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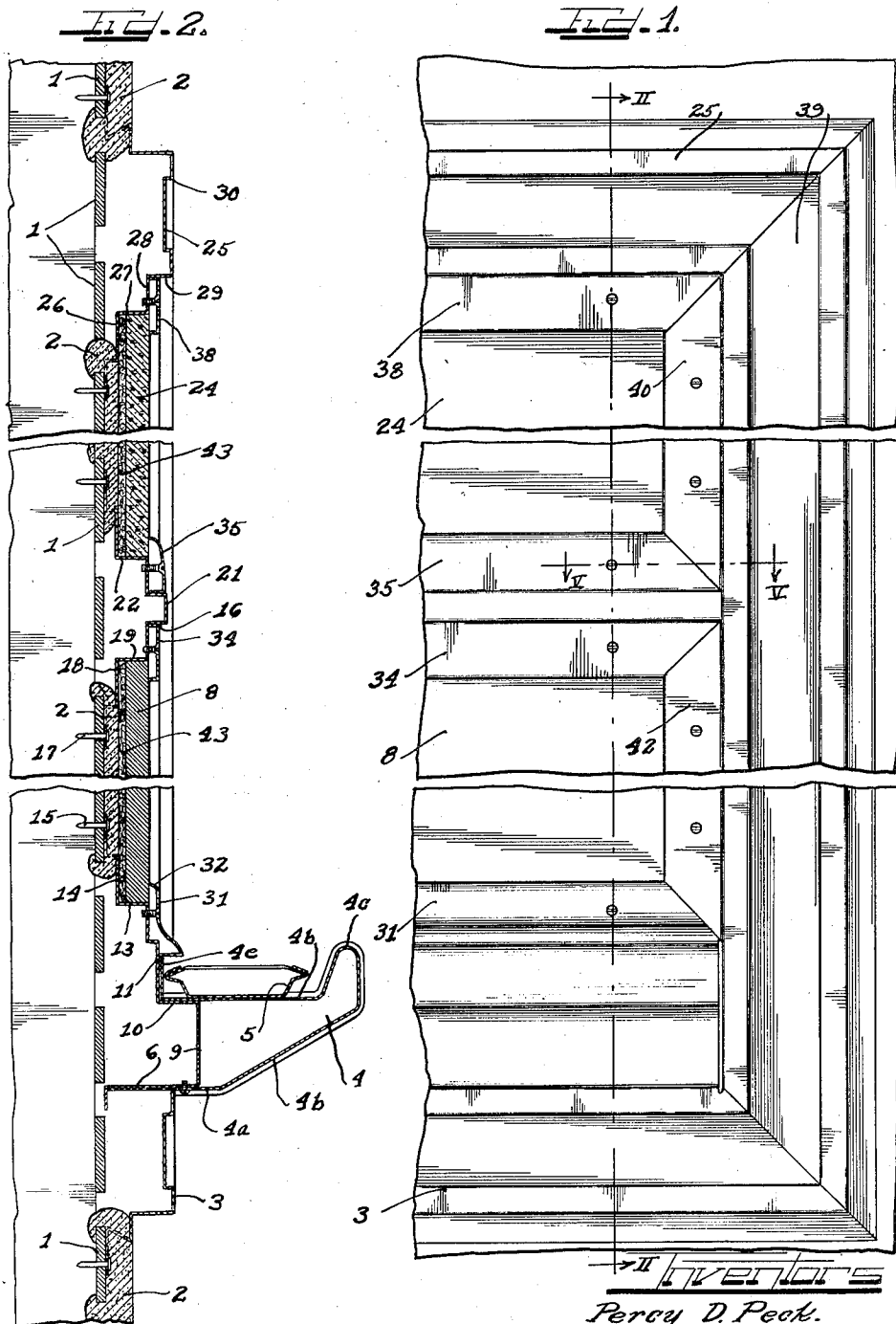
P. D. PECK ET AL

