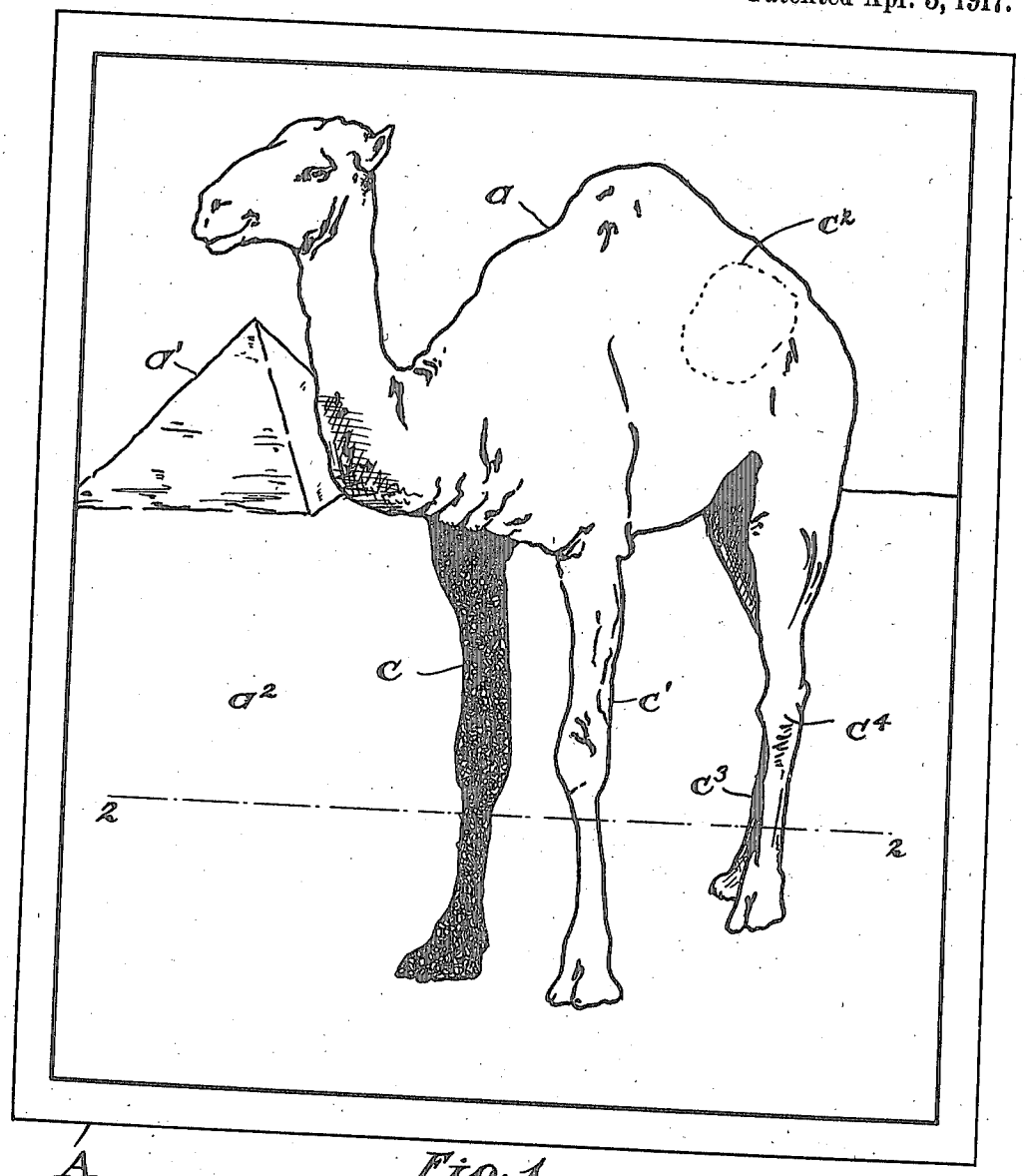
W. A. WARD.

SAND PICTURE AND METHOD OF MAKING THE SAME.

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1,221,118.

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A

Fig. 1.



Fig. 2.

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SAND PICTURE AND METHOD OF MAKING THE SAME.

1,221,118. Specification of Letters Patent. Patented Apr. 3, 1917.

Application filed January 15, 1916. Serial No. 72,338.

To all whom it may concern:

Be it known that I, WALTER A. WARD, a citizen of the United States, residing in the city of New York, borough of Manhattan, county and State of New York, have invented certain new and useful Sand Pictures and Methods of Making the Same, of which the following is a specification.

This invention pertains to sand pictures and a method of making the same. The finished article is a sand picture in plane, or one in bas-relief, and wherein preferably, different tones or tints are made to appear, somewhat resembling water colors or pastels, by the application of sands of various colors, shades, or tints.

Speaking generally, the improved method consists in applying a suitable adhesive to a particular part or parts of a plain picture, sprinkling sand of the desired tint thereover, which immediately dries the adhesive and adheres thereto, thereby covering that portion of the picture to which the adhesive was applied with a particular sand tint. Other parts of the picture are subsequently similarly treated, using various tints of sand as required to carry out the desired pictorial artistic or esthetic effect.

