C. H. BISSELL.

CONDUIT OUTLET FITTING.

APPLICATION FILED MAY 29, 1913.

**1,126,362.** Patented Jan. 26, 1915.

Fig. 1.

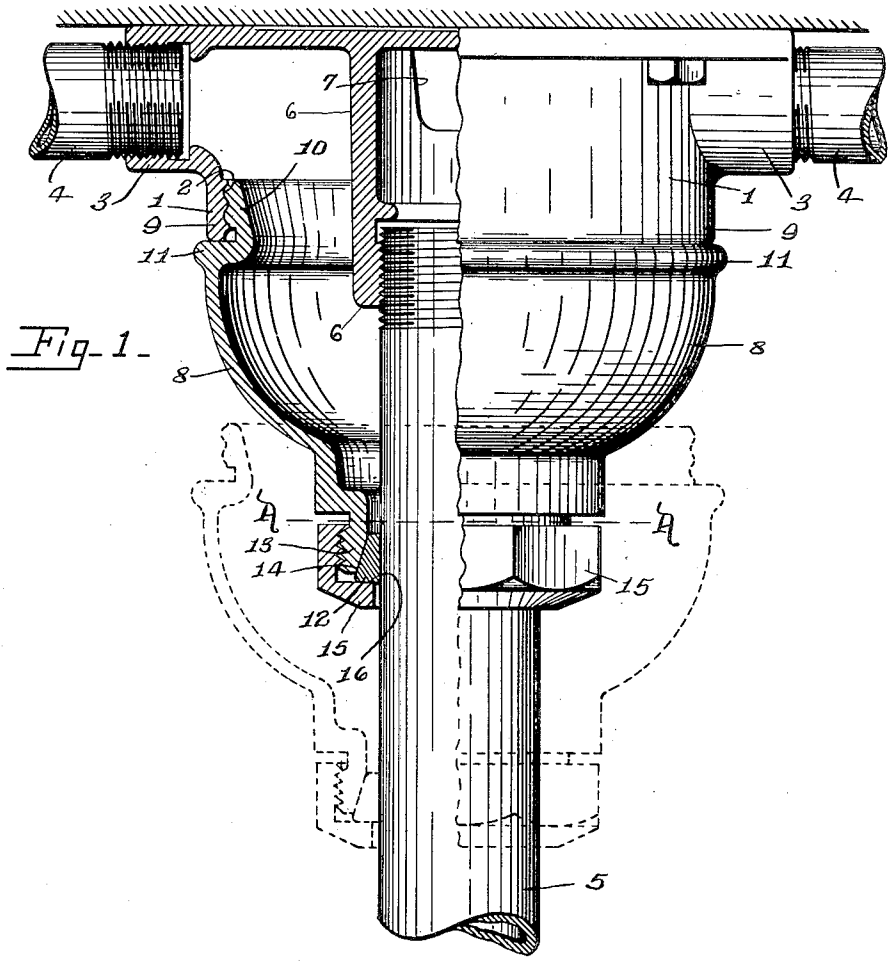
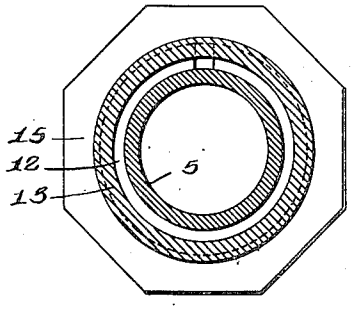



Fig. 2.




WITNESSES:

Chas. H. Young

L. B. Pickard

Carl H. Bissell,

INVENTOR.

BY Parmenter Hull & Bodell.

ATTORNEYS

# UNITED STATES PATENT OFFICE.

CARL H. BISSELL, OF SYRACUSE, NEW YORK, ASSIGNOR TO CROUSE-HINDS COMPANY, OF SYRACUSE, NEW YORK, A CORPORATION OF NEW YORK.

## CONDUIT-OUTLET FITTING.

1,126,362. Specification of Letters Patent. Patented Jan. 26, 1915.

Application filed May 29, 1913. Serial No. 770,570.

*To all whom it may concern:*

Be it known that I, CARL H. BISSELL, a citizen of the United States, and a resident of Syracuse, in the county of Onondaga and State of New York, have invented a certain new and useful Conduit-Outlet Fitting, of which the following is a specification.

This invention has for its object the production of a conduit outlet fitting, particularly applicable for fixtures as chandeliers and the like, used in places as railway cars where there is excessive vibration; and the invention consists in the novel features of construction hereinafter set forth and claimed.

In describing this invention reference is had to the accompanying drawing in which like characters designate corresponding parts in all the views.

Figure 1 is a vertical sectional view, partly in elevation, of this conduit outlet fitting. Fig. 2 is a section on line "A—A" Fig. 1.

