

A. D. RIZER.
SEPARABLE FIXTURE JOINT.
APPLICATION FILED JAN. 21, 1913.

1,102,079.

Patented June 30, 1914.
3 SHEETS—SHEET 1.

Fig. 1.

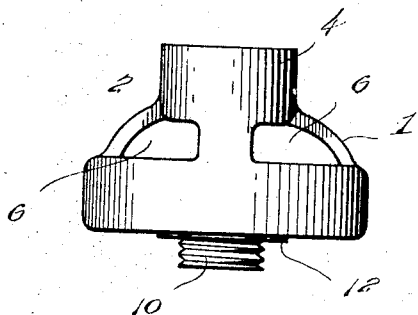


Fig. 2.

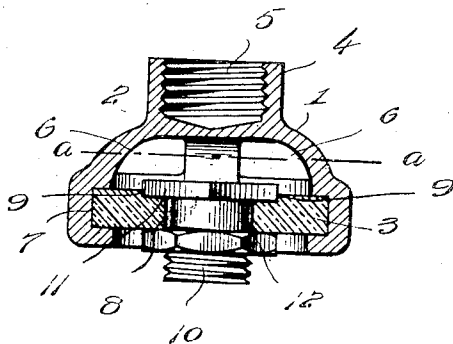


Fig. 3.

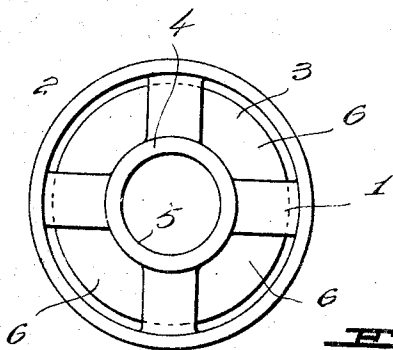


Fig. 2a.

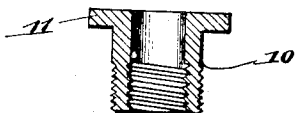


Fig. 4.

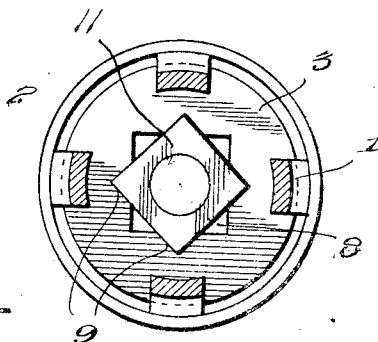
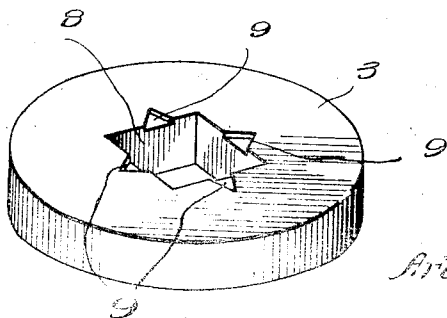


Fig. 5.



Witnesses

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2 SHEETS-SHEET 2.

Fig. 5.

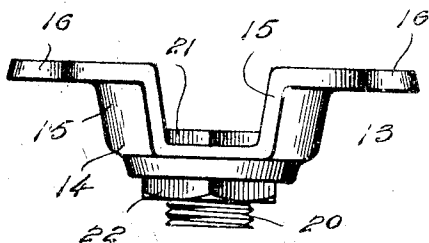


Fig. 7.

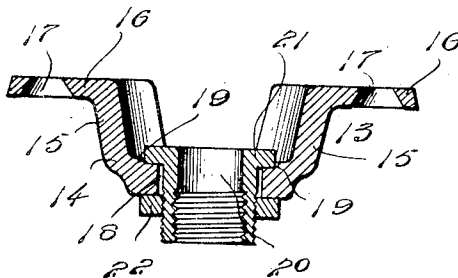


Fig. 8.

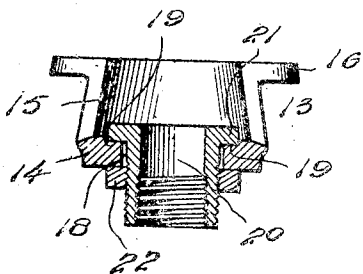
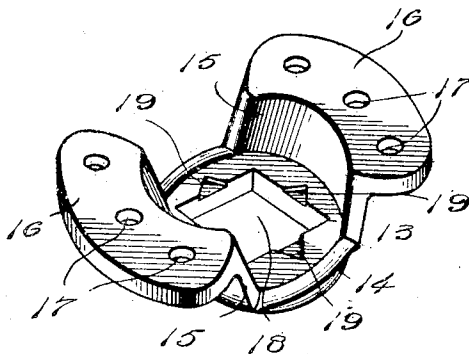


Fig. 9.



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ARTHUR D. RIZER, OF ELGIN, ILLINOIS.

SEPARABLE FIXTURE-JOINT.

1,102,079.

Specification of Letters Patent.

Patented June 30, 1914.

Application filed January 21, 1913. Serial No. 743,383.

To all whom it may concern:

Be it known that I, ARTHUR D. RIZER, a citizen of the United States, residing at Elgin, in the county of Kane and State of Illinois, have invented new and useful Improvements in Separable Fixture-Joints, of which the following is a specification.

