

May 6, 1924.

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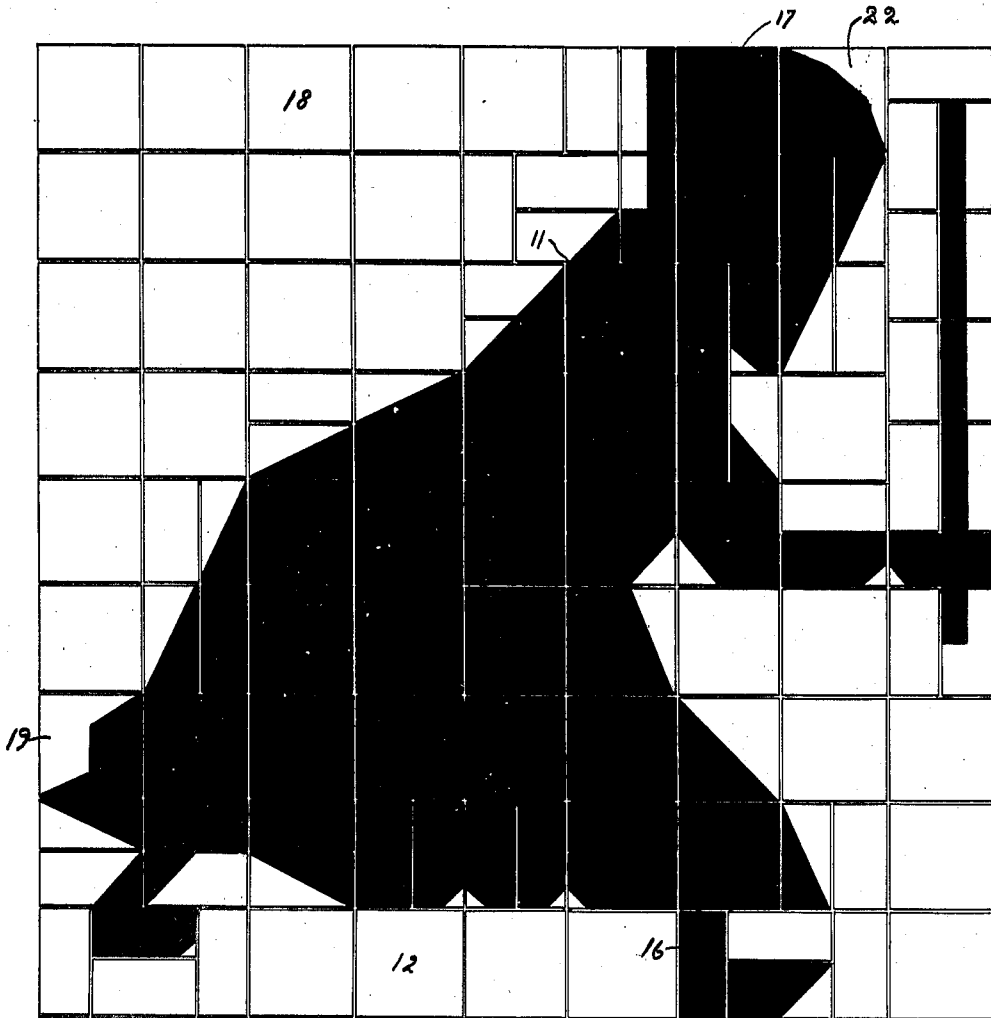
E. N. BRUEL

DESIGNING BLOCKS

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Fig. 1.



