

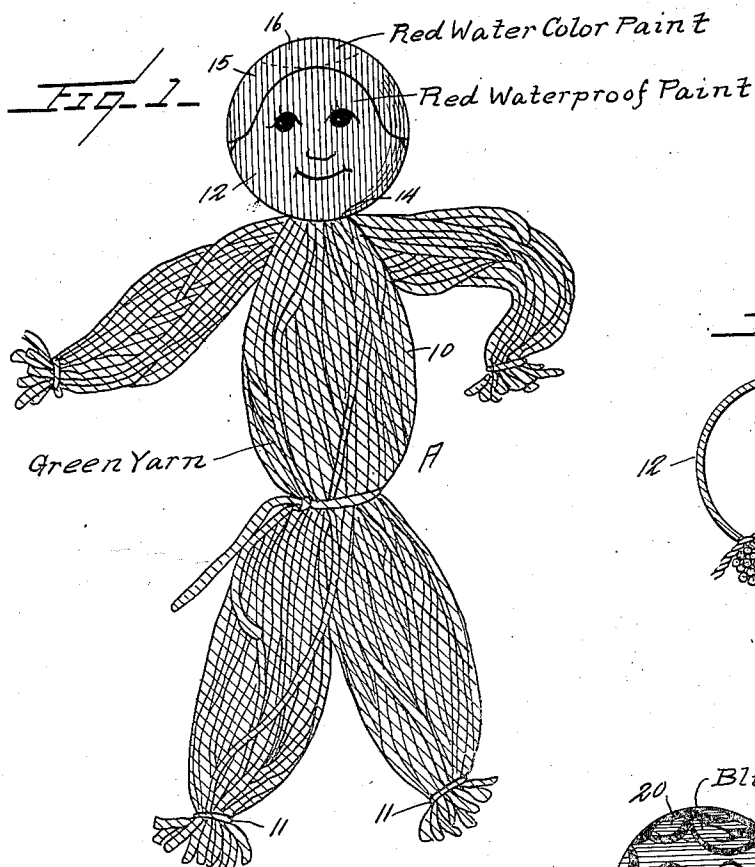
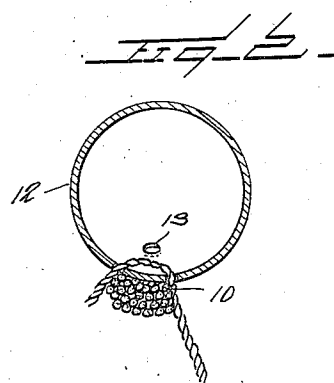
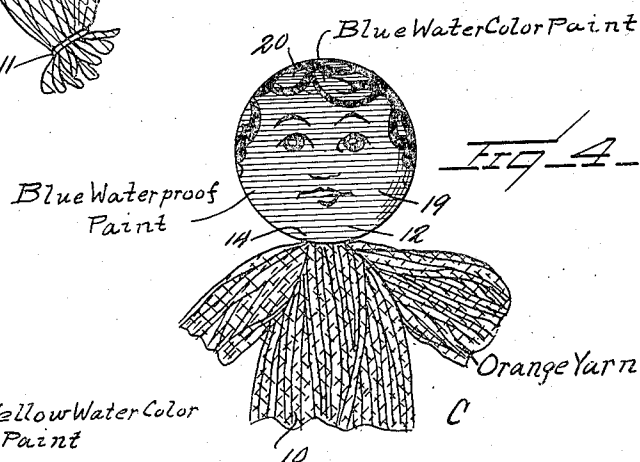
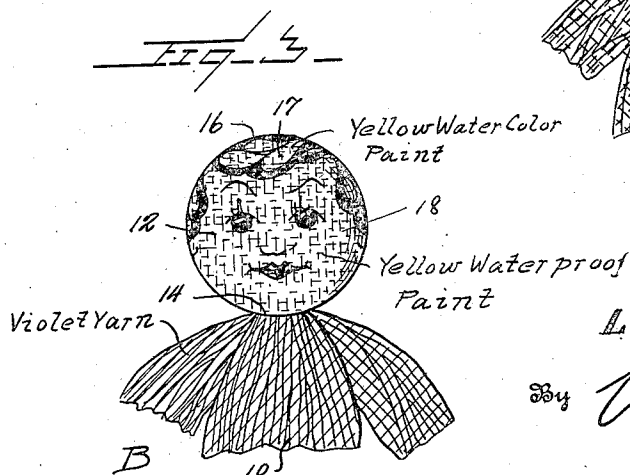
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DOLL FOR INSTRUCTION IN COLOR

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DOLL FOR INSTRUCTION IN COLOR

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This invention relates to dolls or like toys, and particularly to dolls designed for the purpose of teaching children.

