

919,771.

Patented Apr. 27, 1909.

2 SHEETS—SHEET 1.

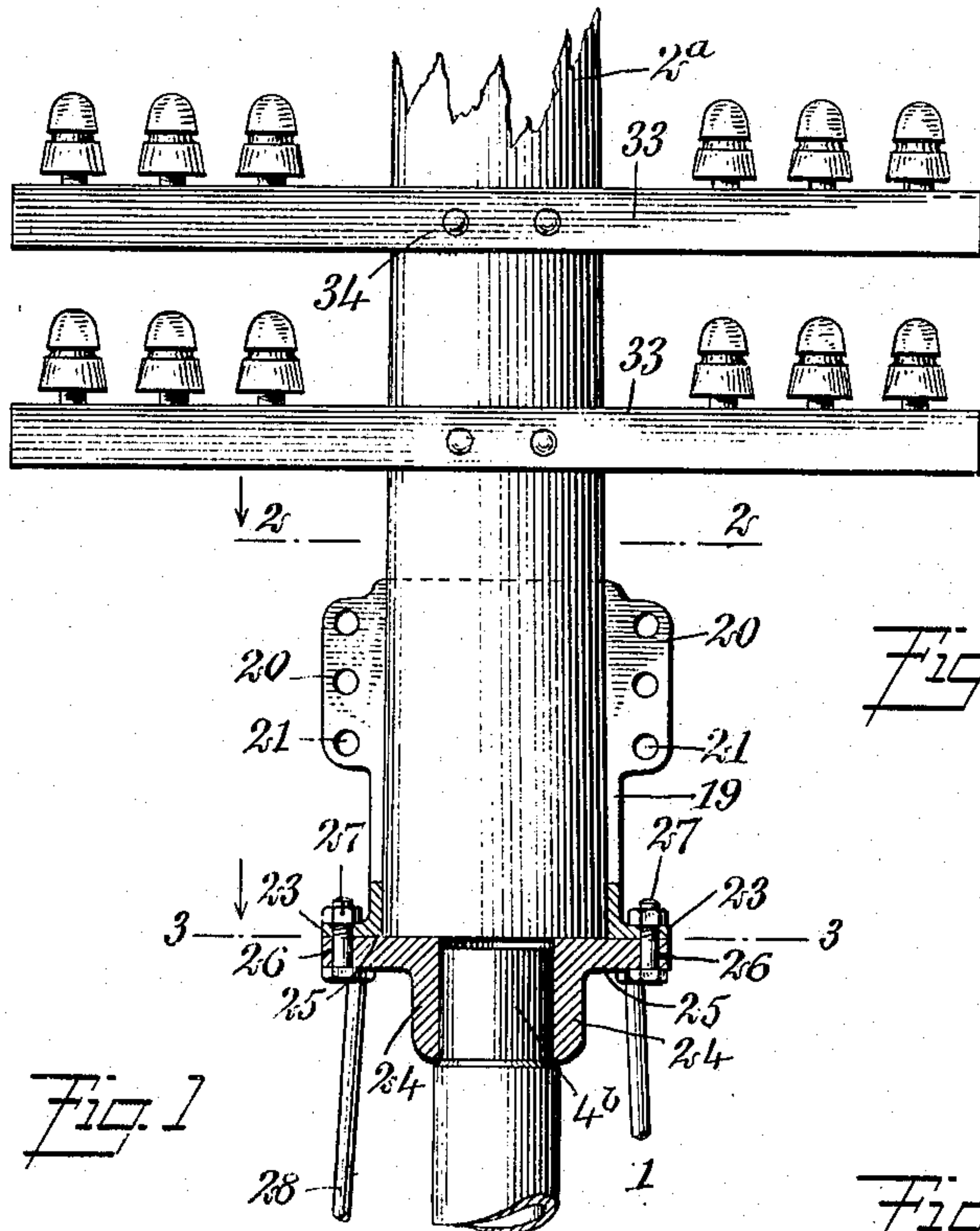


