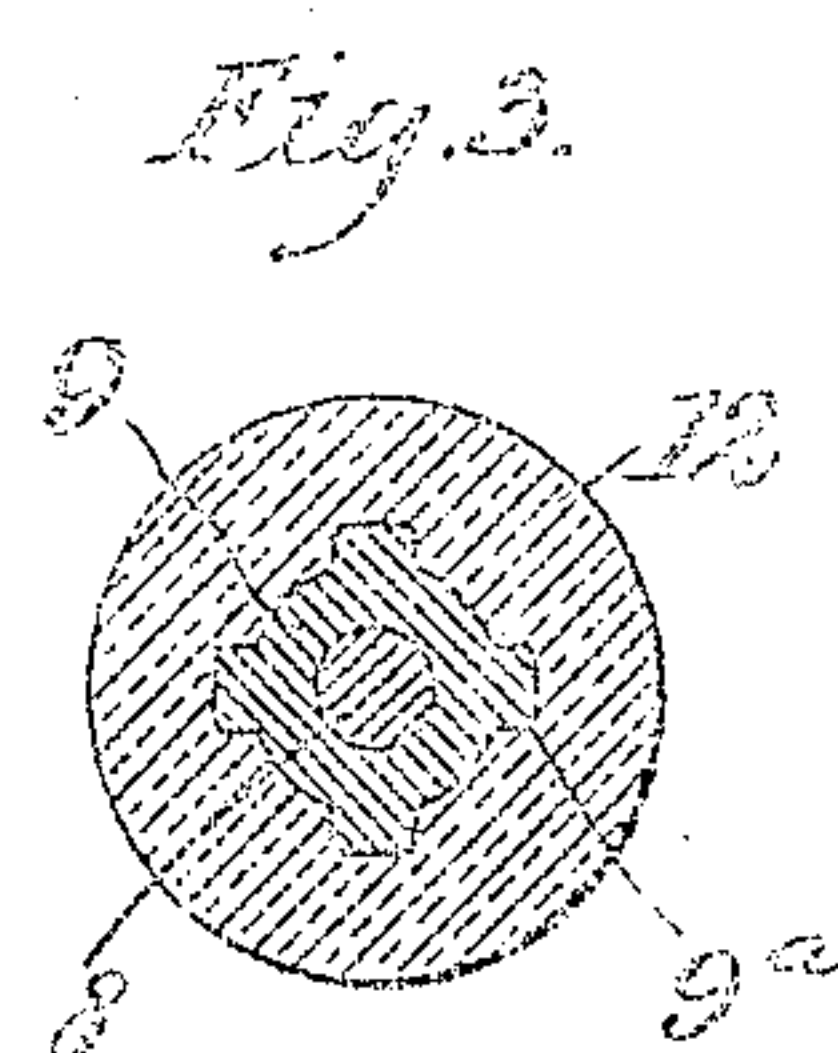
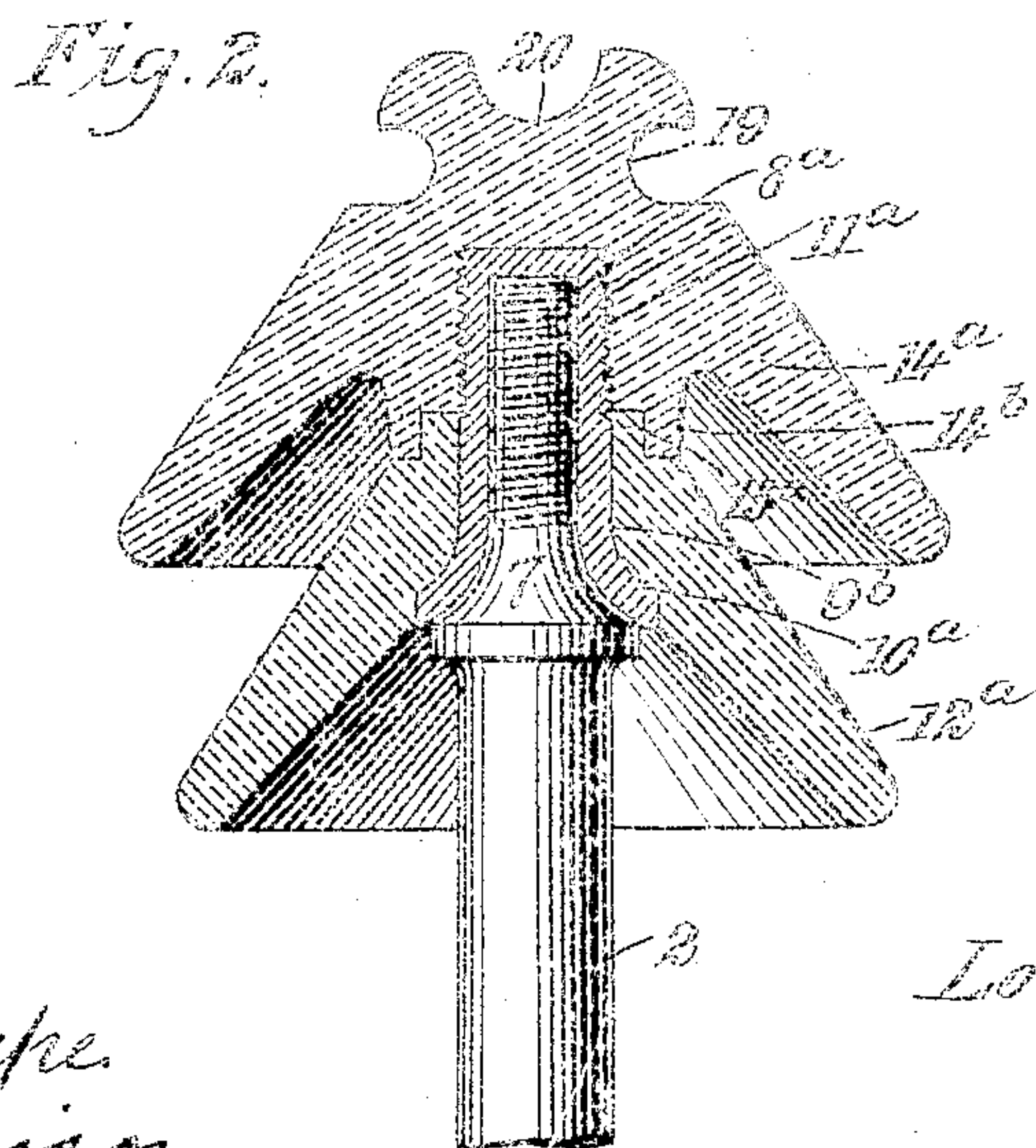
