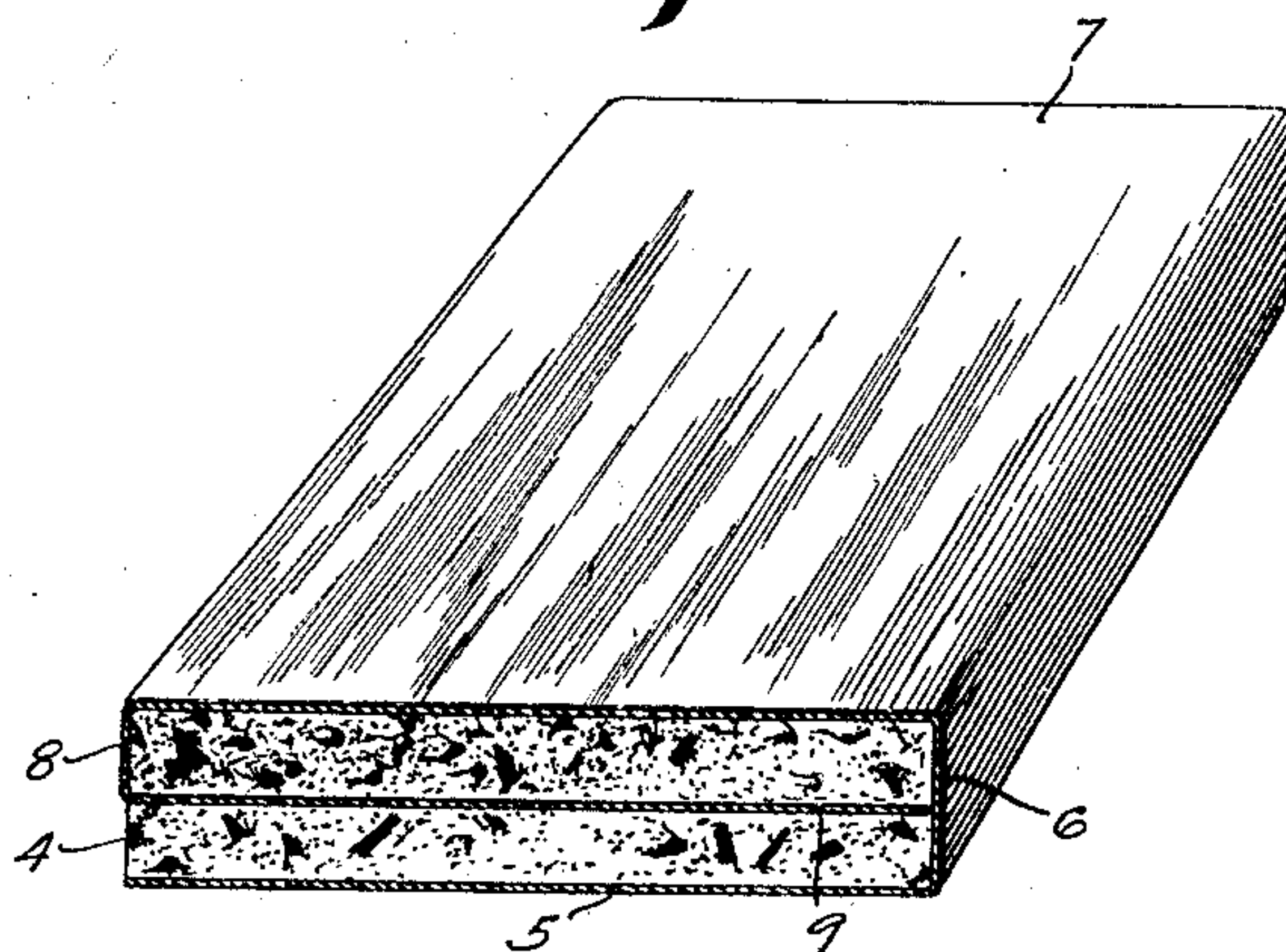


Jan. 2, 1923.

