No. 770,505. PATENTED SEPT. 20, 1904.

A. McMURTRIE.

INSULATING FIXTURE SUPPORT.

APPLICATION FILED FEB. 12, 1904.

NO MODEL.

Fig. 1

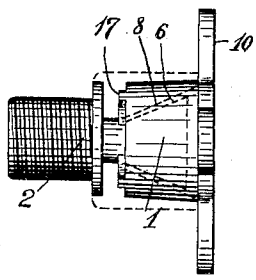



Fig. 2

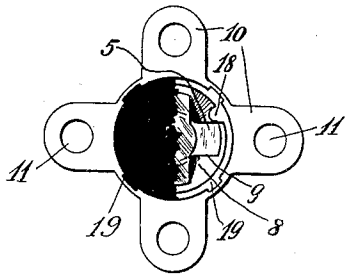



Fig. 3

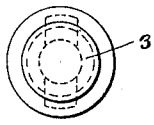



Fig. 4

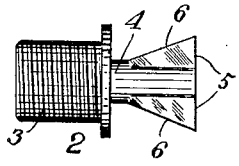
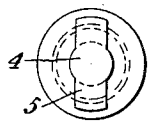



Fig. 5



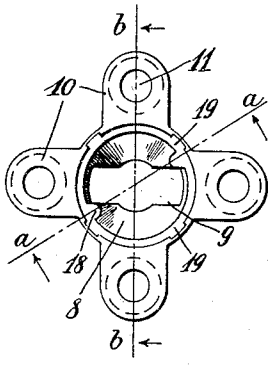
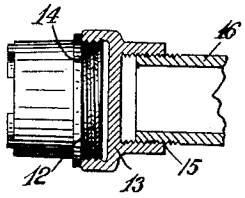




Fig. 10



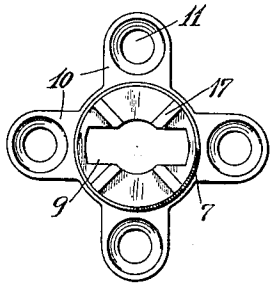




Fig. 6

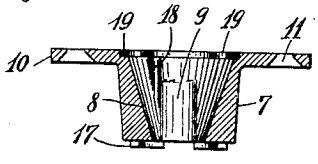



Fig. 7

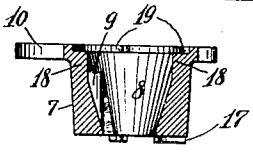



Fig. 8

Fig. 9

Witnesses

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Adnah McMurtrie.

By his Attorney

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No. 770,505. Patented September 20, 1904.

# UNITED STATES PATENT OFFICE.

ADNAH McMURTRIE, OF NEW YORK, N. Y., ASSIGNOR TO THOMAS & BETTS, OF NEW YORK, N. Y.

## INSULATING FIXTURE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 770,505, dated September 20, 1904.

Application filed February 12, 1904. Serial No. 193,243. (No model.)

*To all whom it may concern:*

Be it known that I, ADNAH MCMURTRIE, of New York, State of New York, have invented certain Improvements in Insulating Fixture-Supports, of which the following description, in connection with the accompanying drawings, is a specification, like numerals on the drawings designating like parts.

This invention relates to devices for installation of electrical fixtures, and has more particularly for its object the provision of a strong, simple, and inexpensive form of support commonly known as a "fixture-stud," my improved form presenting high qualities of insulation, it being understood that I contemplate its utilization in any field to which it is adapted by reason of the nature of my improvements.

The various features of my invention will be illustrated and described fully in the accompanying drawings and specification and pointed out in the claims.

In the drawings, Figure 1 is a view in side elevation of a fixture-stud in the construction of which my improvements have been embodied, the insulating material being indicated in dotted lines. Fig. 2 is a plan view of the same, taken from the rear, with the insulation partly broken away to disclose the parts. Figs. 3, 4, and 5 are respectively views in front, side, and rear elevation of the supporting member shown in Fig. 1 separate from the attaching member. Fig. 6 is a view similar to Fig. 2 with the supporting member omitted, and Fig. 7 a plan view of the attaching member separate. Fig. 8 is a sectional view on the line *b b*, Fig. 6; and Fig. 9, a similar sectional view on the line *a a*. In Fig. 10 is illustrated an attaching member similar to that already illustrated, but with different attaching means, the same being shown as applied to the end of a pipe with an intervening coupling.

In the embodiment of my invention selected for illustration and description as a convenient form to enable a ready and complete understanding of my improvements the part designated by the reference-numeral 1 is the attaching member, and the part designated by the reference-numeral 2 is the supporting member, of my device. In accordance with my invention I make these members of interlocking construction and in such a manner that they may be assembled readily before application of the insulating material and turned into such relative position that after such application it will be impossible to change the relative position of the interlocking parts of the two members, as will be best understood by a brief reference to Fig. 4, which illustrates the preferred form of supporting member, although I do not limit myself to the specific construction about to be described.

