

No. 876,828.

PATENTED JAN. 14, 1908.

R. C. McNUTT.

INSULATOR.

APPLICATION FILED MAR. 21, 1907.

Fig. 1.

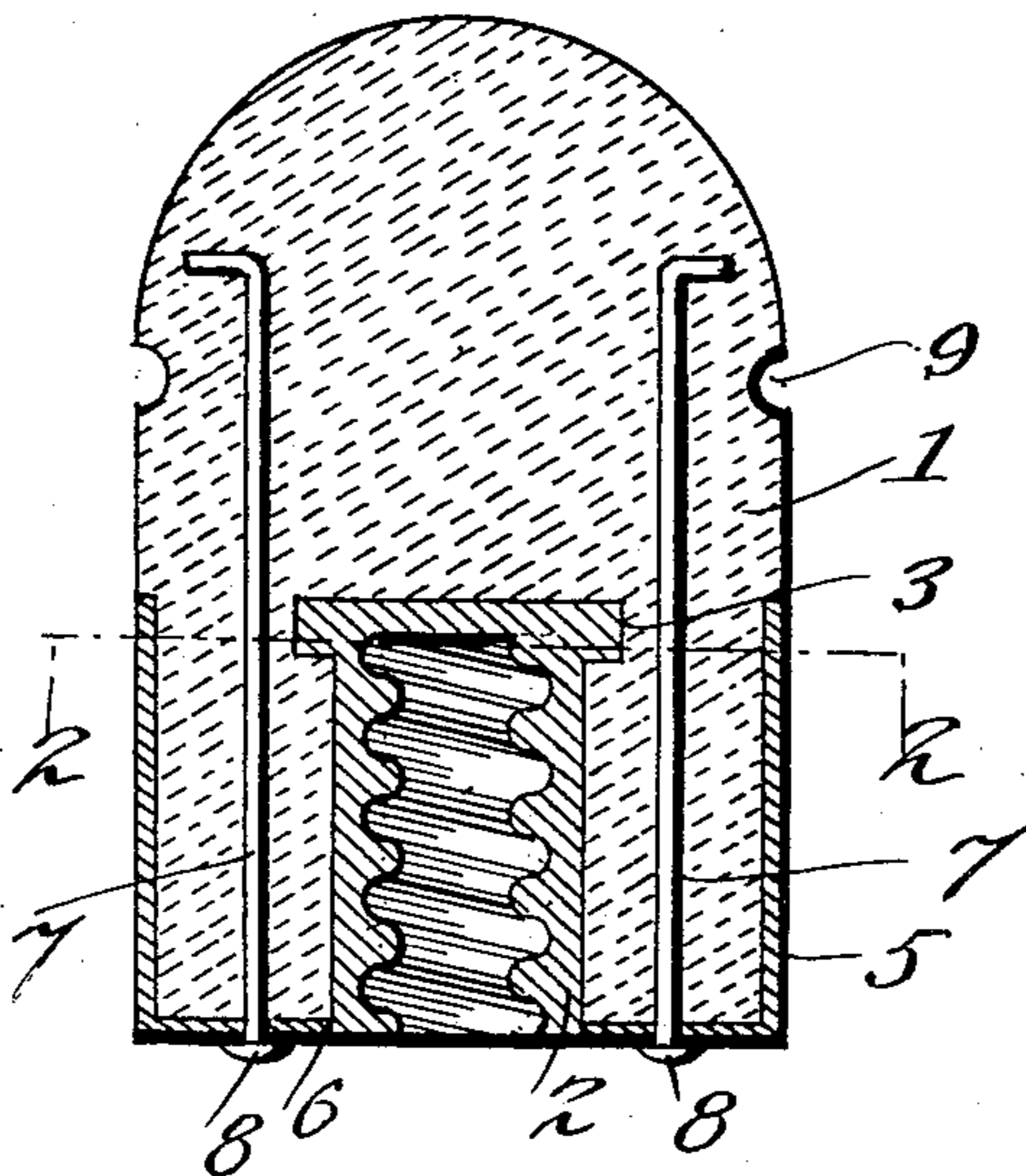
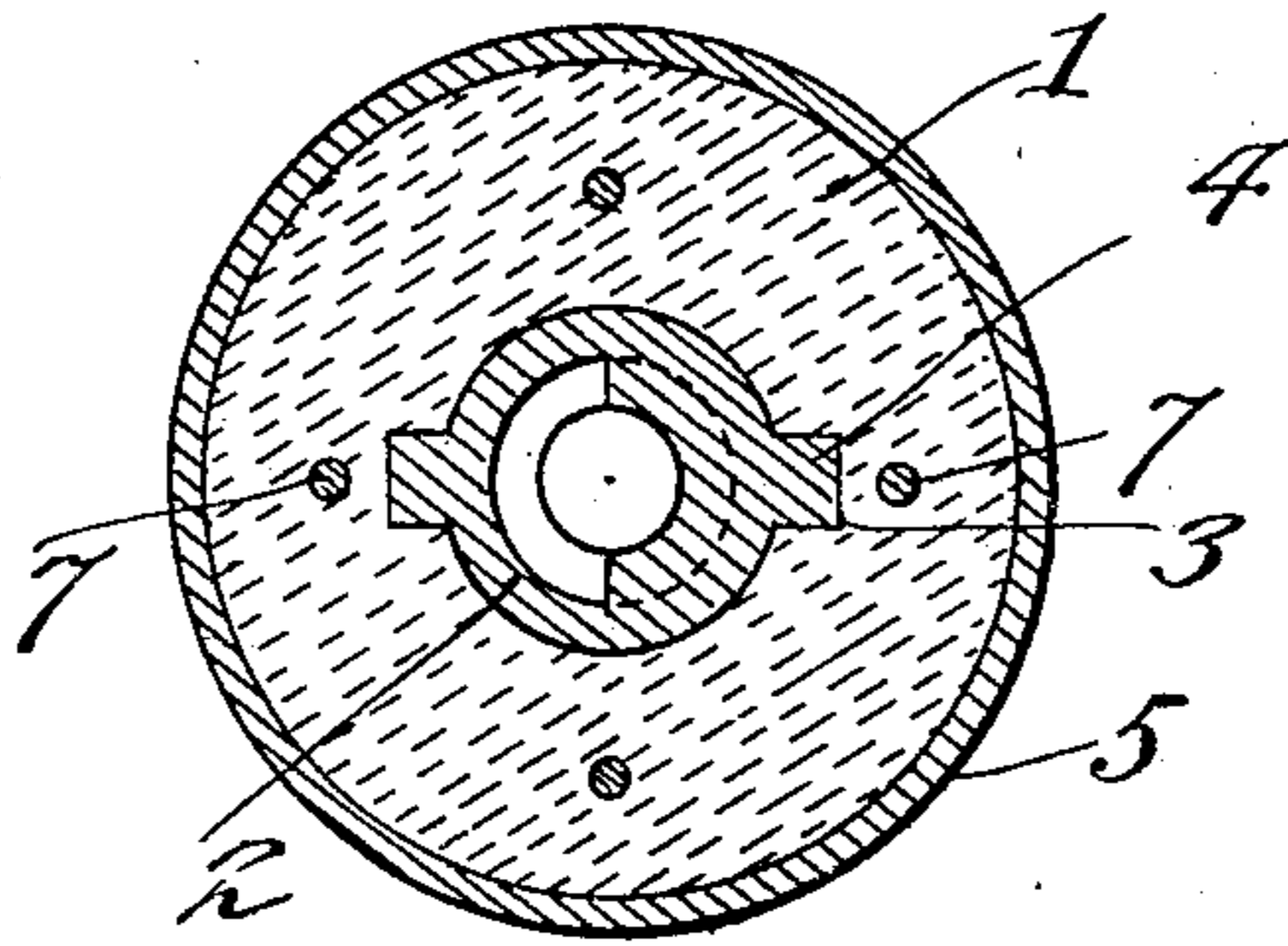


Fig. 2.



Inventor

Ross C. McNutt.

