April 2, 1935. F. M. VENZIE 1,996,179

BUILDING CONSTRUCTION

Filed Jan. 21, 1933

Fig. 1.

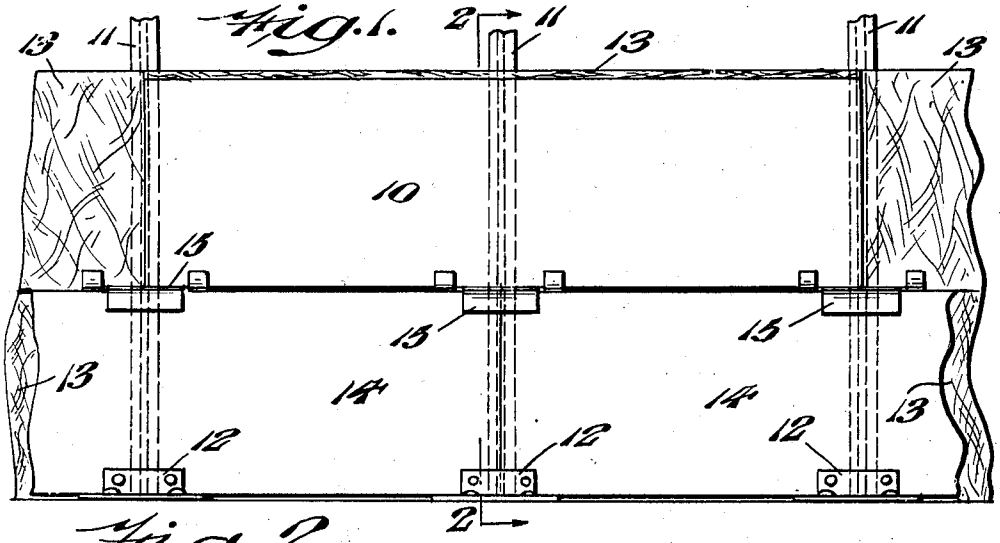


Fig. 2.

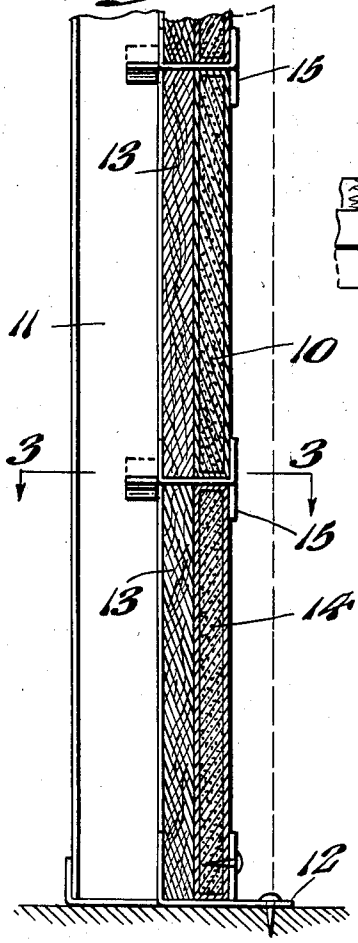


Fig. 3.

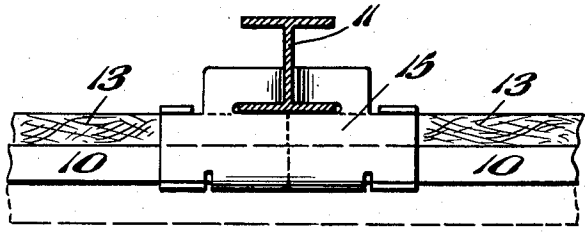
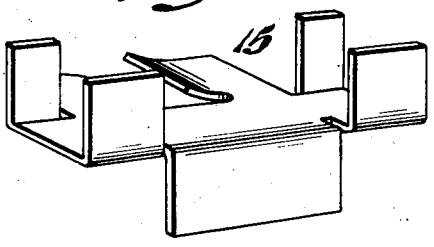


Fig. 4.



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Patented Apr. 2, 1935 1,996,179

UNITED STATES PATENT OFFICE

1,996,179

BUILDING CONSTRUCTION

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Application January 21, 1933, Serial No. 652,778

5 Claims. (Cl. 72—46)

My invention relates to building construction and more particularly to a novel wall structure involving the use of plaster board panels and a felt backing.

The present invention contemplates the use of supporting members such as risers against which may be applied directly sections of building felt to which panels of plaster board may be fastened, the plaster board panels and the clips for holding them in place serving as a means for holding the felt in proper position, the felt panels being of slightly larger dimensions than the plaster board panels.

