P. McCAFFERY.

COLLAPSIBLE CENTER MOLD FOR HOLLOW WALLS.

APPLICATION FILED APR. 7, 1920.

1,387,790. Patented Aug. 16, 1921.

FIG. 1.

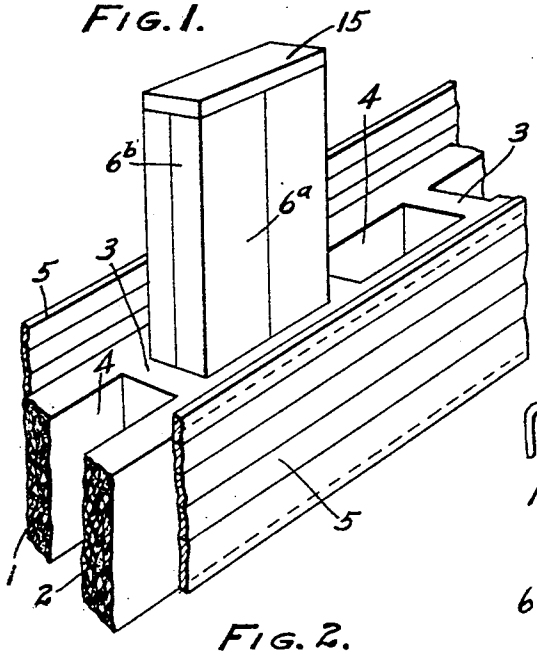



FIG. 4.

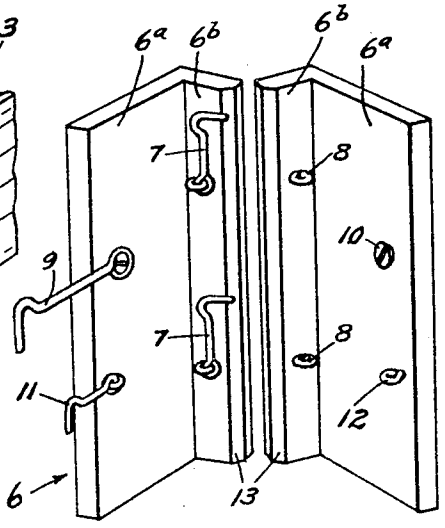



FIG. 2.

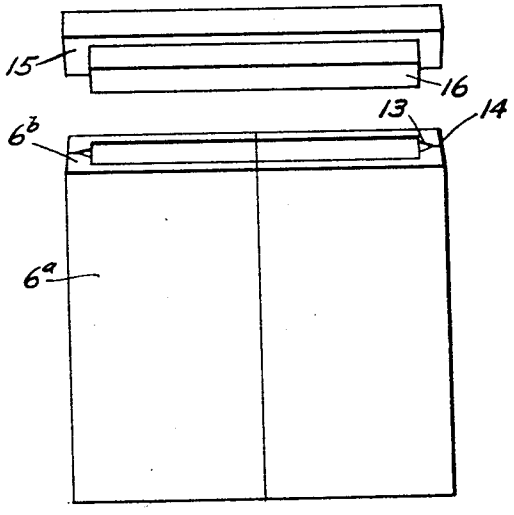



FIG. 5.

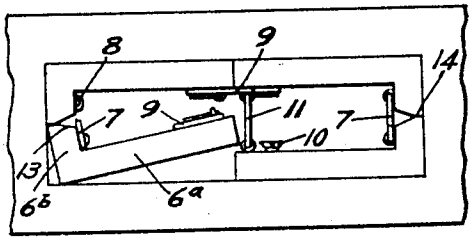
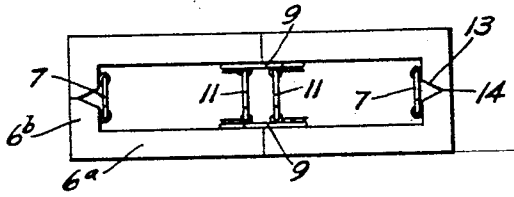



FIG. 3.




INVENTOR

PETER McCAFFERY

BY Hazard & Miller

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

PETER McCAFFERY, OF SAN BERNARDINO, CALIFORNIA.

## COLLAPSIBLE CENTER MOLD FOR HOLLOW WALLS.

1,387,790. Specification of Letters Patent. Patented Aug. 16, 1921.

Application filed April 7, 1920. Serial No. 372,071.

*To all whom it may concern:*

Be it known that I, PETER McCAFFERY, a citizen of the United States, residing at San Bernardino, in the county of San Bernardino and State of California, have invented new and useful Improvements in Collapsible Center Molds for Hollow Walls, of which the following is a specification.

