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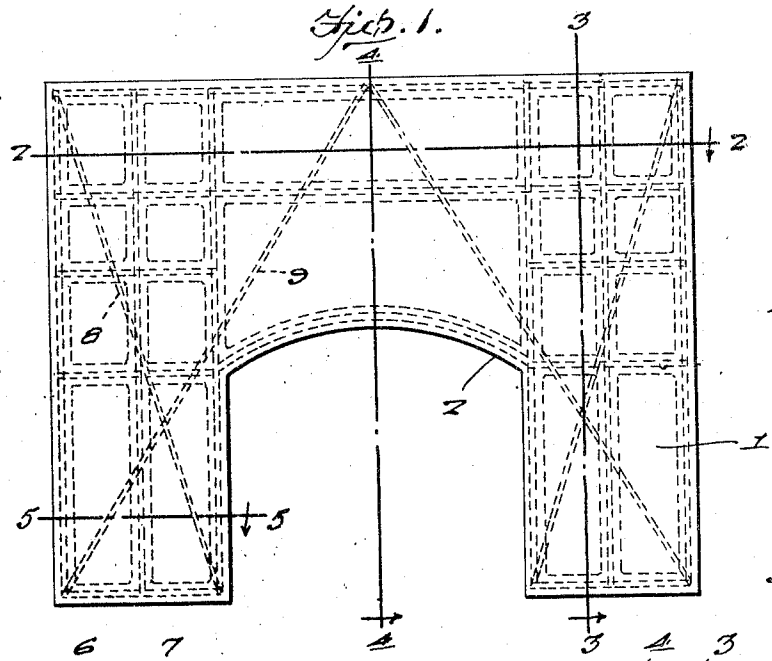
Feb. 24, 1925. 1,527,723

R. T. WOODARD

CEMENT MANTEL

Filed May 26, 1924

Fig. 1.



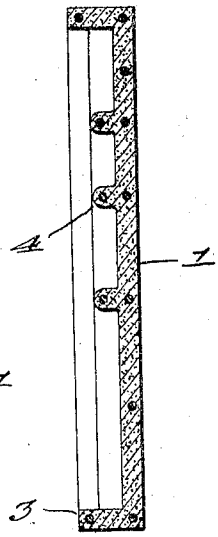


Fig. 3.

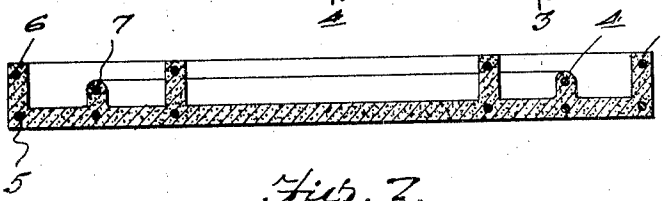


Fig. 2.

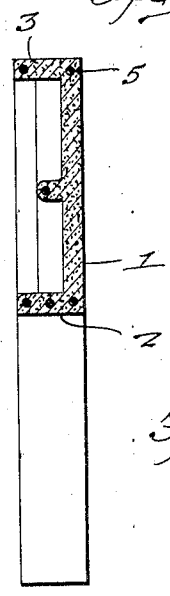
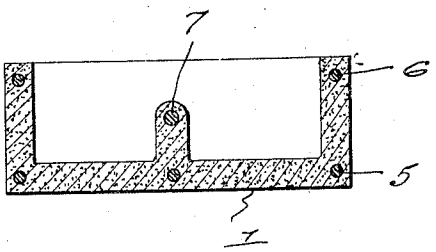


Fig. 4.

Fig. 5.



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UNITED STATES PATENT OFFICE.

RUFUS T. WOODARD, OF OAKLAND, CALIFORNIA.

CEMENT MANTEL.

Application filed May 26, 1924. Serial No. 716,624.

To all whom it may concern:

Be it known that I, RUFUS T. WOODARD, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in a Cement Mantel, of which the following is a specification.

This invention relates to cement mantels especially adapted to be used at fire places and it consists in the novel features hereinafter described and claimed.

An object of the invention is to provide a cement mantel reinforced with steel bars to prevent cracking, the mantel having the bars embedded therein thereby forming a single piece structure. The mantel being a single unit is independent of the chimney to which it is applied and consequently any settling or cracking of the chimney will not distort or fracture the mantel and open up seams therein.

A further object of the invention is to provide a mantel of the character stated which is easy to install, inexpensive to manufacture, and which may be readily shipped, handled or moved at small cost.

In the accompanying drawing:—

Figure 1 is a front elevational view of the mantel.

Figure 2 is a horizontal sectional view thereof cut on the line 2—2 of Figure 1.

Figure 3 is a vertical sectional view thereof cut on the line 3—3 of Figure 1.

Figure 4 is a vertical sectional view thereof cut on the line 4—4 of Figure 1.

Figure 5 is a detail horizontal sectional view of a portion thereof cut on the line 5—5 of Figure 1.

The mantel comprises a substantially rectangular panel 1 composed of concrete cement and provided at its lower portion and between its vertical sides with an arch opening 2. The panel 1 is provided around its edges with a continuous flange 3 and along lines within the flange 3 with ribs 4. The flange 3 and ribs 4 are also of concrete cement. Steel bars 5 are embedded in the panel 1, steel bars 6 are embedded in the flange 3 and disposed parallel with the bars 5 and steel bars 7 are embedded in the ribs 4 and are disposed parallel with certain of the bars 5. Certain of the bars 5 and 6 extend along the vertical edges and over the top of the arch opening 2 and strengthen the structure of the panel about the same arch opening. Diagonally disposed bars 4 are embedded in the panel 1 and extend from the upper corners thereof toward the lower ends of the sides of the opening 2. Diagonally disposed bars 9 are embedded in the panel 1 and extend above the lower corners thereof to the upper intermediate portion thereof and above a line erected vertically and along the median vertical height of the opening 2. The bars 8 and 9 strengthen the corner portions of the panel 1 and also strengthen the structure at the angles or corners of the arch opening 2. The panel 1 may be provided with an ornamental face in cement finish in granolythic, marblelythic, or stipple and applied to wet or dry concrete with a trowel or dashed on the outer surface with a brush to mingle and blend colors in imitation of stone or terra cotta.

Having thus described the invention, what I claim is:—

1. A cement mantel of general rectangular form provided at its lower portion and between its side edges with an arch opening, a flange surrounding the edges of the mantel, ribs disposed along the interior surface of the mantel, and spaced rods embedded in the body of the mantel and in the flange and the ribs thereof.

2. A cement mantel of general rectangular form having at its lower portion and between its side edges an arch opening, the panel being provided at its rear side with a continuous flange which extends around the edges of the panel and the arch opening therein, the panel having at its rear side transversely disposed ribs, bars embedded in the panel and the flange and ribs, bars embedded in the panel and extending diagonally from the upper corners thereof to the lower corners of the opening and other bars embedded in the panels and extending from

the lower corners thereof to a point above the arch opening and midway between the side edges of the panel.

3. A cement mantel comprising a flat body of rectangular form having an arched opening formed in the bottom side portion thereof, a plurality of bars embedded in the edge portion of said body and other bars embedded in said body and extending diagonally from the lower corner to the upper portion thereof for reinforcing the edge portions and the central portions of said body over said arched opening.

In testimony whereof I affix my signature.

RUFUS T. WOODARD.