Fig. 1

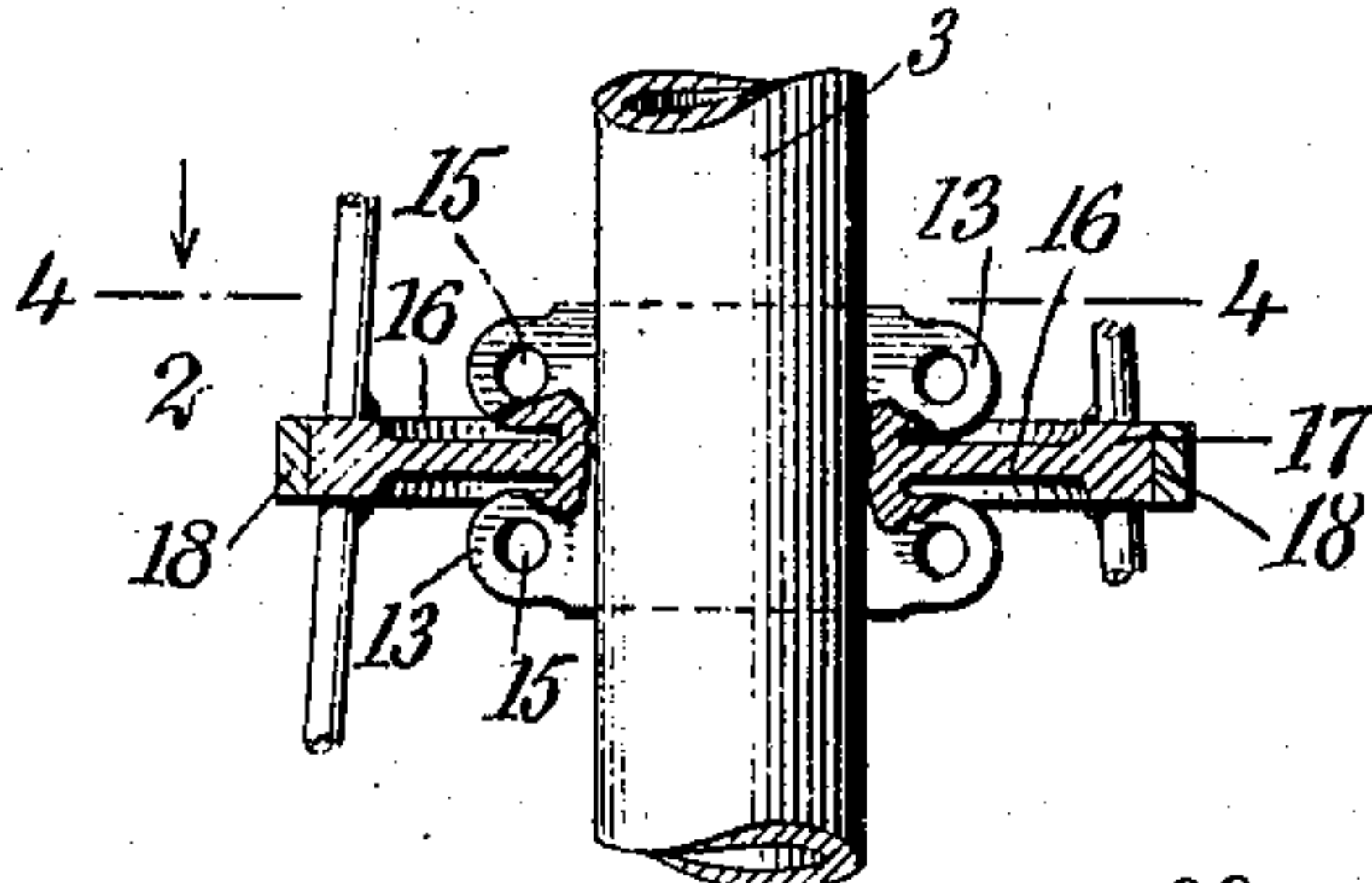


Fig. 2

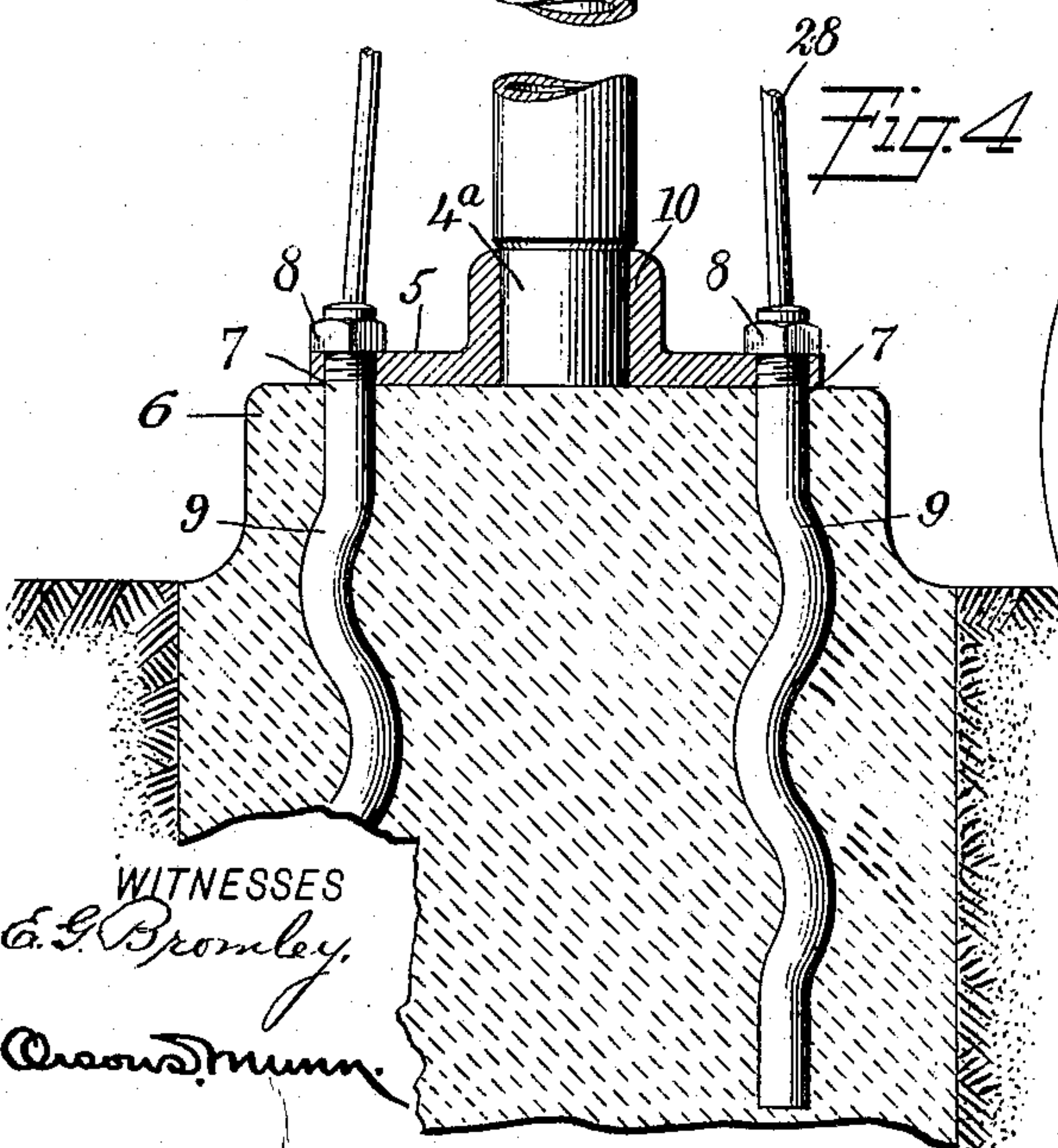


