March 31, 1953 H. M. STONAKER 2,633,263

ELECTRICAL OUTLET CONCRETE FORM CLAMP

Filed Nov. 30, 1949

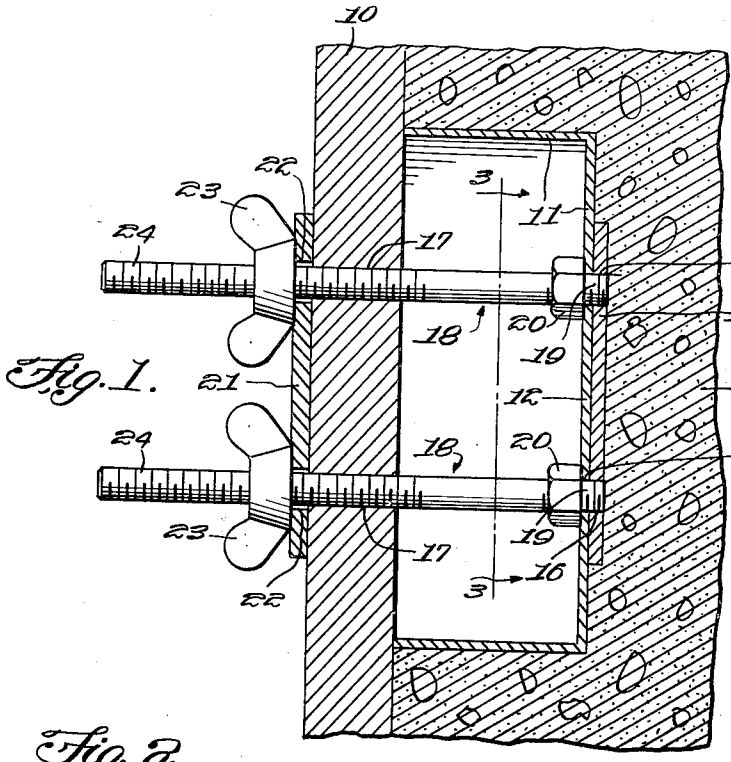


Fig. 1.

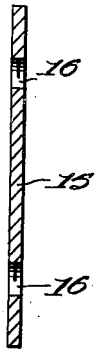


Fig. 4.

Fig. 2.

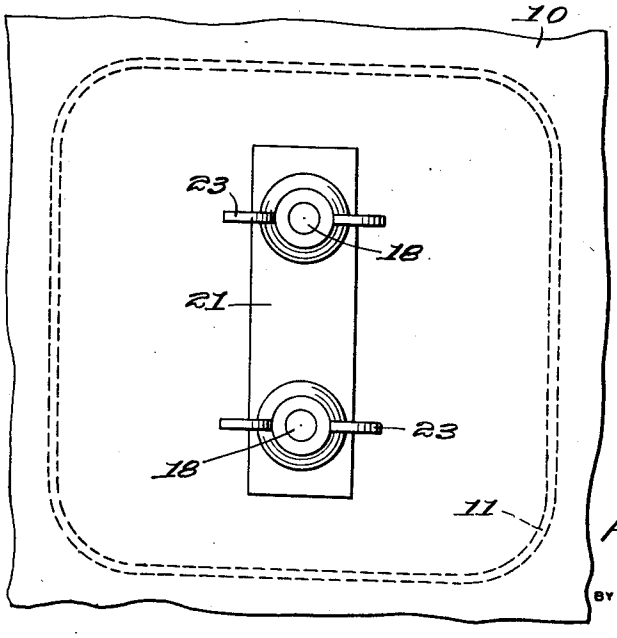
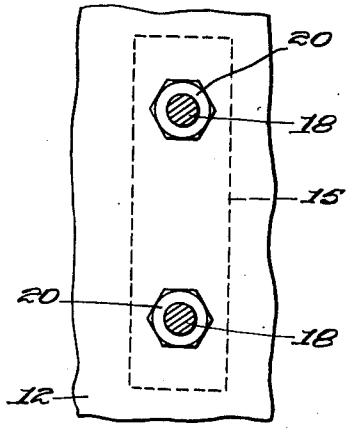


Fig. 3.



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ELECTRICAL OUTLET CONCRETE FORM CLAMP

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Application November 30, 1949, Serial No. 130,314

1 Claim. (Cl. 220—3.4)

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This invention relates to a method of and means for holding electrical outlet boxes in their proper positions while concrete is being poured around the outlet boxes, so that the outlet boxes will not be moved out of their set positions.

The object of the invention is to provide a method of and means for fastening an outlet box to a form member so that the outlet box will be maintained in its proper position during the pouring of the concrete.

Another object of the invention is to provide a method of and means for temporarily fastening electrical outlet boxes to concrete form members during the pouring of concrete whereby the correct placement or positioning of the outlet boxes will be facilitated, and wherein the parts can be used over and over again.

