July 15, 1924. 1,501.476

C. O. COWAN

WALL SHEATHING

Filed June 22, 1923

Fig. 2.

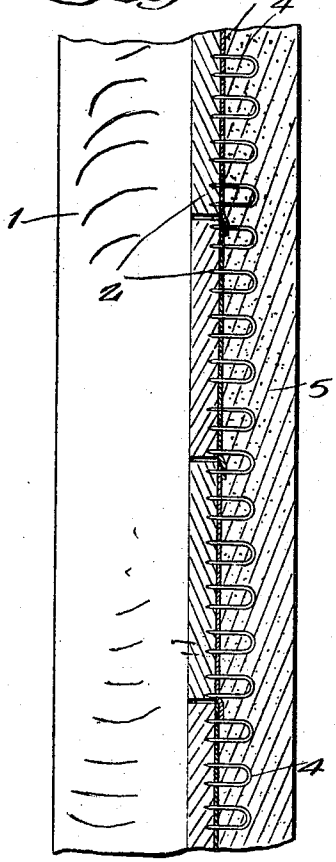


Fig. 1.

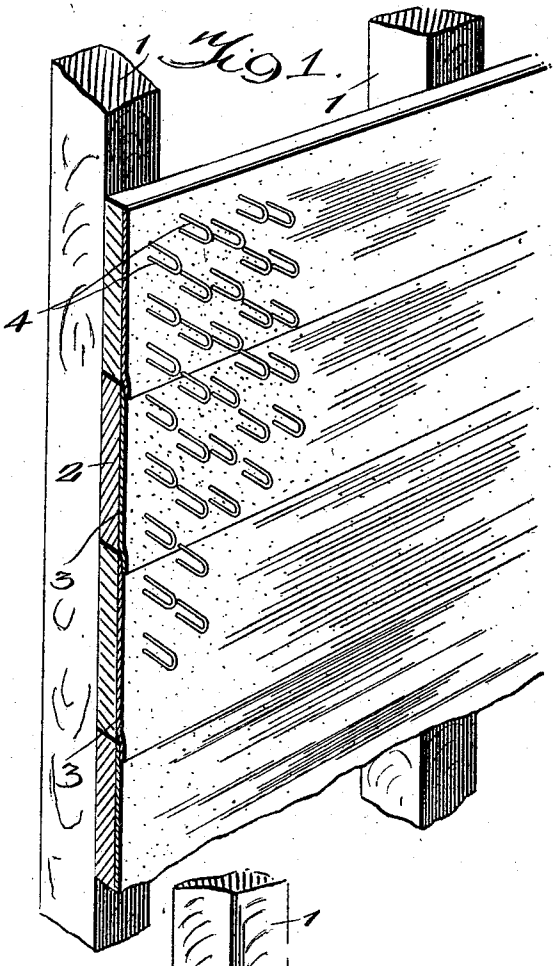
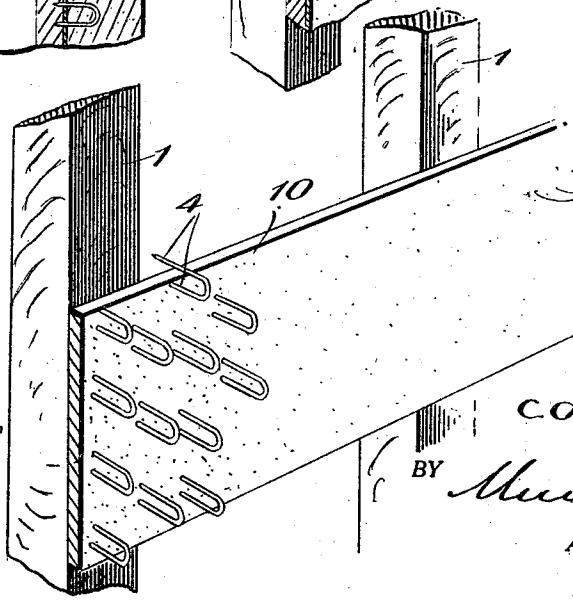


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

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WALL SHEATHING.

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To all whom it may concern:

Be it known that I, CHARLES O. COWAN, a citizen of the United States, and resident of Palo Alto, in the county of Santa Clara and State of California, have invented certain new and useful Improvements in Wall Sheathing, of which the following is a specification.

My invention relates generally to improvements in wall constructions, more particularly to sheathings which are comprised in such wall constructions, and it consists in the combinations, constructions and arrangements herein described and claimed.

An object of the invention is to provide a sheathing in which the means for securing an insulating and protective covering to a fixed support also serves to tie the usual plaster or stuccoing to the insulating and protective covering and to hold the plaster or stuccoing firmly against the outer face of the insulating and protective covering.

A further object of the invention is to provide in a wall construction a sheathing which comprises but relatively few parts, which parts can be applied to a support in a relatively short time and with but relatively little labor and which when in applied position provide efficient means for insulating the wall against passage of heat therethrough and for securely holding plaster or stuccoing in a desired position in respect to the support.

Other objects and advantages will be apparent from the following description, considered in conjunction with the accompanying drawings, in which—

Figure 1 is a fragmentary perspective view showing a sheathing embodying the invention applied to the studding of a wall,

Figure 2 is a vertical section through the structure shown in Figure 1, showing also plaster in place against the sheathing, and

Figure 3 is a view similar to Figure 1, showing a second form of sheathing embodyng the invention.

