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R. R. PITTMAN

2,022,386

CONDUCTOR SUPPORT

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Fig. 1

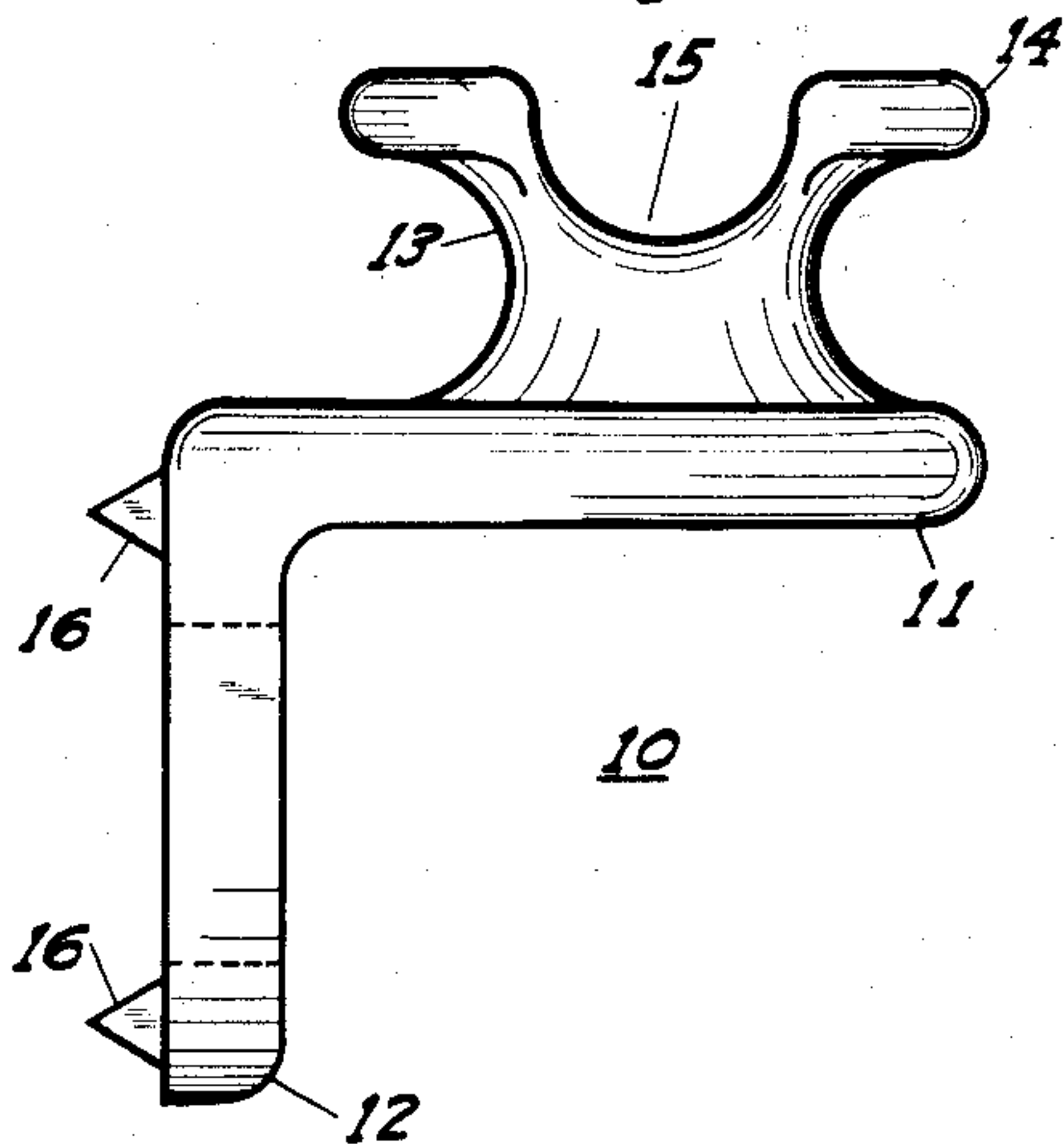


Fig. 2

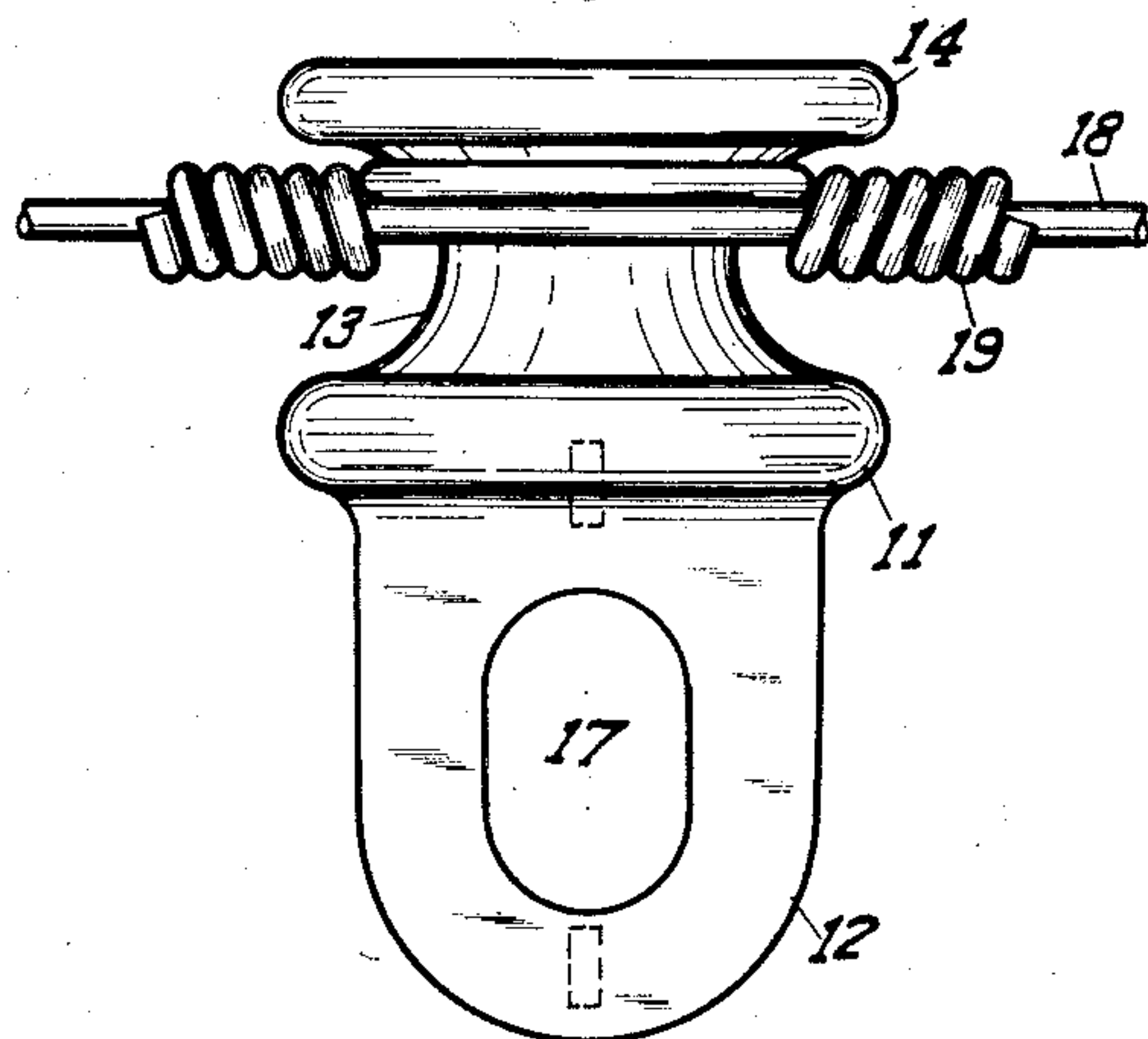


Fig. 3

