Feb. 28, 1928. 1,660,834

E. EROLA

WALLBOARD AND FASTENING STRIP FOR SAME

Original Filed March 10, 1927

Fig. 1

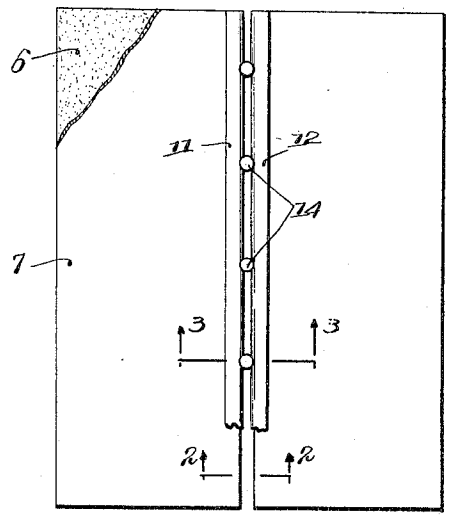


Fig. 2

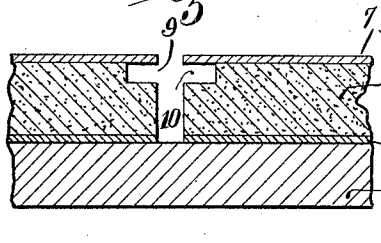


Fig. 3

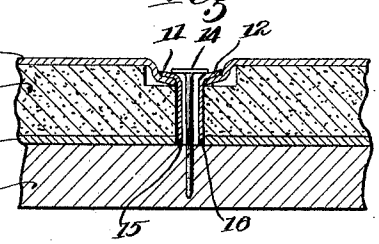


Fig. 4

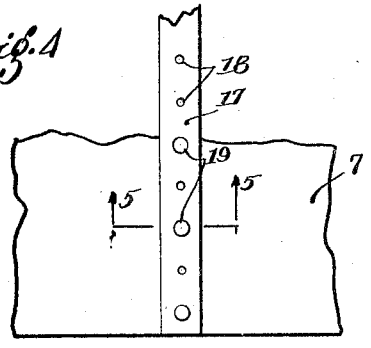
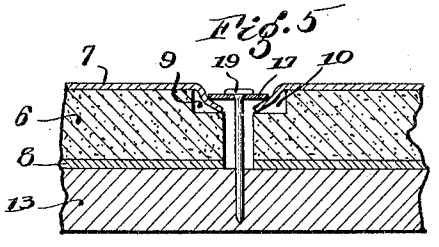


Fig. 5



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Patented Feb. 28, 1928. 1,660,834

UNITED STATES PATENT OFFICE.

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WALL BOARD AND FASTENING STRIP FOR SAME.

Original application filed March 10, 1927, Serial No. 174,230. Divided and this application filed September 6, 1927. Serial No. 217,641.

This invention relates to fastening strips for wallboard panels, and the present application is a division of my copending application, Seral No. 174,230, filed March 10, 1927. The principal object of the invention is to provide, in combination with the particular wallboard structure disclosed and claimed in said application, means for so fastening the wallboard panels to supports that the joints between the sheets will be substantially smooth and flat without protruding ribs or other projectures, and that the wallboard will not be injured by the fastening means.

Preferred embodiments of the invention are illustrated in the accompanying drawings, in which:

Fig. 1 is a plan view of two sheets of gypsum wallboard secured in accordance with my invention;

Fig. 2 is a fragmentary enlarged section on the line 2—2 of Fig. 1;

Fig. 3 is a similar sectional view on the line 3—3 of Fig. 1;

Fig. 4 is a fragmentary plan view of a modified form of fastening strips; and

Fig. 5 is an enlarged section on the line 5—5 of Fig. 4.

The invention consists essentially in providing longitudinal slots at the outer corners of adjacent sheets or panels of the wallboard, and then inserting a fastening strip or strips over said slots and nailing said strips to the wall or other support.

In the illustrations the wallboard may consist of the usual gypsum plaster 6 and the top and bottom cover sheets 7 and 8, respectively, of cardboard or other sheet material. In preparing these sheets for the attachment of my improved fastening strips, the gypsum plaster is cut away at the edge of the sheet immediately beneath the top strip 7 providing adjacent slots 9 and 10 at the meeting edges of adjacent sheets or panels.