Referring now to the drawings, in which the same reference characters have been used to designate like parts throughout the several views, 1 indicates the usual studding which are ordinarily provided in spaced apart relation in wall constructions. In Figures 1 and 2, I show the usual sheathing boards 2 which are arranged flatwise against the studding 1, adjacent boards 2 being arranged in edgewise contiguous or adjacent relation in respect to each other and the boards being secured to the studding 1 in any suitable known manner, as for instance by the use of nails, not shown. A series of strips 3 of water-proof building paper is applied to the boards 2, there being a strip 3 for each of the boards 2 and each of the strips 3 being of sufficient width to extend beyond one longitudinal edge of the underlying board 2 when the strip 3 is arranged upon the outer face of one of the boards 2 with one of the longitudinal edges of the strip 3 flush with the corresponding longitudinal edge of the board 2 and the strip 3 is disposed flatwise upon the underlying board 2. With this arrangement, the extending longitudinal edge portion of each of the strips 3 overlaps the adjacent longitudinal edge portion of the strip 3 on the adjacent board 2, or in other words, adjacent strips 3 are in lapped relation along their adjacent edges whereby the joints or adjacent edges of adjacent boards 2 are completely covered by the overlying series of strips 3. The strips 3 are secured to the boards 2 by staples 4 which are sufficiently long to be adapted to be driven part way into the board 2 so that the end portions thereof project beyond the outer faces of the strips 3 and thus provide a means for engaging with plaster, stuccoing or the like to hold such plaster, or stuccoing securely against the outer face of the series of strips 3, as indicated at 5 in Fig. 2.

It thus will be manifest that the staples 4 have a dual function. They serve not only to hold the insulating and protective covering against the support which comprises the studding 1 and the sheathing boards 2 but they also serve as means for binding or tying the plaster, stuccoing or the like to the protective insulating covering and consequently to the support. The staples 4 may be spaced apart any suitable distance, as for instance one inch, and preferably are arranged in staggered relation in respect to one another.

In Figure 3, I show a sheathing embodying the same invention as that hereinbefore described and including wall boards of any suitable known type of construction in lieu of the sheathing boards 2 and the strips 3 of waterproof building paper which are comprised in the form of sheathing described in the foregoing. The wall board is indicated at 10 and is secured to the stud-

dings 1 by certain of the staples 4. The staples 4 are arranged in staggered relation with respect to one another and the bent portions of the staples extend beyond the outer face of the wall board, as hereinbefore described. The plaster, stuccoing or the like which is not shown in Figure 3 is applied directly to the outer face of the wall board and is held in place thereon because of the engagement of the extending portions of the staples therewith.

It thus will be apparent that my invention contemplates the provision of a sheathing which will be effective to prevent the passage of heat through a wall in which the sheathing is comprised and which embodies means for supporting plaster or the like in a desirable position without there being any necessity of making use of the usual laths. Moreover, a sheathing embodying my invention can be constructed in a relatively short time with but little labor and at relatively low cost. The invention may be embodied in either interior or exterior sheathing.

Obviously, my invention is susceptile of embodiment in forms other than those illustrated in the accompanying drawings and I therefore consider as my own all modifications and adaptations of the forms of the device herein described which fairly fall within the scope of the appended claims.

Having thus described the invention, what is claimed is:—

1. In a wall sheathing, the combination with the studding and sheathing boards secured to the studding of a series of strips of waterproof building paper arranged upon the outer face of the boards, and staples driven part way into the boards to hold the strips of paper in position on the boards and to provide portions projecting from the boards beyond the outer faces of the strips of paper, said projecting portions constituting the sole means for engaging with plastering or the like.

2. In a wall sheathing, the combination with the studding and sheathing boards secured to the studding of a series of strips of waterproof building paper arranged upon the outer face of the boards, and staples driven part way into the boards to hold the strips of paper in position on the boards and to provide portions projecting from the boards beyond the outer faces of the strips of paper for engaging with plastering or the like, said staples being arranged in staggered relation in respect to one another and constituting the sole means for securing plastering to the boards.

3. As an article of manufacture, a building unit for the support of plaster comprising a board, a layer of waterproof paper on the outer face of the board, and a plurality of spaced apart staples, each driven for part of its length through said layer of paper into the board and projecting outwardly from the outer face of the layer of paper so that the bight portion of the staple will be disposed in spaced relation to the outer face of the layer of paper, said bight portion being unobstructed for securing plaster to the board.

4. As an article of manufacture, a building unit for the support of plaster comprising a board, a layer of waterproof paper on the outer face of the board, and a plurality of spaced apart staples, each driven for part of its length through said layer of paper into the board and projecting outwardly from the outer face of the layer of paper so that the bight portion of the staple will be disposed in spaced relation to the outer face of the layer of paper, said bight portion being unobstructed for securing plaster to the board, said layer of paper extending beyond one edge of said board for overlapping an adjacent board.

5. In a wall construction, a sheathing member, and a plurality of staples extending outwardly from the sheathing member and having the bight portions thereof unobstructed for securing plaster to the sheathing member.

CHARLES O. COWAN.