This invention is an improved separable electric fixture joint, the object of the invention being to provide an improved device of this character which is so constructed that the parts thereof may be secured together without the necessity of turning any of the parts to such an extent as to twist the conducting wires, the invention consisting essentially of a base having an opening, in combination with a bushing having a head to pass through the opening, and provided with means to engage the inner side of the base when the bushing is partly turned, and a locking means to engage the bushing and bear against the outer side of the base to hold the bushing in place as hereinafter more fully described and claimed.

In the accompanying drawing:—Figure 1 is an elevation of a separable electrolier insulating joint constructed in accordance with my invention. Fig. 2 is a vertical central sectional view of the same. Fig. 2½ is a detail sectional view of the bushing. Fig. 3 is a plan of the same. Fig. 4 is a horizontal sectional view of the same on the plane indicated by the line *a—a* of Fig. 2. Fig. 5 is a detail perspective view of the insulating member of the base. Fig. 6 is an elevation of a separable fixture joint constructed in accordance with my invention. Fig. 7 is a vertical central longitudinal sectional view of the same. Fig. 8 is a vertical transverse sectional view of the same. Fig. 9 is a detail perspective view of the base with the bushing removed.

Referring first to the form of my invention shown in Figs. 1 to 5, as embodied in a separable electrolier insulating joint, there is provided a base 1 which comprises a substantially semi-spherical or conical metallic member 2, which is preferably a casting, and an insulating member 3. The member 2 is provided on its upper side at its center with a cylindrical boss 4 which is tapped and threaded as at 5 to enable the same to be screwed to a gas outlet or a conduit stud so as to affix the base in place. Said member 2 has openings 6 at suitable points in its sides for the admission of the conducting wires

and is provided at its lower side with an annular groove 7 in which the insulating member 3 is fitted. This insulating member has a central rectangular opening 8 and at opposite sides of the opening, at points midway between the corners thereof and on the inner side of the insulating member 3 are recesses 9. The bushing 10 is internally threaded for engagement by the pipe of the electric fixture and, in practice, the workman screws the bushing to the pipe of the fixture in the shop before affixing the base at the place of installation. The bushing is provided at its inner end with a head 11 of a size and shape adapting it to pass through the opening 8 and, hence, in the present instance, this head is rectangular in form to correspond with the shape of said opening. A lock nut 12 is arranged on the threaded exterior of the bushing. The conducting wires pass through the bushing. In order to connect the bushing with the electric fixture to the base, it is only necessary to first pass the head of the bushing through the opening 8, then partly turn the bushing and fixture so as to engage corners of the head with the recesses 9 of the member 3 of the base and then screw the lock nut 12 on the bushing and engage the same with the outer or under side of the insulating member 3 of the base and thereby cause the lock nut to coact with the head of the bushing to firmly clamp the latter in place. It will be understood that since it is only necessary to partly turn the bushing, in the present instance through forty-five degrees, in order to engage the head of the bushing with the locking recess 9, the conducting wires of the fixture are not twisted, and, moreover, the operation of connecting the bushing to the base is rendered extremely simple and may be almost instantly done, the only tool that is required being a wrench or spanner to turn and set up the lock nut.

Referring to Figs. 6 to 9 of the drawing, in which I show my invention embodied in a separable fixture joint, the base 13 comprises a central portion 14 and pair of supporting legs 15 arranged opposite each other and each provided with an outstanding segmental flange 16 to bear against the wall or against the base plate of an electric conduit box. The flanges 16 have openings 17 for the reception of securing screws. The central portion 14 is provided with an opening 18, here shown as rectangular, and on

the inner side of the central portion at points between the corners of the said opening are recesses 19. The bushing 20 has a head 21 of a size and shape adapting it to pass through the opening 19, the bushing being interiorly threaded for engagement with the usual pipe of the fixture and being also exteriorly threaded and provided with a locking nut 22. After the base has been fixed at the required point in the conduit or against a wall or other like place and the bushing has been secured to the pipe of the fixture, it is only necessary to pass the head of the bushing through the opening 18 and then partly turn the same to engage the corners of the head with the locking recesses 19 and then screw up the lock nut so as to cause the latter to coact with the head in detachably and yet firmly securing the bushing to the base.

While I have herein shown and described my invention as embodied in two forms of separable electric fixture joints I would have it understood that other changes may be made in the form, proportion and construction of the several parts without departing from the spirit of my invention and within the scope of the appended claim.

I claim:—

The herein described separable electric

fixture joint comprising a base having a main member tapped for engagement with an outlet pipe or conduit stud, the said main member being hollow and having an outer wall provided with an opening, said main member also having a groove at the inner side of said wall and around said opening; an insulating member arranged in said groove and in the inner side of said outer wall and provided with an opening; a bushing internally and exteriorly threaded and provided with a head at one end to pass through said opening in the insulator and provided with means to directly engage the inner side of the insulator when the bushing is partly turned, said bushing extending out through the openings in the insulator and the outer wall of the main member and a locking nut bearing on the bushing and against the outer side of the insulating member, the internal threads of said bushing adapting the same for engagement by an electric fixture pipe.

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

ARTHUR D. RIZER.

Witnesses:

J. M. MANLEY,

H. F. RATCHER.