March 13, 1945. W. H. CONNELLY 2,371,153

PAINT AND DRAWING SHEET

Filed Sept. 1, 1943

Fig. 1



Fig. 2

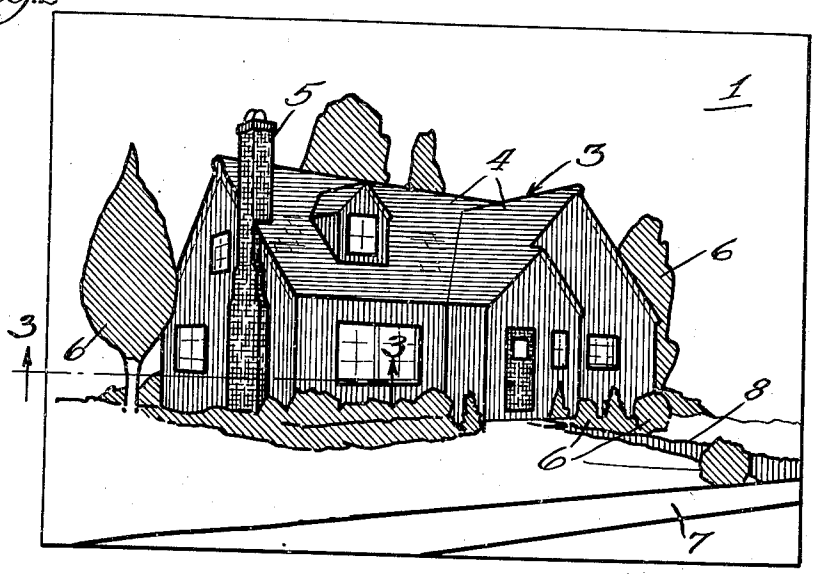
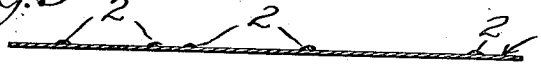


Fig. 3



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PAINT AND DRAWING SHEET

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3 Claims. (Cl. 35—26)

The present invention relates to a paint and drawing sheet, and more particularly to a novel means and manner of forming a page for a child's paint and drawing book with raised outlines of figures or objects to be painted or colored with crayon, pencil or the like.

Among the objects of the present novel invention is to form on a page for a paint or drawing book the contour of objects to be colored, as by water color paint, crayon, pencil or the like, raised in such manner as to act as a barrier to the paint brush, pencil, crayon or the like which the child is using, and thereby assist the child in confining the color to the area or portion of the figure or object within the outline.

Another object of the invention is to provide a dam or abutment between the different parts of the object or figure, or between different areas of the page, so that when the child is using water color paint as the coloring agent, the paint in adjoining areas will not run together and make an unsightly line of juncture between the adjacent parts or areas. In using water color paint it has heretofore been necessary to wait until the paint in one part or area was dry before coloring adjacent parts or areas of the page or paper, as otherwise the colors would run together and produce a smeared or unsightly juncture between the areas. As the raised outlines of the present invention provide separations or barriers between the various areas to be painted, the invention permits wetting and painting of several areas or parts without delay or the necessity of waiting until an adjacent portion was thoroughly dry, and without any danger of the paint from one area running into or blending with the paint of another area.

Another object of the present invention is to produce these raised lines, in a manner which does not involve the application of a considerable amount of pressure to the paper in the course of the printing, and which is inexpensive. Engraving is too expensive for use in a child's paint book, and both engraving and the usual embossing require the application of a large amount of pressure, which would result in damaging or tearing the fragile, highly absorbent paper necessary for the pages of a book of this kind.

The present invention includes raising these lines by printing them in ink and combining or fusing with this ink a powdered substance such as resin. This powdered substance is spread on the wet ink, after which heat is applied thereto to cause fusing of the ink and resin, resulting in the swelling or puffing up of the resulting mixture until raised sufficiently above the surface of the paper to provide a permanent barrier or dam separating the parts or areas of the design or figure outlined.

Further objects are to provide a construction of maximum simplicity, efficiency, and economy, and such further objects, advantages and capabilities as will later more fully appear and are inherently possessed thereby.

In the drawing:

Figure 1 is a plan view of a drawing or paint book page provided with lines drawn in accordance with the invention.

Figure 2 is a view similar to Figure 1 but with the areas marked off by the lines colored.

Figure 3 is a view in horizontal cross section taken on the line 3—3 of Figure 2.

Referring to the illustrative embodiment of the invention shown in the drawing, there is disclosed a page 1 for a paint or drawing book provided with raised lines 2 outlining the figure of a house 3 having a roof 4, chimney 5 and surrounded by trees, shrubs and the like 6. There is also shown a sidewalk 7 and front walk 8 leading up to the house. The lines are preferably formed by printing them with an ink which will combine or fuse with a powdered substance such as resin, which when spread on the wet ink and then subjected to sufficient heat to cause the fusing of the ink with the resin, causes a permanent swelling or puffing up of the mixture of resin and ink until the desired outline is raised substantially above the surface of the paper. The resultant mixture will harden and remain in such elevated condition as shown in Figure 3 and present a hard, water-repellent barrier or dam of a material or substance different from that of the paper. Such lines being black or colored offer a high degree of contrast and visibility on the surface of the white or light colored drawing paper.

After the sheet or page is formed as above mentioned, the outlined areas of the page are then ready to be filled in with some coloring material, such as water color paint, crayon, pencil or the like, so that the sides of the house may be one color, the roof another, the chimney another, the trees, shrubbery and the like another color, the sidewalk still another color. Because of the raised lines it will be a simple matter for a child, when doing the coloring, to confine the particular color to the desired area.

The present invention is especially useful when coloring with water color paints, as the entire surface of the page may be wet at the same time,

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and the different colors applied to the different areas in rapid succession because the raised lines will act as dams and prevent the color from one area running over into and merging with the color in another area. Furthermore, there will be no necessity as in the past to wait until one area is dry before painting the next in order to avoid the consequent running of the paints and the resulting mottled or discolored line of juncture had there been no dam or other barrier to confine one color to the particular area.

Although the invention is disclosed as being particularly adaptable for the page of a paint or drawing book, it will be readily apparent that it has uses other than in the embodiment disclosed.

For example, a child may place a sheet of plain paper over the page and then by rubbing a crayon or pencil across the surface of the page and over the raised outline of the object or figure and its component parts or areas, reproduce this figure upon the sheet of paper. The hard, raised lines will not break down or lose their form even after repeated usage, as would result where embossed lines are provided. These latter would quickly break down under the strain and pressure of repeated use.

Having thus disclosed my invention, I claim:

1. In a drawing or paint book, a page containing an outline of an object to be colored, and raised lines of a hard, non-absorbent substance dividing the various parts of the object whereby a child may color or paint the various parts within the confines of the raised lines in different colors without the colors merging or running together.

2. A page for a paint and drawing book comprising a sheet formed with the outline of an object to be colored, the object being divided into a plurality of areas and a raised non-absorbent barrier enclosing the outline of the object and the separate areas whereby to facilitate the coloring of these areas by a child.

3. A page for a paint and drawing book comprising a sheet of paper bearing raised outlines of an object to be colored, the raised outlines being formed of printing ink and resin fused together and permanently raised when subjected to heat and providing non-absorbent barriers between adjacent portions of the page.

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