A further object of the invention is to provide a method of and means for temporarily fastening outlet boxes to concrete form members which is extremely simple and inexpensive to utilize.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings forming a part of this application, and in which like numerals are used to designate like parts throughout the same:

Figure 1 is a fragmentary sectional view through a poured concrete structure showing an embedded outlet box fastened to a form member by the fastening means of the present invention;

Figure 2 is a fragmentary front elevational view of the fastening mechanism being used;

Figure 3 is a sectional view taken on the line 3—3 of Figure 1;

Figure 4 is a longitudinal sectional view taken through the back plate.

Referring in detail to the drawings, the numeral 10 designates a conventional form member which may be fabricated of wood, and arranged contiguous to the form member 10 is the usual conventional outlet box 11. The outlet box 11 is provided with an open end and the outlet box 11 is adapted to be embedded in the concrete 14 for holding the usual electrical fixtures.

The present invention is directed to a method of and means for temporarily fastening the outlet box 11 to the form member 10, whereby the concrete 14 can be poured, and after the concrete hardens or sets, the outlet box 11 will be positioned in its proper position. The outlet box 11 includes a pair of spaced openings 13 that are arranged in the back wall 12 for a purpose to be later described. Arranged contiguous to the outer surface of the back wall 12 is a back plate 15, Figure 4, and the back plate 15 is provided

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with a pair of spaced threaded apertures 16. The apertures 16 in the back plate 15 register with the openings 13 in the back wall 12 of the electrical outlet box 11.

The wooden form member 10 is provided with a pair of spaced openings 17 and projecting through each of the openings 17 is an elongated bolt 18. Each of the bolts 18 includes a threaded end 19 that projects through the opening 13 and is arranged in threaded engagement with the aperture 16. A hexagonally-shaped nut 20 is mounted on each of the bolts 18 adjacent the back wall 12 to insure that the bolt 18 is properly positioned.

Arranged contiguous to the outer surface of the form member 10 is a bearing plate 21 which is provided with a pair of spaced holes 22, the holes 22 registering with or being aligned with the openings 17 in the form member 10. The pair of bolts 18 project through the holes 22 and a wing nut or securing element 23 is arranged in threaded engagement with the outer threaded end 24 of each of the bolts 18 for maintaining the parts in assembled relation.

In use, the form member 10 is drilled or otherwise provided with the pair of spaced openings 17 and the outlet box 11 is arranged contiguous to the form member 10. Then, the back plate 15 is positioned contiguous to the rear wall 12 of the outlet box 11 so that the apertures 16 in the back plate 15 register with the openings 13 in the back wall 12. Then, the bearing plate 21 is arranged adjacent or contiguous to the outer surface of the form member 10 so that its holes 22 register with the openings 17 in the form member 10. Then, the bolts 18 are inserted through the registering holes 22, openings 17, openings 13, and the threaded ends 19 are arranged in engagement with the threaded apertures 16. Next, the wing nuts 23 are arranged in engagement with the threaded portions 24 of the bolts 18 so that the outlet box 11 is securely fastened to the form member 10. Then, the concrete 14 is poured in the usual manner around the outlet box 11 so that after the concrete 14 sets or hardens, the outlet box 11 will be embedded therein. After the concrete 14 has set, the parts can be removed so that they can be used over and over again. That is, all of the parts except the back plate 15 can be recovered for further use. Thus, after the concrete 14 hardens, the wing nuts 23 are removed from the bolts 18, then the bearing plate 21 is removed, and next the form member 10 is disassembled from the concrete 14, and then the bolts 18 can be taken or removed from engage-

ment with the apertures 16. Thus, there is provided the outlet box 11 which is correctly positioned and is securely embedded in the concrete mass 14. The back plate 15 cannot be recovered for future use, since it is interposed between the back wall 12 of the outlet box and the adjacent portion of the concrete 14.

By means of the present invention, it is not necessary to use wires to attempt to hold the outlet box in place while the concrete is being poured. The present invention will insure that the outlet box will not be moved out of place by the weight of the concrete or by the action of vibrators, and the cost of straightening boxes and positioning the electrical outlet boxes will be greatly reduced. Further, the outlet box 11 will have a neat appearance in its finished form.

What is claimed is:

In combination, a concrete form member, an outlet box, a means for temporarily fastening an electrical outlet box to the concrete form member, said outlet box having an open end and including a back wall, the open end of said outlet box being arranged contiguous to said form member, there being a pair of spaced openings in said back wall, a back plate arranged adjacent the outer surface

of said back wall and provided with a pair of spaced threaded apertures, a pair of spaced parallel bolts projecting through said form member, through the openings in said back wall and arranged with their inner ends in threaded engagement with said apertures, securing elements arranged in engagement with the outer projecting ends of said bolts, and a bearing plate interposed between said securing elements and said form element, there being a pair of spaced holes in said bearing plate for the projection therethrough of said bolts.

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