E. H. KNUTZ.

INSULATOR AND CURRENT DISTRIBUTER.

APPLICATION FILED MAR. 6, 1913.

1,085,813.

Patented Feb. 3, 1914.

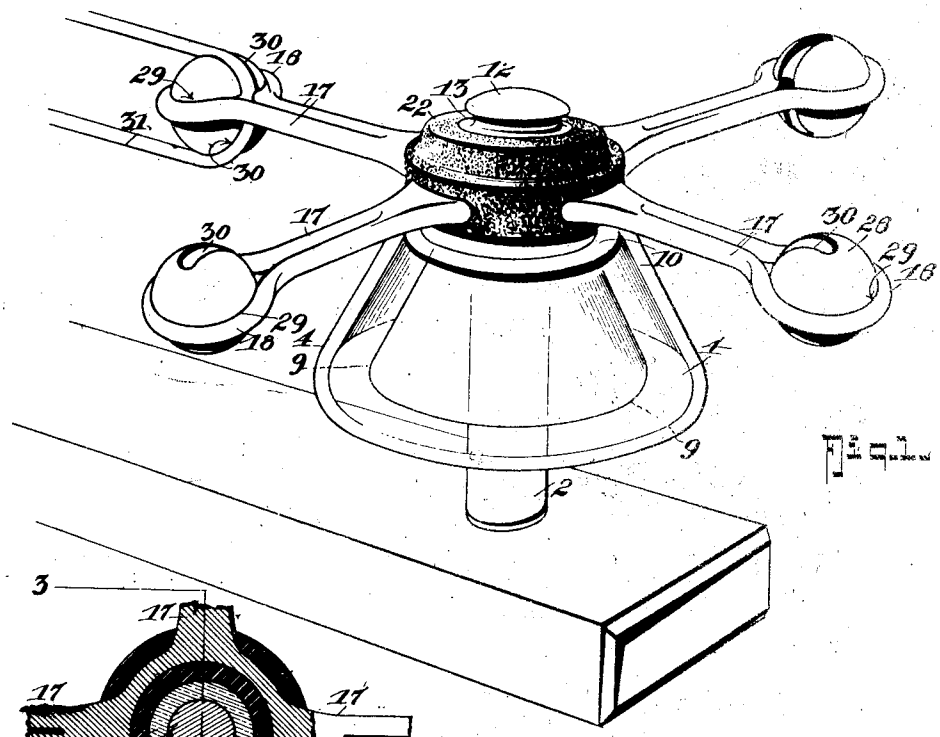


Fig. 1.

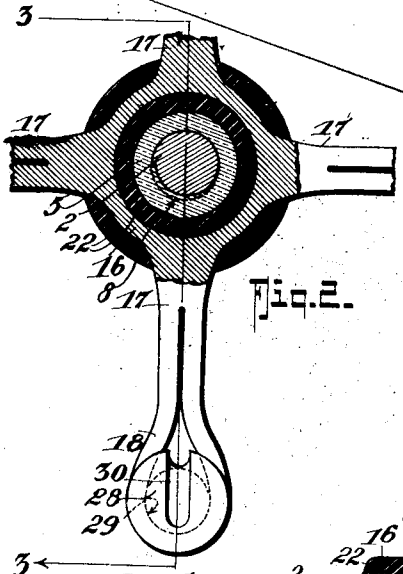


Fig. 2.

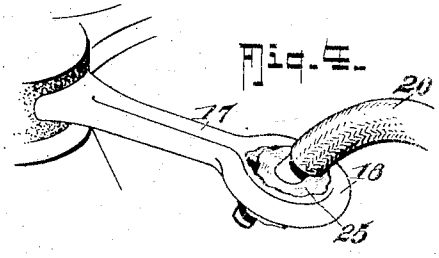


Fig. 4.

