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1,440,674

A. GROUNDMAN.  
COMPOSITE BOARD.  
FILED APR. 18, 1921.

FIG. 1.

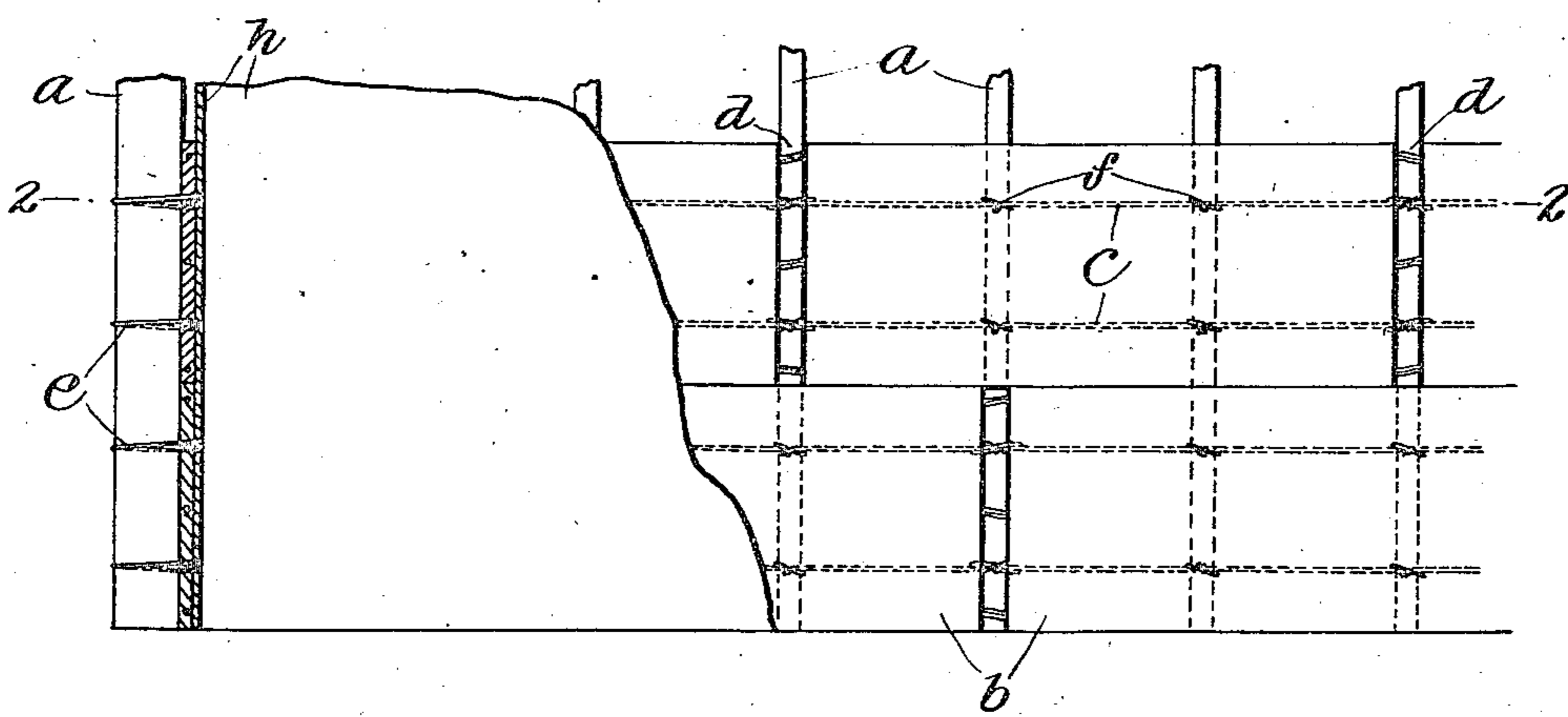


FIG. 2.