Fig. 3

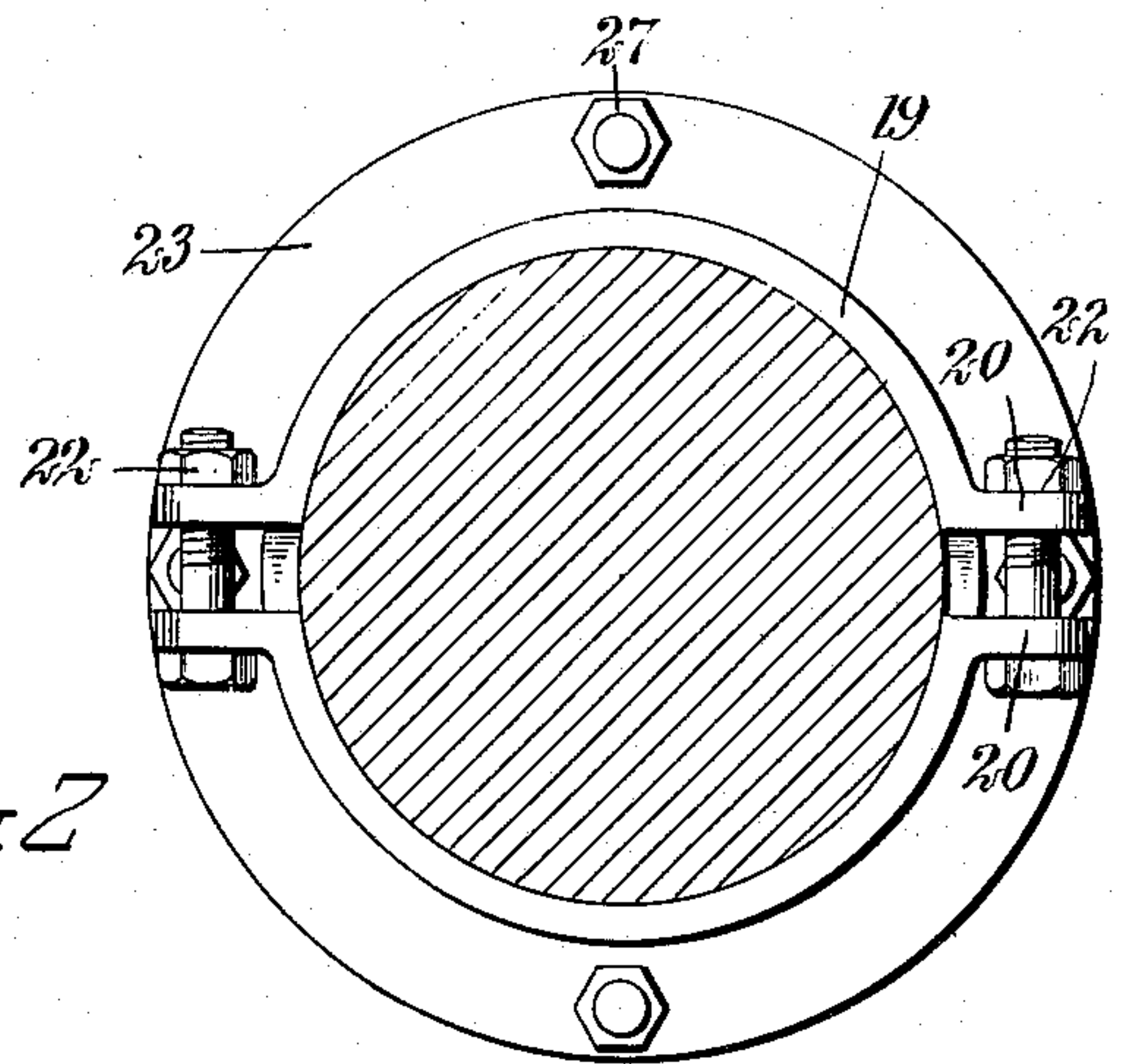
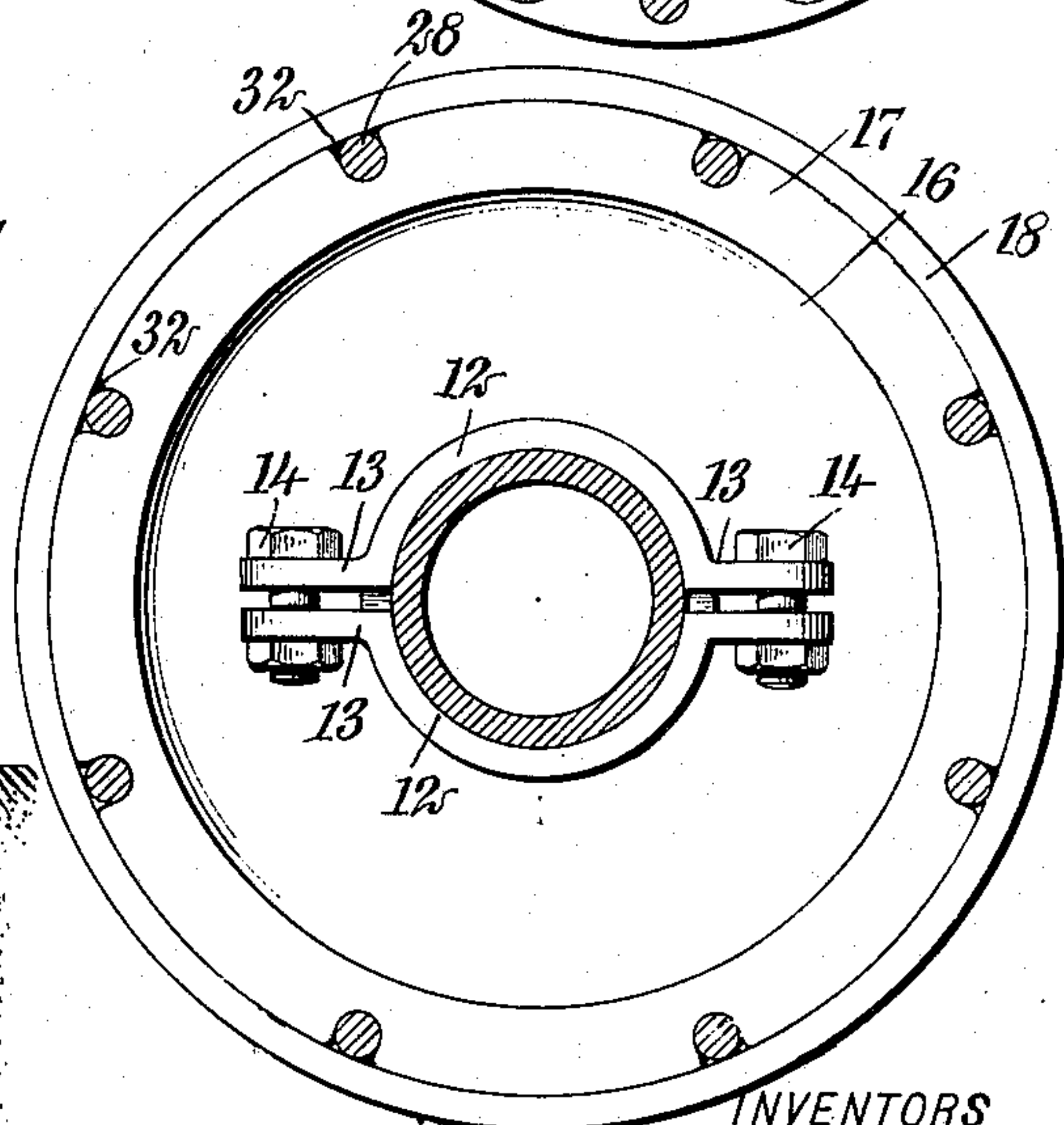
