

(No Model.)

W. H. LEIGHTON.
PUZZLE.

No. 496,202.

Patented Apr. 25, 1893.

Fig. 1.

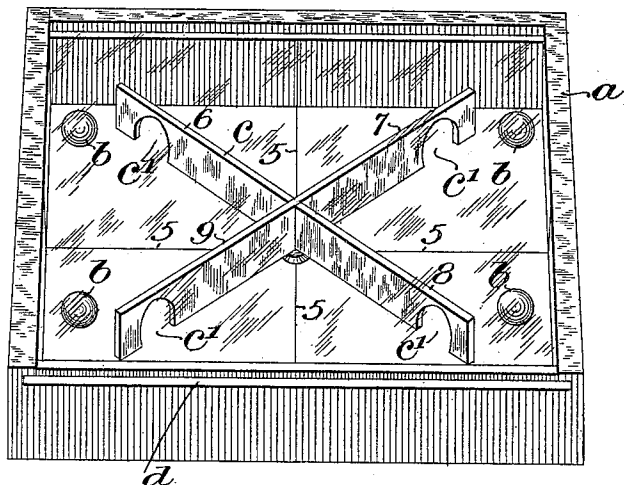
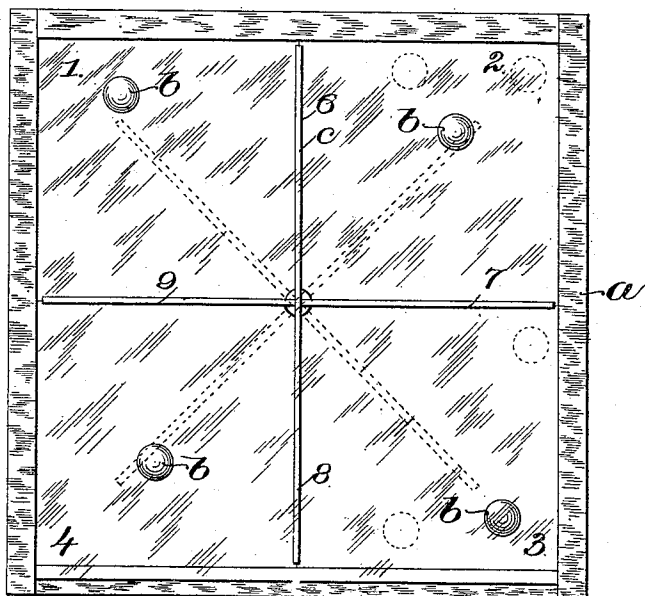


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

WALTER H. LEIGHTON, OF MANCHESTER, NEW HAMPSHIRE.

PUZZLE.

SPECIFICATION forming part of Letters Patent No. 496,202, dated April 25, 1893.

Application filed May 2, 1892. Serial No. 431,469. (No model.)

To all whom it may concern:

Be it known that I, WALTER H. LEIGHTON, of Manchester, county of Hillsborough, State of New Hampshire, have invented an improvement in Puzzles, of which the following description, in connection with the accompanying drawings, is a specification, like letters and figures on the drawings representing like parts.

This invention has for its object to produce a novel puzzle.

The puzzle forming the subject matter of this invention consists essentially of a box preferably square, in which case the corners of the box form divisions, each of which is to receive a marble, ball, or other rolling device, said divisions being distinguished one from another by different coloring, or in other suitable manner, the said marbles or balls being also marked to correspond respectively with the divisions in the box. In the center of the box is pivoted a stile, the arms of which when rotating pass so close to the sides of the box as to prevent the passage of a ball or marble between it and the sides of the box, the arms of the said stile being provided with openings through which the balls may pass, said arms being also colored or otherwise suitably marked to correspond with the respective divisions in the box. The top of the box is closed by a glass plate so that the movements of the balls within the box may be viewed, and also to place the movements of the balls beyond the control of the operator except in so far as they may be controlled by tilting the box in one or another direction, the object of the game being to so move the box as to cause the balls to roll into their respective divisions, and also at the same time to turn the stile so that its arms will correspond with their respective divisions.

Figure 1, of the drawings represents in perspective a puzzle embodying this invention; and Fig. 2, a top or plan view of the same.

Referring to the drawings, the box *a* may be of any desired shape and construction, in the present instance being rectangular or square in shape, the corners 1, 2, 3, and 4, constituting divisions for the reception of balls *b*. The four divisions thus formed will be distinguished from each other in desired manner, but preferably by different coloring. For in-

stance, the division 1 may be colored white, division 2, black, the division 3, yellow, and the division 4, red, the division lines 5 between the different divisions and the coloring being represented in Fig. 1, and the balls *b* will be colored respectively to correspond with the divisions of the box, there being a ball for each division.

In the center of the box is pivoted a stile *c* having four wings or arms 6, 7, 8, and 9, of such length that when rotated they will pass so close to the sides of the box as to prevent passage of a ball between the end of an arm and the side of the box, the said arms being provided preferably at or near their outer ends with openings *c'* of sufficient size to permit a ball to roll through.

In practice, the arms of the stile will preferably be colored to correspond with the respective divisions of the box, for instance, the adjacent faces of the arms 8 and 9 will be colored red to correspond with the division 4, the adjacent faces of the arms 7 and 8 will be colored yellow to correspond with the division 3, the adjacent faces of the arms 7 and 6 black to correspond with the division 2, and the adjacent faces of the arms 6 and 9 white to correspond with the division 1. The top of the box will be closed by a glass plate *d*. The balls *b* being grouped at any point or scattered promiscuously in the box, the object of the game is to so manipulate or tilt the box as to cause the balls *b* to roll into their respective corners, determined by the coloring, and at the same time by their movements to turn the stile so that the colored faces of the arms will correspond or lie adjacent to their respective divisions, that is, so that the red faces of the arms 8 and 9 shall lie in the position Fig. 2 bounding the red division 4, the yellow faces of the arms 8 and 7 also in their position Fig. 2 bounding the yellow division 3, and so on.

This invention is not restricted to the particular shape or construction of the box or stile herein shown, the essential features of the invention being set forth in the claims.

I claim—

1. The combination with a box having divisions, and balls for the said divisions respectively, of a pivoted stile, the arms of which are provided with openings for the pas-

sage therethrough of the balls, substantially as described.

2. The combination with a box having divisions distinguished by different coloring, 5 balls for the said divisions respectively and colored to correspond therewith, of a pivoted stile, the arms of which respectively are colored to correspond with the respective divisions in the box, substantially as described.
- 10 3. The combination with a box having divisions distinguished by different coloring, balls for the said divisions respectively and colored to correspond therewith, of a pivoted stile, the arms of which respectively are colored to correspond with the respective divisions in the box, and openings in the said 15

arms for the passage of the balls, substantially as described.

4. The combination with a box having divisions, and balls for the said divisions respectively, of a pivoted stile, the arms of which are provided with openings for the passage therethrough of said balls, and a glass cover for the box, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WALTER H. LEIGHTON.

Witnesses:

T. J. HOWARD,
GEO. A. LEIGHTON.