The general object of the present invention is to provide certain figure toys, which I have heretofore referred to as dolls, which are used in teaching children the primary colors and how, by mixing the primary colors, the complementary colors may be secured, these dolls being used in connection with certain stories to be told to children which will impress these color facts upon their minds.

A further object is to provide three dolls having bodies preferably of yarn or worsted, and heads which may be made of rubber, a portion of the head being painted with water-proof paint and another portion of the head being painted thickly with water color paint of the same character as the water-proof paint but which will wash off when this portion of the head is immersed in a water bath so that a portion of the color from the head will be transmitted to the water bath and color the same, thus permitting a complementary color to be secured by a mixture of the colors from the heads of two dolls having the primary colors thereon.

In the drawings:—

Figure 1 is an elevation of a doll which, in the game referred to, will be called Mr. Redhead and having certain colors applied to the head thereof;

Figure 2 is a vertical section through the head of the doll shown in Figure 1;

Figure 3 is a fragmentary elevation of a portion of a second doll known in the stories or lessons as Yellow Sunshine, constructed in the same manner as the doll shown in Figure 1;

Figure 4 is a fragmentary elevation of a portion of a doll to be known in the lessons or stories as Mr. Blue and constructed in the same manner as the dolls shown in Figures 1 and 3.

All of the dolls are constructed alike and each doll consists of a body 10 formed of dyed yarn or worsted, this body 10 being formed of loose strands of yarn tied together at the wrists and ankles, as at 11, so as to hold the strings of yarn and at the same time de-

fine somewhat formless hands and feet. The head 12 is formed of a rubber ball. This ball has an opening at the back of the head for a purpose to be later stated and is also formed with a plurality of holes 14 through which a cord is run to tie the yarn to the head.

The three dolls are alike as regards construction. I have designated the dolls, however, as A, B and C. The doll A, which is known as Mr. Redhead, has the similitude of a face painted upon the rubber ball or head with water-proof paint and the head is painted with red water-proof paint, as at 15, to designate red hair and above this portion 15 and at the top of the head the head is painted with red water color paint 16. The body is formed of green yarn which, it will be understood, is a complementary color to red.

The doll partially shown in Figure 3 and lettered B has a body formed of violet yarn. The head is painted with water-proof paint as regards the features and as regards the markings 16 which indicate locks of hair and a certain portion of the head as, for instance, the space between the locks is colored with yellow water color paint 17, the greater portion of the head, however, being colored with yellow water-proof paint 18.

The doll shown partially in Figure 4 and lettered C is to be known as Mr. Blue. The body of this doll is formed of orange yarn, the face is to be painted with blue water-proof paint, designated 19, while the space between the locks of hair or the top of the head is to be painted with blue water color paint 20.

It will be understood that while the dolls B and C are only partially shown in the drawing, these dolls are constructed in precisely the same manner as the doll shown in Figure 1 except as regards differences of coloring.

It will be seen that the orange of the body of doll C is complementary to the blue of the head, that the violet of the body of doll B is complementary to the yellow of the head, and, as before remarked, the green body of doll A is complementary to the red of the head. In each of these dolls there is a head or portion of the body which is painted partially with water-proof paint and partially with water color paint which, when the head or other

portion of the body is dipped in the water, will come off to some extent without obliterating the painted features or other characteristic marks. These dolls are used, as before stated, to teach color to children and certain lesson stories are used in connection with the dolls which it is necessary to refer to in order that the use of the dolls may be understood.

Preferably the dolls are disposed in triangular position with Mr. Redhead, or the doll shown in Figure 1, at the apex of the triangle, the doll shown in Figure 4 at one lower corner of the triangle, and the doll shown in Figure 3 at the other corner of the triangle. Between each pair of dolls there is disposed a small dish of water and in the middle of the triangle, of which the dolls occupy the corners, there is disposed a dish of water. The dolls are supported in any suitable manner as, for instance, by stick files for papers or like members inserted through the openings 13 in the heads of the dolls. The triangle is supposed to indicate a three-cornered house and the dishes of water, fountains disposed within the house.

In telling a story to the children which shall impress the primary colors upon them and the complementary colors which are secured by mixing the primary colors, it is assumed that on a day Mr. Redhead (or doll A) washes his head in the fountain between his own corner and the corner occupied by the blue doll and washes some of the red water color into the water so as to make it a pink, and that then the blue doll decided to wash in the pink water and in doing so some of the water color blue is washed off so that the water is lavender color. Again the red doll washes his head in this water and then when the blue doll again washes his head in the water, the water becomes violet.