In Fig. 4 the numeral 3 designates the portion of the supporting member which is to receive a fixture or the like, such as a lamp-bracket, and in this instance the member takes the form of a well-known cylindrical stud threaded externally. Projecting rearward from this and preferably integral therewith for economy and rigidity after assemblage extends in accordance with my invention a shank 4, which may be cylindrical, as shown, or of any suitable cross-section, presenting feet 5 of any suitable number and preferably beveled, increasing in size from front to rear, as shown, and presenting faces 6 of considerable breadth, inasmuch as these receive the strain and it is desirable that they should not cut into the insulation. Passing to the attaching member 1, (illustrated most clearly in Figs. 1, 2, and 6 to 9, inclusive,) the same is shown as a boss 7 having a central chamber 8 the diameter whereof is preferably greater toward the rear and preferably of a generally conical shape, although any other suitable shape may be adopted without departing from the spirit of my invention. To this central chamber the interlocking portion of the supporting member is to be introduced, and if the parts 3 and 4 are not formed integral such introduction may be accomplished readily from the rear; but, as I have already stated, I prefer to cast or otherwise form the parts 3 and 4 integral, and to permit the introduction of the portion 6 in such event an opening 9 is illustrated, taking the form of a slot in the top or face of the boss communicating with the chamber 8.

This opening may be of any suitable contour and in the instance illustrated extends diametrically across the face of the boss, forming a mouth.

If desired, suitable means for securing the attaching member to an outlet-box or other conduit portion or base may be supplied—as, for example, the well-known form of lugs 10 with securing-holes 11—or the boss may be provided with a peripheral thread, as at 12 in Fig. 10, to enable the use of a coupling 13, having threaded mouths 14 and 15, one to receive the boss and the other to engage a pipe, as 16.

Projections 17 may be formed upon the face of the boss to aid in holding the insulating material in place in a manner hereinafter described, and projections 18 may be likewise provided within the chamber to perform a similar function, these latter being shown most clearly in Figs. 2, 6, 8, and 9.

In assembling the form of stud shown in Figs. 1 to 9, inclusive, the shank 4, with its members 5, is introduced within the slot 9, turned until the members 5 no longer stand opposite the slot and are separated somewhat from the walls of the chamber, as indicated by dotted lines in Fig. 1, and insulation is then molded in and around the parts in a manner which will be readily understood by those skilled in the art, the part being held for such operation by any suitable mechanism. (Not shown.) The insulation will intervene between the projections 18 and members 5, preventing positively the members from turning within the chamber and the projections also preventing the insulation from being turned around within the chamber or sheared off, the presence of the insulation in the slot or mouth 9 serving the same purpose. Insulation will also be molded over the bottom of the feet 5 to prevent grounding at the rear of the device, and I have illustrated the rear of the chamber as being slightly enlarged at 19 to allow the insulation to spread slightly, so that if accidentally chipped away it may not expose the members 5.

It will be observed that with the capability of ready assemblage and simple and inexpensive parts I have combined maximum strength, for however the strain is applied it is distributed over broad areas of insulating material under compression.

Having thus fully described my invention and one manner in which the same may be carried into effect, it will be understood that I do not limit myself to the specific construction illustrated nor in general otherwise than as set forth in the claims read in connection with this specification.

What I claim, and desire to secure by Letters Patent, is—

1. In a device of the class described, an attaching member comprising a boss with a conical chamber and communicating mouth-slot; a supporting member carried by said attaching member and insulated therefrom, said supporting member having a shank provided with beveled feet capable of insertion through said mouth and rotation within said chamber, said shank presenting a head incapable of traversing said mouth-slot and arranged to receive a fixture; insulating material in said chamber intermediate the interlocking portions of said members; and means to prevent rotation of said members and shearing of said insulation when said parts are assembled, substantially as described.

2. In a device of the class described; an attaching member comprising a boss having a chamber with beveled walls and an elongated mouth; a supporting member comprising a shank provided with an interlocking portion capable of insertion through said mouth but arranged to resist withdrawal therethrough when in adjusted position, said portion being beveled to correspond with said beveled boss-walls; and insulating material within said chamber and between the beveled portion of said walls and interlocking member, substantially as described.

3. In a device of the class described; an attaching member comprising a boss having a chamber and communicating mouth; a supporting member provided with an interlocking member capable of insertion through said mouth and having a head incapable of entering said mouth; and insulating material between the walls of said chamber and said interlocking member and also within said mouth and between the face of said boss and said head substantially as described.

Signed at New York, in the county of New York and State of New York, this 8th day of February, A. D. 1904.

ADNAH McMURTRIE.

Witnesses:
ALEXANDER C. PROUDFIT,
CHARLES F. GEHRMANN.