July 16, 1929. C. PAYNE 1,720,856

WALL BOARD

Filed May 10, 1926

Fig. 1

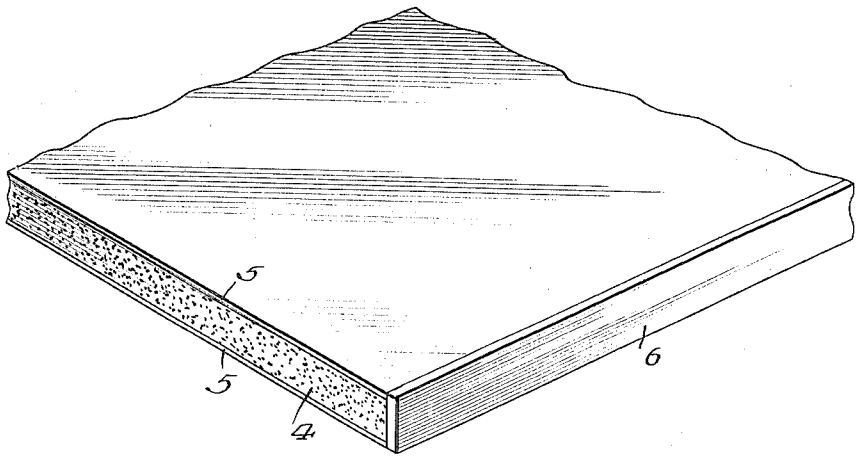


Fig. 2

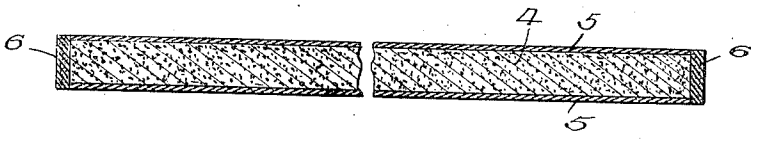
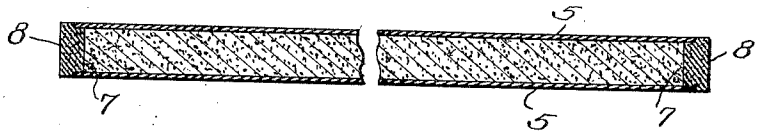


Fig. 3



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UNITED STATES PATENT OFFICE.

CALEB PAYNE, OF CHICAGO, ILLINOIS, ASSIGNOR TO GYPSUM ENGINEERING & MANUFACTURING CO., OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

WALL BOARD.

Application filed May 10, 1926. Serial No. 107,853.

The primary object of this invention is to provide, as an article of manufacture, a wall board which may be made in any length, width and thickness, which has sufficient strength and rigidity to enable it to be used for partition walls and other structural purposes, and which has its side edges protected and strengthened to maintain their shape.

A further object of the invention is to reinforce and strengthen the side edges of a wall board to prevent them from breaking down in shipping and in handling and to enable them to make smooth and flush butt joints in a wall.

In the accompanying drawings illustrating the invention,

Fig. 1 is a perspective view of a portion of wall board embodying the invention.

Fig. 2 is a transverse sectional view from side edge to side edge of the wall board.

Fig. 3 is a view similar to Fig. 2 showing another form of the edge protection.

Referring to the drawings the wall board comprises a body 4 made of gypsum stucco or stucco composition or any other suitable material, and having its sides protected by sheets 5, 5 of paper or other covering material. I protect the side edges of the board by applying thereto a composition which forms a protective strip 6 on each edge adhering to the body and the paper covering 5, 5. This composition consists of fibrous paper pulp and I prefer to incorporate therewith some material to make it adhesive and also some material to make it water resistant. I may mix gum arabic or rosin or other suitable adhesive material with the paper pulp to make it stick to the body and to the covering 5; and I may also mix sulphate of alumina with the paper pulp to make the strips water resistant. I may also add an inert filler to accelerate the set.

This paper pulp composition may be applied to the board in any suitable manner, but I prefer to apply it wet and then iron it with hot irons, sufficient pressure being applied to insure adhesion of the paper pulp strips to the body and covering 5 to form a solid compact adhesive structure. The strips may be applied upon the edges of the body and the edges of the covering 5, the covering sheets being flush with the body, as shown in Fig. 2, or the body may be recessed at 7 to lie within the edges of the covering sheets 5 so that the paper pulp strips will lie upon the edges of the body and within and between the edges of the covering sheets as well as upon the edges of the covering sheets as shown at 8 in Fig. 3.

My invention provides a strong and substantial wall board which is reinforced and strengthened at its side edges to withstand rough usage in shipping and in handling. The side edges of the wall board will be maintained in a regular finished condition so that a flush butt joint can be made when two wall boards are laid side by side to form a wall. Furthermore, the reinforced side edges insure that the wall board will be of a uniform thickness throughout its area when the board is applied to a wall and thus it is possible to produce a wall with wall board having a uniform surface free from hollows or depressions.

I have shown and described the invention in simple forms in the accompanying drawings, but it is to be understood other changes may be made in the material forming the body and in the material forming the side covering and that other changes may be made within the scope of the following claims.

I claim:—

1. Wall board comprising a body, covering material on the sides of the body, and a protective strip of paper pulp composition on the side edge of the board overlying the edges of the side coverings.

2. Wall board comprising a body, covering material on the sides of the body, and a protective strip of paper pulp composition on the side edge of the board, said strip overlying the edges of the side coverings and adhesively secured to the body and to said edges of the side coverings.

3. Wall board comprising a body, covering material on the sides of the body, and a protective strip of paper pulp composition on the side edge of the board, the edges of the side coverings projecting beyond the edge of the body and the strip being arranged upon the body and between and upon the edges of the side coverings.

CALEB PAYNE.