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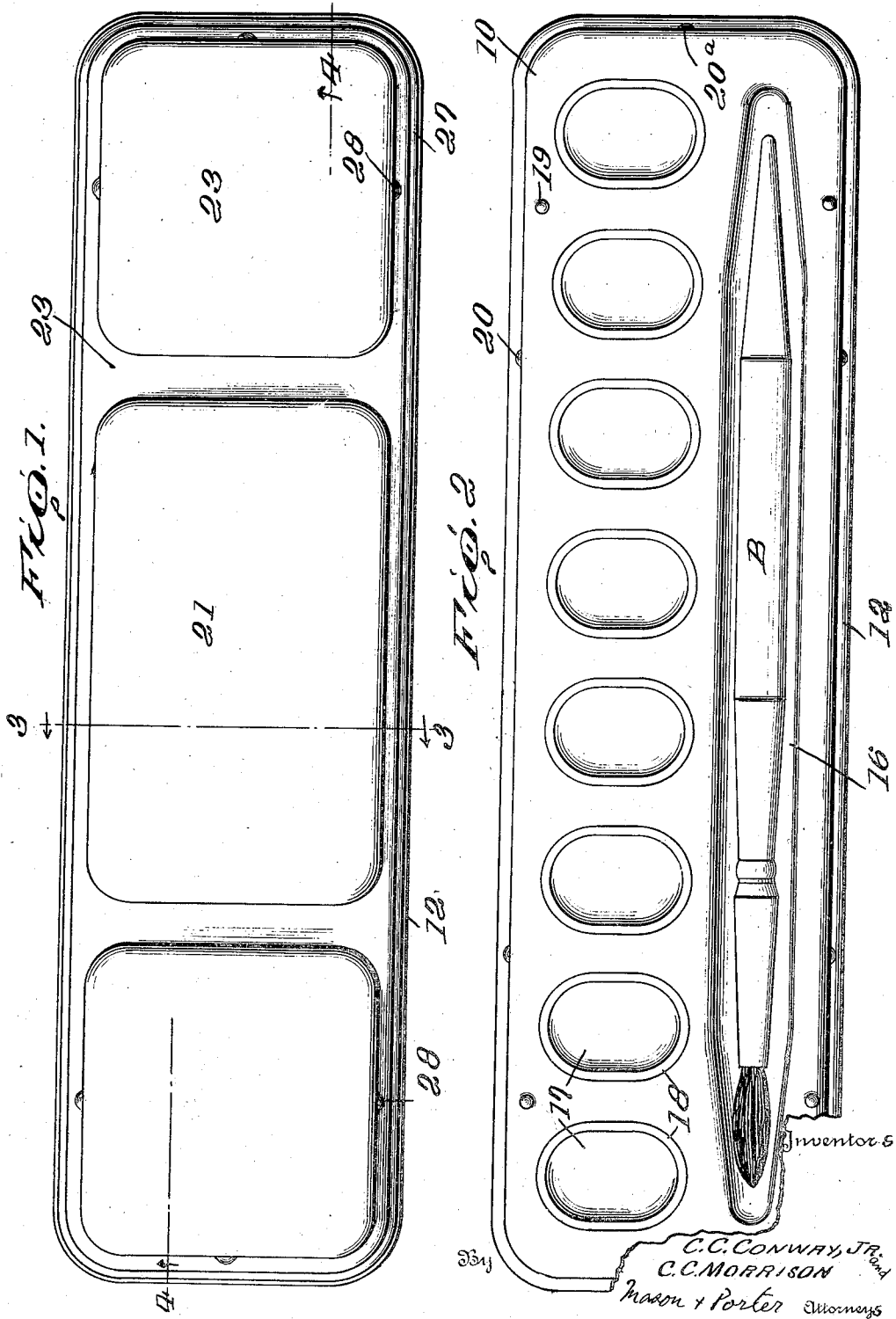
C. C. CONWAY, JR., ET AL

