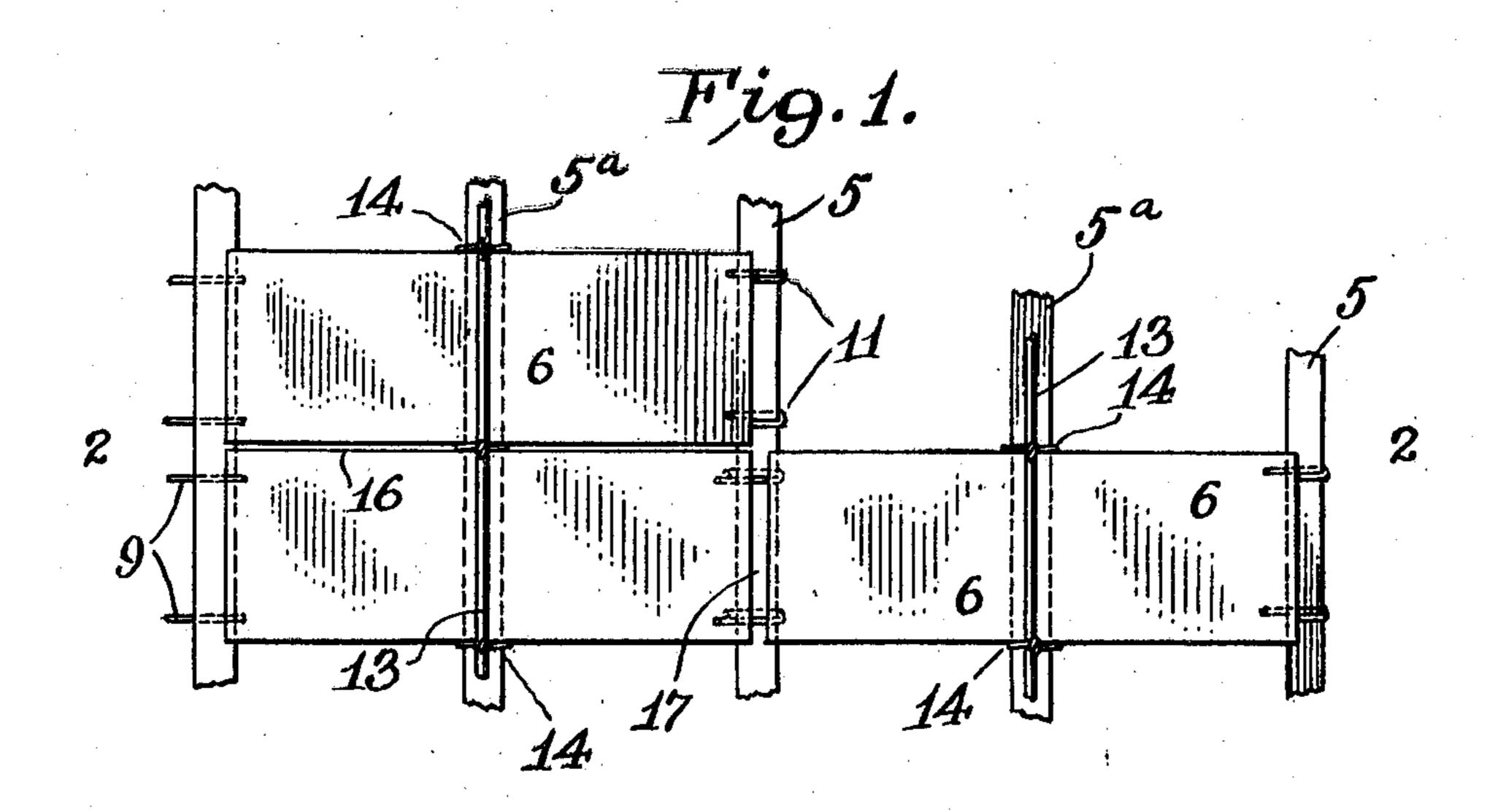
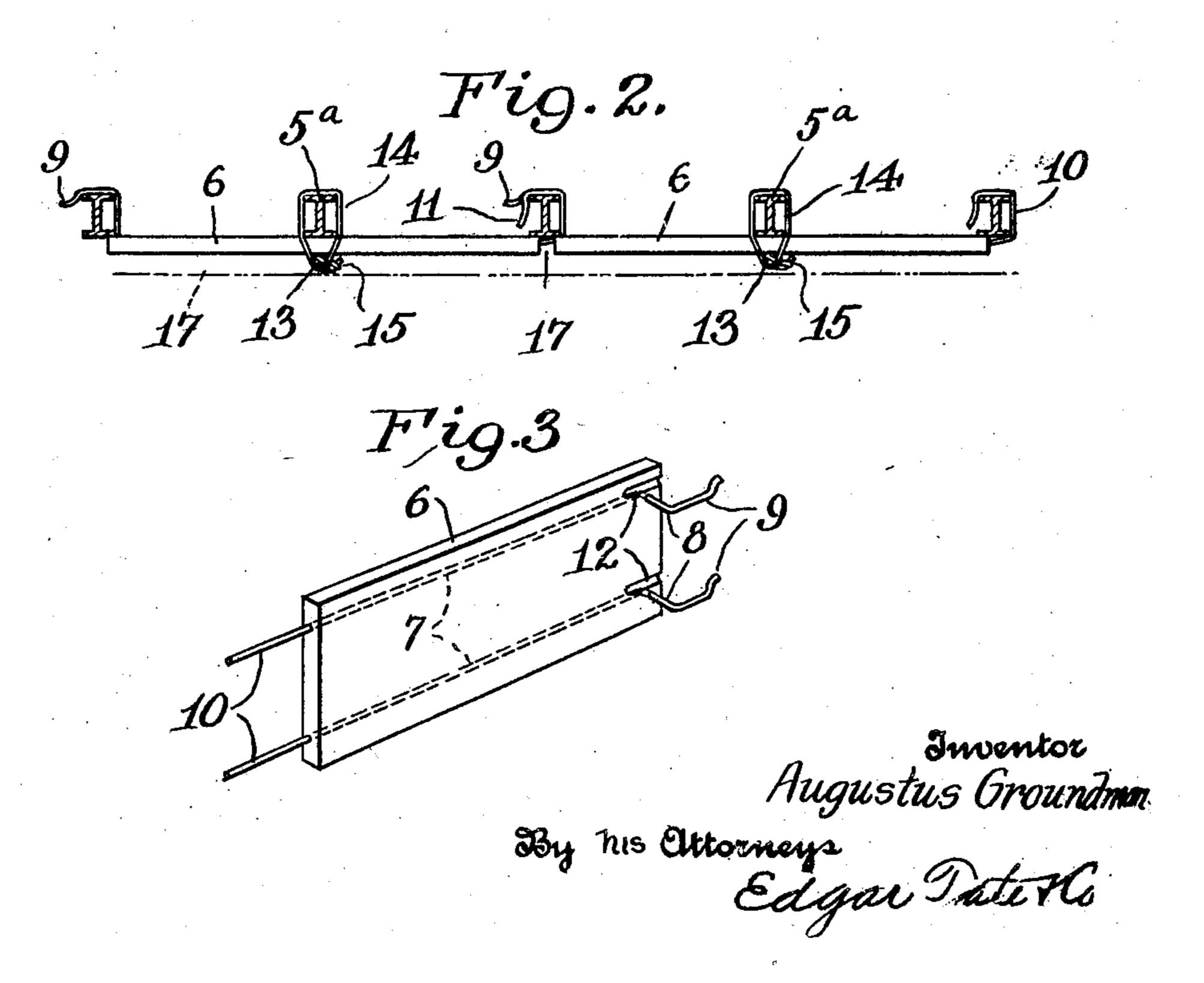
A. GROUNDMAN.
WALL AND CEILING CONSTRUCTION.
FILED Nov. 30, 1921.