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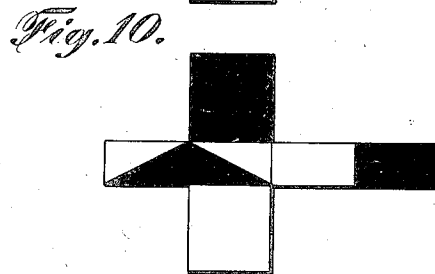
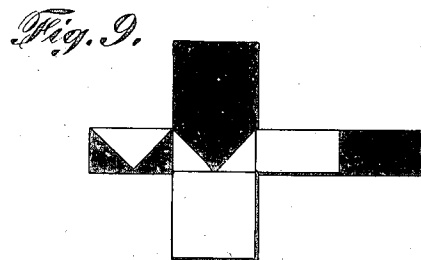
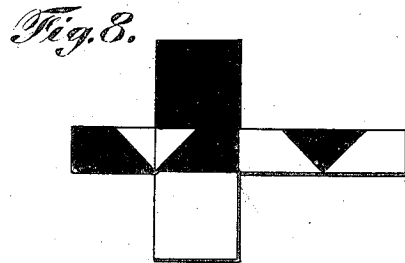
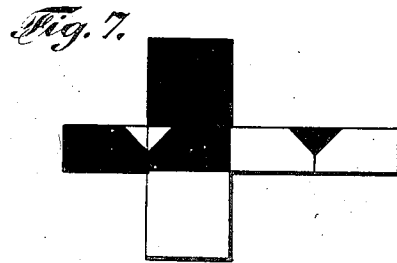
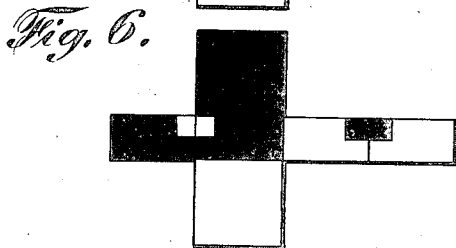
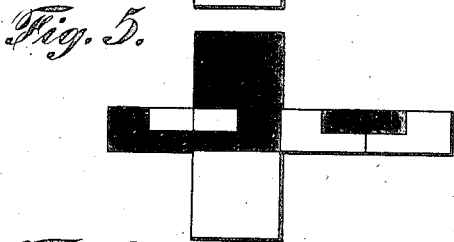
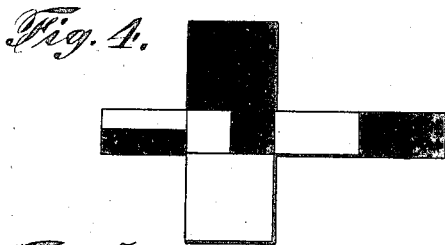
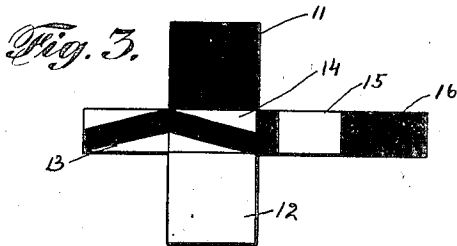
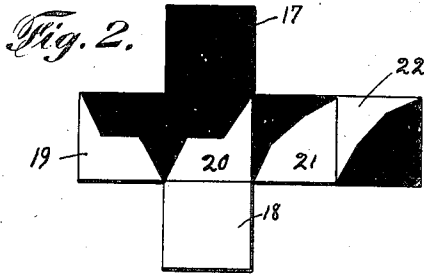
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

EDUARD N. BRUEL, OF BAYONNE, NEW JERSEY.

DESIGNING BLOCKS.

Application filed March 6, 1923. Serial No. 623,085.

To all whom it may concern:

Be it known that I, EDUARD N. BRUEL, a citizen of the United States, and a resident of Bayonne, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Designing Blocks, of which the following is a specification.

My invention has reference to designing blocks and aims to provide articles of this nature which are sometimes termed "toy blocks" and by means of which a child or others will be capable of assembling the blocks in such a manner that in aggregate they will produce any figure or picture it is desired to simulate.

It is well appreciated that a number of different block sets have been designed and placed upon the market for the purpose of permitting of their assembly by a child whereby certain geometric figures might be duplicated. However, these sets although filling the purpose for which they were intended have not permitted the making of various figures or pictures, in that the designs presented by each individual block have not been of such a nature as to permit of this result being achieved.

With the objection heretofore noted in mind, my present invention aims to provide a set of blocks each of which will present certain designs and in which these individual blocks may be assembled together or aggregated, to produce virtually any picture or figure which it may be desired to duplicate.

A further object of my invention is that of providing a set of blocks of the character stated in which each individual block will preferably present a number of different designs and in which these designs will be so arranged that a person inspecting one of the faces of any given block will immediately become cognizant of the various other designs appearing upon the other faces thereof. Thus, it will be unnecessary for a person to inspect all of the different designs carried by a single block in order to ascertain whether the particular outline desired is present on the same.

A further object of my invention is the production of a set of blocks of the character stated which may be manufactured at a nominal figure, which will afford amusement not only to children but also to adult persons and by means of which any number

of different figures or pictures of a more or less intricate nature may be produced or simulated.

With these and further objects in mind reference is had to the accompanying sheet of drawings as illustrating a practical embodiment of my invention in which:

Fig. 1 illustrates a set of blocks assembled together to simulate a design of a well known figure used for advertising purposes and

Figs. 2 to 10 show flattened views of individual blocks illustrating the design appearing on the different faces of the same according to the present embodiment of the invention. By a "flattened view" I mean a view showing all the faces or sides of the block turned or bent up into the same plane whereby they may all be viewed simultaneously.