Witnesses

Hugh Ott.
C. Bradway.

By

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

ROSS C. McNUTT, OF MENDOTA, ILLINOIS.

INSULATOR.

No. 876,828.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, Ross C. McNUTT, a citizen of the United States, residing at Mendota, in the county of Lasalle and State of Illinois, have invented new and useful Improvements in Insulators, of which the following is a specification.

This invention relates to insulators for light, power or other line circuits for use on cross arms of poles or other supporting structures of aerial current transmission lines, and one of the objects of the invention is the provision of an insulator which is designed to take the place of the usual glass insulators which are objectionable for the reason that they are brittle and readily destroyed by their being struck by persons throwing at them with stones or using them as marks for shooting, a common annoyance to light and power companies.

A further object of the invention is to construct an insulator composed of reinforced concrete that is of simple and substantial construction, inexpensive to manufacture and thoroughly reliable in use.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawing, which illustrates one of the embodiments of the invention, Figure 1 is a vertical central section of the insulator. Fig. 2 is a transverse section on line 2—2, Fig. 1.

Similar reference characters are employed to designate similar parts throughout the figures.

Referring to the drawing, 1 designates the body of the insulator that is molded of cement or other suitable material and shaped to suit given requirements. Anchored in the bottom of the body 1 is an internally threaded metal thimble 2 having on its inner end a head or flange 3, and diametrically arranged longitudinal ribs 4 which cooperate with the head to firmly hold the thimble in place. Around the lower end of the body 1 is a metal cap 5 that serves as armor to strengthen the body and at the same time protect the latter from being struck by stones, gun shot or bullets that might be discharged against the same by malicious persons. The bottom of the cap has a central opening 6 for receiving

the outer end of the thimble 3 and for permitting the screw or stud on the cross arm of the line-supporting pole or structure to enter the thimble. Extending upwardly through the body 1 and molded therein are rods 7 that have their inner ends bent to form anchoring means, while their outer ends pass through the bottom of the cap 5 and are formed with heads 8 that serve to hold the cap firmly in position. At a suitable point above the cap 5, the body is provided with an annular groove 9 for receiving the splicing wire, whereby the electric conductor or line is secured to the insulator in the usual manner. Since the body is made of cement and is reinforced and protected by the members 7 and cap 5, a substantial and durable insulator is produced which cannot be readily destroyed by missiles or shot striking the same. If desired, the surface of the body 1 may be glazed or otherwise coated so as to increase the insulating properties.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the apparatus which I now consider to be the best embodiment thereof, I desire to have it understood that the apparatus shown is merely illustrative and that such changes may be made when desired, as are within the scope of the claims.

Having thus described the invention, what I claim is:—

1. As an article of manufacture, an insulator comprising a molded body of suitable material, an internally threaded member anchored in the lower end thereof, a metal cap fitted on the lower end of the body and having apertures in its bottom, and anchoring devices extending through the apertures and embedded in the said body.

2. As an article of manufacture, an insulator comprising a molded body of cement, a metal cap fitted on the lower end thereof to form an armor, and members anchored in the body for holding the cap in place and serving as a reinforce for the body.

3. As an article of manufacture, an insulator comprising a molded body having a peripheral groove adjacent its upper end, a shell fitted on the lower end thereof, and

members anchored in the body and extending through the shell to hold the latter in position.

4. As an article of manufacture, an insulator comprising a molded body, an internally threaded metal thimble having transversely and longitudinally extending flanges serving to anchor the thimble in the body, and a metal cap fitted on the body and having an opening in its bottom registering with the thimble.

5. As an article of manufacture, an insulator comprising a molded body of cement having a peripheral groove adjacent its

upper end, an internally threaded member anchored in the lower end of the body, a metal cap fitted on the lower end of the body and provided with an opening in its bottom registering with the member, headed rods passing through the cap for holding the latter in place and having bent portions for anchoring the rods in the body.

In testimony whereof, I affix my signature in presence of two witnesses.

ROSS C. McNUTT.

Witnesses:

L. F. KNAUER,

E. A. WALKER.