An object of my invention is to provide superior sound proofing and insulating qualities in a wall constructed of plaster board and building felt.

Another object of the present invention is to provide a novel wall structure which may be readily mounted and dismounted and in which the elements as dismounted will have as great if not greater value than when new.

Yet another object of my invention is to provide a method of making a wall whereby the wall may be readily dismantled and the elements thereof maintained in such shape as to be capable of prompt assembly into a new wall having all the characteristics of a wall made of previously unused material.

Other objects and advantages of my invention will be obvious from a consideration of the following specification and claims, and from the drawing in which:

Fig. 1 is a front elevation of a wall, before the application of plaster thereto, embodying my invention;

Fig. 2 is a vertical sectional view taken on the line 2—2 of Fig. 1;

Fig. 3 is a horizontal sectional view taken on the line 3—3 of Fig. 2; and

Fig. 4 is a detail perspective view of a clip used in mounting my wall.

Referring particularly to Figs. 1 and 2, the wall 10 comprises a supporting structure 11 which may be a metal I-beam functioning as a riser, connected to a bottom plate 12. Directly against the risers 11 is erected a layer of building felt 13 connected to a panel of plaster board 14, the two being held in place against the riser 11 by a clip 15.

As is well known, the felt 13 is delivered to the builder in long rolls of suitable width which may be varied upon order. In accordance with the present invention the width of the felt in the roll should be slightly greater than that of the plaster board panel, for instance a one-half inch increase over the width of the panel has been found suitable in numerous conditions. Pieces then may be cut from the roll in a length exceeding that of the panels by a slight amount and mounted against the plaster board panels. The composite panels are then mounted against the risers and the clips applied, the application of the panels and the clips forcing the felt to the size of the plaster board panels and making a joint between adjacent pieces of felt which will be under a slight expansive force. This method of mounting the felt will create a joint which will be free from cracks through which air and sound may pass. Upon the completion of a wall formed in this manner a finish coating of plaster is applied to cover the surface of the panels and the clips as indicated in Fig. 2 to which the ornamental coating such as paint may be applied.

I have found that when it is desirable to demolish a wall which has been constructed in the above described manner it is possible to salvage the entire structure. This may be readily accomplished by breaking away sufficient plaster along the upper edge of the wall to expose the clips and then bending the panel outwardly away from the risers. A slight bending is sufficient to crack the plaster along the joint at the lower edge of the panel and the plaster will break along a substantially straight line. The plaster board with the plaster thereon and the felt backing may then be lifted down as a unit and the remaining panels below the upper course removed without any breaking of the plaster except along the line of jointure between adjacent courses. Upon demolition of the wall the felt, due to its natural elasticity, will extend slightly beyond the edges of the wall board and will be in as good shape as when originally erected. These units of demolished wall may then be stored until need for erecting another wall arises, at which time the unit as a whole may be erected in place and connected to the risers and in order to present a finished surface it is necessary only to plaster the joints between the adjacent panels and over the clips.

I thus provide a method of construction by which not only is the felt backing saved and readily re-used, but I save the cost of a new plastering job.

Various modifications may be made in the foregoing embodiment of my invention without departing from the spirit and scope thereof as set forth in the following claims:

I claim as my invention:

1. A wall structure comprisng metal risers, a layer of felt supported by said risers on one side, and means comprising plaster board and clips for supporting said felt on the other side, said clips connecting said risers and said plaster board whereby said felt is maintained in position therebetween.

2. A wall structure comprising risers, felt panels supported by said risers on one side, and means comprising plaster board and clips for supporting said felt panels on the other side, said clips connecting said risers and said plaster board whereby said felt panels are maintained in position therebetween.

3. A wall structure comprising metal risers, plaster board panels, means comprising clips for connecting said panels to said risers, and a felt backing comprising a plurality of panels of substantially the same size as said plaster board panels between said plaster board panels and said risers.

4. A wall structure comprising metal risers, a plurality of panels of building felt, a plurality of panels of plaster board, the plaster board panels being of slightly smaller dimensions than said building felt panels, and means, including said plaster board panels, for maintaining said felt panels in position against said risers and compressing said felt panels to the dimensions of said plaster board panels.

5. A wall structure comprising studs fixed in a predetermined position, means forming a base for plaster, means for connecting said base and said studs in a fixed relationship, and resilient sound absorbing panels between said base and said studs, said panels being maintained in position by the fixed relationship of said studs and base.

FREDERICK M. VENZIE.