This invention is a collapsible mold for concrete walls and the like, and has for its object to provide a center mold for hollow wall constructions which will be extremely simple in its construction and which may be readily set up and then subsequently collapsed for removing the same from the completed wall construction.

It is a further object of the invention to provide a mold formed of a plurality of sections having readily manipulated but efficient and simple means for detachably connecting the sections of the mold.

Other objects of the invention will be understood from the following description of the accompanying drawings in which;

Figure 1 is a perspective view of a wall construction showing one of the center molds in position.

Fig. 2 is a perspective view of one of the molds with the cover removed.

Fig. 3 is a top plan view of the same.

Fig. 4 is a perspective view of two of the sections of a mold separated from one another.

Fig. 5 is a plan view of a mold in position within a hollow concrete wall and showing one of the sections moved to its collapsed position.

In the present embodiment of the invention the mold is illustrated as employed in building the hollow concrete wall comprising the spaced side walls 1 and 2 and the cross walls 3 forming the hollow rectangular spaces 4 within the wall. The molding forms for the outer surfaces of walls 1 and 2 may be any well known or preferred construction represented at 5, and my improved collapsible mold is adapted to be positioned between the molds 5 in spaced relation therefrom to form the hollow spaces 4 within the hollow wall construction.

Each of the collapsible molds comprise a plurality of sections represented at 6 and arranged, when the sections are assembled edge to edge, to form a closed core of the shape which it is desired to make the hollow spaces 4 within the hollow wall.

In the present embodiment the molds are arranged to form rectangular cores, and for this purpose each of the molds comprise four sections each forming a right angle and adapted to be assembled edge to edge. The molds are shown as forming elongated rectangles, each of the sections thereof consisting of a relatively long side $6^a$ and a relatively short side $6^b$. The short sides $6^b$ of adjacent sections are adapted to be placed edge to edge, and the long sides $6^a$ of adjacent sections are placed edge to edge, as clearly shown in Figs. 2 and 5, to form closed elongated rectangular cores.

The sections of a mold, as thus assembled, are arranged to be detachably secured together at the inner surfaces of the mold sections. For this purpose one of the sides $6^b$ of adjacent sections may be provided with hooks 7 and the other side $6^b$ of adjacent sections is provided with eyes 8 in which the hooks 7 are adapted to be received for securing the sections together in edge to edge position. The sides $6^a$ of adjacent sections may be similarly connected by a hook 9 upon one of the sections adapted to be received over a pin 10 on the other section. The oppositely disposed sides $6^a$ of two of the sections which abut at the edges of their short sides $6^b$ are, preferably, similarly cross connected as by a hook 11 on one of the sides $6^a$ of the sections adapted to be received in an eye 12 on the side $6^a$ of the other section. By this construction when the mold sections are assembled edge to edge and the sections are connected by the respective hooks a rigid closed core is provided which is adapted to be collapsed after the concrete wall has set by unfastening the respective connecting hooks and disassembling the sections.

In order that the sections may be readily swung inwardly into the hollow space within the core formed by the mold when it is desired to disassemble the sections, the contacting edges 13 of the short sides $6^b$ of adjacent mold sections are, preferably, sloped away from one another from the outer to the inner surfaces of the sections, these sloping edges of the sections, preferably, terminating short of the outer surfaces of the sections as shown at 14.

By this construction it will be seen that when it is desired to collapse a mold it is only necessary to unhook the connecting hooks and swing the long side $6^a$ of one of

the mold sections inwardly, as clearly shown in Fig. 5, and said mold section may then be readily removed from the hollow space 4 formed by the mold, this inwardly swinging movement of the mold section being permitted by the sloping adjacent edges 13 of adjacent mold sections providing sufficient space for the necessary swinging movement of the abutting edges of the sides 6[b] of the mold sections.

When the mold is assembled as shown in Fig. 2, the open top thereof is, preferably, provided with a closure for preventing the entrance of material into the inside of the hollow mold, this closure being shown as a flat surface 15 received over the end of the mold and having a depending central portion 16 received within the hollow of the mold for retaining the closure in position upon the top of the mold.

Various changes may be made without departing from the spirit of the invention as claimed.

What is claimed is:

A collapsible mold comprising four separately formed members each of which is substantially L-shaped in cross section, the inner vertical edges of the short legs of said L-shaped members being cut away to facilitate assembly and separation of the members, hooks and hook engaging members arranged on the inner faces of both legs of each member for retaining said members in assembled relation, a hook arranged on the inner face of the long leg of each section, a hook engaging member seated in the long leg of the opposite section, which last mentioned hooks and hook engaging members retain the assembled members in proper spaced relation, and a closure member adapted to be removably positioned in the upper end of said mold.

In testimony whereof I have signed my name to this specification.

PETER McCAFFERY.