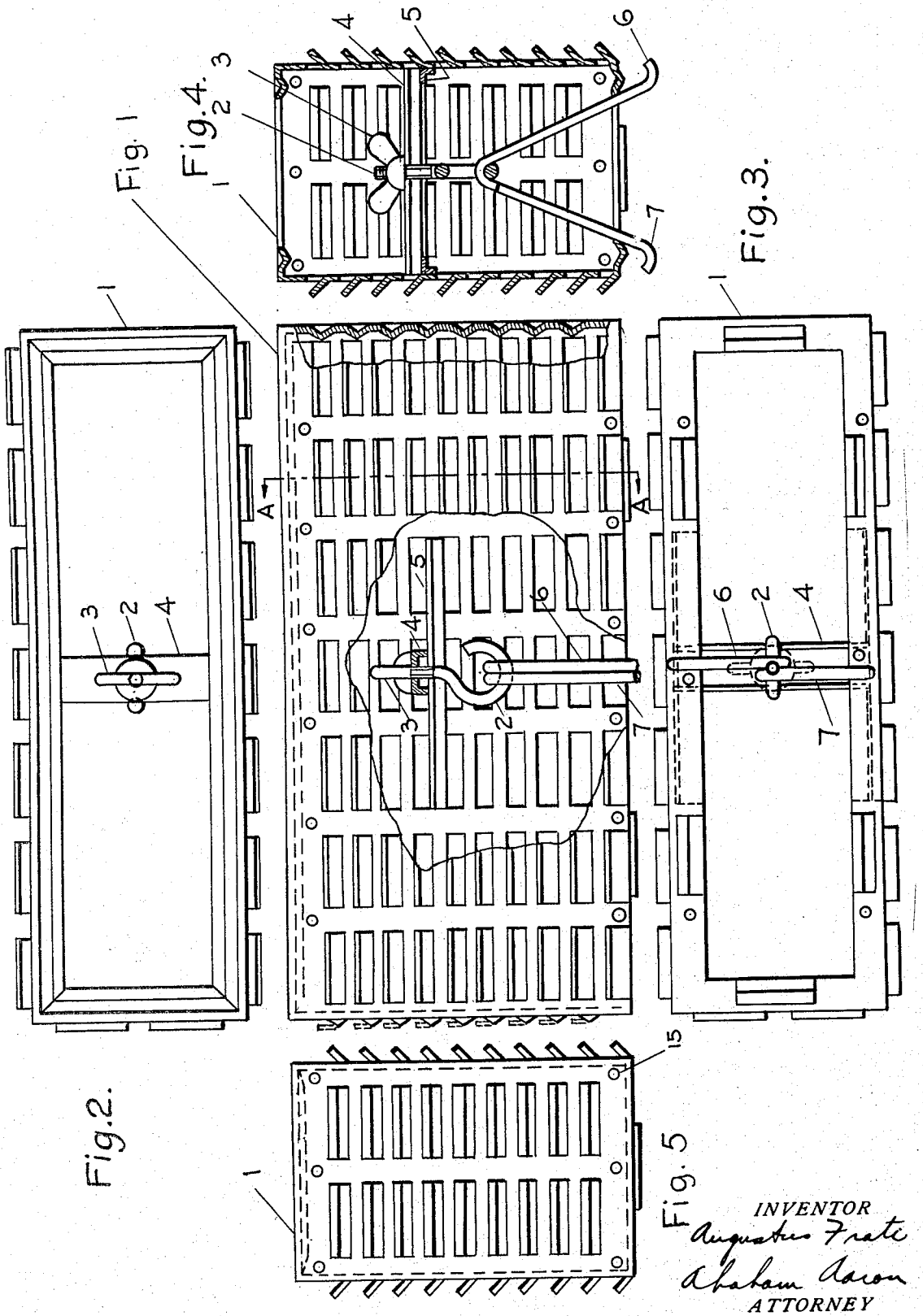
Aug. 31, 1937. A. FRATI 2,091,542

METAL HOLLOW BUILDING BLOCK

Filed Nov. 3, 1936 3 Sheets-Sheet 1



INVENTOR
Augustus Frati
Abraham Aaron
ATTORNEY