2,094,551

WALL BLACKBOARD CONSTRUCTION

Filed May 13, 1935

2 Sheets-Sheet 1



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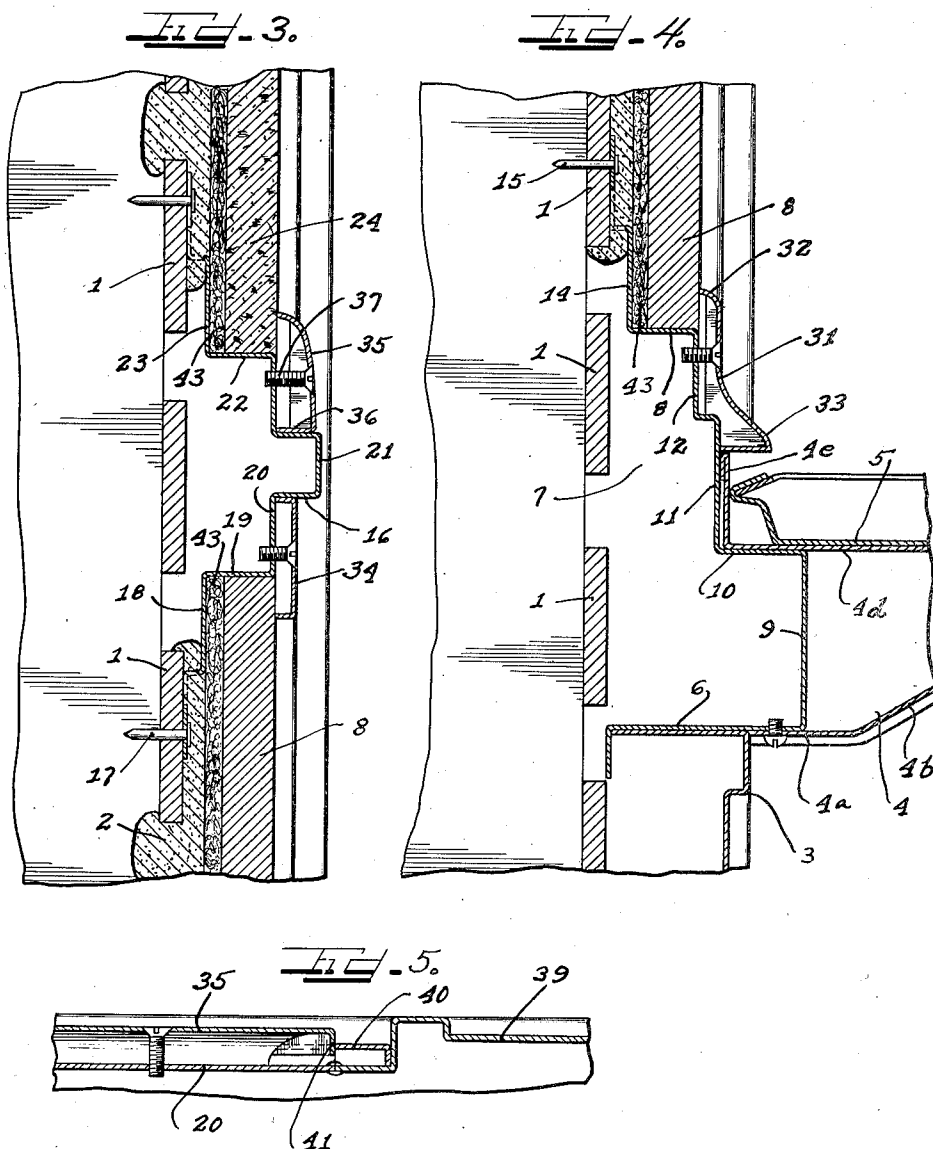
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UNITED STATES PATENT OFFICE

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WALL BLACKBOARD CONSTRUCTION

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11 Claims. (Cl. 35—63)

This invention relates to a wall blackboard construction and concerns itself primarily with a sheet metal construction designed to hold a bulletin board and a blackboard.

It is an object of this invention to provide such a sheet metal construction that has suitable provisions for receiving a bulletin board and a blackboard, and to which the same can be easily and quickly secured.

It is a further object of this invention to provide means for readily shedding dust or dirt from such boards in order to prevent the accumulation thereof in the immediate region thereof.

With these and other objects in view as will later appear, this invention comprises the novel structure and combination of parts hereinafter described and more particularly pointed out and defined in the appended claims.

In the accompanying drawings which illustrate a preferred form of this invention and in which similar reference numerals refer to similar features in the different views:

Figure 1 is a fragmentary elevational view of a sheet metal wall construction involving this invention.

Figure 2 is a sectional view taken upon the lines II—II of Figure 1 looking in the direction of the arrows.

Figure 3 is an enlarged fragmentary sectional view taken in the same plane as Figure 2.

Figure 4 is an enlarged fragmentary sectional view of the lower portion of Figure 2.

Figure 5 is a sectional view taken upon the line V—V of Figure 1 looking in the direction of the arrows.

