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No. 767,163.

PATENTED AUG. 9, 1904.

G. E. NEUBERTH.
ELECTRIC SWITCH BOX OR CASE.
APPLICATION FILED OCT. 3, 1903.

NO MODEL.

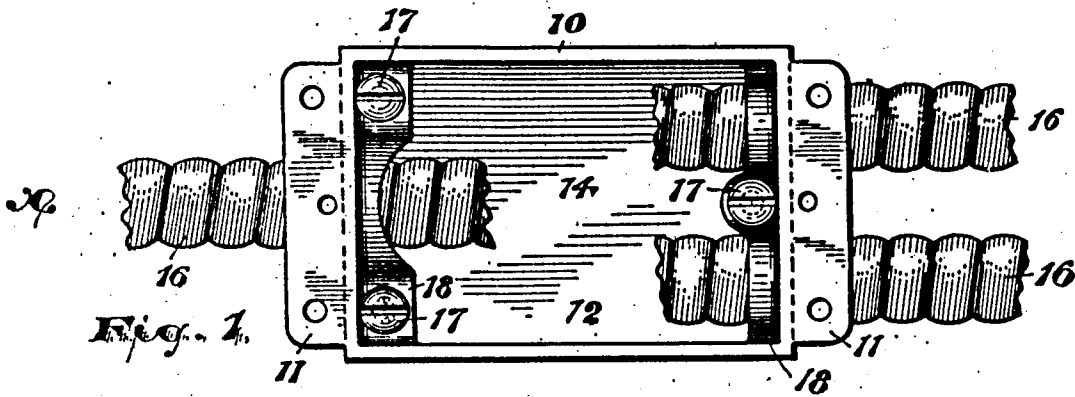


Fig. 1.

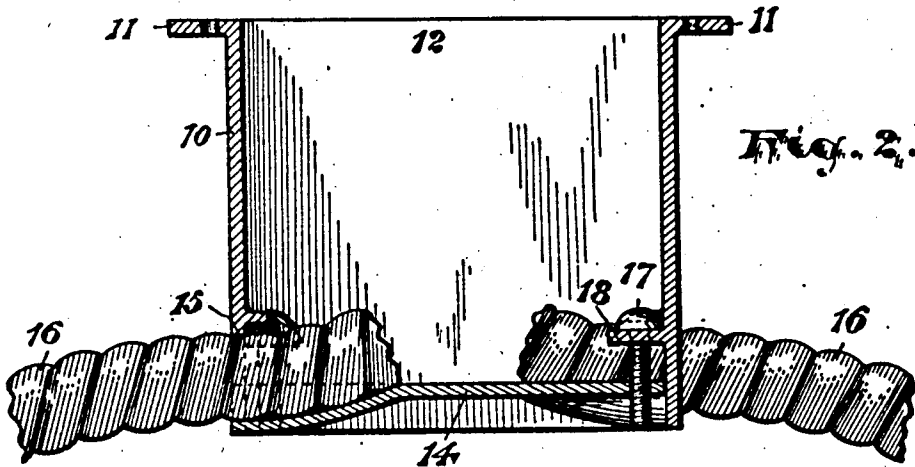


Fig. 2.

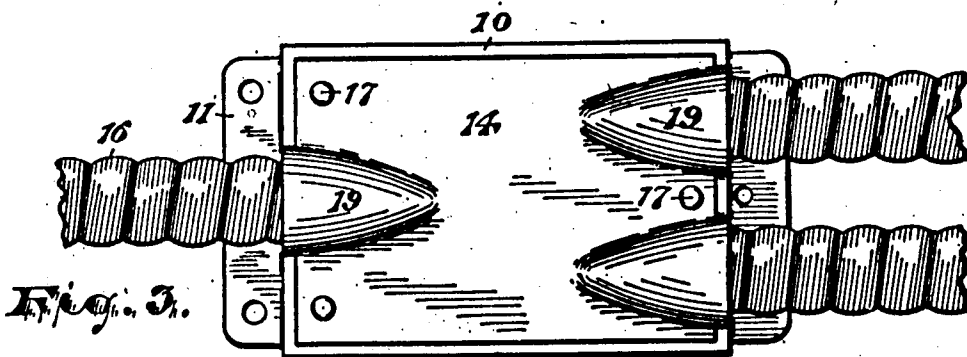


Fig. 3.

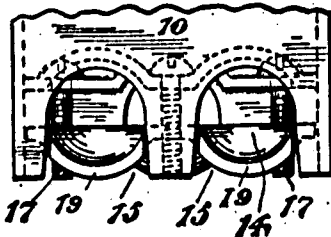


Fig. 4.

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UNITED STATES PATENT OFFICE.

GEORGE E. NEUBERTH, OF NEWARK, NEW JERSEY.

ELECTRIC SWITCH BOX OR CASE.

SPECIFICATION forming part of Letters Patent No. 767,163, dated August 9, 1904.

