



# UNITED STATES PATENT OFFICE.

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## PUZZLE.

Application filed September 17, 1921. Serial No. 501,257.

*To all whom it may concern:*

Be it known that I, WILBERT A. HUTTON, a citizen of the United States, residing at New Brighton, S. I., in the county of Richmond and State of New York, have invented new and useful Improvements in Puzzles, of which the following is a specification.

This invention relates to puzzles and the principal object is to produce a device of this nature which shall be cheap to manufacture, simple of construction, and highly entertaining.

Another object is to produce a device of this nature in which the box shall be suitably marked to indicate the starting position of the various pieces.

Another object is to produce a device of this kind in which the vacant space shall be provided with a filler of such size and shape that it may be utilized in place of one of the other pieces, should such other piece be lost or mislaid.

With these and incidental objects in view, the invention resides in certain novel construction, combination and arrangement of parts, and particularly in the proportioning of parts, the essential features of all of which are hereinafter fully described, are particularly pointed out in the appended claim, and are illustrated in the accompanying drawing, in which:—

Figure 1 is a plan view of the box portion of a puzzle.

Figure 2 is a similar view showing the several pieces in place.

Like characters of reference refer to like parts in both views.

Referring to the drawing in detail, A represents a box structure which is shown in Figure 1 as divided into a number of spaces by lines or grooves running parallel with the sides thereof. The spaces are marked respectively with the numerals 1 to 9 inclusive and with the word "empty."

For each of the spaces 1 to 9 there is provided a correspondingly shaped and sized block which in the drawings are numbered 1' to 9' inclusive. The primes are utilized in this specification to differentiate between the spaces marked out on the box A and the blocks or men, but it is to be understood that when the device is manufactured, the blocks and spaces may be numbered alike so as to indicate the positions which the various blocks should occupy when in normal posi-

tion. A filler B is used to cover the space marked "empty" when the puzzle is not in use, and in case of loss of one of the members 4', 5', 8' or 9' this block B may be substituted therefor as it is of the same size and shape.

Referring more particularly to the detailed proportions of the various members, it is to be noted that there is only one large block 1' which covers approximately two-tenths of the available area of the box bottom. The members 2' and 3' are together equal in area to the member 1' and may be generated therefrom by cutting the member 1' in two in the direction of its minor axis. The members 4', 5', 8', 9' and B may each be generated by cutting the member 1' in two in the direction of its major axis. The members 6 and 7 are generated by cutting one of the members 4', 5', 8' or 9' transversely in the line of its minor axis.

The object of the puzzle is that when the member B is removed, the operator should so shift the various blocks without removing the same from the box, that the members 1' and 2' and 3' will change places. This is accomplished by the accompanying series of movements:

Move 1' to right; move 4' down; move 5' to left; move 7' to left and up beside 6'; move 1' up; move 2' to left; move 3 down; move 8' and 9' down; move 6' and 7' to right; move 1' up; move 2' up; move 3' to left; move 8' and 9' down; move 6' down and left under 7'; move 9' up move 8' to right; move 6' and 7' down; move 9' to left; move 8' up; move 7' to right and down beside 6'; move 2' to right; move 3' up; move 6' and 7' to left; move 2' down; move 3' to right; move 7' up and left over 6'; move 2' and 3' to left; move 8' down; move 9' to right, move 1' to right; move 7' and 6' up; move 4' to right; move 5' down; move 6' to left and up beside 7'; move 5' and 4' up; move 2' to left; move 3' down; move 1' down; move 6' and 7' to right; move 5' and 4' up; move 2' up; move 3' to left; move 1' down; move 7' down and left under 6'; move 9' left; move 8' up; move 1' right.

What is claimed as new is:—

A puzzle comprising a square box; a large block movable therein; a group of two blocks movable in said box and each of the same size and shape as the other, the two together being of the same size and shape as said

large block; a group of four blocks movable  
in said box and each of the same size and  
shape as the others and different from the  
blocks of the first said group, and each  
5 having one-half the area of the said large  
block; and two small blocks each having one  
half the area of any of the blocks of the

second said group, said box and blocks being  
visually correlated for indicating the start-  
ing positions of the various parts.

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In testimony whereof I have affixed my  
signature.

WILBERT A. HUTTON.