July 15, 1924. 1,501,554

W. H. BRUNN

PUZZLE

Filed June 30, 1923

Fig. 1.

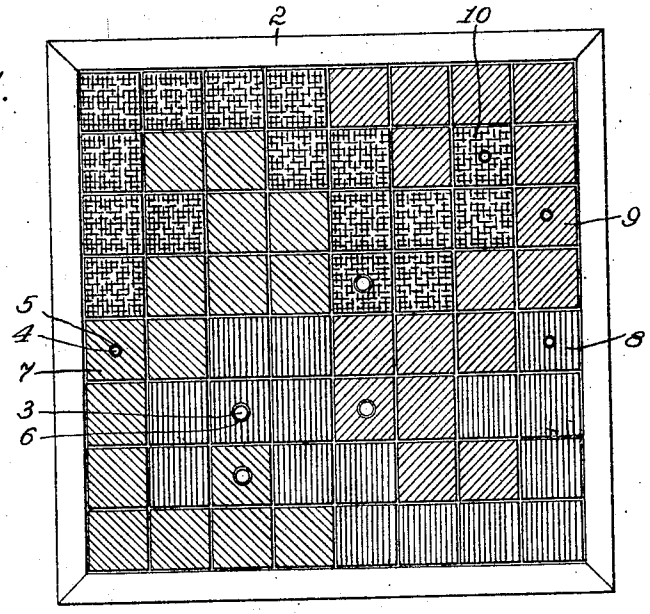
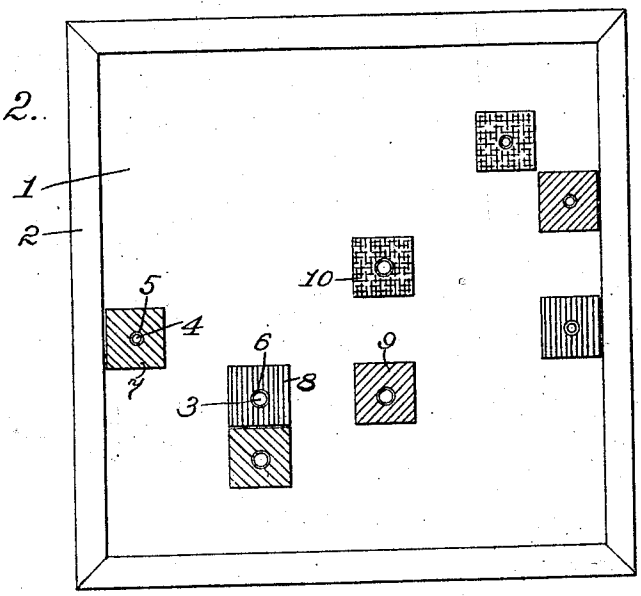


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM H. BRUNN, OF WATERLOO, IOWA.

PUZZLE.

Application filed June 30, 1923. Serial No. 648,719.

To all whom it may concern:

Be it known that I, WILLIAM H. BRUNN, a citizen of the United States of America, and a resident of Waterloo, Blackhawk County, Iowa, have invented certain new and useful Improvements in Puzzles, of which the following is a specification.

My invention relates to puzzles, particularly those which include an assemblage of blocks or movable pieces adapted for an associative arrangement to produce a desired or predetermined design or pattern of the blocks, and the object of my own invention is to supply such an assemblage of blocks and such initial directive means for some of them as will permit of but a single final design being formed from all the blocks, the design being made up of like congeries or groups of blocks in which all the groups have the same contour.

This object I have accomplished by the means which are hereinafter described and claimed, and which are illustrated in the accompanying drawing, in which Fig. 1 is a plan of my puzzle, showing all the blocks or pieces thereof as finally assembled in the proper completed arrangement to produce the only and desired pattern, and Fig. 2 is a plan of the base-board showing the proper initial positioning of certain of the blocks with relation to the pegs thereon.

The numeral 1 denotes a rectangular base-board, and the numeral 2 denotes a raised margin surrounding it, although the raised margin may be dispensed with.

Upon the upper surface of the board 1 are fixed a number of pegs 3 and 4, the diameter of each peg 3 being greater than either peg 4, but all of the same height, preferably of the height of the rim 2. These pegs 3 and 4 are positioned upon said board in the places suitable for the initial placing of pieces or blocks in starting the assemblage of blocks which produces the completed pattern when rightly placed.

As shown, four of each kind of pegs are used, but my invention does not depend upon any particular initial positioning of these two sets of pegs, for other arrangements may be adopted other than the one shown in order to produce the predetermined designs in the complete assemblages.

The blocks used are of rectangular shape, of the same dimensions, and may be made from any suitable material. The blocks are divided into four equal groups of blocks 7, 8, 9 and 10, respectively colored green, red, purple and yellow, although other colors may be employed or other means adopted in order to distinguish the groups from each other when finally formed.

A pair of blocks in each group have central holes to receive and fit respectively one or the other of the differently sized pegs 3 and 4, for instance in the pair of green blocks 7 one block has a small hole 5 to fit one of the smaller pegs 4, while the other block 7 of the pair has a larger hole 6 to fit one of the larger pegs 3.

Referring to said Fig. 1, it will be seen that as finally correctly assembled, all the blocks are divided into the four like groups of like shaped designs as to contour and in which all the blocks of each color are grouped together in one group only, or in one of said designs. The blocks must be placed in one arrangement only to secure this end, and as shown in Fig. 2, the initial arrangement of the orificed blocks must be as shown to avoid failure in obtaining said final arrangement of the blocks of Fig. 1. The person who attempts to solve the puzzle, of course must attain this arrangement by trial including the necessary initial step shown in Fig. 2.

After placing the orificed blocks correctly as shown in Fig. 2, the imperforate blocks must then be associated therewith and with each other to gradually build up the designs to their completed shapes, and the blocks must be positioned in the group designs so as to always have registering edges in the abutting blocks.

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

1. A puzzle, comprising a board having a number of pegs fixed thereon in a predetermined arrangement, and a larger number of differently distinguished blocks, some of which have holes to receive said pegs, the unapertured blocks when placed in a certain association with the apertured blocks producing therewith identically contoured and distinguished congeries of blocks.

2. A puzzle, comprising a board having a number of pegs fixed thereon in a predetermined relative arrangement, and a larger number of blocks divided into groups having the same number of blocks, the groups being differently colored or distinguished, certain blocks only of each group being apertured to receive said pegs, the other blocks

when associated with the apertured blocks in a certain arrangement producing like contoured groups of blocks in which each group of blocks has the same color or distinctive feature.

3. A puzzle, comprising a rectangular board with a raised marginal rim, pegs of different diameters fixed in a predetermined relative arrangement on said board, blocks having differently sized apertures to receive and fit different sized pegs, and other imperforate blocks, all the blocks being divided into like numbered groups of different colors, and when associated together covering the board within said rim, to produce but a single set of groups of blocks in which the groups have each only one color, and in which all the groups have the same number of blocks and with the same figure contour.

Signed at Waterloo, Iowa, this 15th day of June, 1923.

WILLIAM H. BRUNN.