

No. 864,995.

PATENTED SEPT. 3, 1907.

F. J. RUSSELL.
JUNCTION BOX COVER ROSETTE.
APPLICATION FILED OCT. 20, 1906.

Fig. 1.

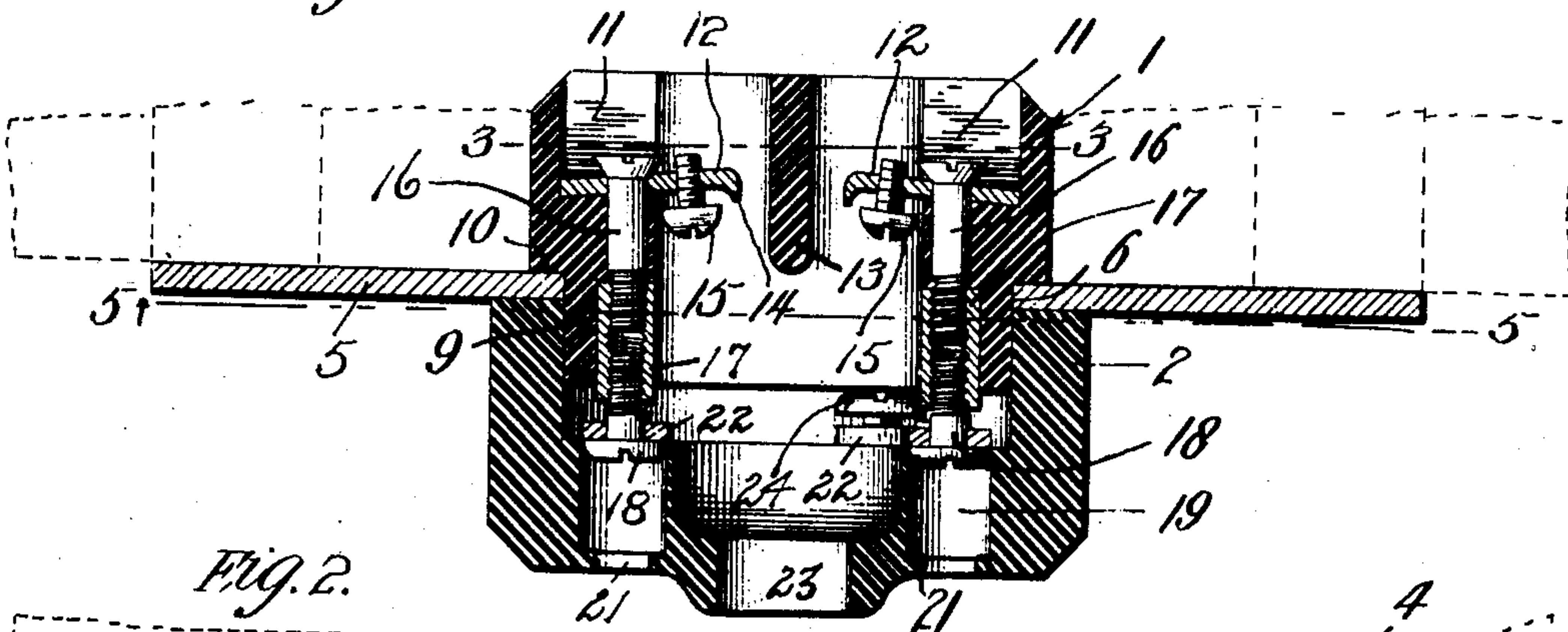


Fig. 2.

