July 18, 1939. I. F. REED 2,166,371

BUILDING CONSTRUCTION

Filed Dec. 12, 1938

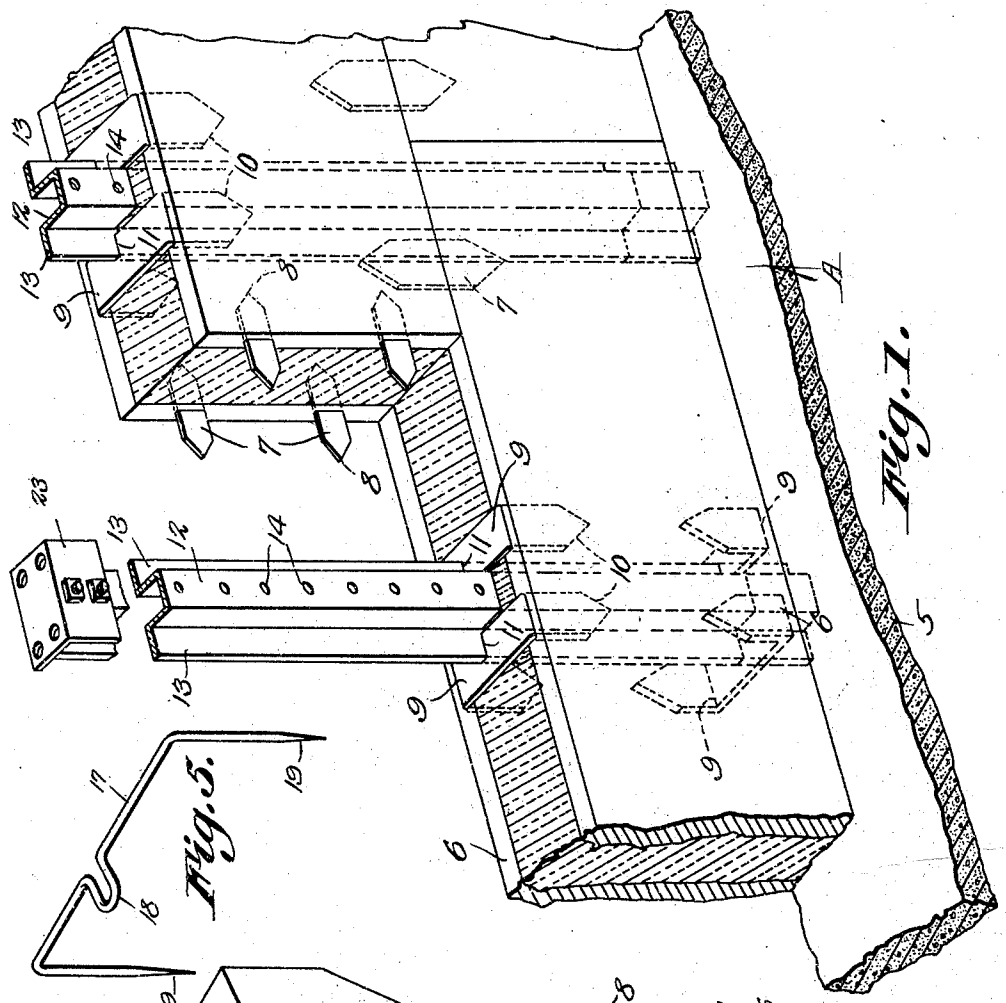


Fig. 1.

Fig. 5.

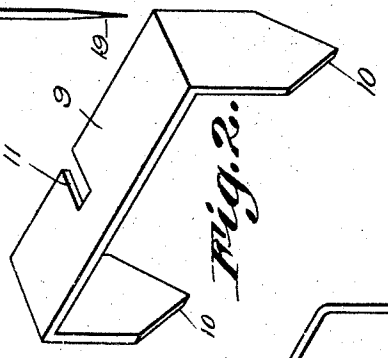


Fig. 2.



Fig. 3.

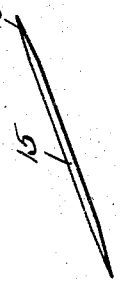


Fig. 4.

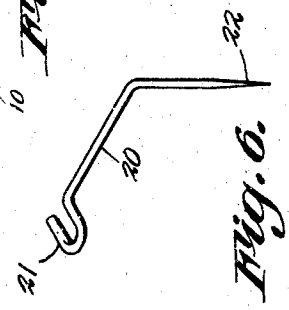


Fig. 6.

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BUILDING CONSTRUCTION

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6 Claims. (Cl. 72--30)

This invention relates to building construction, the primary object of the invention being to provide a combination of elements which may be readily and easily assembled and united in such a way that an exceptionally strong and durable wall will be produced.

An important object of the invention is to provide a wall structure embodying spaced members between which plastic material such as asphalt or the like is poured, providing a solid wall construction.

Another object of the invention is to provide securing means of a novel construction and designed for use in connection with the spaced members of the wall, the securing members being designed to prevent the spaced members from spreading and at the same time provide means for gripping and accurately holding the vertical posts of the wall structure in their upright positions, during the setting of the plastic material around the posts to anchor the posts in position.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein described, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:

Figure 1 is a perspective view disclosing a section of a wall under construction.

Figure 2 is a perspective view of one form of clip or securing member.

Figure 3 is a view illustrating one of the members used at the ends of adjacent side members of the wall structure.

Figure 4 is a perspective view of a modified form of connecting device.

Figure 5 is a perspective view of a supporting member used between the spaced side members of the wall structure.

Figure 6 is a modified form thereof.