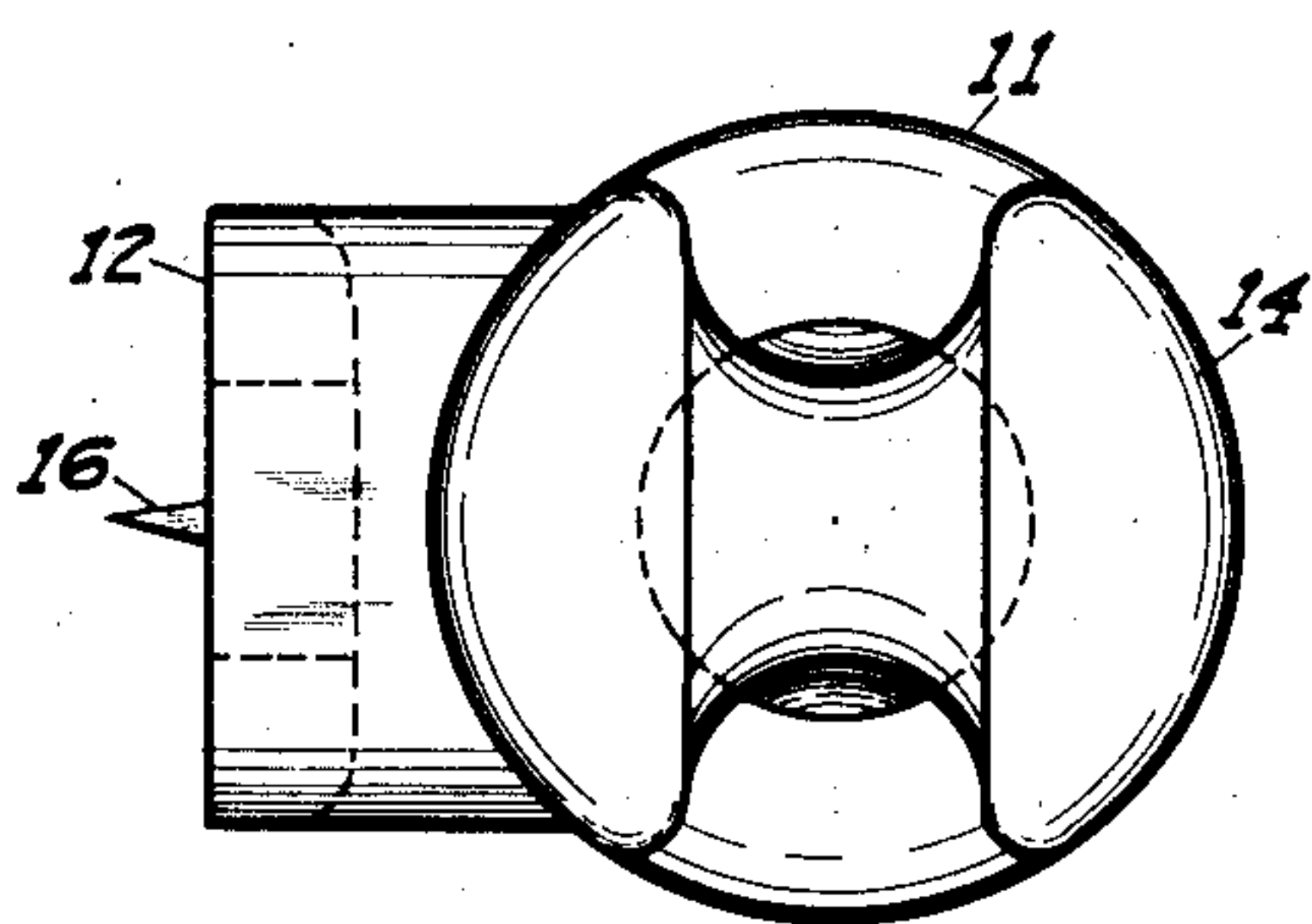
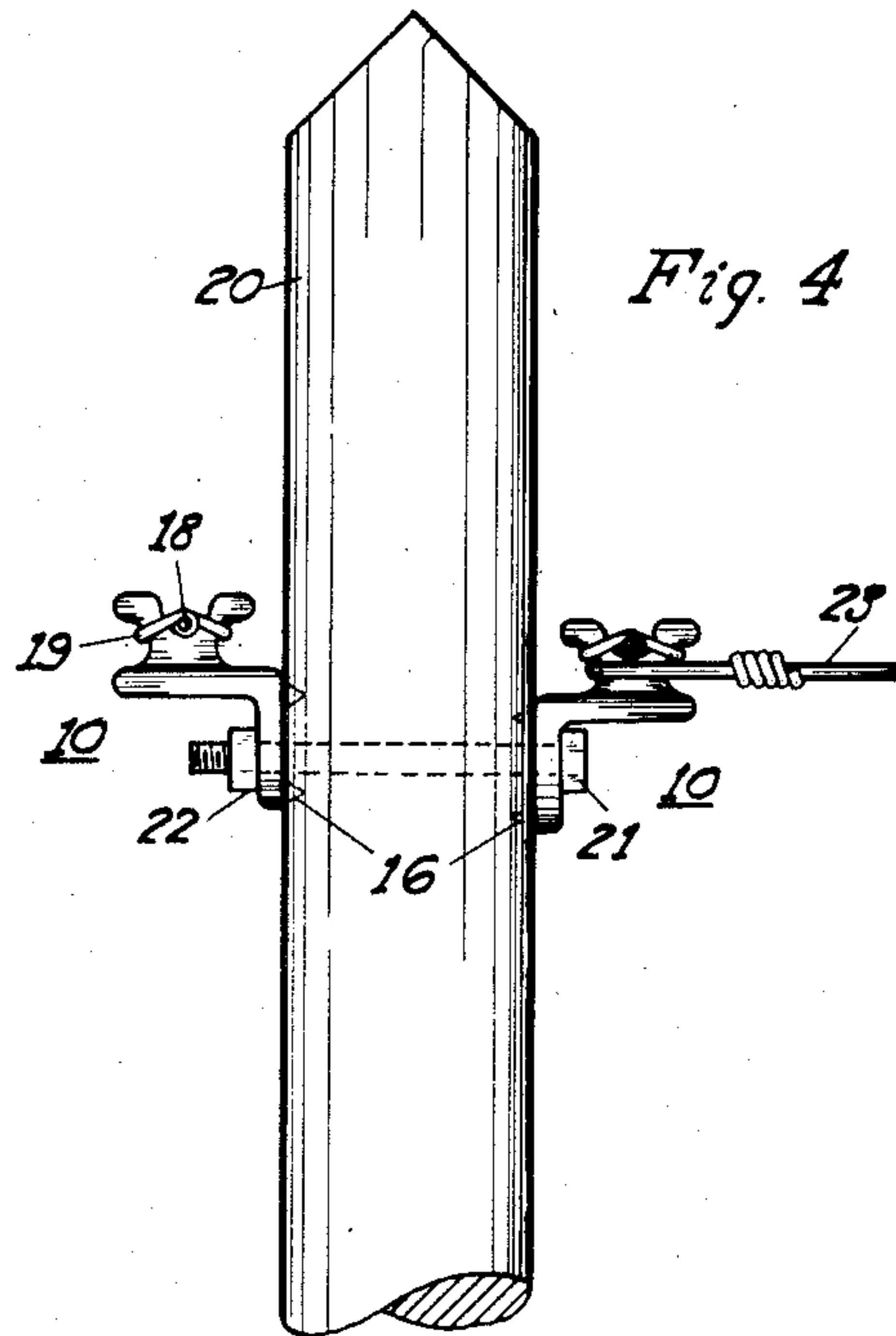