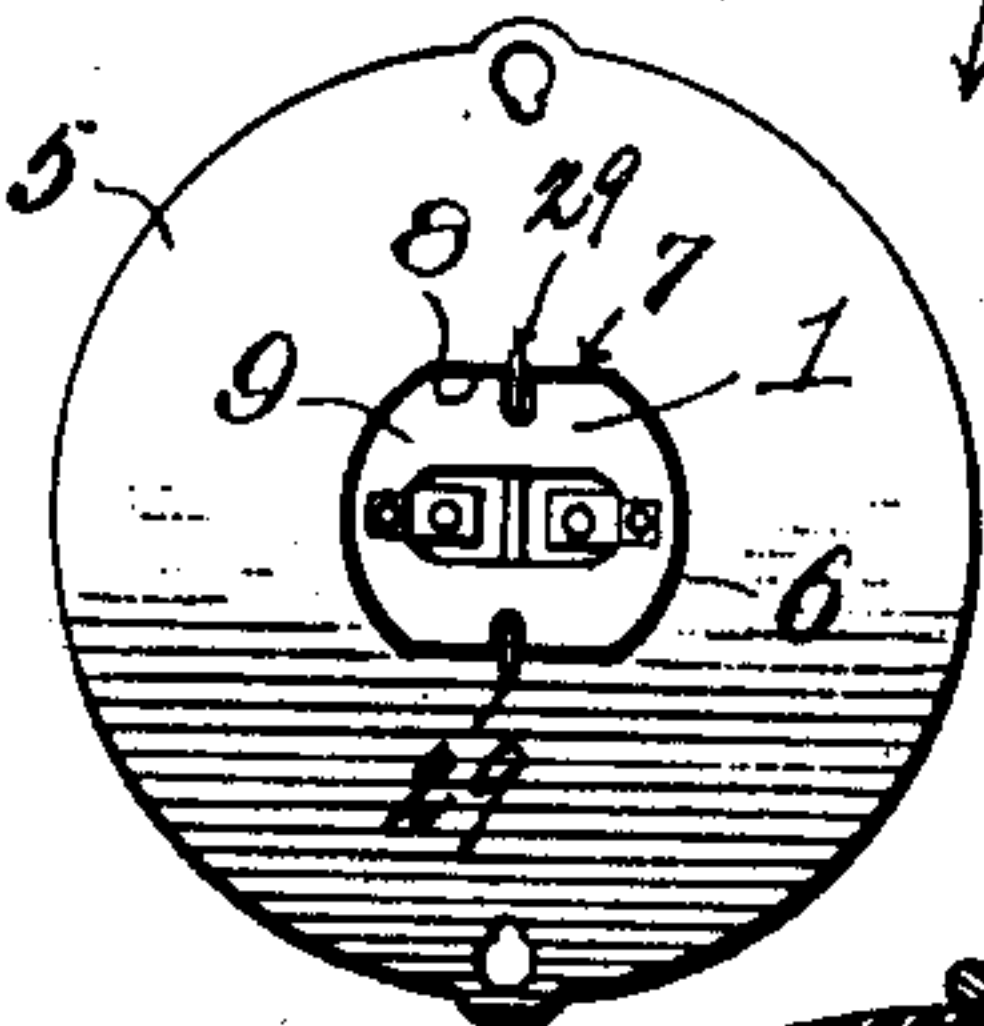