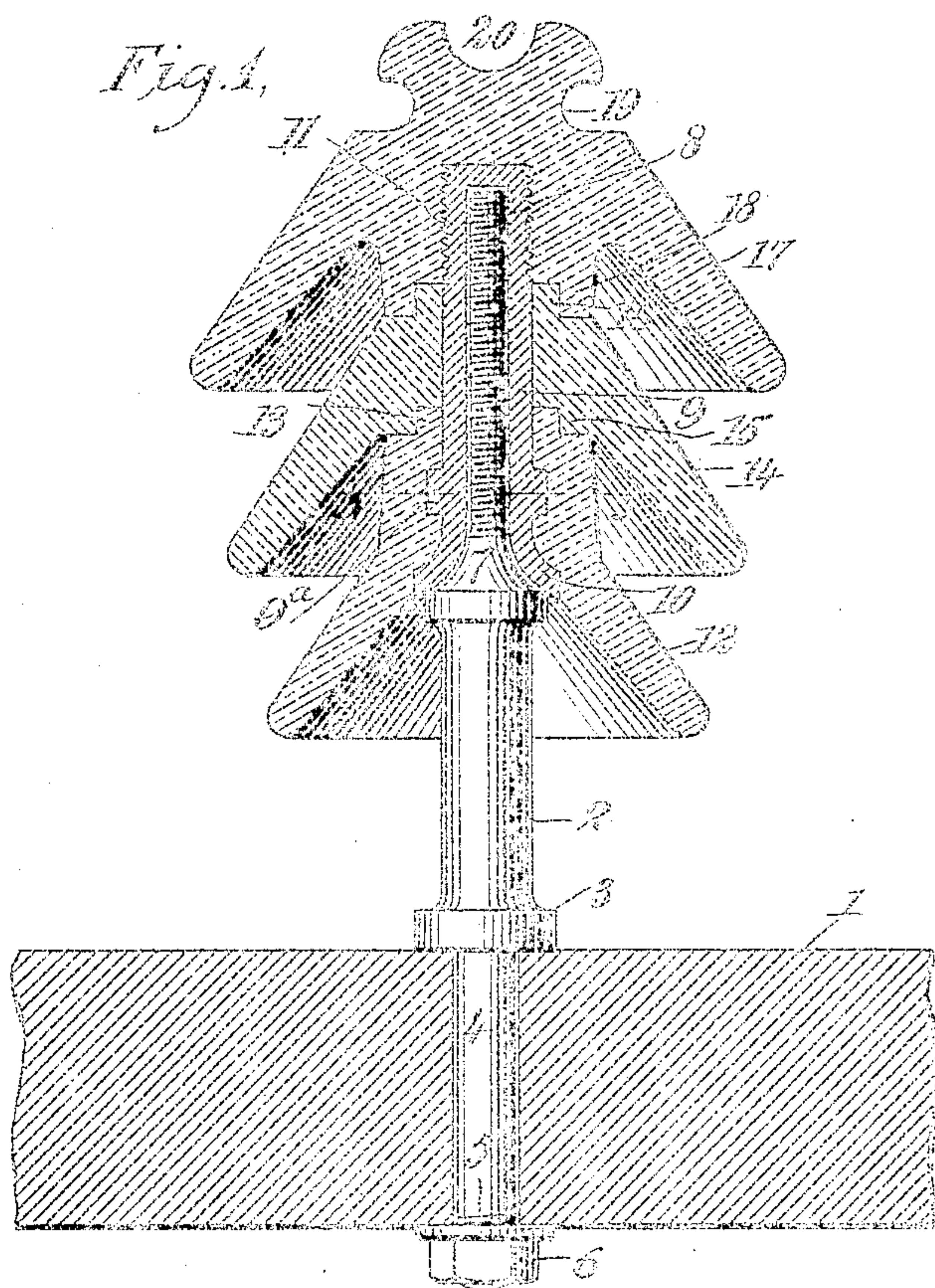


