

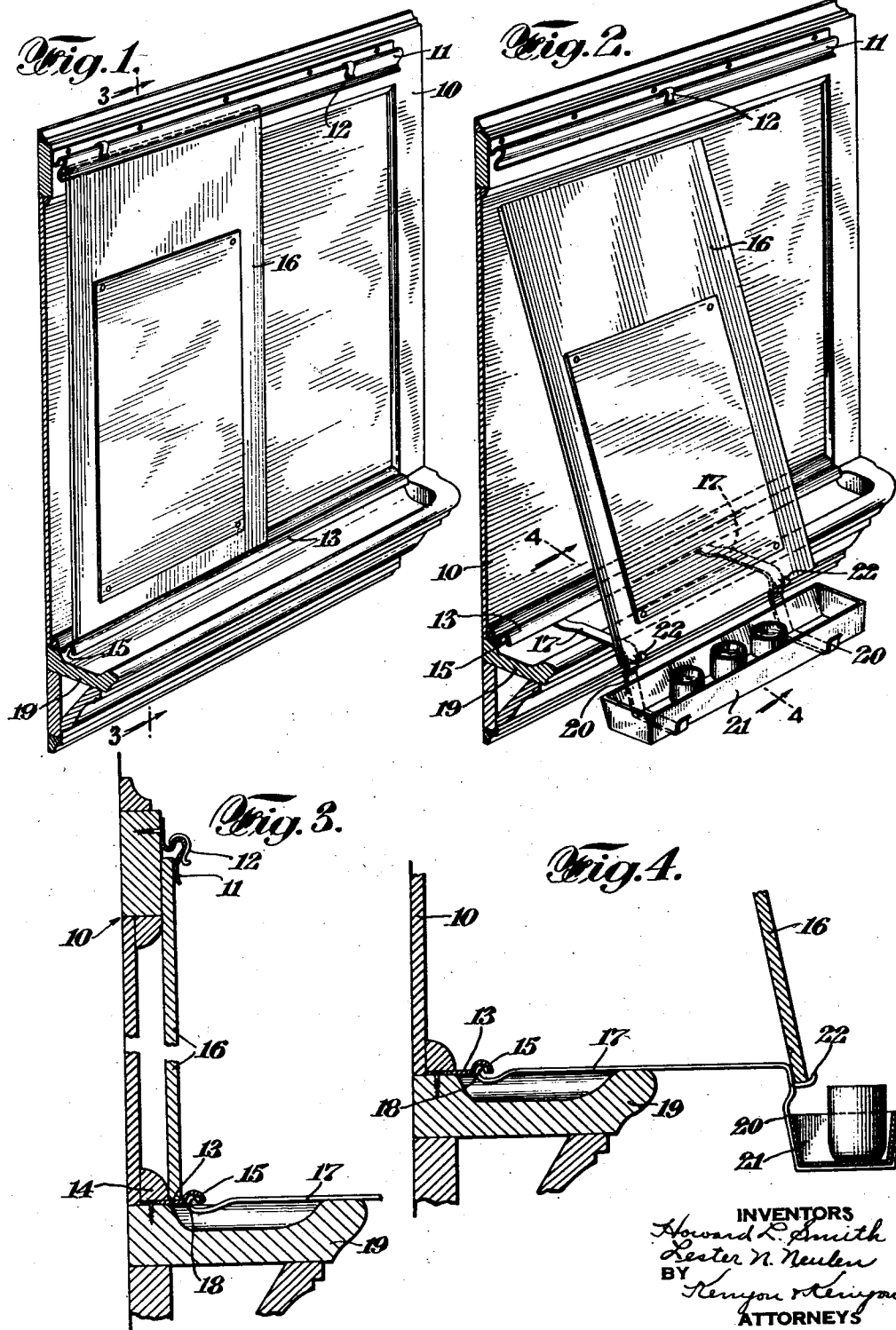
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ATTACHMENT FOR BLACKBOARDS

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ATTACHMENT FOR BLACKBOARDS

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12 Claims. (Cl. 25—15)

This invention relates to attachments for blackboards.

Usually in school rooms practically all the wall space is taken up by blackboards and it is the object of this invention to provide means for detachably supporting over the face of a blackboard leaves which may be used to mount pictures or the like or may be arranged in inclined position for use as easels.