In the drawings, there is shown a wall comprising the laths 1 and plaster 2 to which a sheet metal structure involving this invention is secured. To this wall, there is secured a sheet metal plate 3 having an inwardly offset flanged portion embedded in the plaster 2 and secured to a lath 1. The upper end of the plate 3 is bent at a right angle to provide a horizontal supporting flange for the flange 6 of a sheet metal wall member 7. An eraser trough 4 comprising a lower flange 4a is secured to the flange 6 and supported thereby. This trough 4 has an upwardly inclined portion 4b terminating in a rib 4c which merges into a depressed portion to form the trough which has a vertical flange at its inner end. Within this trough may be placed an eraser tray 5. The flange 6 terminates in an upright portion 9 which in turn is bent inwardly at right angles as indicated at 10 to provide a support

for the flange 4d of the trough member. The support 10 terminates in a vertically directed portion 11 which is inwardly stepped as indicated at 12 at the upper portion thereof. The stepped portion terminates in a horizontal flange 13 which in turn merges into a vertical flange 14. The flanges 13 and 14 form the lower portion of a recess for receiving and supporting the blackboard 8. The flange 14 is inwardly offset and attached to a wall lath by nails 15 or the like.

The upper portion of the blackboard recess is formed by a sheet metal plate 16. The lower portion of the plate 16 is attached to a lath 1 by nails 17. Beyond the attached portion of the plate 16 the same is outwardly offset to clear the plaster as indicated at 18. The portion 18 is in alignment with the portion 14, and is bent outwardly at a right angle as indicated at 19 to provide the top wall for the blackboard recess.

The right angled portion terminates in a vertical portion 20 having an outwardly offset rectangular portion 21. The upper portion of the member 20 terminates in a right angular portion comprising a horizontal flange 22 and a vertical flange 23 that form the lower portion of a recess for a bulletin board 24. The flange 23 is inwardly offset and attached to a lath 1.

The upper portion of the recess for the bulletin board 24 is formed by a sheet metal member 25 which is attached at its lower end to a lath 1 of the wall. Beyond the attaching portion, the member 25 is outwardly offset to clear the plaster 2 as indicated at 26. The portion 26 merges into a horizontal portion 27 that forms the top wall of the recess.

The horizontal flange 27 merges into a vertical portion 28 which terminates in an outwardly directed flange 29. The portion 29 connects with a vertical indented portion 30 that is inwardly offset at its upper end and attached to a lath 1.

The blackboard 8 is clamped in its recess by a lower metal strip 31 that is attached to the sheet metal member 3. It will be noted that the strip 31 has a curved portion 32 contacting with the blackboard to guide the dust therefrom. The strip 31 curves outwardly intermediate its ends as indicated at 33 in order to discharge the dirt and dust into the tray 5. The upper portion of the blackboard is clamped in place by a channel strip 34 which abuts the offset 21.

The lower portion of the bulletin board 24 is clamped in place by a curved angular member 35 having a flange 36 at its lower end resting upon the offset 21 and secured to the plate 16 by a screw 37. The curved contour of the member

35 also prevents the accumulation of dirt and dust.

The upper portion of the bulletin board is clamped in place by a sheet metal channel member 38 which abuts the flange 29 and is bolted to the portion 28.

The side edges of the plates 3 and 25 are cut on a bias as shown in Figure 1. Suitable side plates are provided for cooperating with the side edges of the plates 3, 16, and 25 to provide a symmetrical metal frame around said boards. One of these side plates which are similar in all respects is shown in Figure 1. It will be noted that it consists of a metal plate 39 having upper and lower biased edges fitting against the biased edges of the plates 3 and 25. The ends of the members 35 and 38 are also biased and clamping members 40 with biased or mitered ends are secured between the members 35 and 38. In referring to Figure 5, it will be noted that the member 40 is of a lower elevation than the member 35 which is flanged or swaged down as indicated at 41 to provide a closed joint therebetween. End clamping members 42 are also secured between the members 31 and 34. With reference to Figure 5, it will be noted that the plate 39 forms the support for the clamping members 40 and 42.

It will be appreciated that the sheet metal frame construction for the blackboard and bulletin board can be readily stamped or pressed into the form shown and can be assembled with very little effort and time, and due to the construction of certain features it will easily shed the dirt and dust and present a neat and pleasing appearance. It will be appreciated that in assembling the structure upon a wall, the plates 3, 16, and 25 are first attached to laths 1. The plaster may then be applied before the boards 2 and 24 are fastened in place. The spacing of the plates 3, 16 and 25, allowing the plaster rearwardly of the boards to be applied. It will be noted that the offsets of the attaching flanges are perforated as indicated at 44 to allow the plaster to pass there-through for entering between the laths 1. In setting the boards 8 and 24 a resilient hair backing 43 may be used if desired. According to this construction, the plaster in the rear of the boards provides a firm backing for the boards and supports the sheet metal construction from flexing inwardly when force or pressure is directed against the boards.

We are aware that many changes may be made and numerous details of construction may be varied through a wide range without departing from the principles of this invention, and we therefore do not purpose limiting the patent granted hereon otherwise than necessitated by the prior art and the scope of the claims.