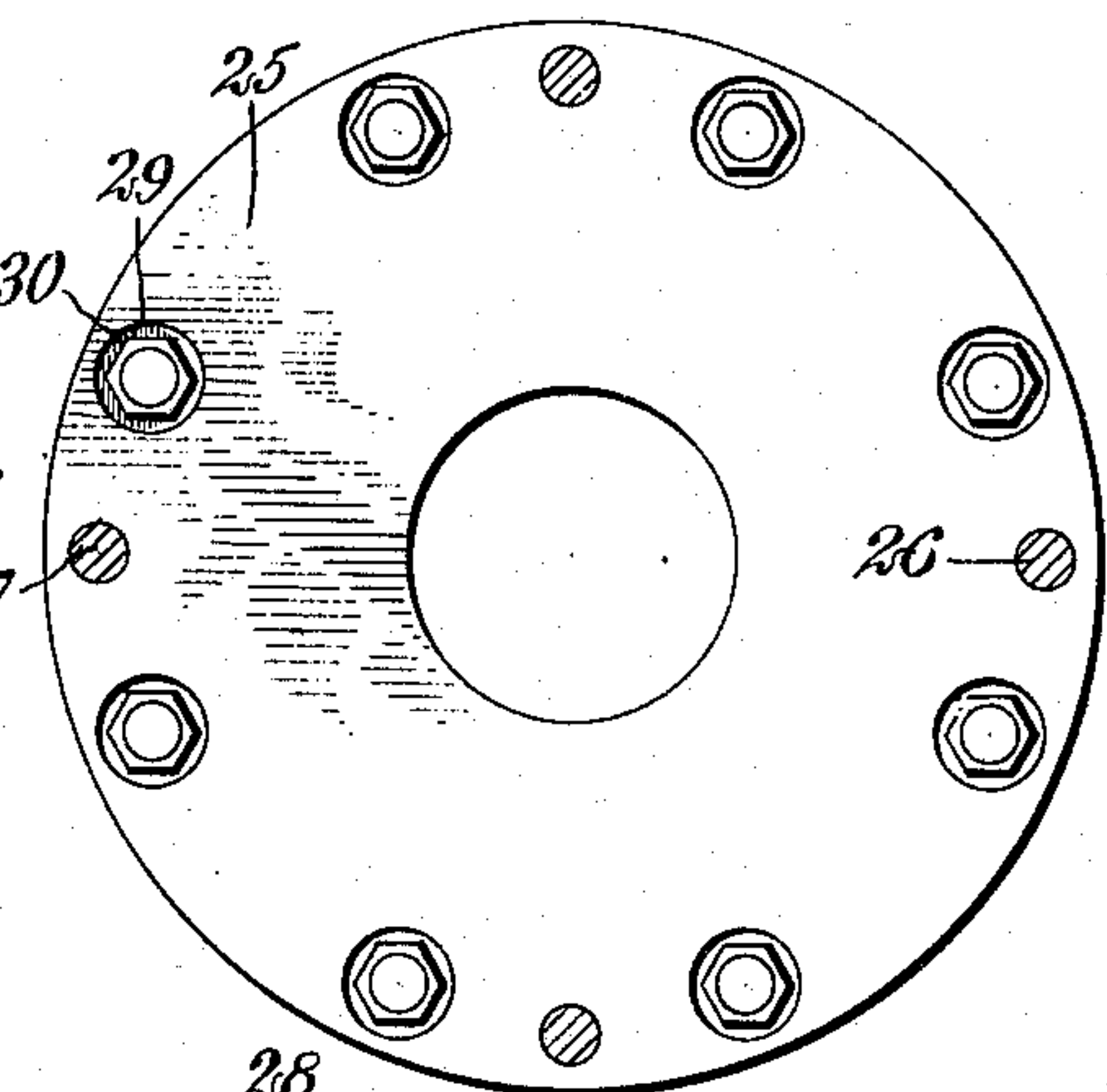


Fig. 4



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POLE.