In Figs. 1 to 3, the fastening means comprise a pair of similar L-shaped metal strips 11 and 12, which are inserted between the sheets of wall board so that the inner edge of each flanged strip extends almost to the wall 13, while the shorter outer flanges meet the cardboard sheets over the slots or recesses 9 and 10, respectively. These strips are fastened to the wall by nails 14 driven between the adjacent strips. It will be noted that when the nails are driven sufficiently to secure these strips the said inner edges abut the wall, as at 15 and 16, so that excessive hammering will not damage the wallboard. The outer flanged ends and nail heads will, however, be disposed below the plane of the outer surface of sheets 7, thereby avoiding projections. The space between the strips 11 and 12 and the recesses above the flanges may be filled with hard plaster to provide a smooth finished surface.

In the optional construction shown in Figs. 4 and 5, a single, flat reinforcing strip 17 is provided to span the space between the adjacent wallboard, the sides of the strip lying upon the cover sheets 7 over the slots 9 and 10. Holes 18 may be provided for the nails 19 at suitable intervals.

By utilizing either of the above constructions a simple yet effective fastening is achieved without injury to the material constituting the wallboard and without unsightly projections. The nails may readily be driven and removed, if desired, and since they pass through a substantially open space between the panels the workman may see that the nails are driven into a firm support. This feature is particularly advantageous when the wallboard panels are to be nailed upon laths or spaced sheeting.

Although the foregoing description defines two particular forms of this invention, it is obvious that the details of construction of the devices described may be varied if desirable without departing from the spirit of the invention as defined in the following claims.

I claim:

1. In combination with a wallboard panel having a longitudinal recess along its outer edge, means for securing the panel to a support, comprising an elongate metal fastening strip having one of its margins disposed over said recess and nails for holding the fastening strip, said strip and the heads of said nails being disposed below the normal outer surface of the panels and the nail being spaced from the end of the wallboard when the panel is so secured.

2. In combination with a wallboard panel consisting of gypsum plaster and having a layer of sheet material on its outer side and a longitudinal recess in the edge of the gypsum plaster beneath said layer, means for securing the panel to a support, comprising an

elongate metal fastening strip having one of its margins engaging the edge of said layer over said recess and nails for securing the fastening strip to the support, said strip and the heads of the nails being disposed below the normal outer surface of the sheet material.

3. In combination with a pair of adjacent wall-board panels each consisting of gypsum plaster and having a cover sheet of cardboard on its outer side and a longitudinal recess in the edge of the gypsum plaster immediately beneath the cover sheet, means for securing the adjacent edges of the panels to support, comprising a pair of similar metal fastening strips, a portion of each strip engaging the upper surface of the cover sheets of the respective panels over said recesses, and nails extending between the fastening strips into the support so that the nail heads engage the said strip portions and depress the same below the normal outer surface of the panel cover sheets.

4. In combination with a pair of adjacent wall-board panels each comprising a layer of gypsum plaster and a cover sheet of cardboard on its outer side and each having a longitudinal recess in the edge of the gypsum plaster immediately beneath its cover sheet, a pair of similar flanged fastening strips inserted between the adjacent edges of the panels, the flanged portion of each strip engaging the top of the cover sheet of its respective panel over said recess, and nails passing between the strips and into the support, each nail head engaging both of said flanges and depressing the flanges and the edges of the cover sheet into their respective grooves when the nails are secured.

5. In combination with a pair of adjacent wall-board panels each comprising a layer of gypsum plaster and a cover sheet of cardboard on its outer side and each having a longitudinal recess in the edge of the gypsum plaster immediately beneath its cover sheet, a pair of similar flanged fastening strips inserted between the adjacent edges of the panels, the flanged portion of each strip engaging the top of the cover sheet of its respective panel over said recess, and nails passing between the strips and into the support, each nail head engaging both of said flanges and depressing the flanges and the edges of the cover sheet into their respective grooves when the nails are secured, a portion of each of said strips extending downwardly along the edge of the panels and substantially parallel thereto, the bottom edge of said portions meeting the support when the nails are driven into the support sufficiently to secure the panels thereon, so that a further depression of the flange portions is prevented.

6. A pair of metal fastening strips for securing the edges of adjacent wallboard panels to a support, each of said strips having its outer portion flanged sidewise over the edge of its respective panel, the lower edge of the inner portions of the strips being adapted to meet the support and limit the distance between the flanged portions and the support.

In testimony whereof I affix my signature.

EINAR EROLA.