The essence of my invention consists in the use of blocks which are preferably rectangular and present a body provided with six faces or sides, certain of these blocks having their upper and lower faces of greater area than the side faces thereof, all of the faces, however, bearing each a certain design.

Thus, in Figures 3 to 10 it will be noted that the edge or side faces of each of the blocks are relatively narrow in comparison with the upper and lower faces thereof. Furthermore, it will be seen in these figures that with the exception of those faces which are wholly of one color that the other faces of each block present a design in contrasting colors, and it will be further apparent that in most of each of these latter instances the major portion of each block face is of a single shade of color.

In the present embodiment of the invention the contrasting colors utilized are black and white. Referring particularly to Figure 3 for example the reference numeral 11 indicates one of the major faces of the block while the numeral 12 indicates the second major face of the same. The numerals 13, 14, 15 and 16 finally indicate the four edge or side faces of the block illustrated in this figure and in each instance it will be noted, with the exception of faces 11, 12 and 16 which are of a solid color, that contrasting colors are utilized.

Likewise, in Figure 2 in which a cubic block has been shown, the upper and lower

faces 17 and 18 thereof each present merely one color, while the side faces 19, 20, 21 and 22 bear contrasting colors, it being seen, particularly with regard to faces 21 and 22, that one color predominates and that the designs borne by the faces 19 and 20 are reversals of each other while the designs appearing upon the faces 21 and 22 have their colors reversed as respects the relative position thereof.

This latter feature of the invention is probably best exemplified in Figures 5, 6, 7 and 8 in which the four edge or side faces respectively present:

First, a certain design;
Second, a reversal thereof on an adjacent face;

Third, a color reversal of the design first mentioned on an adjacent face;

Fourth, a similar color reversal of the design mentioned in the second instance.

Also in each of these designs, it will be noted that one color predominates on each face and it will be obvious that by glancing at any one of the four edge or side faces of any of these blocks that the design probably or in many cases appearing upon all of the faces will immediately be apparent. While it is of course not possible to follow this design arrangement through the faces of all of the blocks it will nevertheless be seen that I have endeavored to do so as far as practicable. For example, in Figures 9 and 10 in each instance each of the edge or side faces are color reversals of each other while the two remaining faces are also color reversals although being of a different design from that appearing upon the first two faces of the block. Also, as in Figure 4 it will be noted that the first two edge faces are respectively longitudinally and transversely divided into contrasting colors so that the same general thought is followed wherever possible.

As to the designs which may be made by assembling the blocks properly it will be noted as in Figure 1, that by virtue of certain of the blocks being formed with a relatively narrow edge portion and by carrying designs of contrasting or solid colors upon these edge portions, that various finished figures or pictures may be produced by means of blocks of this general type. Thus the block set lends itself to numerous uses heretofore regarded as outside the scope of a device of this nature and also the setting up of the blocks becomes a far more fascinating

pastime than was the case in conventional block sets.

Accordingly all of the objects of this invention are accomplished and it will be appreciated that numerous variations may be made in the shape of the blocks as well as the design presented thereon without in the least departing from the spirit of my invention as defined by my claims which are:

1. A designing block set comprising a plurality of blocks each provided with a number of faces, some of said faces presenting each a plurality of colors contrasting with one another while other faces are covered respectively with a different one of said contrasting colors.

2. A designing block set comprising a plurality of blocks each provided with a number of faces, certain of said faces being of a less area than others of the same, and contrasting color designs associated with the first named faces, said colors contrasting with one another on the same face.

3. A designing block set comprising a plurality of blocks each provided with a number of faces, certain of said blocks having contrasting colors on their faces to provide different designs thereon, said colors contrasting with one another on the same face and the designs upon the different faces of the same block being reversed in color with respect to each other.

4. A designing block set comprising a plurality of blocks each provided with a number of faces, certain of said blocks having respectively different designs thereon, elements of the design on each of said faces bearing respectively as to said element, colors contrasting with one another and the designs upon the different faces of the same block having their colors reversed.

5. A designing block set comprising a plurality of blocks each provided with a number of faces, the upper and lower faces of said blocks being both of solid color and the colors of said faces respectively contrasting with one another while the edge faces of some of said blocks each present designs in which the said colors contrast with one another on the same face.

Signed at New York in the county of New York and State of New York this 5th day of March A. D. 1923.

EDUARD N. BRUEL.