2,165,345

WATER COLOR PAINT BOX

Filed June 29, 1938

2 Sheets-Sheet 1



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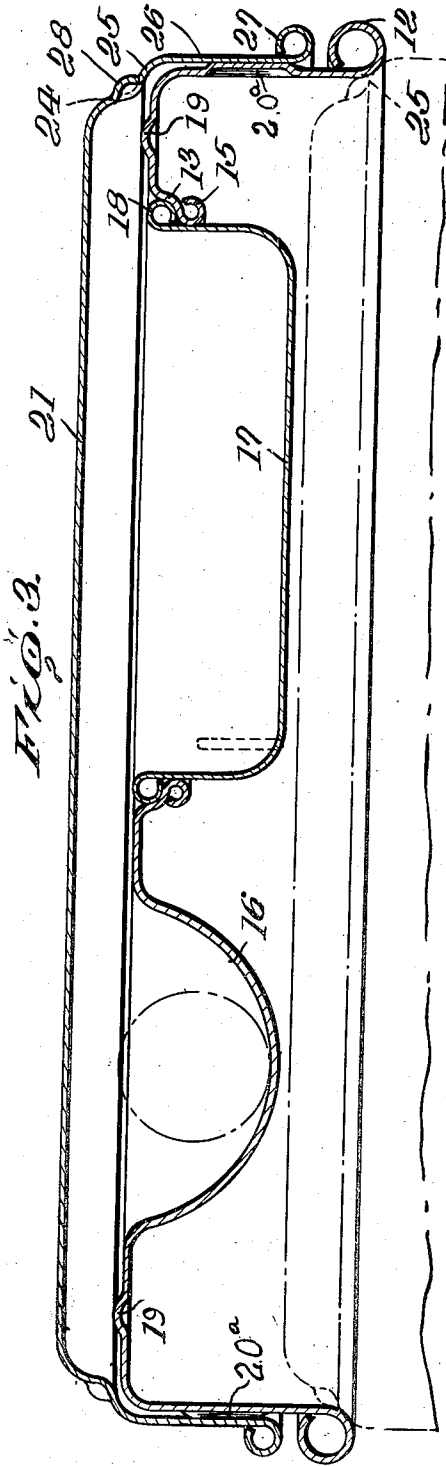
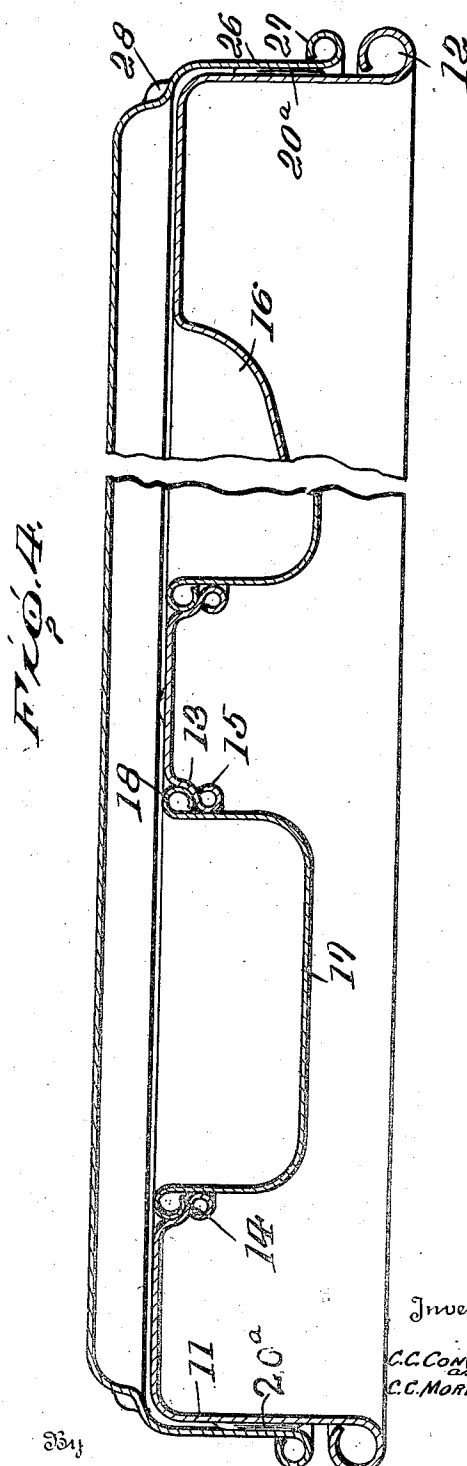
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2 Sheets-Sheet 2



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WATER COLOR PAINT BOX

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7 Claims. (Cl. 41-4)

The present invention relates to new and useful improvements in paint boxes, and more particularly to improvements in a sheet metal water color paint box which is so shaped and constructed that it presents a relatively heavy and substantial appearance.