According to this invention a head strip is arranged along the upper edge of the blackboard and a stool strip is arranged along the lower edge of the blackboard, these strips forming channels to receive the top and bottom edges of a leaf to support the same over the blackboard, the upper channel being of sufficient depth to allow the leaf to be lifted to a sufficient height to clear the stool strip in putting up or taking down the leaf. The leaf may be supported in an inclined position by means of detachable brackets, these brackets being provided at their outer ends with grooves which receive the bottom edge of the leaf. These brackets may also support a tray in which may be arranged painting materials and the like and which will catch any dust or drippings falling from the board.

Other objects, novel features and advantages of this invention will be apparent from the following specification and accompanying drawings, wherein:

Fig. 1 is a perspective view of a blackboard equipped with the invention and supporting a board in vertical position;

Fig. 2 is a similar view with the brackets in place and supporting the board in inclined position;

Fig. 3 is a section on the line 3—3 of Fig. 1;

Fig. 4 is a fragmentary vertical section on the line 4—4 of Fig. 2;

Fig. 5 is a section through a modified form of the invention; and

Figs. 6 and 7 are perspective views of the head and stool strips of said modification.

Referring now more especially to Figs. 1 to 4 inclusive, the blackboard and frame 10 are mounted on the wall in any suitable manner. A head strip 11 is fastened to the top portion of the blackboard frame by screws or the like to form a channel therewith and is so curved as to be capable of supporting picture hooks 12. A stool strip 13 has a portion extending between the molding 14 and the bottom portion of the blackboard frame and is offset at its front edge to form an inverted groove 15 which provides a channel at the bottom edge of the blackboard.

A leaf 16 of wood, composition material or the like may be mounted over the blackboard by inserting the upper edge thereof into the channel formed by the head strip 11 and lifting the same until its bottom edge clears the offset 15 and then

dropping the board to seat its bottom edge in the channel at the bottom of the blackboard. The leaf 16 may be removed by reversing the procedure just described. This board may be used to support maps, pictures or the like which may be affixed to the board by use of thumb tacks or other similar means.

The leaf 16 may be supported in an inclined position for use as an easel. For this purpose there are provided brackets 17, the inner ends of which are rolled as at 18 to form ribs to be received in the groove 15. These brackets 17 are fulcrumed on the outer edge of the chalk trough 19 with their ends 18 seated in the groove 15. The outer ends of the brackets are bent as at 20 to receive and support a tray 21. Tabs 22 are struck out from the brackets 17 to provide grooves in which the bottom edge of the board 16 may be received, as shown in Figs. 2 and 4. When the bottom edge of the leaf is arranged in these grooves, it assumes the inclined position shown in Fig. 2 and may then be used as an easel to support drawing paper. Drawing materials and the like may be arranged in the tray 21 which will also serve to collect dust or drippings which may drop from the leaf 16.

Referring now to Figs. 5 to 7 inclusive, a head strip 25 is fastened to the top portion of the blackboard frame by screws or the like to provide a channel therewith and is provided with a longitudinal recess 26 in which may be received the rolled end of a cap or chart hook 27, the hook being insertable into the recess through a cut-out 28. A stool strip 29 is fastened to the lower portion of the blackboard frame and its outer edge is offset at 30 to provide a channel at the bottom edge of the blackboard, the extreme edge of the offset being turned over to form a hook flange 30a. A laminated leaf 31 has its upper and lower edges received in the channels formed by the head strip and stool strip and may be removed simply by lifting the leaf and swinging its lower edge clear of the offset 30, the lifting of the leaf being facilitated through the provision of finger slots 32.

The leaf 31 may be supported in inclined position for use as an easel by means of the structure subsequently to be described. Brackets 33 are detachably supported from the blackboard frame. Each bracket consists of a metal strap bent to form two legs, the end of one leg being curved to form a hook 34 which is adapted to engage the hook flange 30a and the end of the other leg being bent to form a contact portion around which is arranged a bumper 35 to engage the wall and support the bracket. The offset portion 30 of the stool strip is provided with a cut-out 36 through which the bracket hook 34 may be engaged with the hook flange 30a. At the free end of the bracket, the metal strap is

bent to form a groove or hook 37 in which may be received the bottom edge of the leaf 31 to support the same in inclined position for use as an easel. Each bracket is provided with an aperture to receive the hooked end 38 of a bracket 39, these brackets serving as the support for a tray 40 in which may be arranged drawing materials and the like and which will also serve to catch dust or drippings from the leaf 31. A brace rod 41 extends between the legs of the bracket and increases the strength and stability of the bracket.