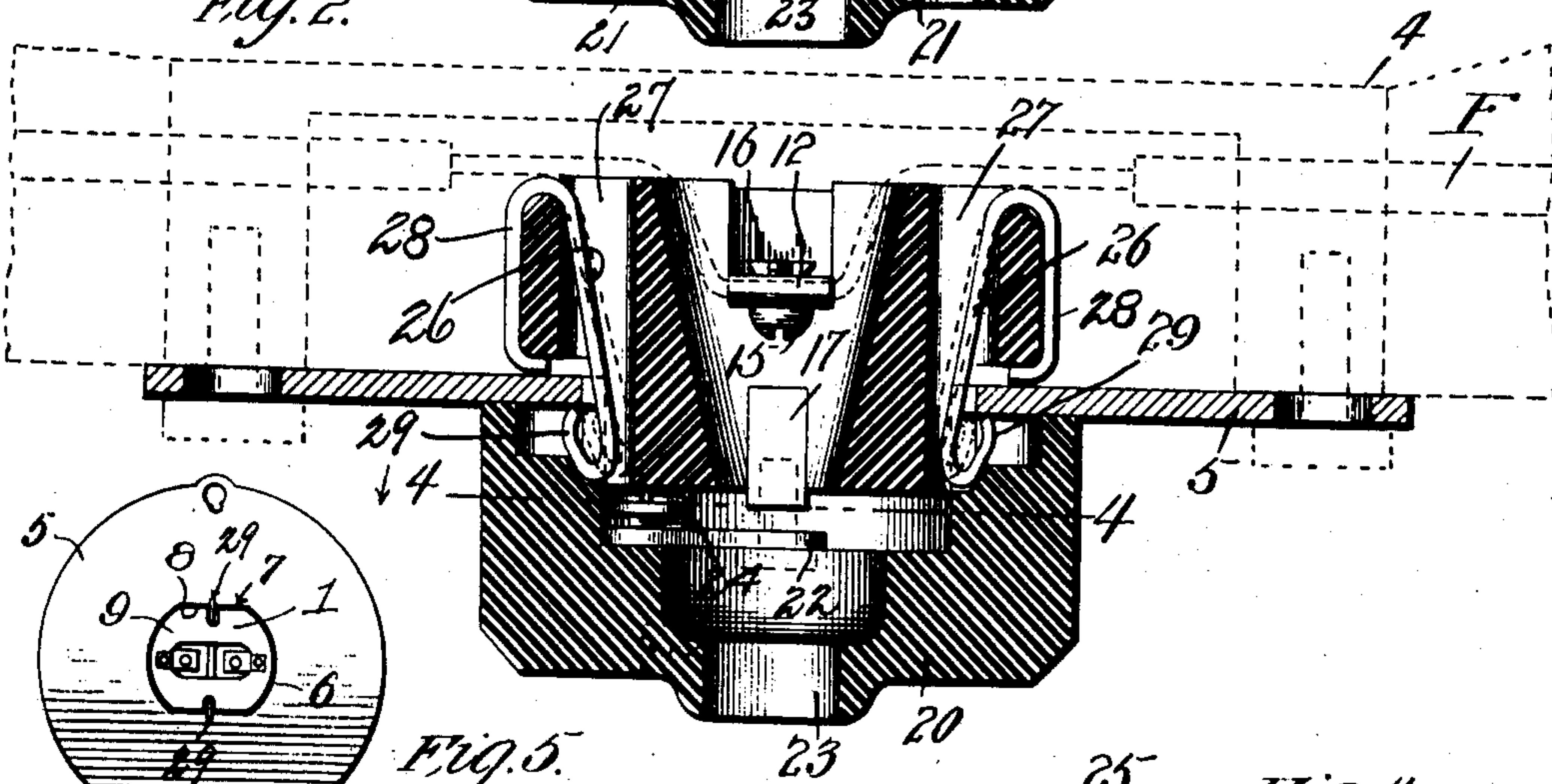