UNITED STATES PATENT OFFICE.

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WALL AND CEILING CONSTRUCTION.

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and ceiling constructions for dwellings, In mounting the boards 6 in connection 15 viding an improved composition board or members 9 and is engaged with one of the 20 in connection with suitable supports in form- around another of the stude 5 as shown at 25 with their supports; and with these and shaped members 9 of said last named board in construction and which is constructed as 30 hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are 35 designated by suitable reference characters in each of the views, and in which:

Fig. 1 is a diagrammatic view showing a part of a wall or ceiling constructed accord-

ing to my invention;

Fig. 1; and,

Fig. 3 a perspective view of one of the

In Figs. 1 and 2 of the drawing I have 45 indicated at 5 a number of studs or other shown in Fig. 1 of the drawing, and said 50 tail, said boards are composed of any suit- other. able composition material, such as concrete, It will be understood that in forming the cement or the like and are provided with complete wall or ceiling construction a fac-

To all whom it may concern:

Be it known that I, Augustus Ground- in and extend longitudinally thereof, said MAN, a citizen of the United States, and re- rods at one end of the board passing out- 55 siding at New York, in the county of New wardly through the back of the board as 5 York and State of New York, have in- shown at 8 and fashioned into approxivented certain new and useful Improvements mately hook-shaped form as indicated at 9 in Wall and Ceiling Constructions, of which to engage the stude 5, as hereinafter dethe following is a specification, such as will scribed, and the other ends of the rods 7 60 enable those skilled in the art to which it extend through the ends of the board 6 as 10 appertains to make and use the same. shown at 10 and are adapted to be wrapped This invention relates to partition wall around the stude 5 as hereinafter set out.

apartment houses and similar buildings, and with the studs 5, the end portion of one of 65 the object of the invention consists in pro- the boards 6 is provided with hook-shaped boards provided with reinforcing wires or studs by passing said hook-shaped members rods which are mounted therein and extend in back of one of the stude 5, as shown at through the ends of said board or boards the left of Fig. 2, and the other ends 10 70 by means of which said boards are mounted of the rod 7 of said board are wrapped ing the framework or body portion of a wall 11 in Fig. 2 of the drawing, and in placor ceiling construction; a further object be- ing or securing another board 6 to the last ing to provide improved means for support- named stud or at one side of the first named 75 ing and spacing said boards in connection board as shown in Figs. 1 and 2, the hookother objects in view the invention consists are passed around said last named stud and in a wall or ceiling construction of the class the ends 10 of the rods of the first named and for the purpose specified which is simple board are passed into recesses or grooves 12 80 in the back face of the last named board, or said board is so mounted that the ends 10 of the rods of the first named board will enter said grooves or recesses 12.

The boards 6 are of such length as to ex- 85 tend from one stud to the second stud therefrom to provide a stud which is located centrally of the boards, as for example, the studs 5ª in Figs. 1 and 2 of the drawing, and the boards 6 are reinforced and sup- 90 ported centrally thereof and also spaced on Fig. 2 a partial section on the line 2-2 of the studs by rods or heavy wires 13 which are mounted on the outer faces of the boards 6 centrally of the studs 5^a and tie composition boards which I employ. wires 14 are passed around the stude 5ª 95 above and below the boards 6. as clearly frame members of a wall or ceiling of any wires are twisted together as shown at 15 kind with which my improved composition to securely hold the rods 13 in position and board 6 is adapted to be mounted. In Fig. to provide a space 16 between the side faces 100 3 I have shown one of the boards 6 in de- of the boards 6 when placed one upon an-

ing of plaster or other material 17 indicated of said boards, and means for securing said in dotted lines in Fig. 2 of the drawing is last named rods to said studs or supports. placed over the boards 6, and this material extends into the spaces 16 between the side 5 portions of the boards 6 and also in spaces 17 between the adjacent ends of said boards.

