G. H. McFEATERS.

INSULATOR SUPPORT.

APPLICATION FILED NOV. 7, 1918.

**1,315,633.**

Patented Sept. 9, 1919.

2 SHEETS—SHEET 1.

*Fig. 1.*

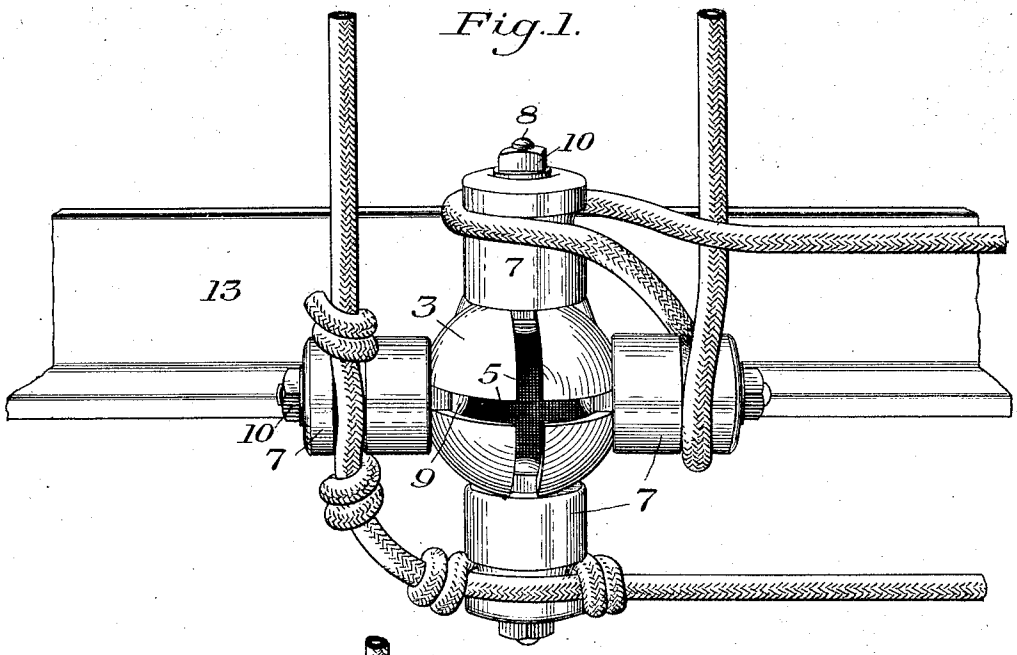
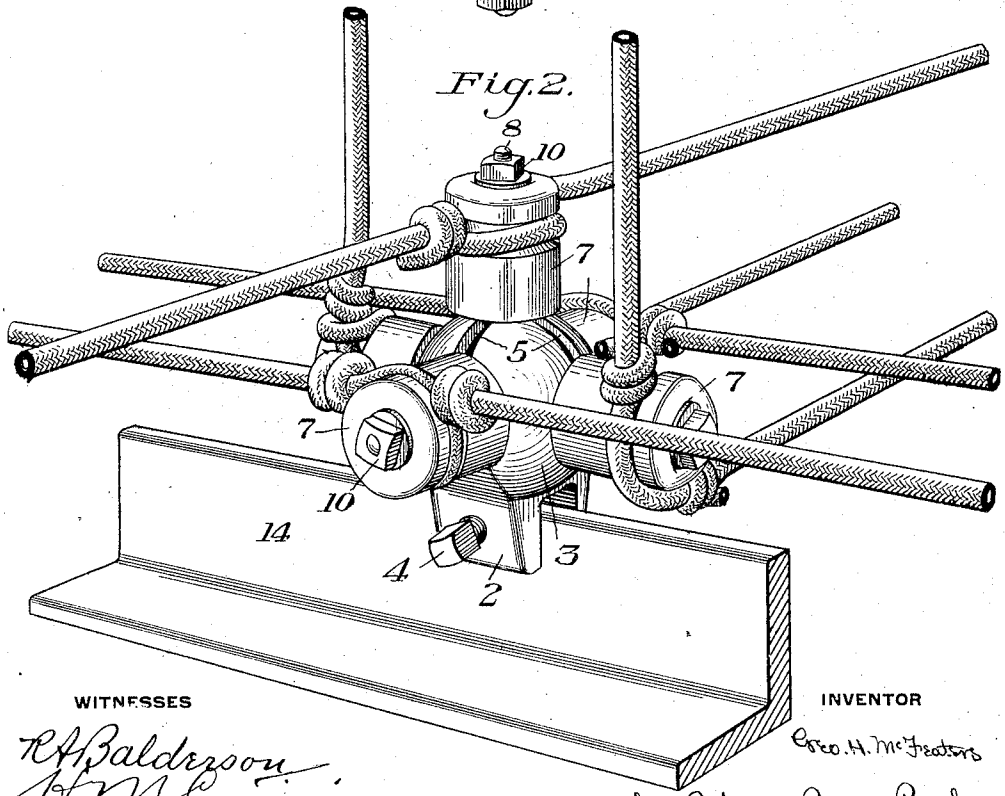



*Fig. 2.*




WITNESSES

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2 SHEETS—SHEET 2.

