April 15, 1941. G. D. ROBERTS 2,238,866

COLORING DEVICE

Filed Feb. 14, 1940

Fig. 1.

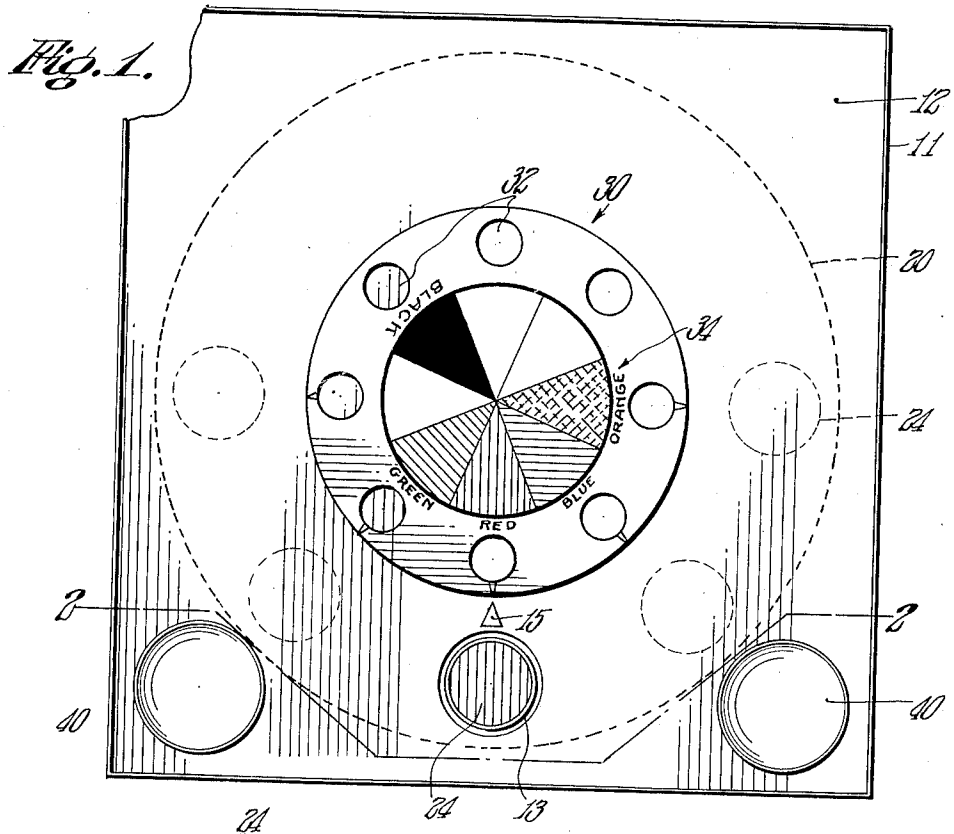


Fig. 2.

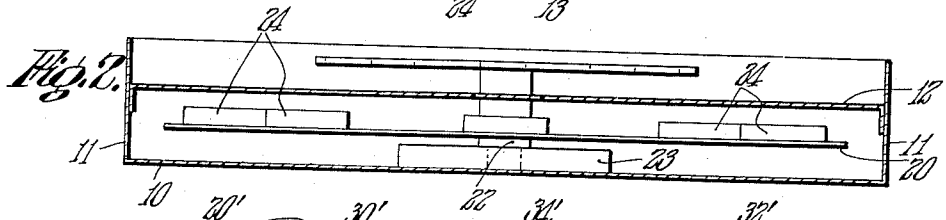
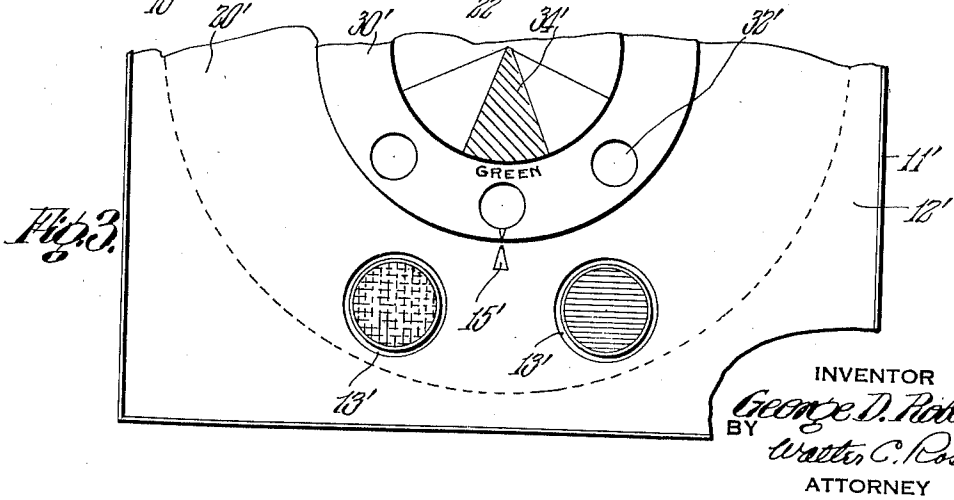


Fig. 3.



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COLORING DEVICE

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Application February 14, 1940, Serial No. 318,892

2 Claims. (Cl. 41—4)

My invention relates to a paint coloring device which may be used for various amusement and educational purposes, and the principal object thereof is directed to the provision of a unique and novel means whereby the paint of a particular color which it is desired to bring into use for a certain purpose is concealed from view until such time as it is desired to use the same, whereby upon the manipulation of operating means associated with the device, it may be easily and quickly brought into position for use.

It is another object of my invention to provide a device which will serve as an educational instrument inasmuch as a young child in using the same is taught to correlate colors with the proper names all to the end that he eventually learns to recognize the color red, for example, without necessarily actually seeing that color, which is something very much to be desired.

