

(No Model.)

A. P. SEYMOUR.
THERMAL CUT-OUT.

No. 481,246.

Patented Aug. 23, 1892.

Fig. 1.

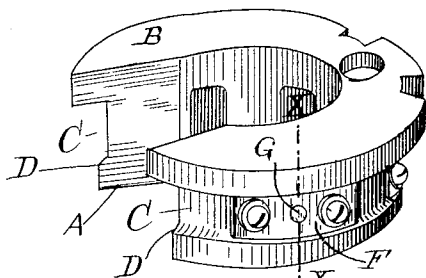


Fig. 2.

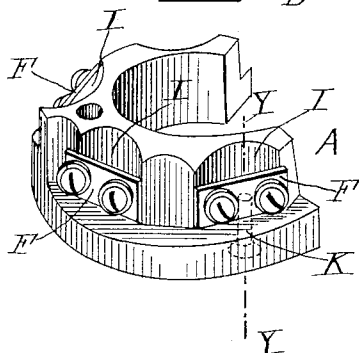
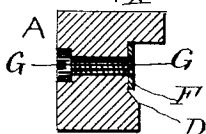


Fig. 3.

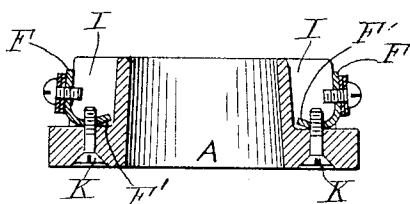


Fig. 4.

ATTEST!

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THERMAL CUT-OUT.

SPECIFICATION forming part of Letters Patent No. 481,246, dated August 23, 1892.

Application filed March 21, 1892. Serial No. 425,673. (No model.)

To all whom it may concern:

Be it known that I, ALBERT P. SEYMOUR, a citizen of the United States, and a resident of Syracuse, in the county of Onondaga and State of New York, have invented certain new and useful Fixture Cut-Outs, of which the following is a specification.

My invention relates to that class of electric-wiring fixtures ordinarily termed "chandelier" or "fixture" cut-outs, and which are constructed with a porcelain or other insulating base adapted to partially or wholly surround a tube or pipe carrying electric conductors and are provided with attached metal pieces by means of which connections may be made between electric wires or conductors and fuses may be interposed in the connections.

The invention is not, however, limited to a wiring-fixture in which provision is made for interposing a fuse, but is applicable to a wiring-block or fixture-connecting device in which the metal parts attached to the porcelain or insulating base are adapted only for attachment of leading or main wires and local conductors to form a connection between them.

The object of my invention is to provide an electric-wiring fixture or junction device of the kind described in which the porcelain or similar insulating base or block shall be adapted to striking up or molding in a single piece by direct pressure, being in this respect an improvement upon previous constructions, which as ordinarily made must be struck up or molded in two parts.

A further object of the invention is to provide a junction device for chandeliers and other electric fixtures in which the metal-work for connection of the wires and fuses shall be firmly held with little liability to loosening.

The invention consists in the features of construction hereinafter described, and then specified in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a form of fixture or chandelier cut-out as heretofore constructed. Fig. 2 is a cross-section on the line X X. Fig. 3 is a perspective view of a chandelier or fixture cut-out or junction device as constructed in accordance with my present invention. Fig. 4 is a cross-section on the line Y Y.

Referring to Fig. 1, A indicates the block of porcelain or similar vitreous or insulating substance, which is of curved shape and adapted to surround the pipe or tube.

B is the head, which has a flange or rim extending over the body A. In the outside of the latter is formed a groove, as indicated at C, made by means of the shoulder D. In this groove is mounted the metal-work, consisting of plates F, of metal, which are provided with binding-screws for attachment of the wires and fuses and are held in place by means of screws G, passing laterally through the body A, preferably from the interior or transversely to what constitutes the central axis of the cut-out. In manufacturing a cut-out block of this shape it is necessary, owing to the conformation thereof, to strike up or mold the same in two parts, which are adapted to be joined together. It is, moreover, necessary to form the perforations or holes which receive the screw G by a separate operation unless the two parts referred to are joined on the line of said holes.

In a cut-out or junction device of this same general shape and adapted for use in similar situations, but constructed in accordance with my present invention, the block may be molded or shaped by one operation, and, moreover, the screw-holes for the screws which hold the metal-work may be made by the same operation.

Referring now to Figs. 3 and 4, similar parts are indicated by the same letter.

The body A, instead of being formed with a shoulder and groove on its exterior, as in Fig. 1, is formed plain or without any shoulder, so that a die or mold of proper shape can be used for making the whole block at one impression.

The metal-work consists of angle-pieces, the part F of which, exposed at the side of the block, is provided with the binding-screws, as usual, but has in addition a lateral extension or ear, as indicated in Fig. 4, which lies in a recess I, formed in the side of the body A, and is tapped for the reception of a fastening-screw K, which passes through a vertical opening extending from the head parallel with the central axis of the block, as clearly shown in the cross-section. The openings for these screws K may, as will be obvious, be formed

in the operation of molding the block. The plates F at their ends rest against the body A at the ends of the recesses I, and are firmly held in such position, owing to the fact that the ear F' projects at less than a right angle from the plate F, so that as the screw draws it tips or rocks the plate over and binds it solidly against the base. The slight spring of the metal angle-piece formed of the plate F and its ear F' tends to prevent unloosening of the screw.

What I claim as my invention is—

1. An electric chandelier or fixture cut-out or junction-block having body A and head B, provided with a flange or rim extending over the body and formed, as described, to permit it to be molded in a single piece and provided with attached metal-work secured in place upon its side by screws passing through the flange or rim of the head parallel with the axis of the block through ears or projections from such metal-work.

2. In a chandelier or fixture cut-out substantially such as described, a block A, of porcelain or similar vitreous substance, having the recesses I and metal angle-pieces fastened to the side of the block over said re-

cesses by screws passing through the head of the block instead of laterally through the body of the block, as and for the purpose described.

3. In a chandelier or fixture cut-out or junction device, a curved block of porcelain or similar insulating substance formed, as described, to permit it to be struck up or molded by a single operation and having recesses I for the metal-work, and openings into said recesses from the head of the block for the reception of fastening screws or bolts.

4. The combination, substantially as described, with the porcelain or similar block of insulating material having recesses on its side, of metal angle-pieces slightly springy, provided with binding-screws, and fastening-screws passing through one angle from the end or head of the block, as and for the purpose described.

Signed at Syracuse, in the county of Onondaga and State of New York, this 7th day of March, A. D. 1892.

ALBERT P. SEYMOUR.

Witnesses:

SOLON H. LANE,
CHAS. R. HUBBELL.