APPLICATION FILED JAN. 13, 1908.

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2 SHEETS—SHEET 2.

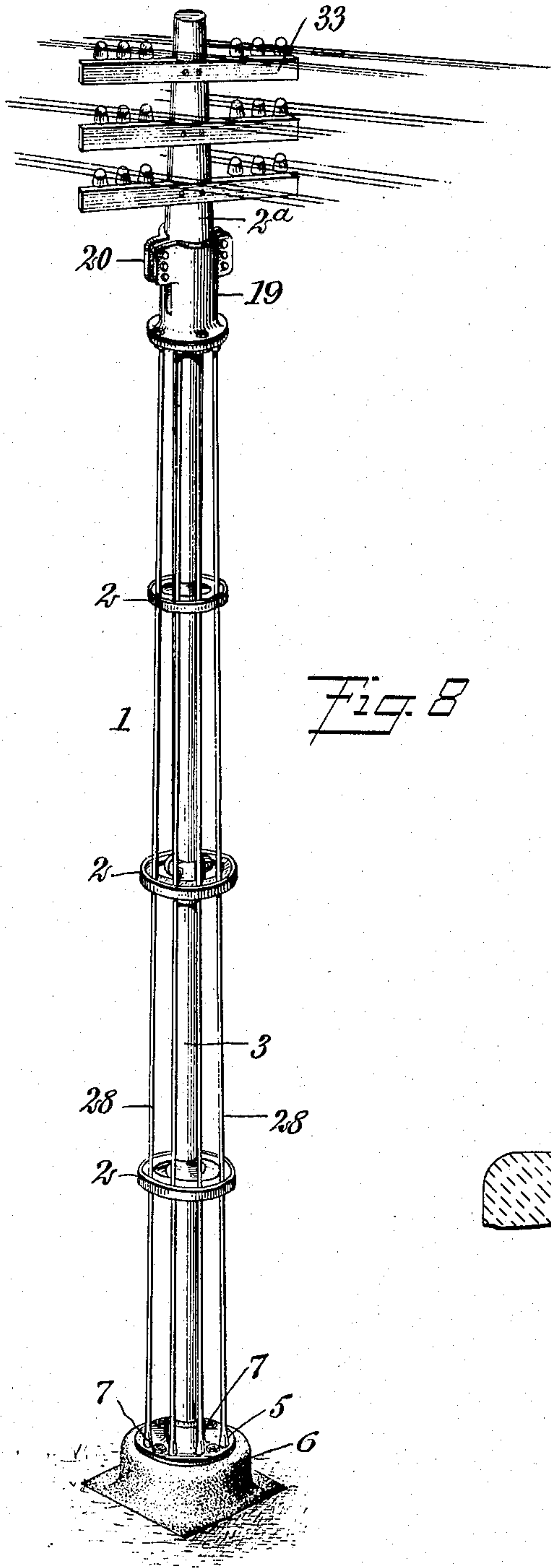


Fig. 8

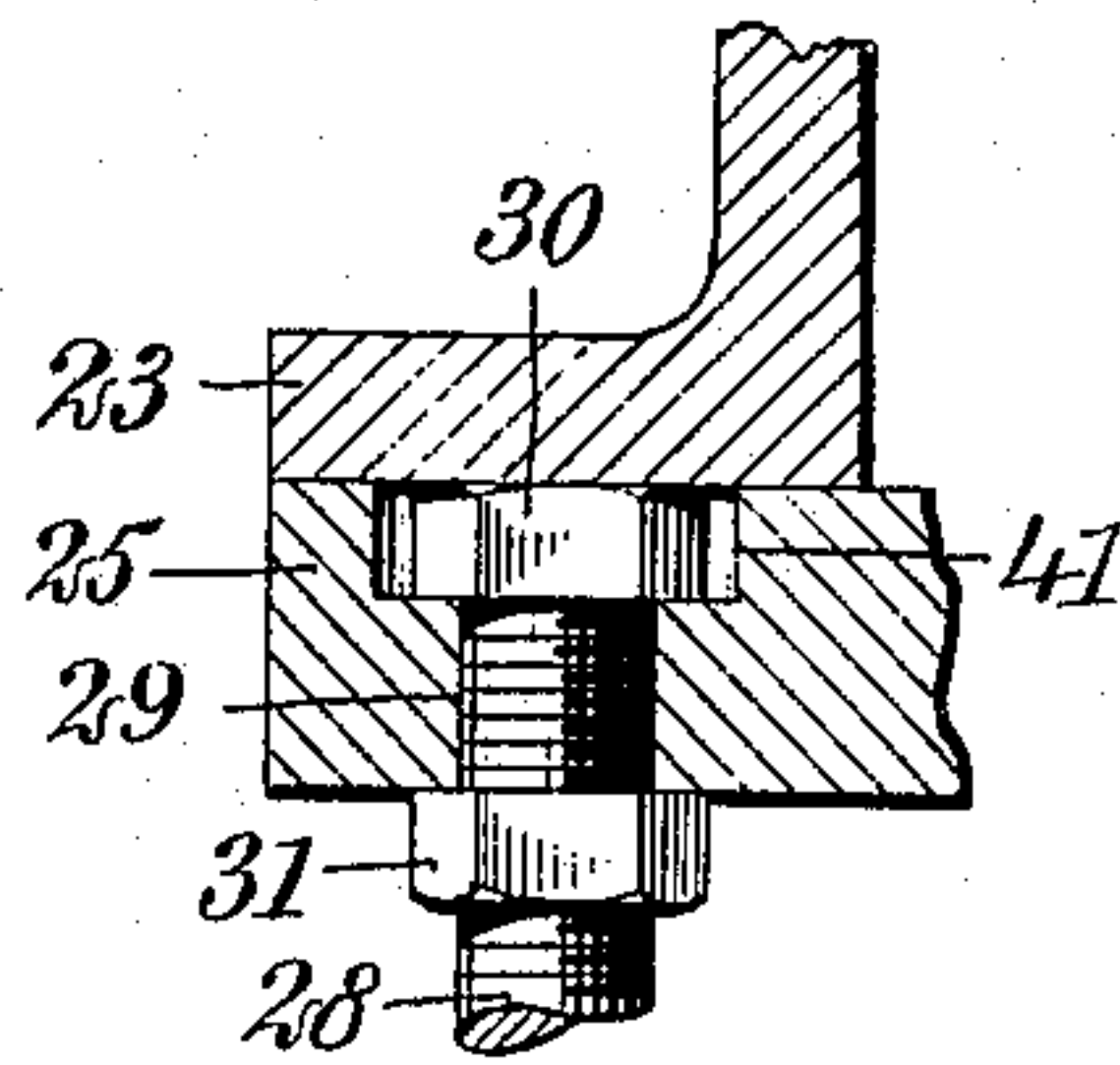


Fig. 5

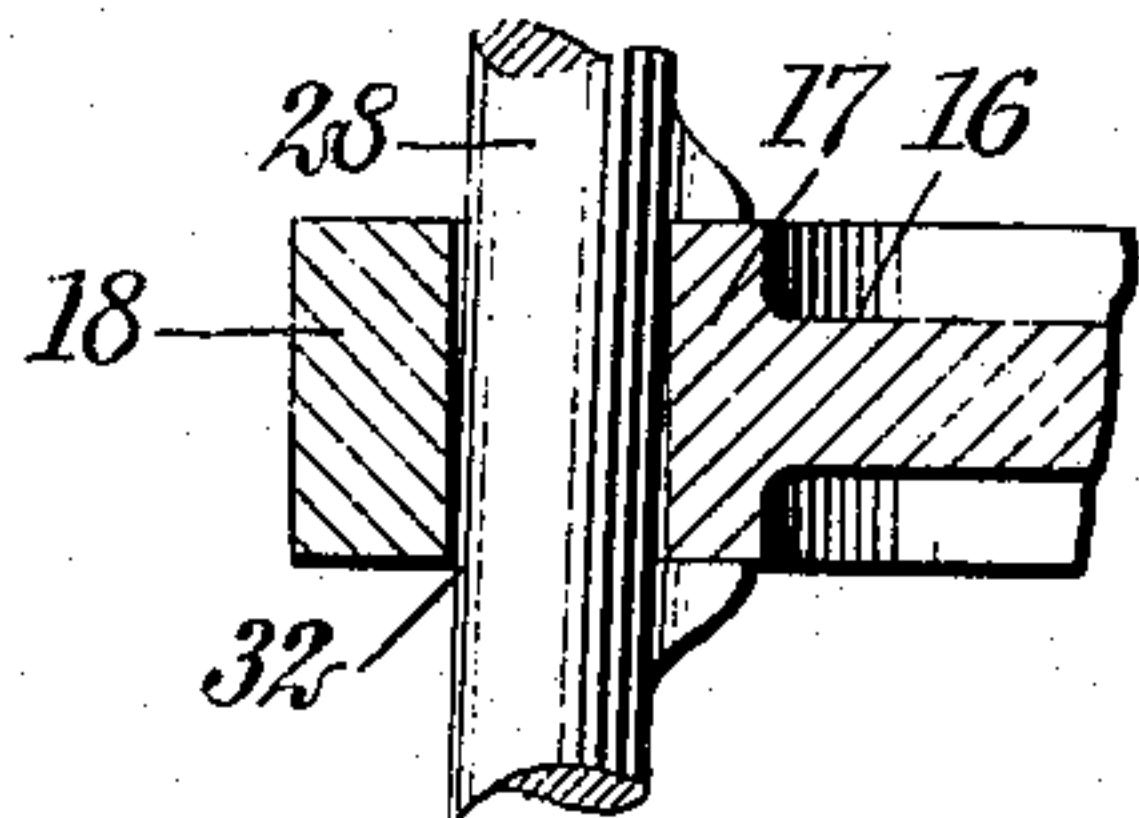


Fig. 6

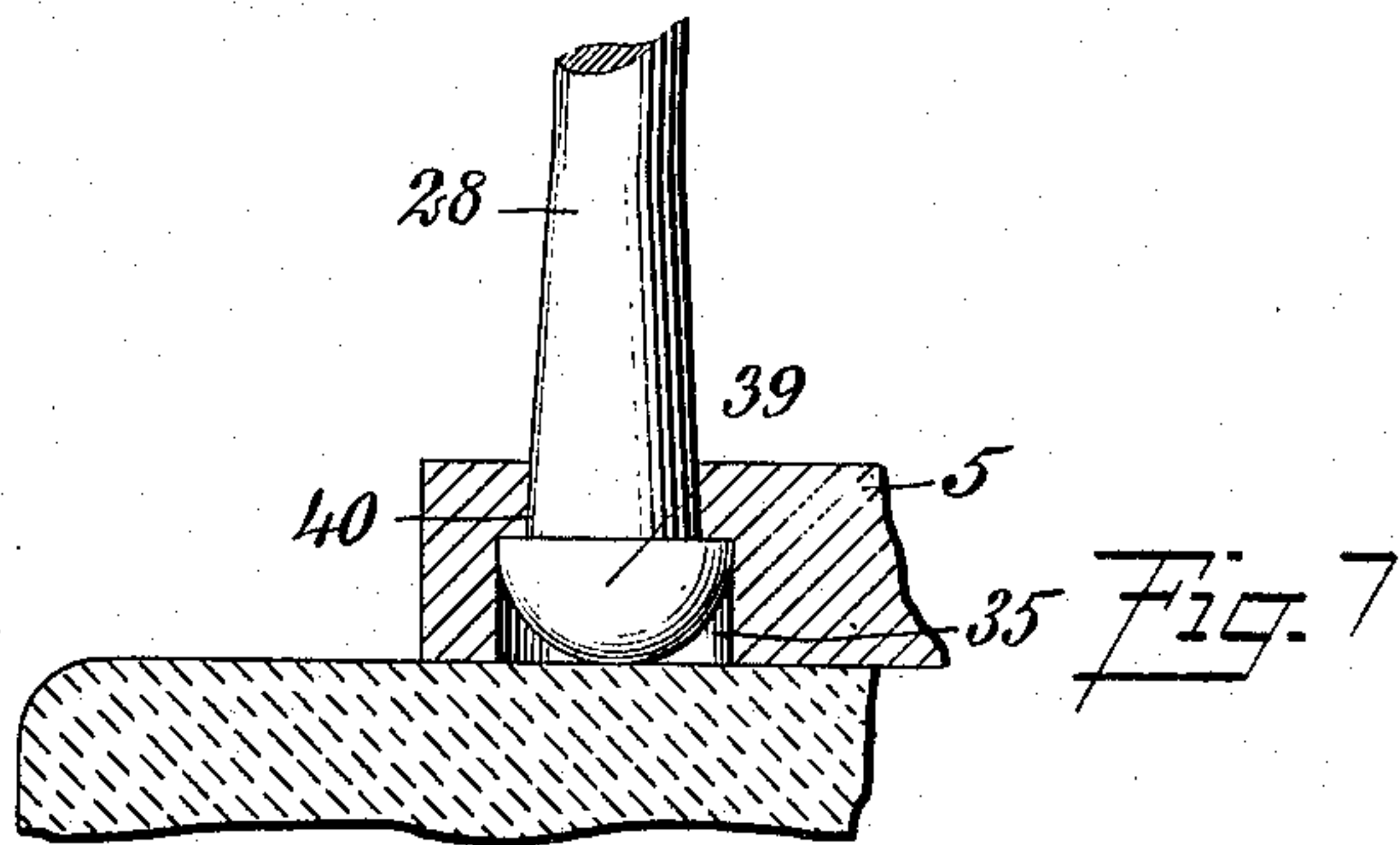


Fig. 7

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# UNITED STATES PATENT OFFICE.

WILLIAM ROBERTS AND CARROLL ROBERTS, OF SPRINGFIELD, OHIO.

## POLE.

No. 919,771.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed January 13, 1908. Serial No. 410,580.

*To all whom it may concern:*

Be it known that we, WILLIAM ROBERTS and CARROLL ROBERTS, citizens of the United States, and residents of Springfield, in the county of Clark and State of Ohio, have invented a new and Improved Pole, of which the following is a full, clear, and exact description.

This invention relates to poles and more especially such poles as are used for stringing electric circuit wires and the like.

An object of this invention is to provide a pole which is so constructed that the parts can be easily replaced or repaired.

A further object is to provide a pole which can be braced unequally on opposite sides, when for example, the pole is inclined on curves or the like.

A still further object is to provide a device of the class described adapted removably to carry a mast and cross-arms upon which the wires are strung.

Another object of the invention is to provide a pole comprising a column arranged so that it can be braced on all sides and having means for removably carrying the mast and cross-arms for supporting wires, the pole being firmly mounted upon a suitable base of concrete or the like.

