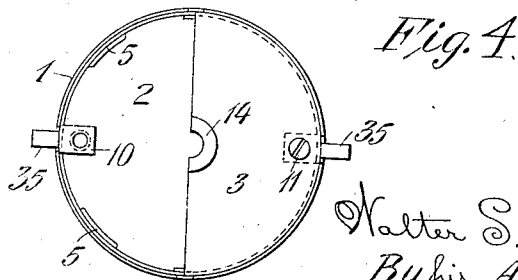
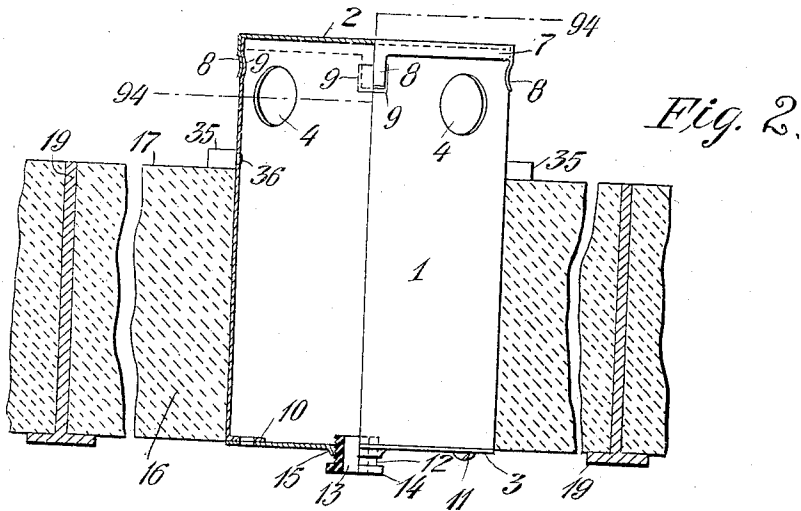
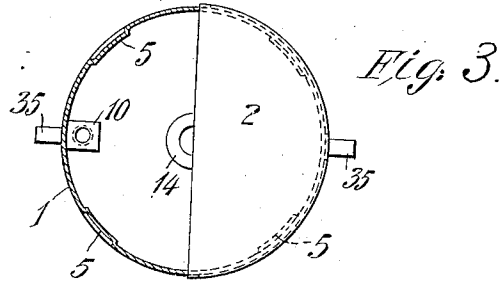
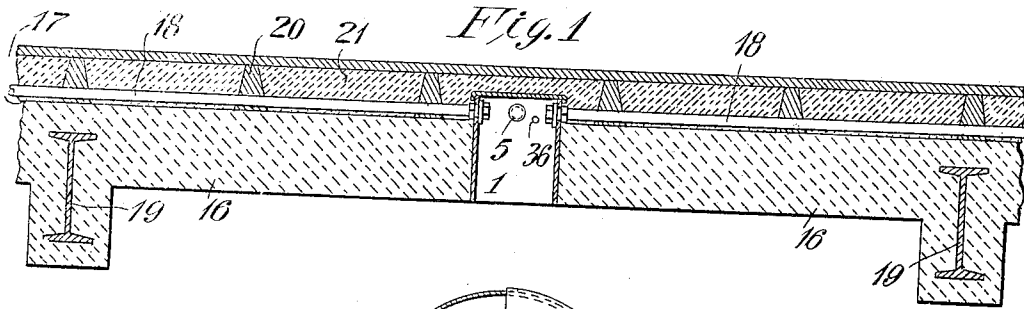


1,013,972.

Patented Jan. 9, 1912.



Witnesses
John H. Hoving
Alfred R. Anderson

Inventor;
Walter S. Timmis,
By his Attorney
Wm. H. Derrigan

UNITED STATES PATENT OFFICE.

WALTER S. TIMMIS, OF NEW YORK, N. Y.

JUNCTION-BOX.

1,013,972.

Specification of Letters Patent.

Patented Jan. 9, 1912.

Application filed November 13, 1906. Serial No. 343,236.

To all whom it may concern:

Be it known that I, WALTER S. TIMMIS, a citizen of the United States of America, residing at Avondale street, Brooklyn Manor, Woodhaven, in the borough of Queens, city and State of New York, have invented a new and useful Junction-Box; and I do hereby declare the following to be a full, clear, and exact description of the same.

10 The present invention relates, especially, to junction-boxes (including ordinary junction-boxes, switch-boxes, outlet-boxes and panel-boxes), and also to the combination of a junction-box with a floor construction in such manner as to economically and expeditiously facilitate the wiring or repairs of wiring of a building.