In the accompanying drawing I have illustrated one practical manner of carrying out the invention, but such showing is to be understood as illustrative, only, and not as defining the scope or limits of the invention.

Figure 1 is a rectangular card on which is delineated a picture adapted to be treated by the method of this invention. A portion of the picture is shown as having been already treated.

Fig. 2 is a section taken on line 2—2 of Fig. 1, the animal shown in the picture having been formed in bas-relief in accordance with this invention.

Referring to the drawing, A designates a piece of cardboard, wood, paper, or other material, on which is delineated a pictorial illustration, *e. g.*, a desert with a camel *a*, in the foreground and a pyramid, *a'* in the background. The camel is shown as standing on a substantially level plain a^2.

In the preferred manner of carrying out the invention, the picture is colored to correspond to the natural objects represented. That is to say, in the picture shown, the plain a^2 might be a grayish white or light gray, the pyramid a darker gray or light brown, and the camel a yellowish brown with patches of light gray and yellow.

In practising the method of applying sand to the picture, to form the picture in either bas-relief or flat ground, a number of receptacles are provided which contain various tints, colors, or shades of sand, and the object is to apply the various colors or tints of sand to their correspondingly tinted or colored portions of the picture. This is accomplished by securing the different tones or colors of the sand to the respective portions of the picture through the agency of an adhesive, preferably in the manner following:

Assuming that the off or right fore leg *c* of the camel is shown in the picture as a yellowish brown, and the nigh fore leg *c'* a gray, the application of sand to the former would be accomplished by first applying an adhesive, such as mucilage or glue, to the leg in question, working carefully along the outlines thereof so that a neat result may be accomplished, care being taken to apply the adhesive throughout the entire extent of the member in question. The adhesive having been applied, sand from the receptacle containing that of a yellowish brown color is sprinkled or thrown upon the picture, and said picture is shaken, while in a horizontal plane, so as to insure the entire covering of the freshly applied adhesive by the sand. As soon as this has been accomplished, the picture is inverted, or turned on edge, and all of the sand shaken back into the receptacle, except that which adheres to the particular part of the picture to which the adhesive has been applied.

The sand is more or less porous and dry, and, accordingly, that which adheres to the adhesive immediately absorbs the moisture thereof so that, by the time the superfluous sand is cleared from the surface of the picture, that remaining has practically dried the adhesive, so that the next operation may be immediately undertaken without fear of effacing or otherwise marring the portion just completed.

The eye and mouth of the animal may be next sanded in the same manner as described relative to the off leg, the only difference being that the sand applied to the latter parts might be black in color. Moreover, if the picture of the camel should, perchance, be formed with a yellow patch upon the rump, over the portion or extent designated by the

dotted line c^2 of the drawing, this part might next be sanded; that it to say, the adhesive applied interiorly of the line c^2, yellow sand caused to adhere thereto, and the superfluous sand subsequently shaken off as described. The right hind leg c^3 of the camel might next be treated by applying sand of the yellowish brown tint, and, as a final operation, the remaining part of the animal's body could be finished in a light gray sand.

This would practically complete the animal, in so far as the general effect is concerned, although if desired, further steps might be included which will cause portions of the animal to stand out in greater relief than other portions thereof. That is to say, the two nigh legs of the camel, as well as the body thereof, might be treated, in the manner specified, to apply an additional coating of sands of the respective colors, the result being that the body and the legs referred to would be in greater relief than the two off legs c and c^3. This is clearly shown in Fig. 2, wherein the legs c' and c^4 are shown as covered with a much deeper layer of sand than that covering the legs c and c^3. This adding of additional sand by subsequent operations might be repeated several times over one or more portions of the picture, to produce the degree of relief desired for said parts.

It will, of course, be understood that the plain a^2 may be treated with a grayish or light gray sand, in the same manner as described, and that the pyramid a' might likewise be covered or delineated in sand. Moreover, the portion of the picture above the sky-line might be covered with a light blue sand to complete the picture.

It will be manifest, from the foregoing description, that the method described is extremely simple, and that sand pictures may be made with great efficiency without the necessity of any great amount of skill, care or practice. The absorbing of the moisture from the adhesive by the sand makes the drying of the successive portions of the picture commensurate with the time of application of the sand. Accordingly, when the picture is finished, it is not necessary for it to stand a considerable period before the adhesive is dry enough to handle the picture.

The method described is particularly adapted for the making of relief maps or other pictures by children, since various types of pictures can be worked out by the young mind, and, during such employment of the method, the artistic tendencies of the child are fostered, and he is, during his application of the same unconsciously instructed in matters of geography, natural history, art, or any other science to which the picture may relate. If the mind of the person applying the sand is sufficiently advanced in the art of blending colors, he may, by the proper mixing of the sands of different colors, obtain almost any shade, color, or tint desired.