Fig. 4



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CONDUCTOR SUPPORT

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2 Claims. (Cl. 248—71)

This invention relates to means for supporting and attaching electrical conductors normally operating at ground potential to wood poles or other fixtures. In this class of conductors are the so-called "neutral conductors" of polyphase alternating current distribution systems, and the commonly-used secondary "neutral" of three wire single phase distribution systems. Since such "neutrals" normally operate at ground potential, one conductor may serve the purpose of both "neutrals". Heretofore it has been common practice, especially with respect to the secondary "neutral", to support the wire or conductor serving this purpose on insulators, as the latter provide a convenient and flexible means for attaching the conductor.

An object of the present invention is to provide a unitary metal support for the above mentioned conductors which has all of the advantages of an insulator together with its support, but which is much simpler and less expensive.

Other objects are: (a) to provide a conductor support having a wire-stringing hook shaped portion adjacent a pole to facilitate the installation of overhead conductors; (b) to provide a conductor support which may be securely mounted with one bolt or other fastener; and (c) to provide a support which may be easily mounted on either end of a bolt extending through a pole.

Another object is to provide a support having portions which will cooperate with a wood pole to prevent the turning of the attaching bolt or the support when the nut is turned to place on the bolt.

With these and other objects in view, my invention resides in the novel form and arrangement of the integral portions of the device so as to provide a simple, effective and inexpensive support for the purpose above described.

In the drawing (1 sheet): Figs. 1, 2, and 3 are respectively side elevational, front and plan views of the device, and Fig. 4 is a side elevational view of two of the devices mounted on a wood pole in the service position.

Referring now in particular to Figs. 1, 2, and 3, the upstanding substantially spool-shaped body portion 13, having an integral outwardly extending peripheral flange 14 at the upper end thereof, is provided with the semi-circular wire-receiving groove 15 extending diametrically across the top thereof. The inverted L-shaped integral base for the spool-shaped portion consists of the lateral extension of the lower peripheral flange 11 together with the downwardly extending portion 12. Integral with the portion 12 is a pair of

pointed prongs 16, the latter extending in a direction normal to the portion 12, and away from the spool-shaped upper portion 13, for the purpose of entering a wood structure to prevent the device from rotating in a vertical plane. An oval-shaped hole 17 is provided, extending laterally through and having its longer axis passing vertically through the midpoint of the portion 12, through which a bolt or other fastener may be passed to attach the device to a pole.

Fig. 4 illustrates one arrangement of the devices in the service position. The conductor supports are designated by the numeral 10, and are shown rigidly secured to the wood pole 20 by means of the bolt 21 and the nut 22. It will be seen that the head of the bolt is in this arrangement positioned to engage the bottom of the lateral extension of the lower peripheral flange 11, which arrangement, together with the pointed prongs 16, effectively prevents the turning of the bolt 21 or the support 10 as the nut 22 is turned. It will also be seen that the oval hole permits the support 10 on the nut end of the bolt to be raised to provide sufficient space for turning on the nut 22. The conductor 18 is shown tied to the support 10 in the usual manner with the tie wire 19. Also the conductor 23 is shown as a wire attached to the support 10 and extending laterally with respects to the direction of the pole line.

From Fig. 4 it will be seen that the contour of the upper portion of the support 10 adjacent the pole 20 is substantially the shape of the horizontally disposed hook. A rounding or gradually curving surface is provided on those portions of the support which define the above mentioned hook, so that a convenient means is provided for stringing a conductor before placing and tying it in the conductor groove 15.

The conductor support above described may be cheaply and satisfactorily made of malleable cast iron, or any other suitable material.

Other embodiments of the invention may appear from the one specifically described herein, but it is to be understood that my invention is to be limited only by the appended claims and the prior art.

I claim as my invention:

1. A conductor support comprising in a single piece of metal an upstanding body portion having a horizontal peripheral groove substantially midway between the ends thereof, whereby upper and lower outwardly extending flanges are provided adjacent the respective ends of said body portion, a substantially semi-circular conductor-

receiving groove extending transversely across the upper flange, and an inverted L-shaped base portion merging with the lower flange.

2. A conductor support adapted to be attached
5 to a wood pole by means of a bolt, said support comprising an upstanding body portion having a horizontally positioned peripheral groove substantially midway between the ends thereof, a conductor-receiving groove of substantially semi-
10 circular section extending diametrically across the top of said body portion, a base positioned at the lower end of said body portion, said base having the shape of an inverted L, the downwardly extending portion of said base being provided

with an oval hole extending laterally there-
through, said hole having its long axis extending
vertically substantially through the midpoint of
said downwardly extending portion and being so
positioned that the head of an attaching bolt 5
extending therethrough may engage the horizon-
tal portion of said base whereby the bolt is pre-
vented from turning when a nut is screwed there-
on, and vertically spaced prongs positioned above
and below said hole for entering the pole, said 10
prongs extending laterally in a direction away
from said body portion.

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