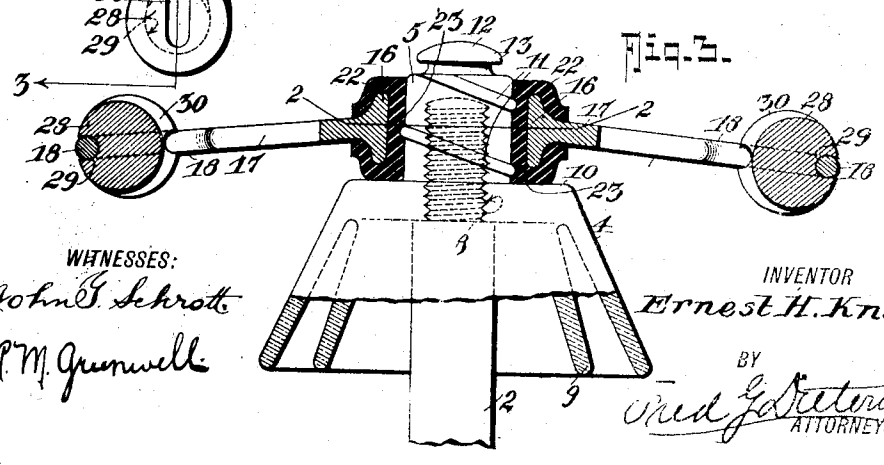


Fig. 3.

WITNESSES:

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INSULATOR AND CURRENT-DISTRIBUTER.

1,085,813. Specification of Letters Patent. Patented Feb. 3, 1914.

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To all whom it may concern:

Be it known that I, ERNEST H. KNUTZ, residing at Arcata, in the county of Humboldt and State of California, have invented certain new and useful Improvements in Insulators and Current-Distributers, of which the following is a specification.

My invention which is an improvement on the invention disclosed in Letters Patent #1,043,321 issued to me on November 5, 1912, has for its object to provide a modified form of the apparatus disclosed in such patent in which the cost of manufacture has been reduced and in which the current distributer may also be employed as an insulator without removing it from the insulator proper.

In its general nature the invention resides in providing the current distributer arms with eyes in which breakable insulators proper are held and around which breakable insulators the wire to be insulated is passed, the breakable insulators being such that when it is desired to electrically connect the insulator with the arm, the particular insulator is broken out or removed so as to enable the metallic electrical contact between the wire and arm to be effected.

In its more detail nature, the invention embodies those novel details of construction, combination and arrangement of parts, all of which will be first fully described, and then be specifically pointed out in the appended claims, reference being had to the accompanying drawing, in which:—

Figure 1 is a perspective view illustrating the invention. Fig. 2 is a detail horizontal section on the line 2—2 of Fig. 3. Fig. 3 is a vertical section and part elevation on the line 3—3 of Fig. 2. Fig. 4 is a detail view showing the manner of securing the conducting wire electrically to an arm when the breakable insulator has been removed.

As in my patented construction referred to, the insulator proper 4 may be of the petticoat type having the usual petticoats 9 and the upwardly projecting body 5 that is externally threaded at 11 to receive the combined insulator and distributer. The body 5 is also internally threaded 8 to fit onto the threaded end of the pin 2, and the body 5 is also provided with the dome portion 12 and the wire receiving groove 13 as in my patented construction referred to. The body 16 is covered with an insulating covering 22 which is threaded at 23 to receive the threads 11. In my patented construction, the arms 17 are completely covered with insulating covering.

The present form of the invention differs from that of the patented construction in omitting the insulating covering over the arms and making the arms 17 of malleable material, split lengthwise and terminating in loops 18, as best shown in Figs. 1 and 2 of the drawings, whereby breakable insulators 28 may be insulated in the eyes 18 and the eyes 18 compressed into the breakable insulator grooves 29 so as to hold the same in place. The insulators 28 which are preferably made of breakable material so as to be readily removable have grooves 30 for the reception of the wire 31, that is to be insulated from the arm 17. When it is desired to electrically connect a wire with an arm 17, the insulator 28 is removed either by spreading the arms 17 and loop 18 or preferably by breaking the insulator 28 after which the end of the wire 20 is inserted into the eyes 18 and secured in place by any suitable securing means 25, such as is disclosed in my patent hereinbefore referred to

From the foregoing description taken in connection with the accompanying drawing, it is believed, the complete construction, operation, and advantages of the invention will be apparent to those skilled in the art. In conclusion it might be stated that the device is especially adapted for use in connection with street series systems.

What I claim is:—

1. An insulator comprising an internally threaded body portion and petticoats depending therefrom, said body portion having an external thread, a distributer supported on said body portion and threaded to engage said external threads, said distributer including radial arms having eye portions, insulator bodies held in said eye portions and having provisions for receiving a wire.

2. A device of the character stated comprising a supporting insulator having a body portion, a distributer mounted on and insulated from said body portion, said distributer having radial arms split and terminating in loop ends, wire receiving insulators held in said loop ends and having grooves to receive said loop ends, said arms at said loop ends adapted to be pressed into said grooves.

ERNEST H. KNUTZ.

Witnesses:
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