15 In the accompanying drawings, I have shown a novel construction of junction-box devised, and have illustrated such junction-box combined with a floor construction in the way also devised by me.

20 Figure 1 of the drawings is a sectional view of part of a floor of a building, illustrating floor-girders and a concrete floor construction supported thereby and showing one form of my new junction-box, and the manner of securing and employing such box; Fig. 2 is a detailed view, partly section and partly full, in elevation, of the junction-box; Fig. 3 is a plan view, cut away on the line 94-94, of said box; and Fig. 4 is a bottom view, also partly cut away, of the box.

25 The preferred form of junction-box, consists of a somewhat long tubular body 1, a lid 2 fitted to one end (the upper) of the body, and a cover plate screwed to the other end (the lower) of said body. Said junction-box, in use, will have one or more tube-receiving openings 4, which may result from removing partly-punched plugs 5 (Figs. 1, 3 and 4) in the usual way.

30 The lid 2 is preferably provided with a continuous edge-flange 7, and with a plurality of gripping means, such as spring-lips 8 extending from the edge of the flange 7. Said lid is fitted to one end of the body by having the edge-flange 7 closely fit to the edge of the tube, and the spring-lips 8 enter depressions or recesses 9 in the body near the upper end thereof. Thus the lid may be readily and tightly fitted to place, and may, by a slight twist, also be easily removed from the body.

35 At the end opposite the lid, the body 1 is provided with inwardly-turned lips 10, and

these lips afford the means whereby a cover or cover-plate 3 is screwed to place. Screws 11, engaging the cover 3 and the lips 10, are employed for this purpose.

40 At its center, the cover 3 is provided with an opening, wherein is fitted a bushing 12 also having a central opening 13 and a milled edge 14, for readily screwing the bushing into and out of the cover. Said cover around the central opening, is provided with a downwardly-extending flange or rim 15.

45 A junction-box, of the kind shown and described, may be used in any way desired. In the drawings, I have shown it fitted to a floor-construction, such for instance, as a floor-slab 16, which may be a mass of hardened concrete formed directly around or fitted between floor-girders 19. Such floor-slab, when formed according to my invention, has an opening extending from the top to the bottom of the slab, and entirely through the same, and the junction-box, in the form preferred by me, is longer than the depth of the floor-slab, so that when the bottom edge of the body (whereat the lips 10 are provided) is level with the bottom of the floor-slab, the upper end of the body 1 projects above the upper face 17 of the floor-slab sufficiently to leave the tube-receiving openings 4 also above the upper face of the slab. The body or box 1 may be tightly or loosely fitted into the opening of the slab, but I prefer that such body shall be fixedly held to place by the hardening of the original concrete of the slab or by the hardening of added concrete.

50 To hold the body in the desired relation to the slab I provide such body with external stops, such as pegs 35 riveted (as shown at 36) to the body, which rest upon the upper face 17 of the floor-slab.

55 It will be seen, therefore, that a junction-box of the kind described, fitted in the described manner to a floor-slab, permits (as shown in Fig. 1) conductor tubes 18 to be in alinement with and directly enter the tube-receiving openings 4, without the interposition of elbows of any kind, permits the fastening of the tubes and contained conductors to place in the body at any time before the floor is finished, and permits the conductors to be inserted or changed at any time after the floor is finished, by removal of the cover plate 3. After the conductor-tubes 18 and conductors have been connected

as desired, the lid 2 will be fitted to place, and concrete 21 will be poured above the tubes and lid and between the sleepers 20 and allowed to harden. Thereafter the
5 boards 22 may be secured to the sleepers.

What I claim is:

1. In a junction box, a tubular body having a tube-receiving opening near one of its ends and provided with means for holding
10 said body in desired relation to a slab when fitted thereto, in combination with caps secured to the upper and lower ends of the tubular body, one of said caps provided with an insulating bushing fitting within an
15 opening of the cap.

2. In a junction-box, a tubular body pro-

vided with a tube receiving opening near one end of the body and a stop projecting outwardly from the exterior of said body, in combination with caps secured to the upper and lower ends of the tubular body, the last-named cap having an opening there-through and an insulating bushing fitted in said cap.

In testimony whereof, I have signed my
25 name to this specification in the presence of two subscribing witnesses.

WALTER S. TIMMIS.

Witnesses:

CHESTER ARTHUR SLOCUM,
ROBERT POLK SCHOENJAHN.