A completed picture, map, or other article, produced in the manner specified, is very esthetic in appearance, and, if different colored sands are employed, the effect is similar to water-color or pastel work. It is preferred to use sands of different colors in the production of the finished pictures, although in some cases, as with young children, it may be advantageous to use sand of one color only. Children may obtain a great deal of pleasure and amusement, as well as great dexterity of manipulation, in practising the method of this invention, at a very small cost and with considerable benefit to themselves intellectually.

If desired, the operator may, himself, tint the raw sand, or he may be furnished with the different sands which have been previously colored at some central place of manufacture, where it can be done with more skill and economy than it could be performed by the individual. One manner of making the invention practical and available is to package the various colored sands in a single partitioned receptacle, or in small packages or containers adapted to be placed in a receptacle, and accompanying the same may be the necessary plain pictures, or other objects, and a suitable glue or adhesive. However, this is not controlling, since the invention might be commercialized in different ways. Accordingly, the invention is to be understood to be as broadly novel as is commensurate with the appended claims.

It will be understood that I do not necessarily restrict myself to the employment of sand, since equivalent or analogous materials may be used. Moreover, instead of applying the adhesive to the figure just previously to applying the sand, it may be applied and allowed to dry, and, when it is desired to make the sand picture, said adhesive may be softened by moisture or heat, and the sand then applied as described.

Having thus fully described the invention, what I claim as new, and desire to secure by Letters Patent, is:

1. A new article of manufacture embodying a background and a bas-relief picture on said background, the picture being formed from non-vitreous sand adhesively secured to the background.

2. A new article of manufacture embodying a background and a bas-relief multicolored picture on said background, the picture being formed from non-vitreous sand adhesively secured to the background, and wherein the tones or colors of the picture are produced in sands of different colors.

3. A new article of manufacture em-

bodying an opaque background and a multi-colored picture on said background, the picture being formed from opaque non-vitreous sand adhesively secured to the back-ground, and wherein the tones or colors of the picture are produced in sands of different colors.

4. A new article of manufacture embodying a picture, the objects shown therein being of their natural colors, said picture being covered with non-vitreous sand colored to correspond with the parts or portions of the picture covered, which sand is adhesively secured to the picture.

5. A new article of manufacture embodying a picture, the objects shown therein being of their natural colors, said picture being covered with non-vitreous sand colored to correspond with the parts or portions of the picture covered.

6. As a new article of manufacture, a picture, the objects therein being in their natural colors, said colors being covered with non-vitreous sand of corresponding tints embedded in an adhesive.

7. A new article of manufacture embodying a back-ground, a picture on said back-ground and non-vitreous sand covering said picture and embedded in an adhesive, portions of which picture are covered with a thicker layer of sand than other portions, whereby different portions of the picture are in different degrees of relief.

8. A new article of manufacture embodying a picture covered with non-vitreous sand embedded in an adhesive, portions of which picture are covered with a thicker layer of sand than other portions, whereby different portions of the picture are in different degrees of relief.

9. The method of making sand pictures which consists in applying an adhesive to a portion of an opaque picture, depositing non-vitreous sand of a predetermined tint thereon, removing the superfluous sand which does not adhere to the picture, and repeating the operation on different portions of the picture with non-vitreous sands of different tints, whereby the resulting picture is opaque.

10. The method of making opaque sand pictures which consists in starting with a complete picture, applying an adhesive to a portion, only, of said picture, depositing opaque sand of a predetermined tint on the portion of the picture to which the adhesive has been applied, and removing the superfluous sand which does not adhere to said adhesive, whereby the resulting pictorial illustration embodies a portion of the original picture, while the remainder of the picture is reproduced in opaque sand.

11. The method of duplicating colored opaque pictures in sand which consists in applying an adhesive to portions of the picture having the same coloring, depositing opaque sand of a corresponding color on said adhesive, removing the superfluous sand, and repeating the operation on parts of the picture of different colors with opaque sands of such colors, to produce an opaque picture.

12. The method of making sand pictures which consists in applying an adhesive to an opaque picture, depositing opaque sand thereon, removing the superfluous sand, and repeating the operation on portions of the picture already covered to form such portions of the picture in greater relief than the remainder of the picture.

13. The method of duplicating colored pictures in sand which consists in applying an adhesive to portions of the picture having the same coloring, depositing non-vitreous sand of a corresponding color on said adhesive, removing the superfluous sand, repeating the operation on parts of the picture of different colors with non-vitreous sands of such colors, and superimposing on portions of the picture already sanded an additional layer or layers of adhesive and sand to bring out such portions of the picture in greater relief than the remaining portions of the picture.

14. The method of duplicating colored pictures in sand which consists in applying an adhesive to a portion of an opaque picture of a given color, depositing non-vitreous sand of a corresponding color thereon, removing the superfluous sand, and repeating the operation on parts of the picture of different colors with sands of such colors, to produce an opaque picture in colors.

In testimony whereof I have signed my name to this specification.

WALTER A. WARD.