It is of course understood that various modifications may be made in the structure above described, without in any way departing from the spirit of the invention as defined in the appended claims.

The leaf 31 is made up of two laminae, one lamina being a composition board such as cork to which displays of various types may be positioned by thumbtacks, and the other lamina being a smooth hard board on which educational material may be painted or which may have a surface suitable for use as a blackboard.

We claim:

1. In combination with a blackboard, a strip extending along the lower edge of the blackboard, and brackets detachably connected to said strip, said brackets being provided with means to receive the bottom edge of a leaf to support the same in inclined position with its top edge engaging said blackboard.

2. In combination with a blackboard, a support therefor, a strip carried by said support and extending along the lower edge of the blackboard, and brackets for supporting a leaf in inclined position with its upper edge engaging the blackboard, said brackets comprising arms having their ends detachably connected to said strip and other arms having their ends adapted to engage said support.

3. In combination with a blackboard, a support therefor, a strip attached to said support and extending along the lower edge of said blackboard, a hooked flange provided on said strip, brackets for supporting a leaf in inclined position with its top edge resting against said blackboard, each bracket comprising a metal strap bent to form two arms, a hook at the end of one arm of each bracket detachably engaged with said flange, the end of the remaining bracket arm being adapted to engage said support.

4. In combination with a blackboard, a strip extending along the lower edge of the blackboard, brackets detachably connected to said strip and hooks on said brackets for receiving the bottom edge of a leaf to support the same in inclined position with its top edge engaging said blackboard.

5. In combination with a blackboard, a support therefor, a strip attached to said support adjacent the lower edge of said blackboard, brackets detachably engaging said strip, each bracket comprising a member having one end formed to engage said strip, another portion thereof formed to engage the said support and a third portion thereof formed to receive the bottom edge of a leaf for supporting the same in inclined position with its upper edge engaging the blackboard.

6. In combination with a blackboard having a chalk trough associated therewith, a strip adjacent the lower edge of the blackboard, brackets fulcrumed on the outer edge of the chalk trough

with their inner ends underlying said strip, and means on said brackets for receiving the bottom edge of a leaf to support the same in inclined position with its top edge engaging said blackboard.

7. In combination with a blackboard having a chalk trough associated therewith, a strip extending along the bottom edge of the blackboard, brackets fulcrumed on the outer edge of the chalk trough with their inner ends underlying said strip, said strip having an offset portion forming an inverted groove and the inner ends of said brackets being provided with means to be received in said grooves, and tabs extending from said brackets for receiving the bottom edge of a leaf to support it in inclined position with its top edge engaging said blackboard.

8. In combination with a blackboard, a support therefor, a strip attached to said support and extending along the lower edge of said blackboard, a hooked flange provided on said strip, brackets attached to said strip, each bracket comprising a metal strap bent to form two arms, a hook at the end of one arm of each bracket detachably engaging said flange and the end of the remaining bracket arm being adapted to engage said support, and tabs struck out from said brackets to receive the bottom edge of a leaf for supporting the same in inclined position with its upper edge engaging the blackboard.

9. In combination with a vertical support and a horizontal strip attached thereto, brackets for supporting a leaf in inclined position with its upper edge engaging said support, each of said brackets comprising an arm having its end detachably connected to said strip and extending horizontally therefrom and another downwardly oblique arm having its end engaging said support.

10. In combination with a vertical support and a horizontal strip attached thereto, brackets for supporting a leaf in inclined position with its top edge resting against said support, each bracket comprising a metal strip bent to form a horizontal arm and a downwardly oblique arm, a hook at the end of the horizontal arm and the end of the downwardly oblique arm engaging said support, and a hooked flange on said strip with which said bracket hook detachably engages.

11. A device for supporting a leaf in inclined position with respect to a vertical support comprising a strip attached to said support in horizontal position, and brackets having means to receive the bottom edge of said leaf to support the same in inclined position with its top edge engaging said support, each bracket comprising a horizontal arm having its end detachably engaged with said strip and a downwardly oblique arm having its end engaging said support.

12. A device for supporting a leaf in inclined position with respect to a vertical support comprising a strip attached to said support in horizontal position, and brackets having means to receive the bottom edge of said leaf to support the same in inclined position with its top edge engaging said support, each bracket comprising a metal strip bent to form a horizontal arm and a downwardly oblique arm, a hook at the end of the horizontal arm detachably engaging said strip and the end of the downwardly oblique arm engaging said support.

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