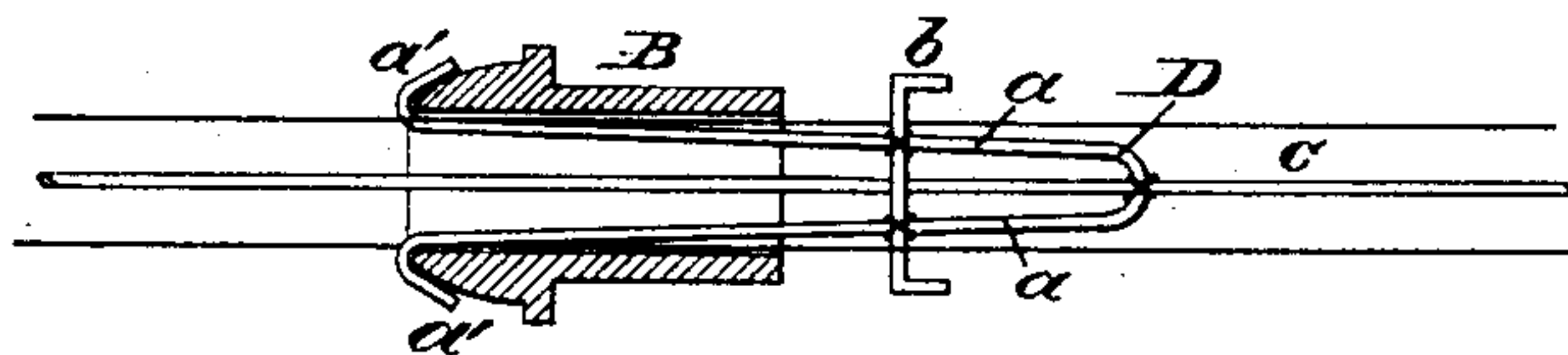


Fig. 3.



WITNESSES:

W. P. Grant,
W. F. Fischer

INVENTOR:

Albert H. Mershon,
BY *John A. Gundersheim* ATTORNEY.

UNITED STATES PATENT OFFICE.

ALBERT H. MERSHON, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
THE MORSE UNDERGROUND CONDUIT COMPANY, OF NEW JERSEY.

WIRE-SUPPORT FOR UNDERGROUND CONDUITS.

SPECIFICATION forming part of Letters Patent No. 265,621, dated October 10, 1882.

Application filed January 26, 1882. (No model.)

To all whom it may concern:

Be it known that I, ALBERT H. MERSHON, a citizen of the United States, residing in the city and county of Philadelphia, and State of Pennsylvania, have made a new and useful Improvement in Wire-Supports for Underground Conduits, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a top or plan view of the interior of a conduit station or chamber, showing my invention in position. Fig. 2 is a vertical section thereof. Fig. 3 is a horizontal section, enlarged, of a detached part.

My invention consists of means for securely connecting electric wires and retaining them in position in underground stations or chambers, as will be hereinafter fully set forth.

Referring to the drawings, A represents a station or chamber, within which are sustained upright plates A', which are perforated horizontally, the perforations receiving insulated sleeves B, fixed to said plates, through which are passed the electric wires C, directed into the station A.

D represents supports, each of which is of U or V form, the legs *a* whereof being bent or hooked, as at *a'*, and may have secured to them cross-bars *b*, of which latter any desirable number may be employed. The supports D are inserted in coincident sleeves B, in opposite plates A', the hooks *a'* engaging with the outer ends of said sleeves, whereby the extent of projection of the supports into the station is limited by said hooks. After the wires C are drawn taut and run into the station they are connected by wire or other means to the legs *a* and cross-bars *b*, when the latter are required, and thus properly sustained and securely retained in position, the ends of the

wires being duly spliced. It will be seen that the strain on the wires is received by the supports, and as the latter are reliably connected to the sleeves B and prevented from being displaced or drawn into the station at either end the wires will be kept stretched along the route, and the portions of the wires within the station are prevented from sagging, whereby the wires may be inspected and tested, and are in position and condition for having connections made with them for branches or lateral routes, houses, &c.

It is evident that the sleeves B may be dispensed with and the supports D attached directly to perforated plates in the walls of the station or chamber, the wires being connected to said supports D, as in the previous case, and properly insulated. The supports are formed of metal, for purposes of strength and convenience of construction, and, owing to their angular or forked form and connection of the cross-bars, are somewhat elastic, whereby provision is made for preventing injury to the supports due to the expansion and contraction of the wires.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In combination with a testing-box or station of an electric conduit, a wire-support located therein, consisting of plates having perforations, as set forth, in combination with insulating sleeves and supports, as stated, whereby the wires are properly sustained and securely retained in position, substantially as and for the purpose described.

A. H. MERSHON.

Witnesses:

JOHN A. WIEDERSHEIM,
A. P. GRANT.