Fig. 5.

Fig. 3.

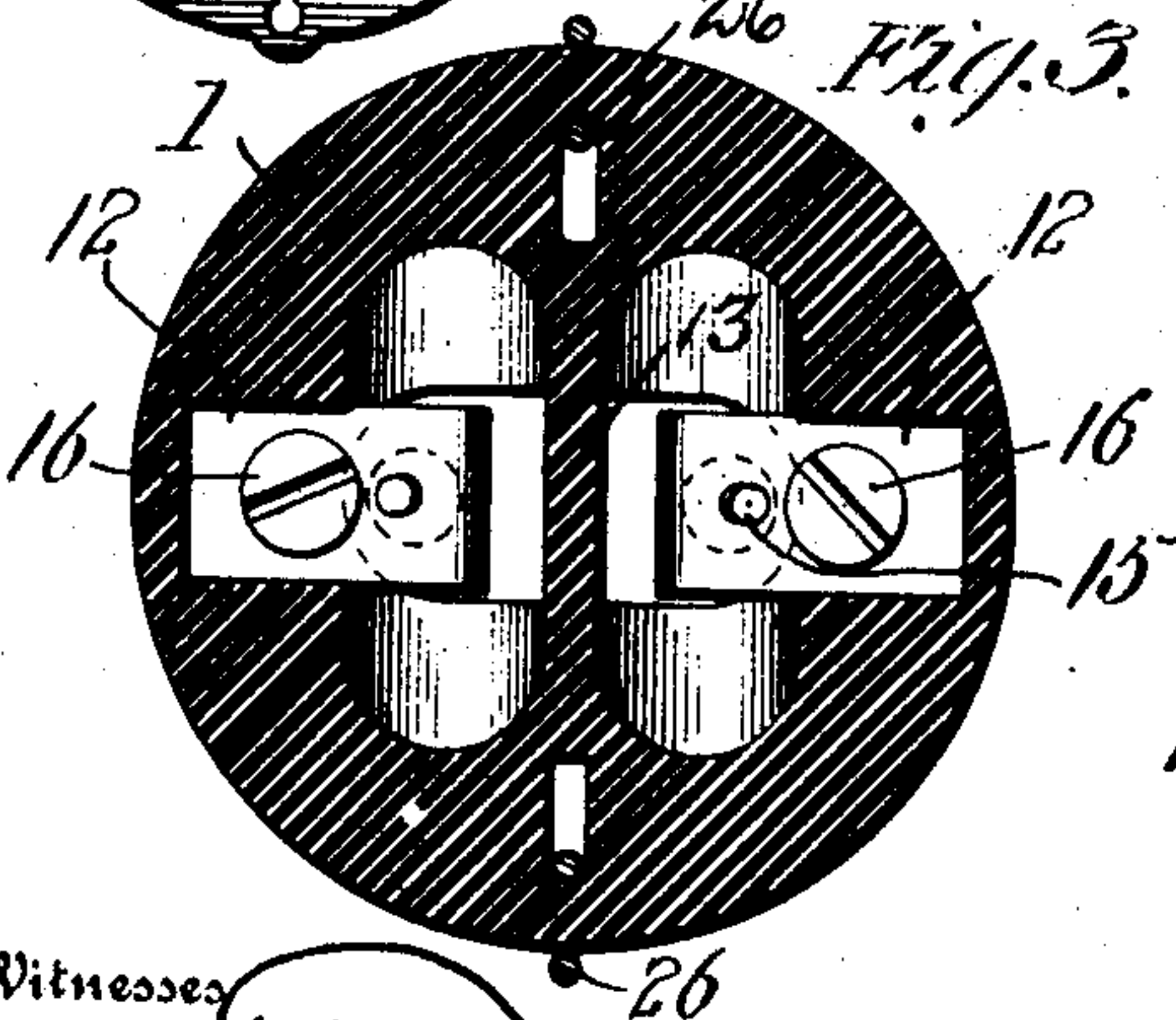