This fitting comprises generally an outlet box having an opening in one side thereof, a pipe extending substantially centrally of the opening and connected to the box, a cover or canopy for closing the opening, the cover having an opening or passage for the pipe and being connected to the box, and means connecting the cover or canopy to the pipe.

1 is a conduit outlet fitting having an opening 2 in one side thereof, the box also having means, as internally threaded nipples 3, for connection with the conduits 4 inclosing the service wires.

5 is the pipe extending centrally of the opening 2 and is detachably connected to the box 1 as by screw threads, this pipe being for the purpose of inclosing the wires connected to the electric appliances or lamp sockets of the chandelier and also for the purpose of supporting such appliances.

As here shown, the box is formed with a nipple projecting from its bottom through the opening 2 substantially centrally thereof, and the pipe 5 threads into said nipple. The nipple is preferably formed integral with the bottom of the box and is formed with passages in its sides, as shown at 7, which passages communicate with the interior of the box.

8 is the cover or canopy for the opening 2, the cover having its intermediate portion beneath or beyond the nipple 6 and being detachably connected at its margin as by screw threads to the box, the box being here shown as formed with a projecting annular flange 9 skirting the opening 2, and constituting securing means concentric with the nipple 6 and the cover 8 being shown as having its margin provided with a threaded flange 10 coacting with the flange 9. The cover also has a shoulder 11 at the base of the flange 10 for engaging the outer edge of the flange 9 of the box.

As here shown, the flange 9 is internally threaded, the flange 10 externally threaded, and the shoulder 11 projects outwardly from the base of the flange 10.

The cover or canopy 8 is also formed with a passage for the pipe 5, and the means for securing the canopy to the pipe is preferably clamping means and includes a collet 12 encircling the pipe 5 within a depending flange 13 at the lower end of the cover or canopy, the flange and the collet having conical coacting surfaces, as indicated at 14; and said means further includes a nut 15 threading on the flange 13 and having a shoulder 16 bearing against the collet 12 for pressing the said collet 12 into snug engagement with the flange 13.

The threads connecting the pipe 5 and nipple 6 and those connecting the cover 8 and box 1 are of different pitch so that the tendency of one of the parts 5, 8 to unscrew is resisted by the other of said parts.

In operation, the cover can be readily removed for permitting access to the wires within the box 1 by first loosening the nut 15 and then unscrewing the cover and sliding the same down the pipe, and after the cover is again tightened into position, it, as well as the other screw threaded parts, are held from unintentional turning.

My conduit outlet fitting consists of a minimum number of parts, and is simple and strong in construction and affords for a branch pipe two means of support spaced apart lengthwise of said pipe, one supporting means being of relatively small diameter and fixed directly to the body of the fitting, and the other supporting means being the cover, which is secured at its middle portion to the branch pipe beneath or beyond the first-mentioned point of support and is secured at its margin and at a point above said middle portion to securing means on the body encircling said inner support-

ing means, the cover serving in effect as a brace between the branch pipe and the body of the fitting.

What I claim is:

1. A conduit outlet fitting comprising a box having an opening in one side, a pipe arranged substantially centrally of the opening and connected to the box by screw threads, and a cover for the open side of the box, the cover being connected to the box by screw threads, and having a passage for the pipe, substantially as and for the purpose specified.

2. A conduit outlet fitting comprising a box having an opening in one side, a pipe arranged substantially centrally of the opening and connected to the box by screw threads, a cover for the open side of the box, the cover being connected to the box by screw threads, and having a passage for the pipe, and means connecting the pipe and the cover, substantially as and for the purpose set forth.

3. A conduit outlet fitting comprising a box having an opening in one side, a pipe arranged substantially centrally of the opening and connected to the box by screw threads, and a cover for the open side of the box, the cover being connected to the box by screw threads of different character than those connecting the pipe and the box, the cover having a passage for the pipe, substantially as and for the purpose set forth.

4. A conduit outlet fitting comprising a box having an opening in one side and also a nipple projecting from the bottom thereof toward the opening substantially centrally thereof, a pipe connected by screw threads to the nipple, and a cover for the open side of the box, the cover having an opening through which the pipe passes and being connected to the open side of the box by screw threads, substantially as and for the purpose described.

5. A conduit outlet fitting comprising a box having an opening in one side and also a nipple projecting from the bottom thereof toward the opening substantially centrally thereof, the nipple having a passage in its side opening into the box, a pipe connected to the nipple, and a cover for the open side of the box, the cover having an opening through which the pipe passes and being connected to the open side of the box, substantially as and for the purpose specified.