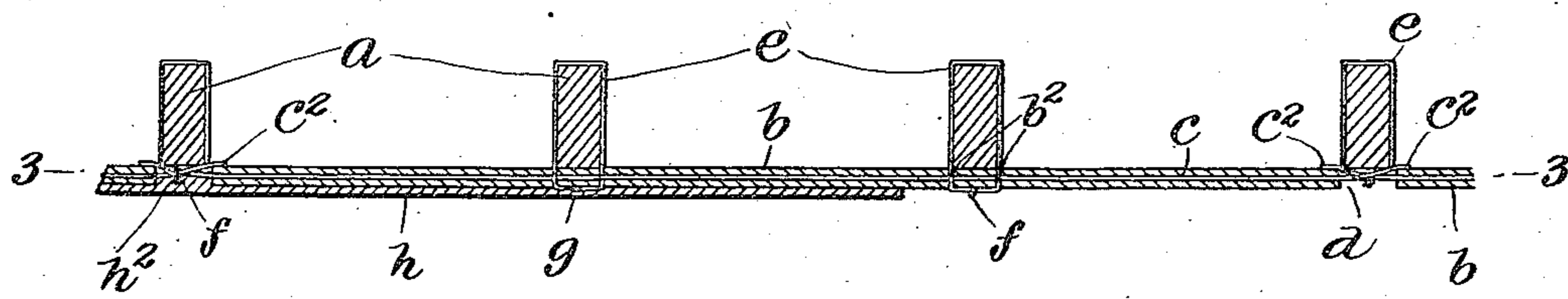


FIG. 3.