The invention consists in the construction and combination of parts, to be more particularly described hereinafter and particularly set forth in the claims.

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, in which—

Figure 1 is a vertical section of the device having parts broken away and showing a method of bracing the pole and supporting the same on a concrete base. Fig. 2 is an enlarged cross section on the line 2—2 of Fig. 1; Fig. 3 is an enlarged cross section on the line 3—3 of Fig. 1; Fig. 4 is an enlarged cross section on the line 4—4 of Fig. 1; Fig. 5 is an enlarged sectional view showing the method of attaching the pole guys at their upper ends; Fig. 6 is an enlarged sectional view showing the method employed in supporting the guys at a point intermediate of the ends; Fig. 7 is an enlarged sectional view showing the method of securing the guys at the base plate; and Fig. 8 is a perspective view of the pole showing the same supporting telegraph or other wires.

Before proceeding to a more detailed description of our invention, it should be understood that we provide a metallic pole having supporting rods or guys and provided with a removable mast which is adapted to carry either metal or wooden cross-arms for supporting wires. These supporting rods or guys are of advantage, especially on curves or grades, where some of them may be of greater strength or adjusted to give the greatest resistance to displacement or sagging to retain the pole in an operative position. A pole supporting base of concrete is employed, which holds the pole out of contact with the ground and thereby serves both to insulate the pole from the ground and to prevent its base from rusting. The pole can easily be separated into its component parts or members. This naturally proves both an advantage and an economy, for should a pole become damaged either in a wreck or through the effects of the weather or other destructive agent, to repair it, it is simply necessary to replace the damaged section. In shipping, the pole can be packed in a much smaller space than one which is not separable into parts.

Although in the preferred form our pole is used for stringing telephone and telegraph wires, it may be used in connection with traction lines using overhead wires, without any material change in construction, or for other similar purposes.

Referring more particularly to the drawings, 1 represents the pole proper, which is fashioned from any suitable material, such as cast iron or the like. A metal base plate is mounted upon a concrete base of common or preferred form, and is secured to the latter by means of bolts 7, the shanks 9 of which are embedded deeply into the concrete and form a reinforcement therefor, as shown in Fig. 1, while nuts 8 serve to secure the base plate rigidly in place. The top of the concrete base projects somewhat above the ground. The shanks 9 may be suitably fashioned to give the greatest resistance to dislodgment under the strain incident to the swaying of the pole; for example, they may be sinuous in form as is shown in Fig. 1. The base plate 5 has a socket 10 integral therewith, in which is mounted the lower end of the column 3.