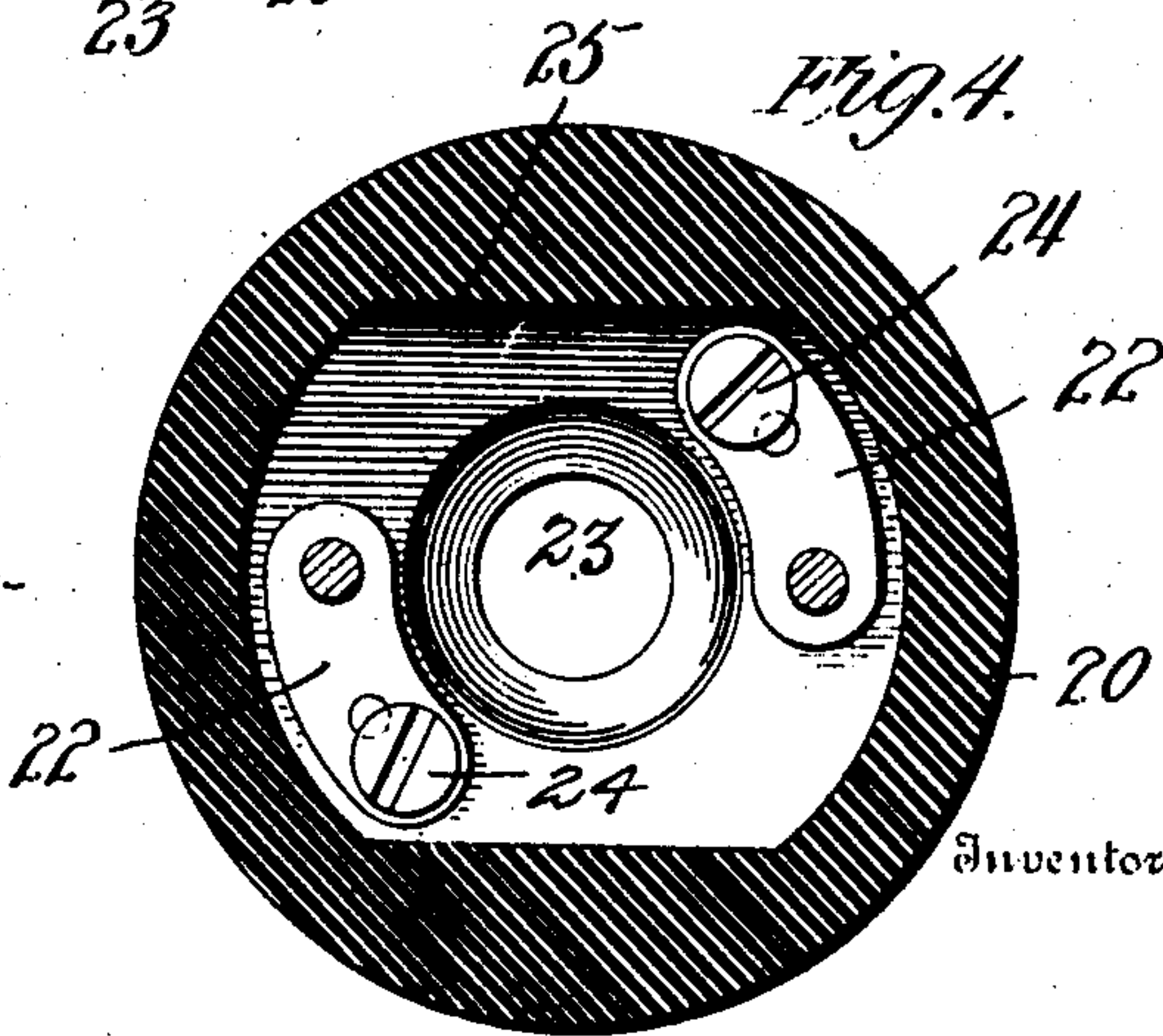