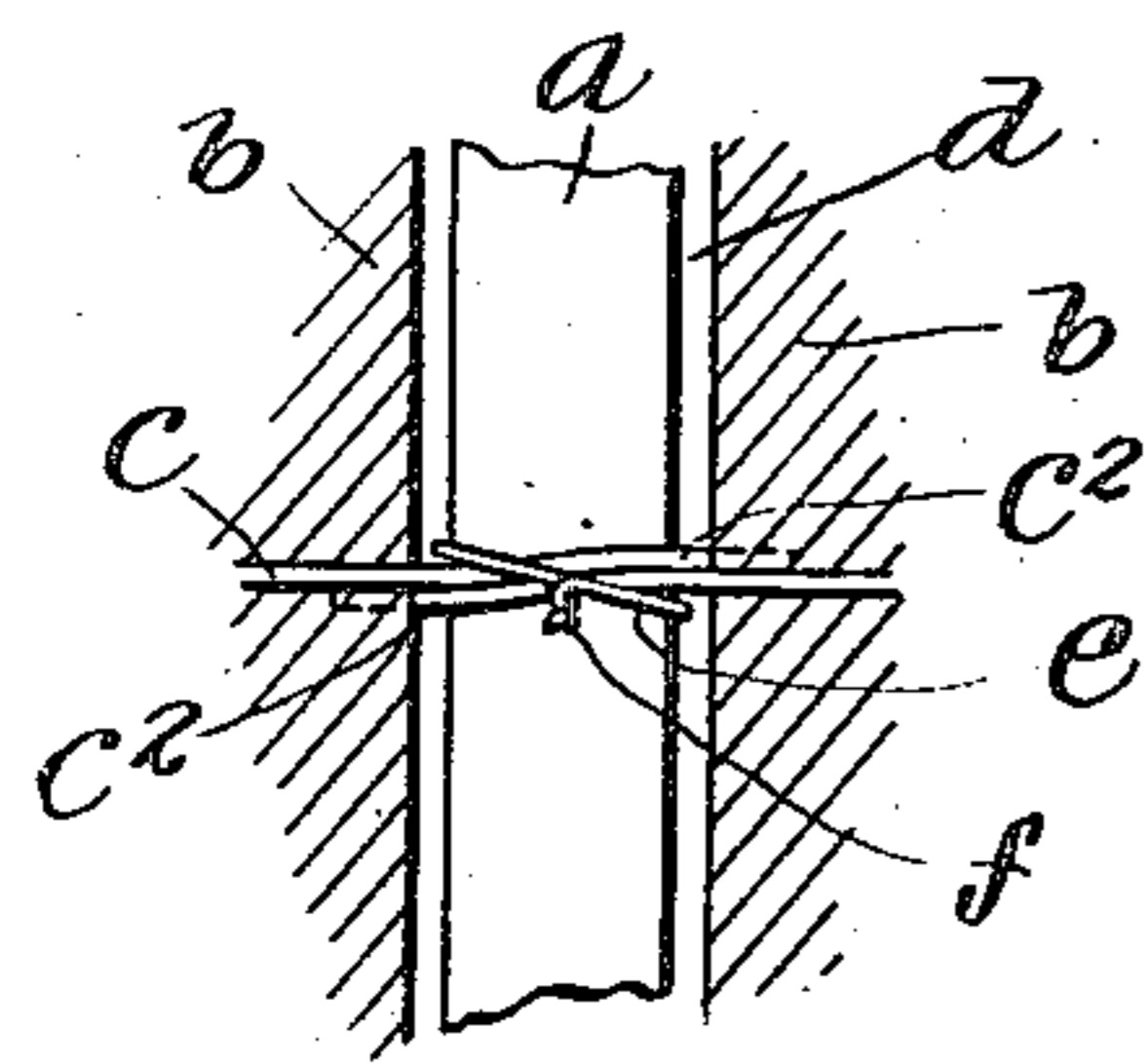
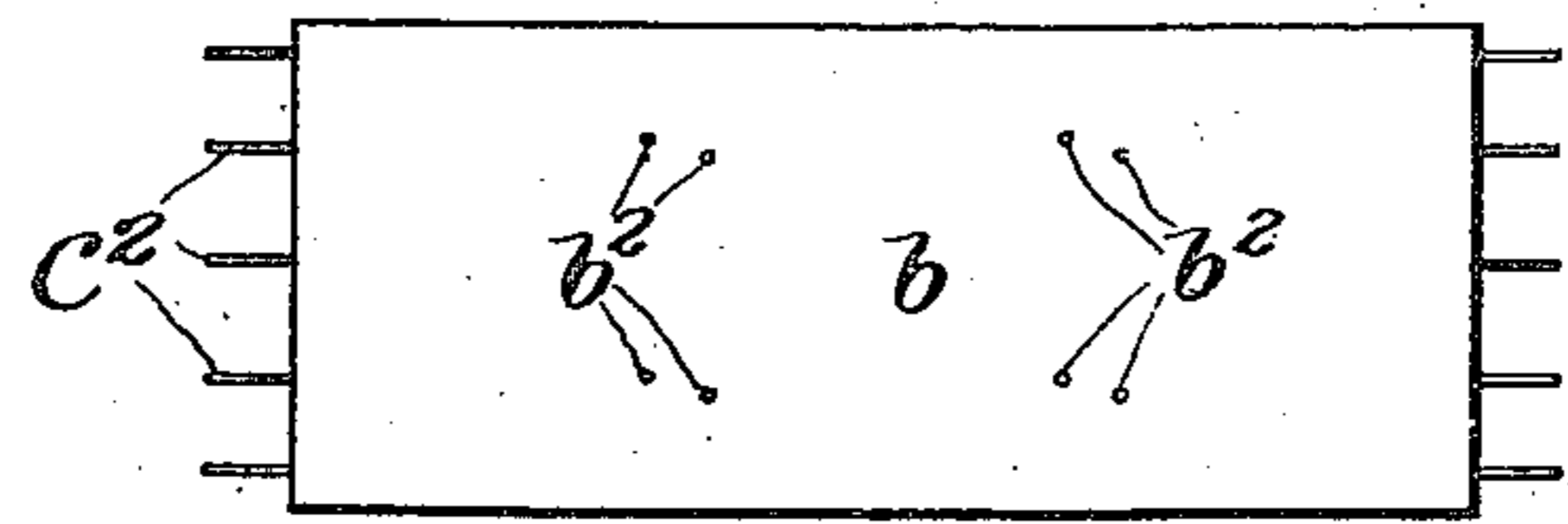


FIG. 4.



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# UNITED STATES PATENT OFFICE.

AUGUSTUS GROUNDMAN, OF NEW YORK, N. Y.

COMPOSITE BOARD.

Application filed April 18, 1921. Serial No. 462,247.