Referring to the drawing in detail, the reference character **5** designates the foundation of a building structure, which may be of any desired construction, preferably concrete.

The reference character **6** designates side members of the wall construction, which are arranged end to end, and formed in sections, one above the other. These sections are constructed preferably of fiber board material, so that the connecting members indicated at **7**, may be readily driven into position, as shown by the drawing. The ends of the members **7** are pointed as at **8**, so that they may be readily positioned. These members **7** are also arranged along the side edges of the side members **6**, to securely hold the sections of the side members together.

Securing members indicated by the reference character **9** are provided, and have right angled pointed ends **10** adapted to be driven into the edges of the sections of the side members, as shown by Figure 1 of the drawing. These connecting members **9** are formed with notches **11**, the notches **11** of adjacent connecting members being disposed directly opposite to each other, so that when the vertical posts indicated at **12** are positioned, the laterally extended flanges **13** thereof, and which are formed along the longitudinal edges of the posts, may fit therein. In constructing a wall, securing members **9** are embedded in the concrete wall base A, the pointed ends thereof extending upwardly into the lower edges of the fiber board sections **6**, holding the lower ends of the posts **12** against movement while the asphalt filler is being poured between the sections **6**. Openings **14** are formed in the posts **12**, and provide means whereby the angle plates **23** may be bolted thereto at the upper ends of the posts providing ceiling height load bearing members. These openings **14** also allow the plastic material or asphalt, to enter the hollow portion of the posts, locking the posts in position.

As shown by Figure 4 of the drawing, the connecting member indicated by the reference character **15** is constructed of a length of wire material having pointed ends **16**, which may be readily driven into the fiber board of which the sections of the side members are constructed.

In the modified form of the invention as shown by Figure 5 of the drawing, the connecting member indicated at **17** is shown as having an offset portion **18** to receive the flanges **13** of the vertical posts in much the same manner as the notches **11** of the connecting member shown by Figure 2.

The ends of the connecting member **17** are extended downwardly at right angles and are provided with pointed extremities **19** whereby they may be driven into the edges of the sections of the side members, securing them against spreading under the weight of the plastic material positioned therebetween.

In some cases it may be necessary and preferable to employ a supporting member such as shown by Figure 6 of the drawing, and indicated by the reference character **20**. In the use of a supporting member such as shown at **20**, one end

of the supporting member is curved as at 21 to hook over the flange of the posts with which it is used. The opposite end of the supporting member is extended at right angles and pointed as at 22, so that it may be readily driven in position.

From the foregoing it will be seen that due to the construction shown and described, I have provided a number of elements which when assembled as described, will provide a mold for plastic material in the formation of a wall, the mold being constructed of such material that the mold will remain as a part of the wall structure at all times. It will also be seen that in connection with the side members of the wall structure, connecting members have been provided for connecting the side members of the wall construction holding the side members in proper spaced relation with respect to each other against spreading, under the weight of the plastic material poured into the space between the side members.

It will of course be understood that certain desirable materials may be used in mixing the plastic composition, to render the wall exceptionally rigid, moisture-proof and fire-proof, without departing from the spirit of the invention.

What is claimed is:

1. A wall construction for buildings embodying spaced parallel members, connecting members having offset portions formed therein, said connecting members adapted to be embedded in the edges of the spaced parallel members, securing the parallel members in position, vertical posts positioned between the parallel members, flanges on the posts, said flanges being positioned in the offset portions of the connecting members holding the posts in upright positions, and the space between the parallel members adapted to be filled with plastic material, anchoring the posts in position.

2. A wall construction for buildings, embodying spaced parallel side members, means including spaced connecting members connected with the parallel members for holding the parallel members in upright positions, vertical posts engaged by the spaced connecting members for holding the vertical posts in upright positions, the space between the spaced parallel side members being filled with plastic material in the formation of a wall.

3. A wall construction for buildings, comprising parallel members embodying a plurality of superposed sections, connecting members having pointed ends adapted to be embedded in the adjacent edges of said superposed sections, securing the sections together, connecting members spanning the space between the parallel members and having their ends embedded in the sections, holding the sections in spaced relation, posts disposed between the parallel members, means for connecting the latter connecting members to the posts holding the posts in upright positions, and the space between parallel members adapted to be filled with plastic material providing a wall construction.

4. A wall construction for buildings, comprising spaced wall members embodying a plurality of fiber board sections, connecting members having pointed ends adapted to be embedded in the upper edges of the sections of the wall members, the intermediate portions of the connecting members spanning the space between the wall members, said connecting members having cut-out portions in the adjacent edges thereof, vertical posts disposed adjacent to the connecting members and extending into the cut-out portions thereof, supporting the posts in upright positions, and the space between the spaced wall members adapted to be filled with plastic material providing a solid wall structure.

5. A wall construction for building, comprising spaced outer and inner wall members embodying a plurality of fiber board sections laid edge to edge, connecting members extending into the adjacent edges of the fiber board sections, securing the fiber board sections together, pairs of connecting members secured to the fiber board sections and adapted to hold the wall members spaced apart, hollow vertical posts held between the connecting members of each pair, the space between the outer and inner wall members adapted to be filled with plastic material, and said posts having openings whereby the plastic material may pass into the hollow posts, anchoring the posts in vertical positions.

6. A wall construction for buildings comprising spaced outer and inner wall members, means for holding the wall members in spaced relation with respect to each other, said means including connecting members, posts disposed between the wall members, and supported in upright positions by the connecting members, angle plates bolted to the upper ends of the posts, providing ceiling height load bearing members, and the space between the wall members adapted to be filled with plastic material anchoring the posts in upright positions.

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