Fig. 3.

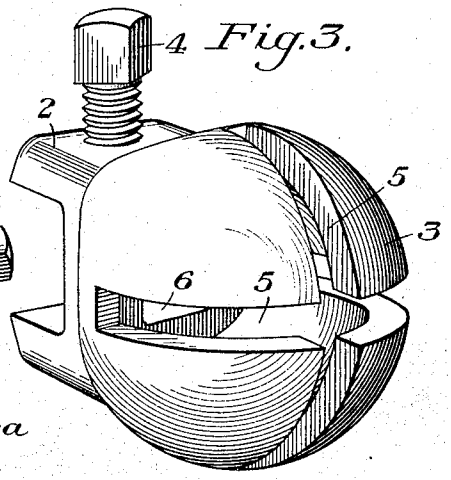



Fig. 5.

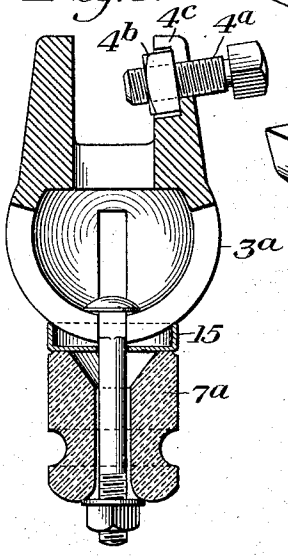



Fig. 6.

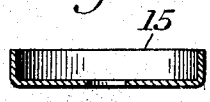
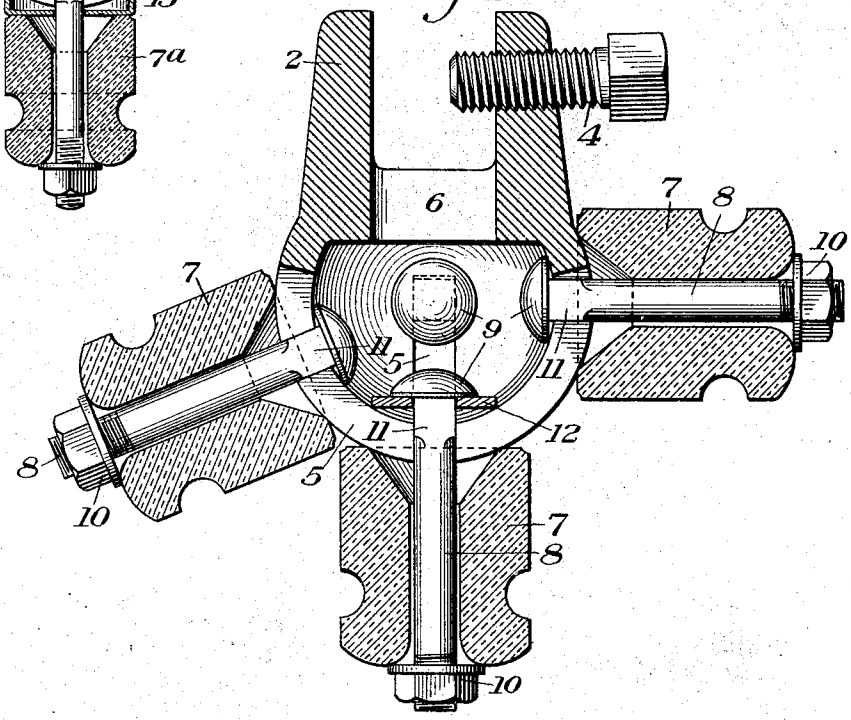



Fig. 4.




WITNESSES

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# UNITED STATES PATENT OFFICE.

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## INSULATOR-SUPPORT.

1,315,633. Specification of Letters Patent. Patented Sept. 9, 1919.

Application filed November 7, 1918. Serial No. 261,481.

*To all whom it may concern:*

Be it known that I, GEORGE H. McFEATERS, a citizen of the United States, residing at Johnstown, Cambria county, Pennsylvania, have invented a new and useful Improvement in Insulator-Supports, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figures 1 and 2 are perspective views illustrating different uses of my invention;

Fig. 3 is a perspective view of the support;

Fig. 4 is a sectional view of the same with a number of insulators attached thereto;

Fig. 5 is a sectional view illustrating a modification; and

Fig. 6 is a detail sectional view of one form of insulator base.

My invention has relation to insulator supports, and is designed to provide a support of universal character, particularly adapted for use in wiring buildings, such as factories, mills, etc. My invention provides an insulator support, which can be readily manufactured at a low cost, which is capable of carrying a plurality of insulators, which may be disposed at various angles to each other and which can be readily and easily applied.