According to the present invention, the water color paint box is made of sheet metal and is provided with brush, paint and mixing receptacles. For this purpose, the paint box is illustrated as including a base section having paint and brush receptacles, and a cover section having receptacles which may be used for mixing when the cover is removed.

An object of the present invention is to provide a paint box which is so constructed as to permit the circulation of air when the box is closed for the purpose of drying any water left therein.

A further object of the invention is to provide a sheet metal paint box of the above type, wherein the cover and base sections are slightly spaced apart when the box is closed for permitting the circulation of air through the interior of the box for drying purposes.

A still further object of the invention is to provide a sheet metal paint box of the above type, wherein the base and cover sections are provided with flanges adapted to frictionally engage when the box is closed and wherein the flanges are maintained in spaced relationship so as to permit the circulation of air.

A still further object of the invention is to provide a sheet metal paint box of the above type, which is inexpensive to manufacture, which is strong and durable, and which is particularly adapted for use in schools or the like in that the paint boxes are constructed so that they can be stacked one upon the other, thus occupying a minimum amount of space.

The above and other objects of the invention will in part be obvious and will be hereinafter more fully pointed out.

In the accompanying drawings,

Figure 1 is a top plan view of the assembled paint box.

Figure 2 is a top plan view of the base section with the cover removed.

Figure 3 is an enlarged transverse sectional view of the assembled paint box, taken along the line 3-3 of Figure 1.

Figure 4 is an enlarged fragmentary sectional view of the assembled paint box, taken substantially on the line 4-4 of Figure 1.

Referring more in detail to the accompanying drawings, the paint box is illustrated as being substantially rectangular in shape, and as being formed from sheet metal. The base section 10 is provided with a depending peripheral flange 11, the lower edge of which is curled, as at 12, so that

no sharp edges are exposed. The horizontal portion of the base section 10 is provided with a series of apertures, the edges 13 of which are pressed downwardly and are then offset inwardly, as at 14, in order to provide a peripheral shoulder. The free edges 15 of the offset portions 14 are curled outwardly so that the sharp edges are not exposed. The base section 10 is also provided with a longitudinal recess 16 which affords a receptacle for a brush B.

The offset portions 14 of the edges 13 around the openings in the base section provide shoulders for supporting paint receptacles 17. These paint receptacles 17 are substantially oval in shape in order to snugly fit within the recesses in the openings in the base section which are similarly shaped. Each of the paint receptacles 17 is provided with an outwardly and inwardly curled edge 18 which provides a shoulder adapted to rest on the offset portion 14 around the openings in the base section. The paint receptacles 17 are thus removably supported by the base section. The upper edges of the paint receptacles 17 are supported around the openings in the base section so that they are substantially flush with the top thereof. The bottom of each of the paint receptacles is disposed substantially above the lower edge of the depending flange 11, as is the bottom of the brush holding recess 16.

The horizontal surface of the base section 10 is provided with a plurality of upward projections 19 which serve to support the cover slightly spaced from the top of the base section in a manner to be hereinafter fully pointed out. The flange 11 on the base section 10 is provided with a plurality of vertical outwardly extending ribs 20 along the sides thereof. The flange 11 is also provided with vertical ribs 20a at the ends of the base section. The purpose of these vertical ribs is to provide frictional engagement between the cover and the base section, and to maintain the cover flange spaced from the flange 11 in a manner to be hereinafter fully pointed out.

The cover section 21 is shaped to provide transverse ribs 22 which define mixing receptacles 23. These recesses, when the cover is removed, provide mixing receptacles. The peripheral edge of the cover 21 is bent downwardly, as at 24, and outwardly, as at 25, and then downwardly to provide a depending flange 26, the peripheral edge of which is curled, as at 27, to provide a strengthening bead which does not present any rough or sharp edges of metal.

When the cover 21 is placed on the base section 10, the cover flange 26 will engage the vertical ribs 20, 20a on the base flange 11 in order to frictionally maintain the paint box closed. The upward projections 19 on the base section 10 will engage the outwardly extended portion 25 of the cover 21 so as to limit the downward movement

of the cover toward closing position. Thus, the outward bead 27 at the lower end of the cover flange 26 will be maintained spaced from the upper edge of the bead 12 on the base flange 11.

5 Similarly, the vertical ribs 20, 20a on the base flange 11 will maintain the cover flange 26 spaced from the base flange 11 between adjacent ribs. Thus, air is permitted to pass between the beads at the ends of the cover and base flanges upward-
10 ly between the flanges. The circulation of air through the closed paint box will effect a drying of any water left therein so as to prevent the paint in the receptacles 17 from becoming soft.