No. 786,690.

PATENTED APR. 4, 1905.

L. STEINBERGER.
MULTIPLE HOOD INSULATOR.
APPLICATION FILED MAR. 25, 1903.



WITNESSES:

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LOUIS STEINBERGER, OF NEW YORK, N. Y.

MULTIPLE-HOOD INSULATOR.

SPECIFICATION forming part of Letters Patent No. 786,690, dated April 4, 1905.

Application filed March 25, 1903. Serial No. 149,502.

To all whom it may concern:

Be it known that I, LOUIS STEINBERGER, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Multiple-Hood Insulator, of which the following is a full, clear, and exact description.

My invention relates to insulators for supporting electrical conductors, my more particular object being to produce a neat, cheap, efficient, and reliable insulator of composite character and which may be taken apart and put together at will.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a central section through one form of my insulator. Fig. 2 is a somewhat similar view of another form thereof, and Fig. 3 is a section on the line 3-3 in Fig. 1.

Mounted upon the cross-beam 1 is a metallic pin 2, provided with a shoulder 3 and a stem 4, the stem having a thread 5, which is engaged by a nut 6 in the usual manner. (See Fig. 1.) The upper end of the pin 2 is provided with a substantially frusto-conical shoulder 7 and with a threaded stem 8. Mounted upon this threaded stem and concentric therewith is a sleeve 9, having a thread 11 and provided at its lower end with an enlarged or flared portion 10, adapted to fit snugly upon the shoulder 7.

The metallic sleeve 9 is provided with an annular boss 9^a integral therewith, and by means of this boss the sleeve 9 is rigidly connected with the hood 12, so as to virtually form a part thereof. As the sleeve 9 and the hood 12 are inseparably connected together, the insulator clearly consists of three parts, one part being composed of the hood 12 and the sleeve 9 and the two other parts being the hoods 14 and 17, hereinafter described. The hood 12 of the shape shown is provided at its upper extremity with an annular flange 13 integral therewith. The hood 14 is provided internally with an annular bead 15, which fits around the flange 13 so as to con-

nect the two hoods together, and this hood 14 is likewise provided with an annular flange 16. Over the hood 14 is a third hood 17 of the shape indicated in Fig. 1 and having an internal flange 18, which fits neatly around the flange 16 of the hood 14. The upper hood is provided with the usual tie-wire groove 19 and main groove 20.

To connect the three parts together, the hood 14 may be slipped over the sleeve 9 and fitted upon the hood 12, and the hood 17, which is threaded, as shown, is then screwed tightly upon the thread 11 of the sleeve 9. The entire insulator may be shipped in this condition and treated as a single article. To be applied upon the pin 2, it is merely screwed down by means of the threads 8 until the horn-shaped end 10 fits snugly upon the shoulder 7. If desired, however, and especially where large insulators are used, the three parts may be mounted one at a time upon the pin 2.

It should be noted that the three parts are detachable and interchangeable, so that if one of the hoods be chipped or broken it may be removed and another hood of a like kind substituted. The joints formed between the several hoods act to some extent as additional insulation.