They decide then the yellow doll should have a suit of this same violet color in order to make his yellow face "more sunny" so that they did it and found that red and blue together make violet which is complementary to yellow.

In another lesson the red headed doll has its head washed in the water in the fountain between his own and the yellow doll's corner, and then the yellow doll washes his head in the water so that the heretofore rose colored water becomes orange and they use this orange color for the purpose of dyeing "a suit for Mr. Blue" which makes his face look bluer than ever, as orange is a complementary color to blue, blue being the complementary color to orange. It will be noted that doll No. 3 has this orange body which is complementary to blue. The blue doll has its head then washed in the water between his own and the corner of the yellow doll, or Mr. Yellow Sunshine, and the water becomes sky blue or a darker blue as desired. Then the yellow doll's head is washed in blue water

and the combination produces a fresh green. Thus the child is taught that blue and yellow produce green and then the child is taught that these two dolls took the green and dyed a suit for Mr. Redhead (or doll A), this suit making his red hair look redder, for the reason that green is a complementary color to red, as red is for green.

At last in the course of the lessons all of the dolls have their heads washed in the fountain in the center of the triangle and a neutral tint is thus produced, such as gray, without one color showing more than another. Thus children may be taught the primary colors, the binary colors, and the meaning of the word "complementary" as applied to colors.

While I have indicated above the stories which may be used in connection with these dolls for the purpose of teaching color, it is obvious that other color arrangements might be made and that further and more complicated lessons might be taught by means of these dolls. I do not wish to be limited to the exact form of the dolls, as obviously these might be gotten up in other ways, but it is essential that the doll shall have a head or some other portion of its body so formed as to have water color paint applied thereto which, when this portion of the body is dipped in water, will be to a greater or less extent washed off, depending upon the depth of the color desired and in the specific lessons referred to it is necessary that the body of the doll shall be colored a color which is complementary to the color of the remainder of the doll.

I claim:—

1. A set of dolls for use in color instruction, each doll having a body and a head, a portion of each doll being coated with water color paint which is removable upon the application of water thereto, the removable color used on one doll being different from the removable color of any other doll and being capable, upon admixture with the washed-off color of another doll, of forming a third color, the removable color of any one doll being different from the removable color of any other doll.

2. A set of three dolls for use in color instruction, each doll having a body and a head, and a portion of each doll being coated with a primary color water color paint capable of coming off upon the application of water thereto, each doll having a primary color different from the primary color of any other doll, the removable primary color used on one doll being capable, upon admixture with the washed-off primary color of another doll, of forming a third or binary color.

3. A set of three dolls for use in color instruction, each doll having a body and a head, and a portion of each doll being coated with a primary color water color paint capable of

coming off upon the application of water thereto, the removable primary color used on one doll being different from the primary color of any other doll and being capable, upon admixture with the washed-off primary color of another doll, of forming a third or binary color, the body of each doll having a color formed by a combination of the colors of two other dolls, and said body color of any one doll being complementary to the removable color carried by the same doll.

4. A set of three dolls for use in color instruction, each doll having a body formed of colored yarn and having a head, the head being colored with one of the primary colors and the color over a portion of said head being removable by immersion in water, each doll having its head coated with a different primary color from the primary color of any other doll and the color of the body of each doll being complementary to the color of its head and capable of being formed by the combination of the removable colors from the heads of the two other dolls.

5. A set of three dolls for use in color instruction, each doll having a body and a head, a portion of the head of each doll being colored by water color paint which is removable by immersion, the head of each doll being of a primary color, the color of the body of each doll being complementary to the color of the head of the doll.

6. A set of three dolls for use in color instruction, each doll having a colored yarn body and a hollow rubber head attached to the body, a portion of the head and the features of each doll being painted upon the head with water-proof paint, a portion of the head of each doll being painted with water color paint removable by immersion, the removable paint on the head of each doll being of a primary color, the removable primary color on the head of one doll being different from the primary color on the head of any other doll, the color of the body of each doll being different from the color of the body of any other doll and being complementary to the removable color on the head of the same doll and the color of the body of each doll being capable of being formed by the combination of the removable colors of the heads of the two other dolls.

7. A doll of the character described, having a body of yarn, and the head formed of a hollow shell perforated at the neck, certain strands of the yarn forming the body being passed through certain perforations of the neck with the bight portions thereof engaging the material between the perforation and the depending portions of the yarn being intermingled with the yarn of the body, the yarn at the end opposite the head being divided to form two legs with the strands tied at angles and strands of yarn adjacent the head being divided to form two arms, the

strands being tied at the extremities of the arms.

In testimony whereof I hereunto affix my signature.

LORA C. VAN CLEAVE.

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