The nature of my invention will be best understood by reference to the accompanying drawings, in which I have shown a preferred embodiment thereof, and which will now be described, it being premised, however, that various changes can be made in the details of construction and arrangement of the various parts, without departing from the spirit and scope of the invention as defined in the appended claims.

My improved support comprises a metal piece which is shown in its preferred form in Fig. 3. This casting comprises a jaw portion 2 and a body portion 3. The jaw portion 2 is adapted for engagement with the flanges of steel structural work and the like, to which the insulator support is fixed by a suitable clamping device, such as the set screw 4. The body of the support 3 is shown as being generally of spherical form with two slots 5, which intersect each other in planes at substantially right angles. The interior of the body is hollow, the slots extending into this hollow interior, and the latter communicating with the space between the jaws by means of the opening 6. 7 designates insulators, which are adapted to be secured to the body 3 in a variety of positions, some of which are illustrated in Figs. 1, 2 and 4. The insulators are mounted upon bolts 8 extending there-through with heads 9 at their inner ends, and nuts and washers 10 at their outer ends. Each of these bolts is preferably formed with a square or angular portion 11, adjacent to its head 9, and which is adapted to slide freely in the slots 5.

The bolts without the insulators can be dropped through the opening formed by the intersection of the slots 5 by turning their heads to sidewise position. If an insulator is employed at the intersection of said slots, I may provide the head of its bolt with a washer 12, so as to get an increased bearing surface at the sides of the slot intersection.

It will be readily seen that the insulators may be placed radially in various positions in the slots, thus adapting the support for universal use. This will be apparent from an examination of Figs. 1 and 2, in which I have shown the support engaged with structural members 13 and 14 in two different positions and with two different dispositions of the insulators carried thereby. In the arrangement shown in Fig. 1, there are four insulators, while in Fig. 5, I have illustrated the use of five insulators. In Fig. 4, I have shown one of the insulators as disposed at an oblique angle to the opposite insulator.

Fig. 5 illustrates a modification of my invention in which, instead of set screw 4 tapped into an opening in the jaw portion 2, I have shown a set screw $4^a$, which has a bearing in a nut $4^b$, which is removably seated in one of the jaws, this jaw being slotted, as indicated at $4^c$, to permit of the ready insertion and removal of the screw and nut. This form of my invention has the advantage of not requiring any machine work, whereas in the construction as described, it is necessary to thread the opening for the screw 4. In Fig. 5, I have also shown a metal insulator base 15, interposed between the insulator $7^a$ and the body portion $3^a$. This base is shown as being stamped from sheet metal. This is shown in detail in Fig. 6.

It will be readily understood that, if necessary, the body portion 3 can be made sufficiently large to provide for more than two slots arranged at different angles. While the approximately spherical form of this body portion facilitates the adjustment

of the insulators to various angular positions, it will be readily understood that the body may be of other shapes.

I claim:

1. An insulator support comprising a hollow body having attaching means at one side and formed with a plurality of slots which extend from the hollow interior of the body through its periphery and each of which is adapted to support a plurality of insulators, said slots extending in different planes to a common intersection, said body having its inner surface adjacent to said slots adapted to form a plurality of seats for the heads of insulator-securing bolts, substantially as described.

2. An insulator support comprising a hollow body having attaching means at one side and formed with a plurality of intersecting slots which extend from the hollow interior of the body through its periphery and each of which is adapted to support a plurality of insulators, said body having its inner surface adjacent to said slots adapted to form a plurality of seats for the heads of insulator-securing bolts, substantially as described.

3. An insulator support comprising a hollow body of generally spherical form having attaching jaws at one side and formed with a plurality of intersecting slots, each of said slots being adapted to form a support for a plurality of insulators, and the interior surface of said body adjacent to said slots being constructed and arranged to form a plurality of seats for insulator-securing bolts, substantially as described.

4. An insulator support comprising a hollow body having a plurality of intersecting slots, in combination with an insulator having an attaching bolt formed with a head at its inner end and with a square portion adjacent said head, the slots at the intersection forming an opening of sufficient dimensions for the introduction therethrough of said head and said square portion being adapted to be guided and seated in either of said slots, substantially as described.

5. An insulator support comprising a hollow body having a plurality of intersecting slots, in combination with an insulator having an attaching bolt formed with a head at its inner end and with a square portion adjacent said head, the slots at the intersection forming an opening of sufficient dimensions for the introduction therethrough of said head and said square portion being adapted to be guided and seated in either of said slots, said body being of sufficient diameter and the slots being of sufficient length so that each slot may receive a plurality of such bolts, substantially as described.

6. An insulator support comprising a hollow body having attaching means at one side and formed with a plurality of slots lying in different planes and which extend from the hollow interior of the body through its periphery and each of which is adapted to support a plurality of insulators, said body having its inner surface adjacent to said slots adapted to form a plurality of seats for the heads of insulator-securing bolts, said body having means whereby such bolts may be inserted and seated from the exterior of the body, substantially as described.

In testimony whereof, I have hereunto set my hand.

GEORGE H. McFEATERS.

**Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."**