In the form shown in Fig. 2 the pin 2 is provided with a shoulder 7, as above described, and with a threaded stem 8^a. A cylindrical sleeve 9^b, provided at its bottom end with a horn-shaped portion 10^a, is threaded internally and adapted to fit upon the threaded stem 8^a. The sleeve 9^b is provided externally with a thread 11^a. A hood 12^a is detachably mounted upon the metallic sleeve 9^b and is provided with a flange 13^a in immediate contact therewith. A hood 14^a is provided with a flange 14^b and is concentric with the flange 13^a of the hood 12^a. The tie-wire groove 19 and the main conductor-groove 20 are of the construction above described with reference to Fig. 1.

With the type of insulator shown in Fig. 2 the hoods may be connected together by means of the sleeve 9^b, so that the insulator complete may be shipped as an article of manufacture, or the several parts may be

placed in position one at a time, so as to build the insulator upon the pin 2. In this structure, as in the one first described, the parts are detachable and therefore interchangeable for the purposes stated.

The insulating material employed in making the hoods may be of any kind in which the coefficient of expansion is not so much less than that of metal as to cause the hoods to crack. There are quite a number of substances suitable for this purpose on the market. My preferred substance, however, is the insulating compound known under the trade-name of "electrose." This compound is well known to the electrical trades and has been in regular use for the past ten years by some of the foremost concerns in the electrical manufacturing business in this country and in Europe. Electrose is not vitrified and possesses to a certain extent the qualities of vulcanized hard rubber.

I do not limit myself to any particular form of hood nor to any particular form of connecting member, as it is evident that many changes in the construction, form, and arrangement of parts may be resorted to without departing from the spirit of my invention.

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

1. A multiple-hood insulator, comprising a plurality of separate hoods of insulating material, and a hollow metallic locking member for connecting the same together, said hollow metallic locking member being provided internally with a thread for securing the same upon a pin for supporting the same.

2. A multiple-hood insulator having a plurality of separate hoods of insulating material, one of which is provided with a screw-thread, and a metallic member having an enlarged portion for engaging another of said hoods, said metallic member being provided with a screw-thread for engaging said screw-thread of said first-mentioned hood, and also provided with a screw-thread whereby said metallic member may be supported.

3. A multiple-hood insulator, comprising a sleeve-like member provided internally with a thread for engaging a supporting-pin and provided externally with a thread extending from the end of said sleeve to the proximate middle thereof, said sleeve being provided at its end opposite said thread with an enlarged portion, a hood mounted upon said sleeve and engaging said enlarged portion, which forms a limiting-stop therefor, and another hood provided internally with a thread engaging said thread upon said sleeve, said hoods being provided with interlocking edges for holding the same securely in contact with each other.

4. A multiple-hood insulator, comprising a sleeve provided at one of its ends with an

enlargement of tapering form and at its other end with a screw-thread external to said sleeve, and a plurality of hoods mounted upon said sleeve, one of said hoods being provided with a tapering portion resting upon said enlargement, and another of said hoods being provided internally with a thread engaging said thread external to said sleeve.

5. A multiple-hood insulator having a connecting member, and a plurality of separate hoods detachably engaging the same, said hoods being locked together by virtue of their engagement with said connecting member, said connecting member being provided internally with a thread for securing the same on a pin.

6. A multiple-hood insulator, comprising a plurality of separable hoods, and a metallic member for engaging the same and having a clamping portion at one of its ends, said metallic member being provided with external threads at the other of its ends for the purpose of locking said hoods together independently of a supporting-pin, said metallic member being also provided internally with threads for the purpose of mounting the same.

7. A multiple-hood insulator, comprising a metallic sleeve provided internally with a surface for engaging a pin, said sleeve being provided externally with a thread encircling one of its ends, the other end of said sleeve being enlarged, a hood of insulating material encircling said sleeve and engaging said enlarged end thereof, which constitutes a limiting-stop for said hood, and another hood provided internally with a thread engaging said thread of said sleeve, said hoods being adapted to lock together.

8. A multiple-hood insulator comprising a plurality of separable hoods of insulating material engaging each other, and a metallic member provided with a portion for supporting one of said hoods and with a screw-thread for engaging another of said hoods so as to force said hoods toward each other, said metallic member being further provided with means whereby it may be mounted.

9. A multiple-hood insulator, comprising a plurality of separate hoods one fitted over the other and each provided with a flange for engaging the hood immediately adjacent thereto, and a metallic member for detachably locking said hoods together, said member being provided with means for supporting one of said hoods, and also provided with a screw-thread whereby said hoods may be locked together and removed as a unit.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LOUIS STEINBERGER.

Witnesses:

WALTON HARRISON,
EVERARD BOLTON MARSHALL.