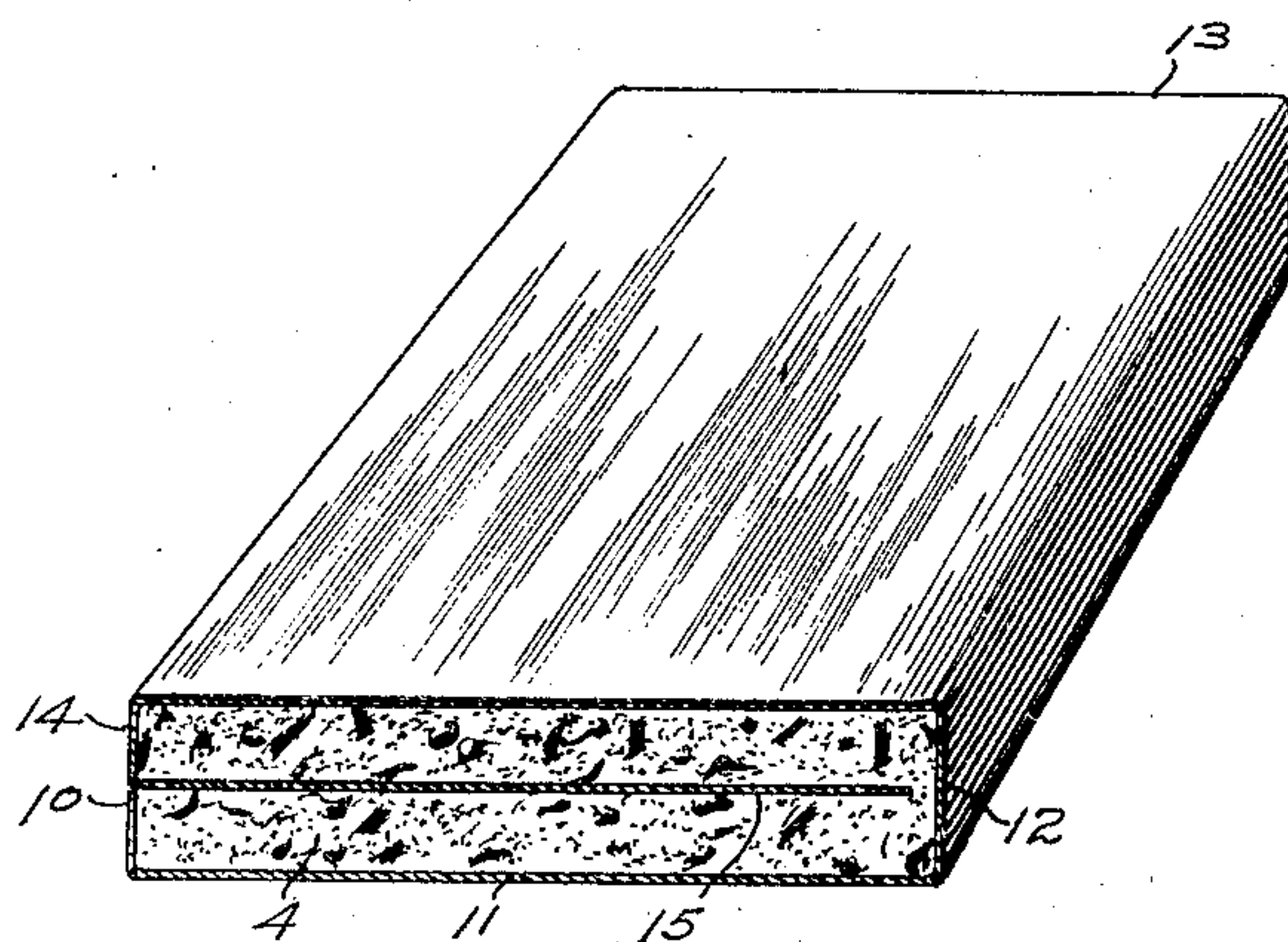
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J. SCHUMACHER.  
REINFORCED PLASTER BOARD.  
FILED MAR. 29. 1922.

*Fig. 1.*



*Fig. 2.*



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# UNITED STATES PATENT OFFICE.

JOHN SCHUMACHER, OF LOS ANGELES, CALIFORNIA.

## REENFORCED PLASTER BOARD.

Application filed March 29, 1922. Serial No. 547,723.

