

No. 685,639.

Patented Oct. 29, 1901.

H. H. QUA.
GAME OR PUZZLE.

(Application filed June 20, 1901.)

(No Model.)

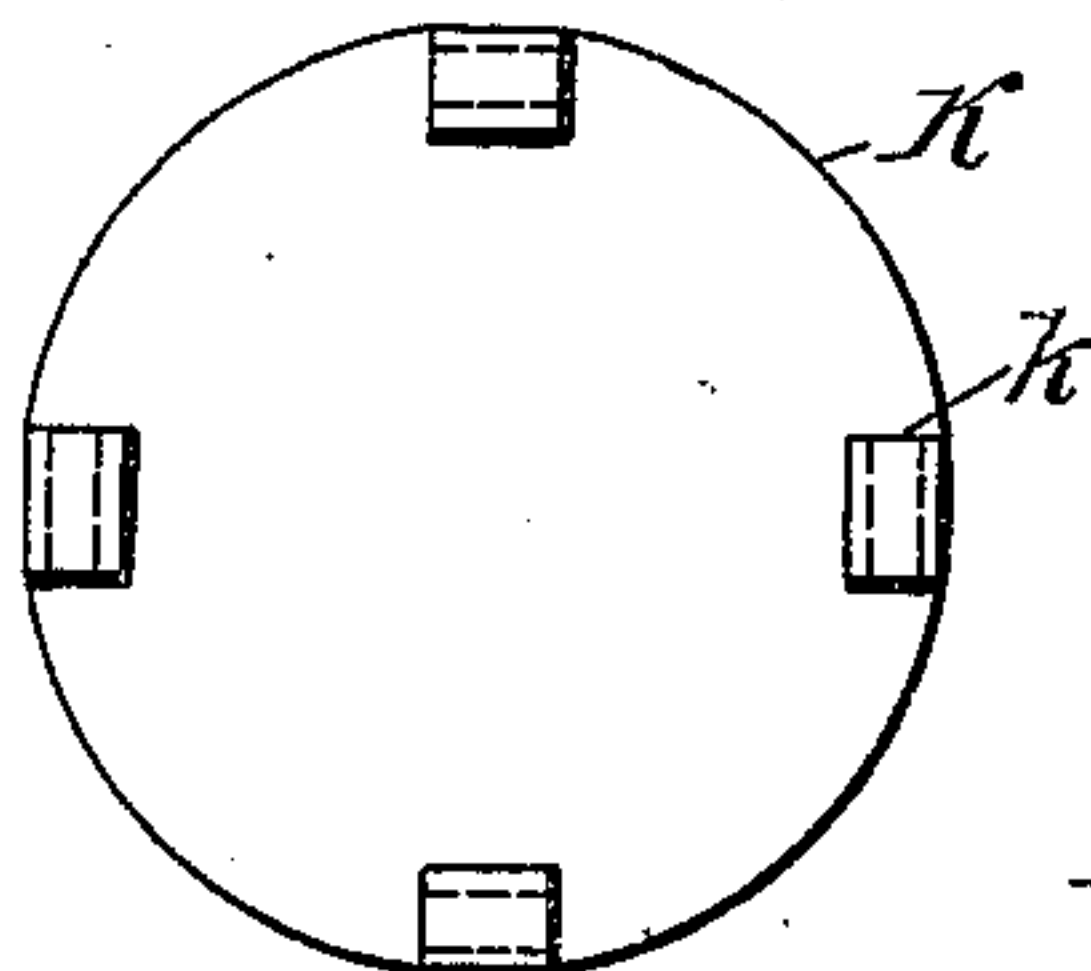


Fig. 3.