Fig. 4.



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JUNCTION-BOX-COVER ROSETTE.

No. 864,995.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed October 20, 1906. Serial No. 339,819.

To all whom it may concern:

Be it known that I, FRANK J. RUSSELL, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Junction-Box-Cover Rosettes, of which the following is a specification.

This invention relates to rosettes of the drop cord type and more particularly to that class of rosettes associated with junction boxes employed in house wiring.

To this end the invention primarily has in view the provision of a simple and practical construction of drop cord rosette adapted to be applied directly to the cover of a junction box, while at the same time presenting every convenience and facility for connecting up the feed wires, as well as for connecting and disconnecting the drop or service wires.

In its specific application to a junction box cover the invention provides a rosette embodying a minimum number of parts while at the same time facilitating all of the necessary connections without affecting or disturbing the junction box mounting or equipment. Also, the improved construction of rosette provides for the complete concealment and protection of all of the electrical parts and fittings from outside influences, while at the same time electrically shielding and insulating such parts and fittings from each other within the rosette.

One of the distinctive objects of the invention is to provide a separable or two-part construction of rosette wherein one part is designed to be located within the junction box as a permanent and stationary, though removable, fixture for the feed wire connections and capable of being positioned and located by independent locking means will not be disturbed or displaced in any way by the removal and replacing of the cap piece, which latter piece is arranged without the junction box and carries the drop service wire terminals and assembling connections.

Various other objects will readily appear to those familiar with the art, and it will also be understood that structural changes or modifications may be resorted to without departing from the scope of the invention, a preferred embodiment of the same being shown in the accompanying drawings, in which—

Figure 1 is a sectional view of a drop cord rosette constructed in accordance with the present invention and shown applied to a junction box cover. Fig. 2 is a similar view at right angles to the line of section taken through Fig. 1. Fig. 3 is a horizontal cross sectional view on the line 3—3 of Fig. 1. Fig. 4 is a similar view on the line 4—4 of Fig. 1. Fig. 5 is a detail sectional view on the line 5—5 of Fig. 1 (showing the base section in plan, and the cap piece removed).

Like references designate corresponding parts in the several figures of the drawings.

The sectional or two-part rosette contemplated by the present invention primarily consists of two members or parts viz: a base section 1 designed to be arranged at the inner side of a junction box cover, within the junction box, and a detachable cap piece 2 designed to be arranged at the outer side of the junction box cover, without the junction box, and capable of ready attachment to and disconnection from the interior base section 1. For purposes of illustration there is shown in the drawings (in dotted lines) a junction box 4 of any conventional type and adapted to be supported and arranged in any of the usual ways, said junction box accommodating therein the usual feed wires or mains F and adapted to be covered at its open side by the ordinary junction box cover 5.

In carrying out the present invention the junction box cover 5 is provided therein with a rosette receiving opening 6 preferably formed with squared holding edges 7 cooperating with the locking flats 8 formed upon opposite sides of what may be characterized as an extended angular coupling neck 9 projecting from the base section 1 and adapted to protrude through the opening 6 in the cover 5. The said angular coupling neck 9 is formed at the base thereof with the exterior clamping shoulder 10 adapted to bind upon the upper side of the junction box cover when the two parts of the rosette are drawn together, and to provide for the necessary wire connections with the base section 1 the latter is formed with an open top portion provided therein with the oppositely located plate receiving seats 11, upon the bases or shoulders of which seats are fitted the oppositely arranged feed wire terminal plates 12 which are exposed within the open portion of the base section, respectively upon opposite sides of a transverse insulating bridge 13 preferably formed integral with the body of the base section and projecting above and below the transverse plane of the said terminal plates 12. This insulating bridge 13 serves to reduce to a minimum the possibility of short circuiting between the opposite plates 12.

The feed wire terminal plates 12 are preferably formed, at what may be termed their inner ends, with the deflected wire holding hooks 14 beneath which are designed to be looped the bared portions of the feed wires within the junction box, and in order to hold the bared wires firm against and in contact with the hooks 14, the plates 12 are equipped, contiguous to said hooks, with the binding screws 15, whose heads oppose the hooks 14, as plainly shown in Fig. 1 of the drawings. The opposite feed wire terminal plates 12 are secured in place within the seats 11 by means of conducting screws 16 passed through openings in the wall of the base section 1 and whose threaded extremities engage one end of the threaded opening through the interiorly threaded coupling sleeves 17. These coupling sleeves are held in seats formed in opposite sides

of the wall or body of the base section 1, and what may be termed the outer threaded ends of the openings in the sleeves are designed to receive the threaded ends of the assembly screws 18 whose heads are arranged and exposed within the screw holding pockets 19 provided in the base part 20 of the detachable cap section 2. These screw holding pockets 19 are contracted sufficiently at their outer ends, as at 21, to prevent the screws 18 falling out, while at the same time permitting the ready introduction of a screw driver through the pockets 19 for manipulating the screws. The assembling screws 18 also pass through the service wire terminal plates 22 fitted inside of the cap piece 2 on the base part 20 thereof and arranged at diametrically opposite sides of the drop cord or service wire opening 23 formed centrally in the base part 20 of the cap piece 2. The said terminal plates 22 within the cap piece are equipped with binding screws 24 for securing the wire terminals introduced through the wire opening 23.