The column 3 is a hollow cylindrical member having the upper and lower ends 4<sup>a</sup> and 4<sup>b</sup> constricted. Intermediate of the ends of



the column are clamps 2, which can be firmly secured in position and which comprise semi-circular sections 12, each adapted partly to embrace the column and each having a double flange 13. These flanges, when the sections 12 are in position, present adjacent faces so that they may be secured together by means of bolts 14, or the like, passing through the openings 15 provided therefor. The edges of the flanges 13 are recessed to receive a plate 16 having an annular rim 17, the latter being encircled by a securing ring 18. The plate 16 is integral with the sections 12.

Arranged at the upper end, 4<sup>b</sup> of the column, and fashioned to receive the same, is a head 24, constituting a socket. The head 24 has a circular flange 25 at the upper end. A split collar 19 is mounted on the flange 25 and has a flange 23 which rests upon the flange 25, near the outer edge of the latter. The split collar has ears 20, which have registering openings 21 to receive the clamping bolts 22. The mast 2<sup>a</sup> has the butt removably arranged within the collar 19 and clamped in position. The arrangement is such that the base of the mast rests partly upon the upper face of the flange 25 as is shown most clearly in Fig. 1. The flanges 23 and 25 have registering openings 26, to receive bolts 27, by means of which the collar 19 is secured in position upon the head 24. The mast 2<sup>a</sup> may be of wood or any other suitable material and of tapered or other form, adapted for the purpose.

In the preferred form the cross-arms 33 of any suitable material, such as wood, metal or the like, are used to support wires and cables and are mounted in grooves and secured in position by means of bolts 34.

Guys 28, fashioned from any suitable material, brace the pole in position. The lower ends of the guys are secured to the base plate 5 in any suitable manner, for instance in a recess 35, as is shown in Fig. 7. In this case each of the guys is provided with a laterally extended head 39 at the lower end which seats in the recess 35. The base plate has an opening 40 to receive the guy 28. At their upper ends, the guys pass through openings 29 in the flange 25 and are suitably threaded to receive securing nuts 30 and 31 at the upper and lower sides respectively of the flange 25. Each nut 30 is countersunk in a recess 41 of the flange. For a central support, the guys pass through edge recesses 32 in the rim 17, and are held in position by the securing ring 18. By suitably adjusting the nuts 30 and 31, the guys can be lengthened or shortened with respect to the column, to brace the pole.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:

1. A device of the class described, comprising a base, a column mounted upon said

base and having a head, guys secured at said base plate and at the upper ends to said head, a member removably mounted upon said column and having a lateral annular extension provided with peripheral recesses formed to receive said guys, and a ring peripherally mounted upon said extension said member having integral clamps adapted to be secured together to hold said member in position.

2. A device of the class described, comprising a column, a base plate having a socket for receiving the lower end of said column, a base, bolts having shanks embedded in said base and serving removably to secure said base plate thereupon, a head at the upper end of said column and having a flange, a removable mast mounted upon said column, a split collar at the lower end of said mast and having a flange, bolts for removably locking said flange of said head and said flange of said split collar together, guys anchored at said base plate and having the upper ends thereof adjustably mounted at the flange of said head, and a member removably secured to said column between the ends thereof and having a part provided with a rim adapted to engage said guys, and a ring for securing said guys in position at said rim.

3. A device of the class described, comprising a column, said column having the ends thereof constricted, a base plate having a socket for receiving the lower constricted end of said column, a concrete base, bolts having sinuous shanks embedded in said base and serving removably to secure said base plate on said base, a head arranged at the upper constricted end of said column, said head having an annular flange, a removable mast mounted upon the upper end of said column, a split collar at the lower end of said mast and having an annular flange, bolts for removably locking the flange of said head and said flange of said split collar together, guys anchored at said base plate and having the upper ends thereof adjustably mounted at the flange of said head, and a member comprising a clamp removably secured to said column between the ends thereof and having a plate provided with an annular rim for supporting said guys, and a ring for securing said guys in position.

4. In a device of the class described, a base, a base plate mounted thereupon and having recesses at the under sides thereof and a socket, a column arranged in said socket and having a head, guys arranged longitudinally of said column and having the upper ends adjustably secured at said head, said base plate having openings which receive said guys, said guys having heads adapted to seat in said recesses.

5. A device of the class described, comprising a base, a base plate upon the base a column upon the base plate, a head on the upper end of the column, a mast on the head,



a collar at the base of the mast having a lateral flange resting on the head, bolts traversing the head and the flange for securing the collar to the head, and guys connected to the head.

5 6. A device of the class described, comprising a base, a base plate upon said base, bolts having shanks embedded in said base and serving to secure said base plate in position, a column mounted upon said base plate, a head mounted at the upper end of said column, a mast arranged above said column and resting upon said head, a collar arranged at the base of said mast and having a part adjacent to said head, means for securing said part and said head together, and guys secured at said base plate, the upper ends of said guys being adjustably secured at said head, said guys serving to brace said column.

15 20 7. A device of the class described, comprising a base, a base plate removably secured upon said base, bolts having shanks embedded in said base and serving to secure

said base plate, a column mounted upon said base plate, a head mounted at the upper end of said column, said head having a lateral flange, a mast mounted at the upper end of said column and abutting against said flange, a split collar arranged at the base of said mast and having a lateral flange adjacent to said flange of said heads, means for securing said flanges together, and guys secured at said base plate, the upper ends of said guys being adjustably arranged at said flange of said head, said guys serving to brace said column and prevent the sagging or dislodgment thereof.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

WM. ROBERTS.  
CARROLL ROBERTS.

Witnesses:

SUSIE E. ROE,  
OLIVER H. ANDERSON.