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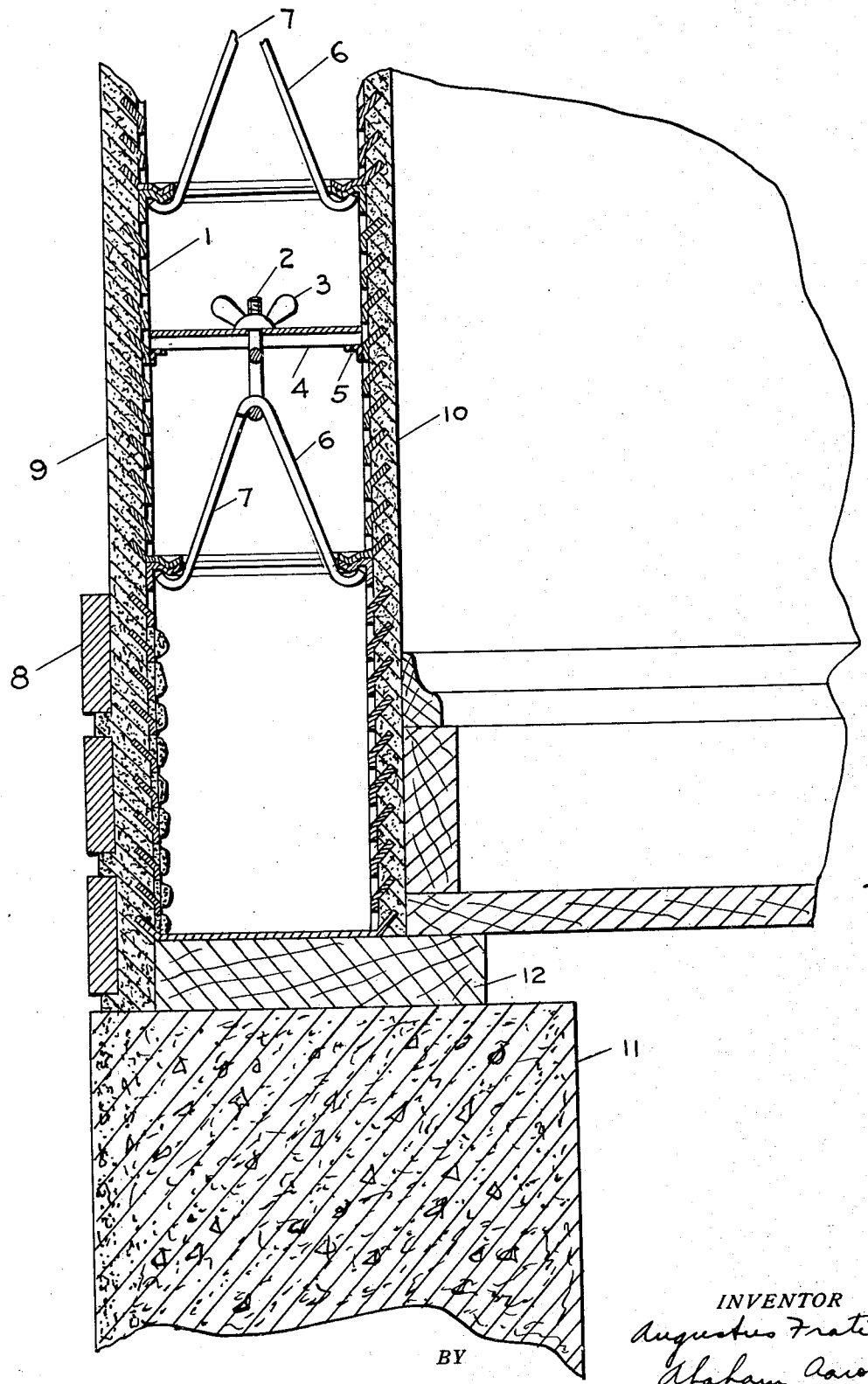


Fig. 6

INVENTOR
Augustus Frati
Abraham Aaron
ATTORNEY

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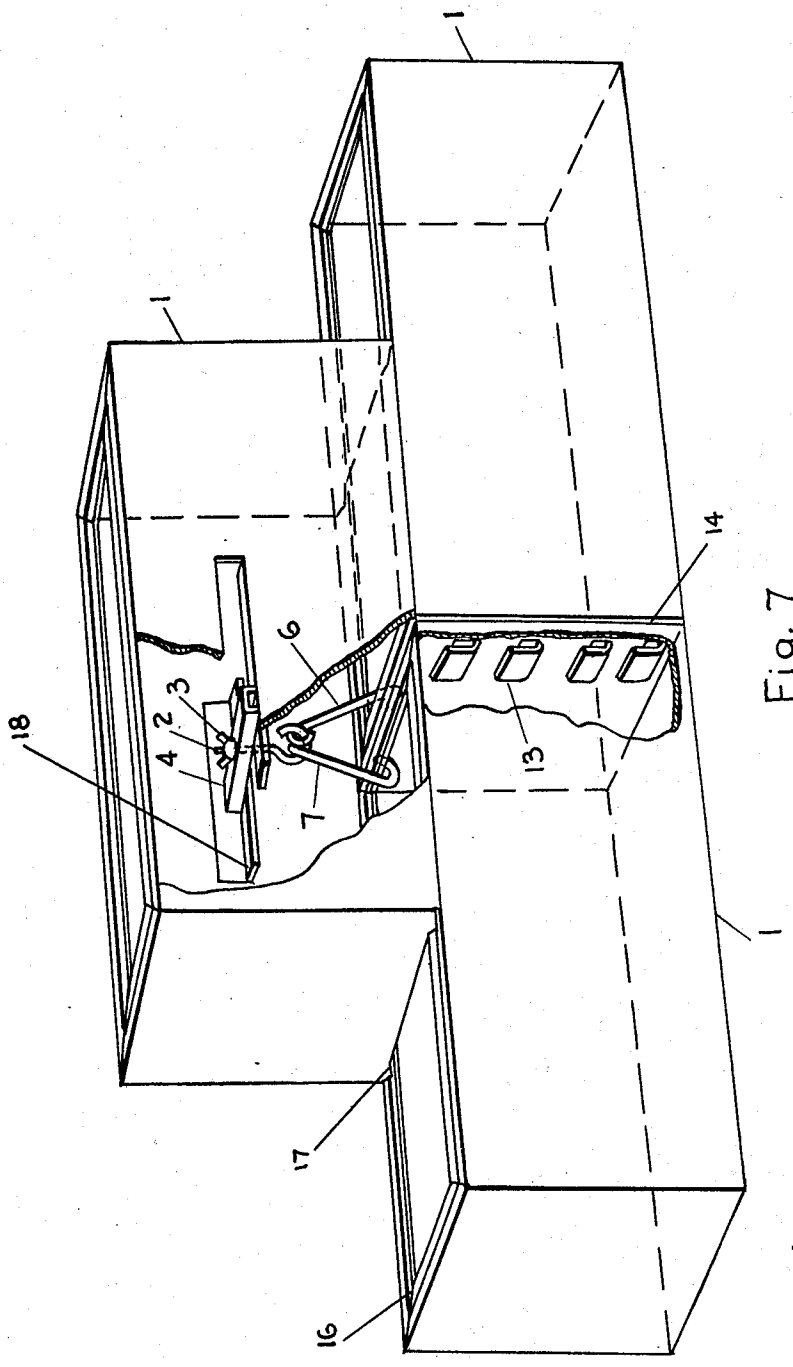