The cap piece 2 is in the form of a cup and is therefore provided with an opening which may be characterized as an angular seating socket 25 which has a telescopic and interlocking engagement with the angular coupling neck 9 of the base section, which telescopic engagement provides sufficient play between the two parts of the rosette to compensate for looseness of parts and variations in the thickness of junction box covers.

While the assembling screws 18 provide a ready means of connection and disconnection for the detachable cap piece, the base section 1 is provided with independent locking means in the form of oppositely arranged locking springs 26. These springs are mounted within spring openings 27 formed in opposite sides of the base section and are held in place by fastening loops 28 folded about the wall of the base section in the vertical plane of the openings 27. The main portions of the springs 26 extend longitudinally through the openings 27 and are formed at their free ends with the catch heads or hooks 29 exposed upon the outside of the neck 9 and preferably of a beveled form so as to slide through the opening 6 in the junction box cover and snap into locking engagement with the edges of said opening at the outer side of the cover. This independent fastening may obviously be secured by other forms of equivalent fastenings, but in all cases provides means for locking the base section against displacement through the manipulation of the cap piece.

I claim:

1. In a rosette, a supporting element, a base section arranged at one side of the supporting element and having a

locking connection therewith, said base section carrying the feed wire terminals, and a detachable cap piece fastened to the base section and arranged at the opposite side of said supporting element, said cap piece carrying the service wire terminal.

2. In a rosette, a supporting element, a base section having an independent locking connection with said supporting element and carrying the feed wire terminals, and a detachable cap piece having an adjustable non-rotative telescopic connection with the base section, and arranged upon the opposite side of the supporting element from the base section, said cap piece carrying assembling means and the service wire terminals.

3. A rosette comprising a base section carrying the feed wire terminals and having locking means for independent engagement with a supporting element, and a detachable cap piece having an adjustable telescopic connection with the base section, said cap piece carrying the service wire terminals and assembling connections, the latter providing for securing the rosette with the supporting element interposed between the base section and the cap piece.

4. In a rosette, a junction box cover having an opening therein, a base section arranged at the inner side of the junction box cover and having a projecting portion extending through said opening, and a detachable cap piece arranged upon the outer side of the junction box cover and carrying the service wire terminals and assembling means.

5. In a rosette, the combination with a junction box cover having an angular receiving opening therein, a base section carrying the feed wire terminals and having an angular coupling neck projecting through said opening, an exterior detachable cap piece carrying the service wire terminals and having an angular seating socket telescoping upon said coupling neck, and assembling connections carried by said cap piece.

6. A drop cord rosette comprising a base section having oppositely arranged plate receiving seats and a transverse insulating bridge therebetween, terminal plates fitted within said seats and each provided with wire engaging and binding means, oppositely arranged threaded coupling sleeves fitted in the base section, conductor screws engaging said sleeves and said terminal plates in the base section, a cap section arranged in overlapping relation to the base section, service terminal plates fitted to the base part of the cap section and each provided with a binding screw, and assembling screws mounted in said service terminal plates and arranged to adjustably and detachably engage said threaded coupling sleeves.

7. In a rosette, a supporting element having a receiving opening therein, a base section carrying the feed wire terminals and provided with oppositely arranged locking springs provided at their free ends with catch heads or hooks arranged to have a snapping locking engagement with said supporting element through the opening thereof, and a detachable cap piece carrying the service terminal plates and assembling means.

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

FRANK J. RUSSELL.

Witnesses:

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THEBE A. RUSSELL.