*To all whom it may concern:*

Be it known that I, AUGUSTUS GROUNDMAN, a citizen of the United States, and residing at New York, in the county of Manhattan and State of New York, have invented certain new and useful Improvements in Composite Boards, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to what are known as partition walls and ceilings in dwellings, apartment houses, and similar buildings, and the invention consists in an improvement in such constructions and in the method of forming the same whereby a saving of time and expense is effected and better results produced; and with this and other objects in view the invention consists in the improvements hereinafter described and in the method of making the same.

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 designated by suitable reference characters in each of the views, and in which:

Fig. 1 is a side view of a partition wall showing different steps in the method of making said wall according to my invention;

Fig. 2 a section on the line 2—2 of Fig. 1;

Fig. 3 a partial section on the line 3—3 of Fig. 2; and

Fig. 4 a side view of a composition wall building board which I employ.

In the drawing forming part of this specification I have shown at *a* the upright studs of a partition wall and in the practice of my invention I provide composition boards *b*, composed of any suitable material, preferably fireproof material, and which are reinforced by central longitudinal wires or rods *c*, any desired number of which may be employed and the ends of which project beyond the body portion of the boards as shown at *c*<sup>2</sup> in Fig. 4 and also in Fig. 2.

In forming the partition wall as herein shown and described, I mount the composition boards *b* in connection with the studs *a* in the usual manner, and as shown in Figs. 1 and 2 in the way usually employed, and said boards are preferably alternately arranged, one above another, as indicated in Fig. 1, and

at the points where the ends of said boards abut as shown at *d*, or would abut if they were brought together, the said ends are preferably slightly separated and the projecting ends *c*<sup>2</sup> of the wires or rods *c* are crossed in front of the adjacent stud and project and over-lap the inner sides of the said boards as clearly shown in Fig. 2.

In securing the boards to the studs, I provide wire fastening devices *e* which are formed into loops which are passed around said studs and drawn tightly, and at the ends of said boards said wire fastening devices or the ends thereof are passed around the crossed end portions of the wires or rods *c* and twisted together, tied, or otherwise secured to form knots *f* as shown in Figs. 2 and 3, and this securely binds the end portions of the boards to the adjacent stud as will be readily understood. In connecting the central portions of the boards with the corresponding studs the wire fastening devices are passed around said studs and the end portions thereof are passed through suitable apertures *b*<sup>2</sup> in the boards *b* and said end portions are drawn tightly and secured in front of the boards by being twisted together or knotted as shown at *g* in Fig. 2, and this operation is so performed that the said fastening devices straddle the reinforcing wires or rods *c* in the boards *b* as clearly indicated in Figs. 1, 2, and 4.

After the boards have been secured to the studs as described they are covered with a layer or coating of plaster, as shown at *h* in Fig. 2 and also Fig. 1, and this layer of plaster covers and conceals the wire fastening devices or the ends thereof where exposed in front of the boards *b*, and at the same time the spaces between the ends of the boards, one of which is indicated at the right of Fig. 1 and another at the left thereof, are filled in with plaster as shown at *h*<sup>2</sup> in Fig. 2.

In the drawing forming part of this specification I have shown the composition boards applied to only one side of the studs, and while I have shown and described the preferred means for carrying my improvement into effect, it will be understood that my invention is not limited to the details of construction herein shown and described, and 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.

5 Having fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A composition board for use in connection with wall studding and other supports,  
10 said board being provided with reinforcing wires which are imbedded therein and the ends of said wires projecting beyond the edges of said board, and means for securing the projecting portions of said wires to said  
15 supports.

2. A composition board for forming partition wall constructions, said board being provided with reinforcing wires which extend longitudinally of and are imbedded in said  
20 board and the ends of said wires projecting

beyond the opposite ends of said boards, and other attaching and supporting means passed through said board.

3. A composition board for forming partition wall constructions, said board being  
25 provided with reinforcing wires which extend longitudinally of and are imbedded in said board, and the ends of said wires projecting beyond the opposite ends of said board, and other wires passed through aper-  
30 tures in said board intermediate of the ends thereof.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 15th  
35 day of April 1921.

AUGUSTUS GROUNDMAN.

Witnesses:

E. D. LINZEL,

H. E. THOMPSON.