Heretofore it has been customary and essential to tie both end portions of the reinforcing rods or wires of boards of this class 10 to the studs or other supports, but with my construction the boards, or the reinforcing 15 of said reinforcing wires or rods are ports, and reinforcing rods mounted on the 80 wrapped around the studs, and by means of the rods or wires 13 and tie wires 14 the central portions of the boards are reinforced, spaced and supported in connection with the of said boards, and means for securing said 20 studs or other supports for such boards, but while I have shown certain details of construction for carrying my invention into effect, it will be understood that I am not necessarily limited to these details, and 25 changes therein and modifications thereof may be made, within the scope of the appended claims, without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, what I claim as new and desire to secure by

Letters Patent, is:—

class described composed of a plurality of 35 composition boards mounted in connection with studs or other supports, said boards being provided with reinforcing rods which extend longitudinally therethrough and project at the opposite ends of said boards, 40 said rods at one end of the boards being hook-shaped in form to engage predetermined studs or other supports and the other ends of said rods being of sufficient length to permit of their passage around other studs 45 or other supports, and reinforcing rods mounted on the outer central faces of said boards and extending longitudinally of intermediate studs or supports to reinforce the central portion of said boards.

2. A wall or ceiling construction of the class described composed of a plurality of composition boards mounted in connection with studs or other supports, said boards be- formation and the other ends of said wires ing provided with reinforcing rods which 55 extend longitudinally therethrough and project at the opposite ends of said boards, said rods at one end of the boards being hookshaped in form to engage predetermined studs or other supports and the other ends 60 of said rods being of sufficient length to permit of their passage around other studs or supports, reinforcing rods mounted on the outer central faces of said boards and extending lengitudinally of intermediate studs 65 or supports to reinforce the central portion

3. A wall or ceiling construction of the class described composed of a plurality of composition boards mounted in connection 70 with studs or other supports, said boards being provided with reinforcing rods which extend longitudinally therethrough and project at the opposite ends of said boards, said rods at one end of the boards being hook- 75 shaped in form to engage predetermined rods or wires thereof, are hook-shaped in studs or other supports and the other ends of form at one end and are so fashioned as to said rods being of sufficient length to permit engage one of the studs, and the other ends of their passage around other studs or supouter central faces of said boards and extending longitudinally of intermediate studs or supports to reinforce the central portion last named rods to said studs or supports, 85 said means being located between the adjacent side faces of the boards and serving to space said boards one from another.

4. A wall or ceiling construction of the class described composed of a plurality of 90 composition boards mounted in connection with studs or other supports, said boards being provided with reinforcing rods which extend longitudinally therethrough and project at the opposite ends of said boards, said 95 rods at one end of the boards being hookshaped in form to engage predetermined 1. A wall or ceiling construction of the studs or other supports and the other ends of said rods being of sufficient length to permit of their passage around other studs or 100 supports, reinforcing rods mounted on the outer central faces of said boards and extending longitudinally of other studs or supports to reinforce the central portion of said boards, and wires adapted to be passed 105 around said studs and said last named reinforcing rods between the adjacent side faces of said boards for securing said rods to said studs and for spacing said boards one from another.

5. A composition board for forming wall and ceiling constructions of the class described, said board being provided with reinforcing wires which are imbedded therein, said wires at one end of the board extend- 115 ing outwardly through the back thereof and being fashioned to substantially hook-shaped extending through the other end of said board.

6. A composition board for forming wall and ceiling constructions of the class described, said board being provided with reinforcing wires which are imbedded therein, said wires at one end of the board extending 125 outwardly through the back thereof and being fashioned to substantially hook-shaped formation and the other ends of said wires extending through the other end of said board, and the first named end portion of the 130

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board being provided in the back face thereof and in juxtaposition to the wires which extend therethrough with grooves.

7. A composition board of the class described, said board being provided with reinforcing rods which extend longitudinally therethrough and imbedded therein and which extend outwardly through the oppo-

site ends of the board, the rods at one end of the board extending laterally therethrough 10 and being fashioned into hook-shaped form. In testimony that I claim the foregoing as my invention I have signed my name this 28th day of November 1921.

AUGUSTUS GROUNDMAN.