The cover 21 is provided adjacent the ends thereof with outward projections 28 substantially at the point where the downwardly and outwardly extending wall portions 24, 25 merge into one another. As shown in Figure 3, the paint boxes can be stacked one upon the other. Thus, the
20 inner edge of the bead 12 on the base flange 11 is adapted to contact with the outwardly extending portion 25 on the cover so that one box can be supported upon another. The outward projections 28 on the cover are adapted to engage the
25 inner surface of the base flange 11 in order to properly position one box upon the other and prevent relative sliding therebetween. Thus, the top surface of the cover 21 is adapted to extend into the space within a superimposed base flange, as shown in Figure 1. The bottoms of the paint
30 receptacles 17 and the brush recess 16 are disposed above the top of the cover 21 of the paint box immediately thereunder, as shown in Figure 1.

35 From the foregoing description, it will be seen that the present invention provides a sheet metal paint box which affords a heavy and rather solid appearance, and which is strong and durable. The sheet metal construction is strengthened at
40 vital points. The cover is maintained on the base section by frictional engagement and in such a manner that the interior of the closed paint box is ventilated. Thus, the circulation of air will effect a proper drying of the water colors. The
45 cover, when removed and inverted, affords mixing receptacles. The paint receptacles are substantially oval in shape so as to eliminate the difficulty encountered in washing square or rectangular receptacles. The completed paint box
50 is entirely free of raw edges of metal, and when assembled, can be stacked one upon another so as to occupy a minimum amount of space in storing. Thus, these paint boxes are particularly suited for use where there is a limited
55 amount of space, as for instance, public schools or the like.

It is to be clearly understood that various changes in the details of construction and arrangement of parts may be made without departing from the scope of the invention as set forth in the appended claims.

We claim:

1. A paint box comprising a base section having paint and brush receptacles, a cover section
65 providing mixing receptacles and adapted to frictionally engage the base section for closing the paint box, and means for maintaining the base and cover sections spaced apart when the box is closed for permitting the circulation of air there-
70 between.

2. A paint box comprising a base section hav-

ing paint and brush receptacles and including a depending flange, a cover providing mixing receptacles and having a depending flange adapted to frictionally engage the flange on said base section when the box is closed, and means for
5 maintaining said flanges spaced apart when the box is closed for permitting the circulation of air therebetween.

3. A paint box comprising a base section having paint and brush receptacles and including a
10 depending flange, a cover section providing mixing receptacles and having a depending flange adapted to frictionally engage the flange on said base section when the box is closed, and means including spaced projections disposed between
15 the said flanges for maintaining the flanges spaced apart when the box is closed whereby to permit the circulation of air therebetween.

4. A paint box comprising a base section having paint and brush receptacles and including a
20 depending flange provided with spaced outward projections, and a cover section having mixing receptacles and a depending flange adapted to frictionally engage said projections when the box
25 is closed, said projections maintaining the said flanges spaced apart for permitting the circulation of air therebetween.

5. A paint box comprising a base section having paint and brush receptacles and including a
30 depending flange, a cover section providing mixing receptacles and having a depending flange adapted to frictionally engage the flange on said base section when the box is closed, means for maintaining said flanges spaced apart for per-
35 mitting the passage of air therebetween, and means for maintaining the inner surface of said cover section spaced slightly above the top of said base section for permitting the circulation of air admitted from between the flanges.

6. A paint box comprising a base section having paint and brush receptacles and including a
40 depending flange, a cover section providing mixing receptacles and having a depending flange adapted to frictionally engage the flange on said base section when the box is closed, means for
45 maintaining said flanges spaced apart for permitting the passage of air therebetween, and spaced projections on the top of said base section for engaging the inner surface of said cover section and maintaining the cover section spaced
50 above the top of said base section whereby to permit the circulation of air admitted from between the flanges.

7. A paint box comprising a base section having paint and brush receptacles and including a
55 depending peripheral flange, a cover section having the edge thereof extending downwardly and outwardly and terminating in a depending flange adapted to frictionally engage the flange on said
60 base section when the box is closed, and spaced projections extending outwardly from said cover section between the downwardly and outwardly extending portions at the edge thereof, the edge of the base flange on a superimposed box being
65 adapted to engage the outwardly extending portion on a cover section thereunder and said projections being adapted to engage the inner surface of the superimposed base flange whereby to permit the stacking of boxes one upon the other.

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