We claim as our invention:

1. In a sheet metal construction for blackboards forming part of a wall, a plurality of sheet metal members having their upper and lower ends inwardly offset and secured in spaced relation to members of said wall, whereby plaster may be applied between and over said spaced ends, the adjacent portions of said members beyond said secured ends being depressed to provide a recess, and means for clamping a blackboard in said recess.

2. In a sheet metal construction adapted for retaining articles and forming part of a wall, the combination with wall members, of an upper sheet metal member having its upper and lower ends inwardly offset and provided with attaching flanges secured to certain of said wall mem-

bers, a lower sheet metal member having its upper end inwardly offset and provided with an attaching flange secured to one of said wall members, and an intermediate sheet metal member having its upper and lower ends inwardly offset and provided with attaching flanges secured to certain of said wall members in spaced relation to the upper and lower sheet metal members, the adjacent parts of said sheet metal members having depressed portions and the depressed portions of the intermediate member cooperating with the depressed portions of the upper and lower sheet metal members adapted for retaining articles.

3. In a sheet metal construction adapted for retaining a board and forming part of a wall, a lower sheet metal supporting member having a lower inwardly offset flange secured to a member of the wall, and having an upper horizontal supporting flange, a sheet metal panel member having a lower flange resting upon said supporting flange and having an upper inwardly stepped portion provided with an attaching flange secured to a wall member, an eraser trough having a flange secured to the lower flange of said panel member, and an upper panel member having an inwardly offset portion provided with an attaching flange secured to a wall member in spaced relation to the first panel member, said panel members having depressions that cooperate for receiving and sustaining a board.

4. In a sheet metal construction for blackboards forming part of a wall, a lower metal member attached to a member of said wall and having an upper inwardly directed horizontal flange, a sheet metal panel member having a flange resting upon said horizontal flange and having a shoulder above said flange, an eraser trough having spaced parts, one of said parts being secured to the lower flange of said panel member and the other part being in supporting engagement with said shoulder, and means for securing the upper end of said panel member to a wall member.

5. In a sheet metal construction for blackboards adapted for forming part of a wall, a sheet metal panel member having an outwardly directed angular offset portion and an eraser trough having spaced parts embracing said offset portion and secured thereto.

6. In a sheet metal construction for a blackboard adapted for forming part of a wall, a pair of sheet metal panel members secured to members of said wall in opposed spaced relation, each panel member having a recess, said recesses cooperating to form a cavity for receiving a board, one of said panel members having an outwardly offset angular portion and an eraser trough having parts embracing said offset portion.

7. In a sheet metal construction forming part of a wall, an upper panel member having inwardly offset flanges attached to a wall member, a lower sheet metal panel member having an upper inwardly offset flange secured to a member of said wall, an intermediate panel member having its upper and lower ends inwardly offset and secured to members of said wall in spaced relation to the upper and lower panel members, said intermediate and upper and lower members having confronting depressions forming recesses adapted for retaining articles.

8. In a sheet metal construction for a blackboard forming part of a wall, a lower sheet metal member, means for securing the lower end of said member to a member of said wall, said sheet metal

member having an inwardly offset portion forming a board receiving recess, said inwardly offset portion terminating in an inwardly offset flange secured to a member of said wall, an upper sheet metal member having a lower inwardly offset portion forming a recess that cooperates with the other recess for receiving a board and having an inwardly offset flange below said offset portion secured to a wall member in spaced relation to the attaching flange of the other member, means for anchoring the upper end of said upper member to the wall, and lateral sheet metal members upon the side edges of said members.

9. In sheet metal construction for blackboards forming part of a wall, a pair of sheet metal members having inwardly offset attaching flanges attached to members of said walls in spaced relation, the offsets of said flanges being perforated to allow plaster to pass therethrough, said members having confronting depressions forming a recess for a blackboard, a blackboard in said recess and means for clamping the same therein.

10. In a sheet metal construction for a blackboard forming part of a wall, a lower sheet metal member having an upper offset portion forming a recess, said offset portion being offset to provide an attaching flange, an upper sheet metal member having a lower offset portion forming a recess in opposed relation to the other recess, the offset portion of said upper member being offset to form an attaching flange, means for securing said flanges in spaced relation to wall members, the offsets of said attaching flanges having perforations for the passage of plaster, means for securing the remote ends of said members to the wall, and frame members secured to the edges of said members.

11. In a sheet metal construction for blackboards forming part of a wall, a pair of sheet metal members arranged in vertical relation and having their adjacent ends inwardly offset to provide attaching flanges secured in opposed relation to members of said wall whereby plaster may be applied over the ends and between said members, the offsets of said flanges being perforated for the passage of plaster, said members having confronting depressed portions for receiving a board, means for securing the remote ends of said members and metal frame members applied to the lateral edges of said sheet metal members.

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