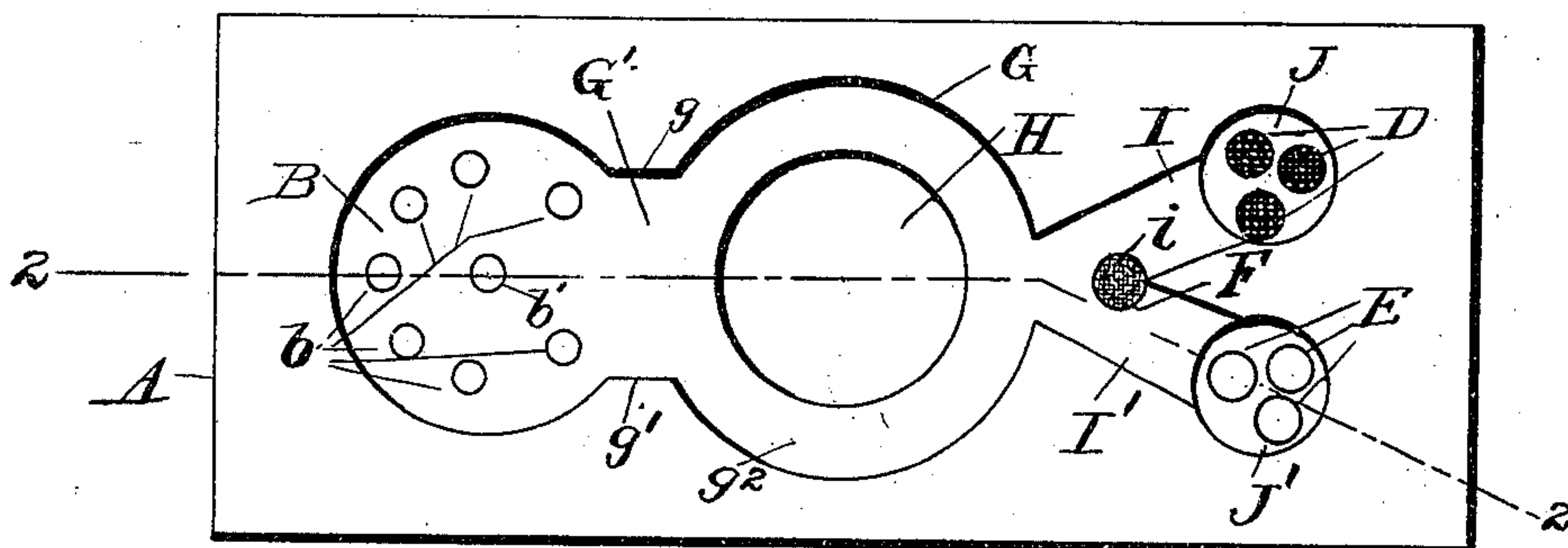


Fig. 1.

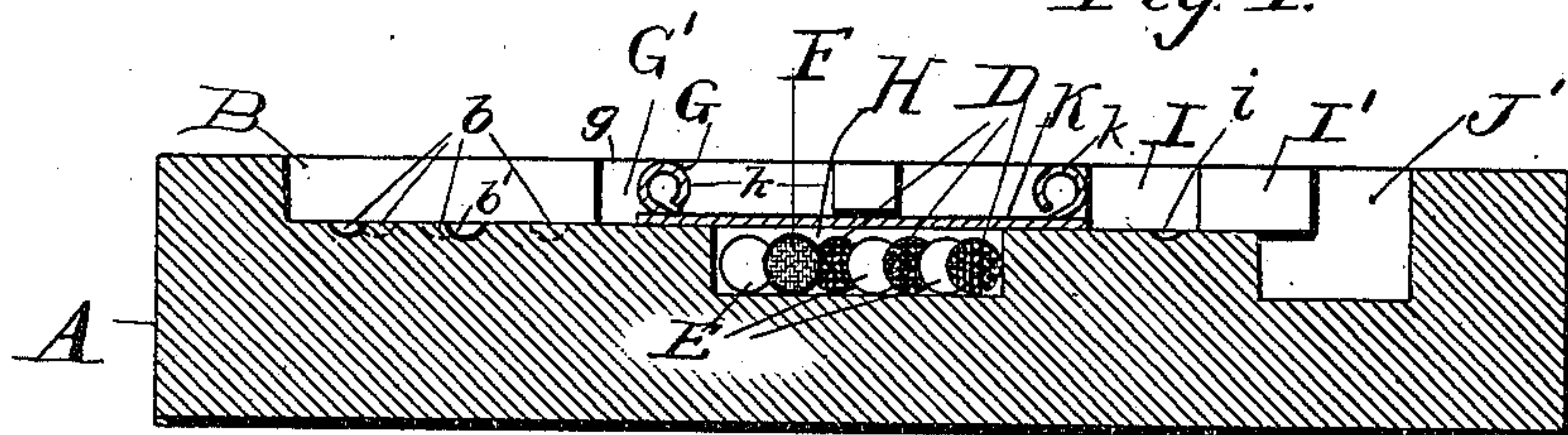


Fig. 2.

Witnesses.
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UNITED STATES PATENT OFFICE.

HENRY H. QUA, OF CONCORD, MASSACHUSETTS.

GAME OR PUZZLE.

SPECIFICATION forming part of Letters Patent No. 685,639, dated October 29, 1901.

Application filed June 20, 1901. Serial No. 65,237. (No model.)