Fig. 7

INVENTOR.
Augustus Frati
Abraham Aaron
ATTORNEY.

BY

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METAL HOLLOW BUILDING BLOCK

Augustus Frati, Elmont, N. Y.

Application November 3, 1936, Serial No. 108,919

2 Claims. (Cl. 72—41)

The purpose of my invention is to provide a means of adopting my metal hollow building block to be used in courses by interlocking and secured means and at the same time being rigidly secured to form a wall.

A further purpose of my invention is to provide a hollow block with vents which have an outward series of projections which act as a keyway for the outer coating of whatever suitable substance may be desired.

My invention, by interlocking means as described and shown in the drawings, forms a solid wall of any dimensions in length and width which may be necessary.

A further purpose of my invention is to provide a means whereby air may circulate within the wall and make same adaptable for heating or cooling purposes as climatic conditions may demand and at the same time form a means of providing ventilation within the walls by reason of the fact that there is no filling within or between the hollow blocks when placed in their course either vertically or perpendicularly.

There is a further advantage in the use of my metal hollow building block in that there is a considerable saving in the cost of labor and material in the building of a wall.

The locking means used in my invention provides four rigid walls which will be adaptable for the retention of a suitable roof and the placement of necessary openings within the walls.

I attain these objects by the mechanism illustrated in the drawings which form a part of this specification, in which

Figure 1 shows a front view showing the locking means.

Figure 2 shows a top view.

Figure 3 shows a bottom view.

Figure 4 shows a cross-section on the line A—A.

Figure 5 shows a left end view.

Figure 6 shows a cross sectional view with locking device in suitable position and hollow blocks in position with suitable covering.

Figure 7 shows a perspective view of three hollow blocks secured in position.

Referring more specifically to the drawings, numeral 1 indicates the outer wall of the block; 2 indicates the screw hook of the locking means; 3 indicates wing-nut of locking means; 4 is the supporting cross-bar; 5 indicates angle-iron which acts as a support for the entire locking device; 6 and 7 are the swinging hooked brackets which lock together the block in the lower course.

Numeral 8 shows the brick covering; 9 shows the cement outer covering; 10 indicates plastered interior wall; 11 shows the foundation of building; 12 is the sleeper; 13 is a slotted opening through which the projection of adjoining block is inserted; 14 shows space between blocks which may allow for contraction or expansion and allows for driving space for nails; 15 shows a series of holes which receive a channel bar for the purpose of acting as a securing means for necessary frame work or trim or other accessory attachments. The groove 16 at top of block (Fig. 7) receives the projection 17 at base of block so that the block when set in its course is self aligning.

It may be noted that half blocks are used to finish a course and the locking means be turned to retain block at front and back instead of from side to side as shown because of swivel means used and indicated in Figure 6.

It should also be noted that it may be found suitable to create an opening 18 as shown in Figure 7, to be used with inwardly projecting flange instead of angle-iron 5 shown in Figure 6.

It may be necessary to make some slight changes without departing from the broad scope of my invention.

I claim:

1. A hollow metal building member, having side walls and end walls, all of which have outwardly struck up bonding members and inturned flanges on side walls each having a deformed portion, a flanged re-enforcing member extending transversely at the center of the block and attached to said side walls and attaching means suspended therefrom for rigidly tying the block to the next lower one in a wall.

2. A wall consisting of members such as described in claim 1, in which the attaching means comprise an adjustable hook member supporting an inverted V shaped member having end portions which engage and hold the deformed portions of the upper flange of the lower unit.

AUGUSTUS FRATI.