Various other novel features and advantages of my invention will be hereinafter more fully referred to in connection with the accompanying description of my invention, in the present preferred form thereof, reference being had to the accompanying drawing wherein:

Fig. 1 is a plan view of the device of my invention;

Fig. 2 is a cross sectional view of the device of my invention along the line 2—2 shown in Fig. 2; and

Fig. 3 is a partial plan view of a modified form of the device of my invention.

Referring now to the drawing in detail, wherein like figures refer to like parts and referring more particularly to the preferred form of my invention, selected for illustrative purposes, I have shown a rack consisting of a bottom wall member 10, side wall members 11 and a cover wall member 12. These walls may be made of any suitable material such as paper, or wood, or the like.

The cover wall 12 is preferably spaced away from the bottom wall 10 substantially as is shown in Fig. 2 and for purposes herinafter to be more fully described.

Between the bottom wall member 10 and the cover wall member 12, there is disposed a rotatable means 20 which, in the form shown in Fig. 1 in dot-dash lines, is a disc rotatably mounted upon a rotatable shaft 22 which may be disposed upon a base 23 and the same may be secured to the bottom wall member 10. Upon this rotating means 20 are disposed at points along the radii thereof coloring materials 24. The coloring materials may consist of any of the common and well known types such as points, crayons and the like.

In the cover wall 12, there is provided an opening 13 in such a manner that the various coloring materials 24 may be successively brought to a position beneath the opening 13 by rotation of the rotating means 20 upon its supporting shaft 22. That is to say, as the means 20 is rotated, the various coloring materials 24 are each in time brought into position beneath the opening 13, whereby the operator of the device may obtain access to the material as he desires and during such time when the various coloring materials are not required, they are concealed beneath the cover wall member 12.

The rotating means 20 may be made of any desired material although a stiff cardboard material is preferable for economical reasons.

Mixing dishes 40 may be secured to the cover wall member 12 whereby it becomes possible to mix the paints which are to be used to the desired color and density.

Positioned above the cover wall member 12 and mounted upon the shaft 22 is an operating member which is generally designated by the characteristic 30, and which has manually engageable parts 32 for moving the same. The form of the operating member, as shown in Fig. 1, is circular in shape and the manually engageable parts 32 consist of openings therein which are adapted to receive the fingers of the operator.

It will be understood, however, that the operating member 30 may be provided with manually engageable parts, other than apertures such as 32 and these parts may consist of projections or other gripping means.

Also carried on the operating member 30 is an indicia chart whereby appropriate designations of the colors carried upon the rotating means 20 directly thereunder are made. These designations are preferably in the form shown in Fig. 1 and consist of color-bearing portions 34 which are correlated with the openings 32 although it will be understood that it is not absolutely necessary that the openings 32 and the color-bearing portions 34 be in direct correlation.

Also as in the form shown in Fig. 1, the color-bearing portions 34 on the operating member 30 and the coloring materials 24 on the rotating means 20 may be correlated so that as, for example, the color is red is indicated at one point on the operating member 30, the color is like-

wise to be found in a known position upon the rotating means 20. Preferably, the members 20 and 30 are so correlated that as a particular color on the color-bearing portion 34 is brought to an indicator 15, disposed upon the cover wall member 12, a coloring material of the color corresponding to the indicia of the color-bearing portion 34 appears through the opening 13.

In Fig. 3 I have shown a modified form of my invention by which it is possible to form particular colors from other colors of which they are composed. That is to say, two openings 13' and 13' may be provided in the cover wall member 12', although not necessarily so, one opening 13' being entirely sufficient, whereby as a certain color is called for upon the operating member 30', the primary colors which comprise that color are brought into position beneath the openings 13' as shown. In this way it becomes possible to produce the color in the coloring materials.

While I have described the invention in great detail and particularly with respect to the present preferred form thereof, it is not desired to be limited thereto since changes and modifications may be made therein without departing from the spirit and scope of the invention. The invention may be embodied in other specific forms without departing from the essential characteristics thereof. The present embodiments are therefore to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all changes which come within the meaning and range of equivalency of the claims are therefore intended to be embraced therein.

What it is desired to claim and secure by Letters Patent of the United States is:

1. A coloring device of the class described comprising in combination, a receptacle having a bottom wall and side walls extending upwardly therefrom at all marginal edges thereof, a panel spaced upwardly from the said bottom wall extending between said side walls closing said receptacle provided with a window therethrough, a rotatable member between said bottom wall and panel, spaced coloring materials carried thereby, the said rotatable member mounted for rotation to bring any one of the coloring materials beneath said window, a member extending above said panel associated with and rotated by rotation of said rotatable member, and an operating member fixed to said last-named member provided with finger engaging openings to facilitate rotation thereof by a finger of the hand thereby to rotate rotatable member.

2. A coloring device of the class described comprising in combination, a receptacle having a bottom wall and side walls extending upwardly therefrom at all marginal edges thereof, a panel spaced upwardly from the said bottom wall extending between said side walls closing said receptacle provided with a window therethrough, a rotatable member between said bottom wall and panel, spaced coloring materials carried thereby, the said rotatable member mounted for rotation to bring any one of the coloring materials beneath said window, a member extending above said panel associated with and rotated by rotation of said rotatable member, an operating member fixed to said last-named member provided with finger engaging openings to facilitate rotation thereof by a finger of the hand thereby to rotate rotatable member, and the said operating member carrying color indicating means corresponding to the color materials on the rotatable member whereby a certain coloring material on the rotatable member may be disposed beneath said window.

GEORGE D. ROBERTS.