6. A conduit outlet fitting comprising a box having an opening in one side and also a nipple projecting from the bottom thereof toward the opening substantially centrally thereof, a pipe connected to the nipple, a cover for the open side of the box, the cover having an opening through which the pipe passes and being secured directly to the open side of the box, and means for securing the cover to the pipe, substantially as and for the purpose set forth.

7. A conduit outlet fitting comprising a box having an opening in one side and also a nipple projecting from the bottom thereof toward the opening substantially centrally thereof, a pipe connected by screw threads to the nipple, a cover for the open side of the box, the cover having an opening through which the pipe passes and being connected to the open side of the box by screw threads, and means for securing the cover to the pipe, substantially as and for the purpose described.

8. A conduit outlet fitting comprising a box having an opening in one side and also a nipple projecting from the bottom thereof toward the opening substantially centrally thereof, a pipe connected by screw threads to the nipple, a cover for the open side of the box, the cover having an opening through which the pipe passes and being connected to the open side of the box by screw threads, and means for securing the cover to the pipe, said means comprising a collet encircling the pipe and bearing against the contiguous portion of the cover, the cover and the collet having conical engaging surfaces and a nut threading on the cover and having a shoulder engaging the collet, substantially as and for the purpose specified.

9. A conduit outlet fitting comprising a box having an opening in one side and a projecting annular flange skirting the opening, the box also having a nipple projecting from the bottom thereof, a pipe connected to the nipple by screw threads, and a cover for the open side of the box, the cover being connected to the flange by screw threads and having a shoulder for engaging the outer edge of the flange, substantially as and for the purpose set forth.

10. A conduit outlet fitting comprising a box having an opening in one side and also a nipple projecting from the bottom thereof toward the opening substantially centrally thereof, a pipe connected by screw threads to the nipple, a cover for the open side of the box, the cover having an opening through which the pipe passes and being connected to the open side of the box by screw threads, and means for detachably securing the cover to the pipe, the screw threads connecting the pipe and the nipple, and the threads connecting the cover and the box, being of different pitch, substantially as and for the purpose described.

11. A conduit outlet fitting comprising a box provided with concentric securing means fixed relatively to the body of the box, the portion of the box opposed to the space inclosed by the outer securing means being open, a pipe detachably secured to the

inner securing means, and a cover detachably secured to the outer securing means and having a passage for the pipe, substantially as and for the purpose described.

12. A conduit outlet fitting comprising a box provided with concentric securing means fixed relatively to the body of the box, the portion of the box opposed to the space inclosed by the outer securing means being open, a pipe detachably secured to the inner securing means, a cover detachably secured to the outer securing means and having a passage for the pipe, and means for securing together contiguous portions of the pipe and the cover at a point beyond the point of engagement of the inner securing means and the pipe, substantially as and for the purpose specified.

13. A conduit outlet fitting comprising a box provided with flanges, one inclosing the other, the ends of the flanges being exposed at one side of the box and the spaces inclosed by said flanges opening through said side of the box, a pipe detachably secured to the inner flange, and a cover detachably secured to the outer flange and having a passage for the pipe, substantially as and for the purpose set forth.

14. A conduit outlet fitting comprising a box provided with flanges, one inclosing the other, the ends of the flanges being exposed at one side of the box and the spaces inclosed by said flanges opening through said side of the box, a pipe detachably secured to the inner flange, a cover detachably secured to the outer flange and having a passage for the pipe, and means for securing together contiguous portions of the pipe and the cover at a point beyond the inner flange, substantially as and for the purpose described.

15. A conduit outlet fitting comprising a box provided with flanges, one inclosing the other, the ends of the flanges being exposed at one side of the box and the spaces inclosed by the flanges opening through said side of the box, the outer end of the inner flange projecting beyond the corresponding end of the outer flange, a pipe detachably secured to the inner flange, and a cover detachably secured to the outer flange and having a passage for the pipe, substantially as and for the purpose specified.

16. A conduit outlet fitting comprising a box having its base provided with a projecting nipple and with an upright wall surrounding the nipple, the outer end of the nipple and the corresponding side of the box being open, a pipe detachably secured to the nipple, and a cover detachably secured to said wall and having a passage for the pipe, substantially as and for the purpose set forth.

17. A conduit outlet fitting comprising a box having its base provided with a projecting nipple and with an upright wall surrounding the nipple, the outer end of the nipple and the corresponding side of the box being open, a pipe detachably secured to the nipple, a cover detachably secured to said wall and having a passage for the pipe, and means for securing together contiguous portions of the pipe and cover at a point beyond the nipple, substantially as and for the purpose described.

In testimony whereof, I have hereunto signed my name in the presence of two attesting witnesses, at Syracuse, the county of Onondaga, in the State of New York, this 16th day of May, 1913.

CARL H. BISSELL.

Witnesses:
WM. CORNELL BLANDING,
C. C. SCHOENECK.