*To all whom it may concern:*

Be it known that I, JOHN SCHUMACHER, a citizen of the United States, and resident of Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Reenforced Plaster Board, of which the following is a specification.

This invention relates to a plaster board consisting of a plaster core covered with paper or the like which adheres thereto, and pertains particularly to a board having a reinforcement.

The plastic composition commonly used for plaster board is hard and brittle possessing little tensile strength. The covering sheets add to the strength of the finished lengths when loaded as a beam. An object of the present invention is to provide a plaster board having a sheet of paper embedded in the plaster to form a reinforcement. Another object of this invention is to provide a covering and a reinforcement which are formed of one continuous sheet of paper. A further object of this invention is to provide a plaster board having a single continuous sheet for covering both faces and edge, and serving as a reinforcement.

These objects together with other objects and corresponding accomplishments are obtained by means of the embodiment of my invention illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of one embodiment of my invention; and Fig. 2 is a perspective view of another embodiment of my invention.

Referring more particularly to Fig. 1, the core of the plaster board is indicated by 4. This plaster is preferably a gypsum plaster, but the composition may be varied depending upon the manner of handling the plaster board during the process of its manufacture and the ultimate purpose which it is to serve. The plaster immediately after having been treated is placed between the covering sheets. In the construction shown in Fig. 1, the lower face or covering sheet is indicated by 5. The sheet is folded as indicated by 6 over one edge, brought over the top face as indicated by 7 to cover the other face, a right angled fold 8 is made and the paper brought back upon itself as indicated by 9.

The portion 9 is arranged to be disposed midway between the faces 5 and 7 and serve as a reinforcement. The paper is preferably

of the kind which is treated to retard permeation by moisture, so that the units of plaster board may be handled while the plaster is in its green state, and so that upon the setting of the plaster, the paper will adhere thereto. This feature is also unimportant, in that, the paper reinforcement adheres to the plaster, and a homogeneous core is formed. By homogeneous in this, I mean a unitary undivided core is formed.

It is obvious that the structure shown in Fig. 1 is a unit of plaster board substantially completely covered with paper and reinforced with a sheet of the covering paper. Besides adding strength to the plaster board by reason of the reinforcement, the edges are protected against breaking and chipping which occurs during handling.

In Fig. 2 another form of the plaster board is shown. The plaster core is indicated by 4. The covering sheet completely envelops the plaster core, beginning half way upon one edge and covering the same as indicated by 10, being folded to cover the lower face as indicated by 11. The sheet is folded at 12 covering the edge similar to the portion shown in Fig. 1. The upper face is covered by the portion of the sheet indicated by 13, which is folded as indicated by 14 and embedded in the plaster core to form a reinforcement portion 15. The construction shown in Fig. 2 is the same as that shown in Fig. 1 except for the portion of the paper completing the covering at one of the edges.

What I claim is:

1. A plaster board comprising a plastic body having an integral reinforcement sheet embedded therein and coextensive with the faces thereof.

2. A plaster board comprising a plaster body having an integral reinforcement sheet embedded therein and adhering thereto, said sheet being coextensive with the faces of said body.

3. A plaster board comprising a plaster body having a fibrous sheet covering a face and adhering thereto, said sheet being folded back upon itself and embedded in said body to form a reinforcement sheet coextensive with said faces.

4. A plaster board comprising a plastic body having a single sheet of fibrous material folded to cover both faces of said body and adhering thereto, said sheet being folded back upon itself and embedded in said body.



5. A plaster board comprising a plastic body having a single sheet of fibrous material folded to cover both faces of said body and adhering thereto, said sheet being  
5 folded back upon itself and embedded in said body to form a reinforcement, said reinforcement being coextensive with the faces of said body.

6. A plaster board comprising a plastic  
10 body having a covering consisting of a single sheet folded to envelop the faces and edges of said body and folded back upon itself so as to be embedded in said body and form

a reinforcement, said sheet adhering to said body.

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7. A plaster board comprising a plastic body having a single sheet of paper folded to completely envelop the faces and edges of said body and folded back upon itself so as to be embedded in said body, said folded  
20 portion having a reinforcement coextensive with the faces of said body.

In witness that I claim the foregoing I have hereunto subscribed my name this 22nd day of March, 1922.

JOHN SCHUMACHER.