To all whom it may concern:

Be it known that I, HENRY H. QUA, a citizen of the United States, residing in Concord, in the county of Middlesex and Commonwealth of Massachusetts, have invented a certain new and useful Improvement in Games or Puzzles, of which the following is a specification.

This invention relates to that variety of games or puzzles in which differently-marked balls are rolled from an inclosure through suitable passages to different predetermined inclosures or places according to the marks of the balls by tilting or otherwise manipulating the game-board without touching said balls, the operation requiring care and skill on the part of the manipulator.

Said invention consists in the devices and combinations hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a plan of the board with balls; Fig. 2, a vertical section of the board and of the cover on the line 2 2 in Fig. 1, showing balls retained in one of the inclosures by said cover; Fig. 3, a plan of the cover.

The game-board consists of a base A, preferably a block, as of wood, in which the inclosures and connecting-passages are made in the form of cavities bored into or dug out of said block. In the first inclosure B, at the left in Figs. 1 and 2, the walls or sides are curved or circular and the bottom is provided with spots *b* or slight depressions, on which are placed a number of balls, preferably an equal number of each of two different colors, as three black balls D and three white balls E, which spots *b* are best arranged in an arc of a circle. The number of spots *b* and balls D E may be varied, and I have shown seven such spots. Another spot *b'* is shown, on which is placed a ball F, of a third color, as yellow. The second inclosure G is also circular and is shown in position to be about externally tangent to the inclosure B, if these inclosures were complete circles, but they are connected by a comparatively broad passage G', made, if said inclosures are cavities in a block, by cutting away the block between vertical planes or walls *g g'*. The inclosure G contains a central circular cavity H of sufficient depth below the annular upper floor

*g*² of said inclosure G and of sufficient diameter to receive all the balls D E F when the game-board is not in use. From the inclosure G two diverging passages I I', having a common entrance, extend into smaller inclosures or chambers J J', which serve as goals for the black balls and white balls, respectively. The goal for the ball F is a spot *i* or slight depression common to the passages I I'.

The size of the balls is such with relation to the width of the passages I I' that when the ball F is on the spot *i* no other ball can pass said ball F without knocking it off from said spot and probably into one of the goals J J'. The bottoms of the inclosures B G and passages G' I I' are in the same plane; but the pit or cavity H and the inclosures J J' are deeper, in order to retain the balls which fall into them.

The balls after being placed on the proper spots in the inclosure B are caused by tilting and shaking the board to run to their appropriate goals without falling into the pit or cavity H, but passing said pit on the annular floor *g*², the ball F reaching its goal *i* after the other balls are in their respective goals, care being taken to avoid knocking the ball F into one of the goals J J'.

When the game-board and balls are used by two or more players, forfeits may be imposed for letting any ball fall into the pit H or into the wrong goal.

When the game-board is not in use, all the balls are placed in the pit or cavity H and are retained therein by a cover which is represented as a plate K of sheet metal resting on the annular floor *g*² and having ears *k*, which press outwardly against the walls of the inclosure G and retain said cover in place by friction on said walls.

I claim as my invention—

1. A game-board provided with an inclosure having spots, another inclosure having a central circular depression or cavity, a passage connecting said inclosures, goals or cavities, and other passages having a common entrance and leading from said second-named inclosure into said goals.

2. A game-board provided with an inclosure having spots, another inclosure having a central circular depression or cavity, a passage connecting said inclosures, goals or cavities,

other passages having a common entrance and leading from said second-named inclosure into said goals and another goal or spot common to said last-named passages.

- 5 3. A game-board provided with an inclosure having spots, another inclosure having a central circular depression or cavity, a passage connecting said inclosures, goals or cavities, other passages having a common entrance and
10 leading from said second-named inclosure into said goals and another goal or spot common to said last-named passages, in combination with balls, in two sets, differently marked for each of said first-named goals, and
15 a single ball, differently marked from the balls of either of said sets and adapted when placed on said goal in said passages, to prevent the passing of any other ball through either of said passages.

4. A game-board, provided with an inclosure 20 having spots, another inclosure having a central circular depression or cavity, a passage connecting said inclosures, goals or cavities, and other passages having a common entrance and leading from said second-named 25 inclosure into said goals, in combination with balls and a cover, arranged to fit said second-named inclosure and having ears to press against the walls of the same and to be retained therein by friction and to hold said 30 balls in said depression or cavity.

In testimony whereof I have affixed my signature in presence of two witnesses.

HENRY H. QUA.

Witnesses:

ALBERT M. MOORE,
MIRIAM S. QUA.