Application filed October 3, 1903. Serial No. 175,630. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. NEUBERTH, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented and produced a new and original Improvement in Electrical Switch Boxes or Cases; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

The objects of this invention are to reduce the cost of the switch-box, to reduce the labor involved in fastening the flexible conduit to the said switch-box, to dispense with certain nipples and other parts heretofore necessary in making connections, to facilitate the assemblage of parts, and to secure other advantages and results, some of which will be hereinafter referred to in connection with the description of the working parts.

The invention consists in the improved electrical switch box or case and in the arrangements and combinations of parts of the same, all substantially as will be hereinafter set forth, and finally embraced in the clauses of the claim.

Referring to the accompanying drawings, in which like figures of reference indicate corresponding parts in each of the several figures, Figure 1 is a front elevation of my improved device. Fig. 2 is a section of the same, taken at line *x*, Fig. 1. Fig. 3 is a rear elevation of the device, and Fig. 4 is a detail end view taken at the rear of the box.

In said drawings, 10 indicates the body of the box or case, which is provided at its forward side and at its opposite ends with lateral flanges 11, by means of which the box may be screwed or otherwise fastened to the iron girders, joists, beams, or other parts of the structure being supplied with electric wires. The forward side of said box is open, as shown at 12 in Figs. 1 and 2, to permit the insertion of the operator's hands or the tools employed in making connections, said open end being ordinarily closed by the switch plate or cover

(not shown) in any ordinary manner. The rear of said body 10 is also open, and in the opening thereof is inserted a movable rear plate 14, which fits said opening neatly, so as to prevent any material lateral play when in operation, as hereinafter described. At or near the rear or back part of the body 10, at opposite ends thereof, are also formed conduit-openings 15, (shown more clearly in Figs. 2 and 4,) through which the conduits 16 are inserted at their extremities. Said conduits 16 are firmly held to said box-body 10 by screwing forward the movable rear plate 14, which serves as a clamp.

The clamping operation is effected by means of clamping-screws 17, which have their bearings in flanges 18, cast integral with the end walls of said box-body. The slotted ends of said clamping-screws face toward the open forward end 12 of the box-body, so that they may be readily turned, by means of a screw-driver or otherwise, from the open front of the box. The said screws extend rearward and enter threaded bearings within the rear plate 14, so that when said screws are turned the said rear plate 14 is moved either forwardly or rearwardly to clamp or release the conduit. I prefer to have one end of the said box-body provided with a single conduit opening and the opposite end provided with a plurality of openings, as indicated more clearly in Figs. 3 and 4. When the plurality of openings are employed at one end of the box, I prefer to arrange at that end a single screw, arranged between said openings, as indicated in Figs. 1 and 3, whereby by turning the said single screw the two conduits are clamped simultaneously. By the construction thus described I am enabled, when it is found desirable to do so, to clamp or release the conduits at one end of the box without clamping the conduits at the opposite end, the latter being free to be manipulated after the opposite conduits have been finally stationed in position.

The rear plate 14 is provided at its opposite ends with concavo-convex formations 19, the concavities of which lie on the inner or forward side of the rear plate and correspond with the end openings of the

shown in Fig. 4. The sockets formed by said concavities thus serve to hold the conduits more firmly and without damaging the flexible walls of the conduit. The inner walls of the said sockets are also curved toward the front at 20, and thus tend to give a forward turn to the conduits and the wires lying therein, so that when the wires are drawn through the conduits there is less liability of scraping the insulated coverings of said wires than would otherwise be the case.

Having thus described the invention, what I claim as new is—

1. The improved switch box or case, comprising a body open at the front and rear, the said body having at its ends openings to receive the conduits, and being provided interiorly with bearings for clamping-screws, the said clamping-screws extending from said bearings into a rear plate, and said rear plate adapted to be moved within said box to and from clamping relation with the conduits, substantially as set forth.

2. The improved switch box or case, comprising a body open at the front and rear, the said body having at its ends openings to receive the conduits, and being provided interiorly with bearings for clamping-screws, the said clamping-screws extending from said bearings into a rear plate, and said rear plate adapted to be moved within said box to and from clamping relation with the conduits, substantially as set forth.

riorly with bearings for clamping-screws, the said clamping-screws extending from said bearings into a rear plate, and said rear plate adapted to be moved within said box to and from clamping relation with the conduits, said rear plate having at its opposite ends sockets to receive said conduits, substantially as set forth.

3. The improved switch box or case, comprising a body open at the front and rear, the said body having at its ends openings to receive the conduits, and being provided interiorly with bearings for clamping-screws, the said clamping-screws extending from said bearings into a rear plate, and said rear plate adapted to be moved within said box to and from clamping relation with the conduits, said rear plate having at its opposite ends sockets with forwardly-curved inner end walls, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of September, 1903.

GEORGE E. NEUBERTH.

Witnesses:

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