April 13, 1926. 1,580,463

L. H. BEAN

INSULATOR

Filed Feb. 24, 1923

Fig. 1.

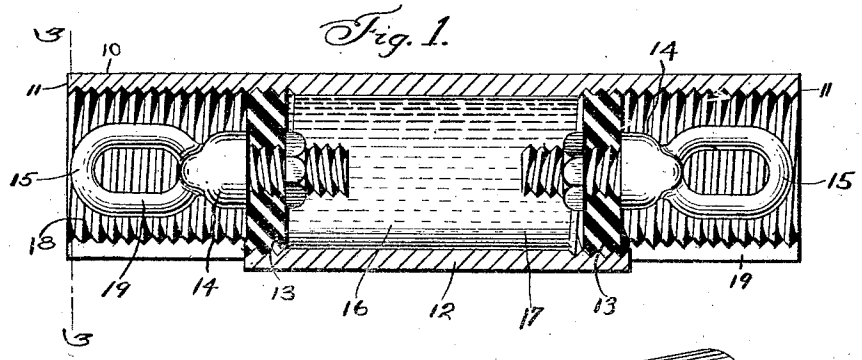


Fig. 2.

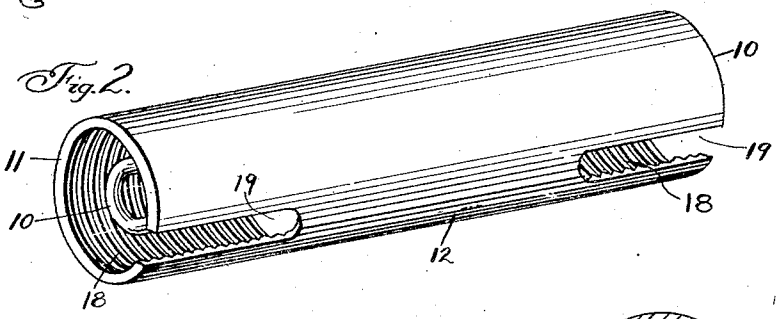
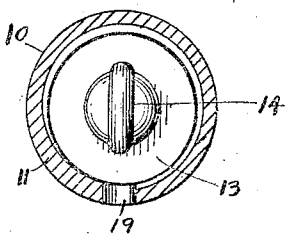


Fig. 3.



Leon H. Bean,
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BY Victor J. Evans,
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WITNESS

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UNITED STATES PATENT OFFICE.

LEON H. BEAN, OF PAWTUCKET, RHODE ISLAND.

INSULATOR.

Application filed February 24, 1923. Serial No. 620,997.

To all whom it may concern:

Be it known that I, LEON H. BEAN, a citizen of the United States, residing at Pawtucket, in the county of Providence and State of Rhode Island, have invented new and useful Improvements in Insulators, of which the following is a specification.

This invention relates to insulators.

Some of the objects of the present invention are: to produce an insulator which is comparatively simple and practical and especially adapted for use in connection with wireless aerials; to produce an insulator comprising an element which embodies connectors and a housing which surrounds said connectors to protect the latter from the elements of weather such as rain, ice, and snow; to produce an insulator element having a connector at each end thereof between which is formed a chamber which may contain oil in which the opposed ends of the connectors terminate, the oil acting to prevent high frequency currents from jumping from one connector to another; to employ in conjunction with an insulator element, a housing having corrugated end portions each of which has an opening therein, the corrugations serving to thwart the effect of moisture and the openings serving to permit access to the connectors of said element; and with these and other objects in view the invention resides in the particular provision and relative disposition of the parts hereinafter fully described and illustrated in the accompanying drawing, in which:

Figure 1 is a view illustrating the frame of the type of insulator of the present invention being shown in section longitudinally therethrough.

Figure 2 is a perspective view of the connector element.

Figure 3 is a transverse sectional view taken on line 3—3, Figure 1.

Referring now more particularly to the several views of the drawing, for all of the details of the present invention, it will be apparent that the same includes a connector element 10 having housing portions 11. The connector element 10 in reality is a shell 12 of suitable material with heads 13 of insulating material screw-threaded in said shell and connectors 14 which may be made of any desired material. Each head 13 has attached thereto a connector 14 in any preferred manner. Each connector is formed with an eye 15. One head 13 and its connector 14 is carried at each end of the shell 12. The heads 13 and the wall of the shell 12 form a chamber 16 which is filled with oil 17. The connector element 10 when employed for supporting a wireless aerial has one end of the aerial connected to one connector 14 and the other connector 14 has connected thereto the anchor of a mast. The housing portions 11 at the opposite ends of the shell 12 are corrugated or screw-threaded as at 18 and each end has an opening 19 therein. The corrugation or screw-threads 18 serve to thwart the capillary action of moisture which might otherwise collect above the connectors 14 and serve for the attachment of the heads 13, whereas, the openings 19, give access to the connectors for permitting the attachment and removal of the ends of the wires which are adapted to be connected therewith. It should now be manifest that by virtue of the intervention of the oil filled chamber 16 the opposing ends of the connectors 14 terminate in "dead ends" and allows the use of high frequency waves when broadcasting. If desired the chamber 16 may merely contain air.

What is claimed as new is:—

1. An insulator comprising a shell, having its ends internally screw-threaded, spaced heads of insulating material respectively threaded into said ends, the space between said heads defining a chamber, a connector carried by each head and extending on opposite sides thereof, each connector having an eye extending exteriorly from the heads, said shell having interiorly corrugated end walls.

2. An insulator comprising a shell having its ends internally screw threaded, a head of insulating material adjacent each end of said shell and co-acting with the threads of the respective ends, a connector removably carried by each of the heads and each connector having an eye, and a slot formed in said shell at opposite ends thereof.

3. An insulator comprising a shell having spaced heads of insulating material defining a chamber for the reception of oil, and connectors carried by said heads and each having one end extending into said chamber, substantially as and for the purpose specified.

In testimony whereof I have affixed my signature.

LEON H. BEAN.