

(No Model.)

F. W. DAVENPORT.

PUZZLE OR TOY.

No. 277,120.

Patented May 8, 1883.

Fig. 1

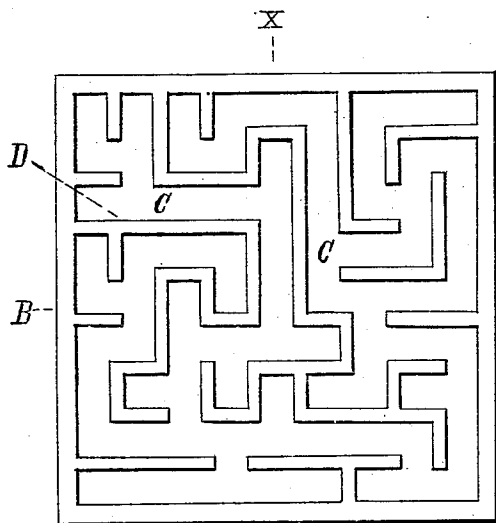


Fig. 2

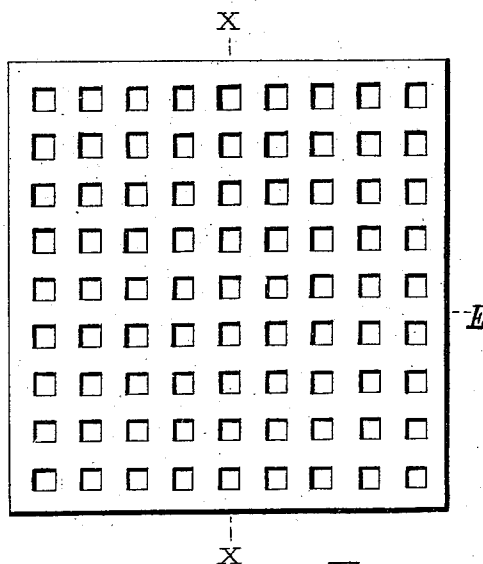


Fig. 3

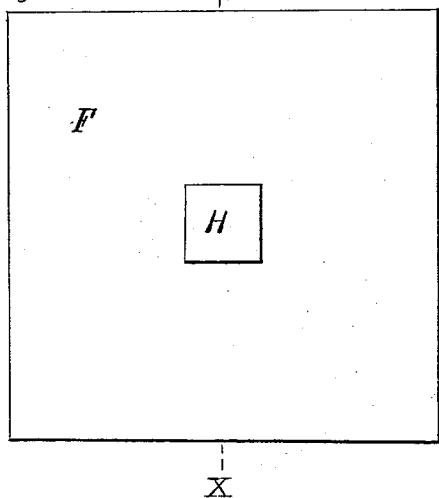


Fig. 5

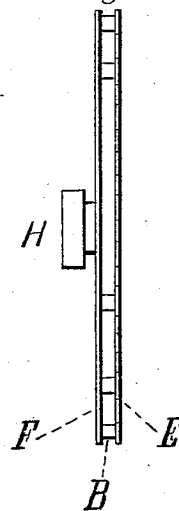


Fig. 4



Witnesses

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FRANK W. DAVENPORT, OF PROVIDENCE, RHODE ISLAND.

PUZZLE OR TOY.

SPECIFICATION forming part of Letters Patent No. 277,120, dated May 8, 1883.

Application filed September 19, 1882. (No model.)

To all whom it may concern:

Be it known that I, FRANK WINTHROP DAVENPORT, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a certain Puzzle or Toy, (the same never having been patented to myself, or to others with my consent or knowledge, in any country, and, according to my knowledge and belief, the same has not been in public use in the United States for more than two years prior to this application,) of which the following is a specification.

This invention relates to that class of puzzles in which a ball or its equivalent is rolled to some predetermined position, obstacles being so arranged as to make this difficult; and I do hereby declare that the following is a full, clear, and exact description of my invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, in which—

Figure 1 shows the interior construction. Fig. 2 shows the outside or face. Fig. 3 is the back. Fig. 4 is the button, and Fig. 5 is a cross-section taken through the line *x x*.

Similar letters refer to similar parts throughout the several views.

Fig. 1 represents a block, B, having formed therein grooves or channels C, arranged in complex order, so as to baffle the attempt to follow them to any objective point, said channels being adapted to receive and guide a moving button, ball, block, or similar article placed therein. The piece B may be formed by cutting channels in a solid block, by cementing partitions D upon a flat surface, or by striking up from any suitable material. I adopt the last-named method.

The button, Fig. 4, may be formed from any suitable material.

Fig. 2 shows the face-piece E, which may consist of a plain piece of glass or other transparent substance; or, if desired to make the puzzle more complicated, it may be partly obscured, as shown in this figure. In this case,

although not essential, it is desirable to have the opaque parts cover the partitions D, which separate the channels, so the direction taken by the button may not be readily seen.

It is obvious a piece of pasteboard or similar material having openings cut therein may be substituted for the glass, without in any manner altering the spirit of the invention, its object being to keep the button in the channels and enable its position to be seen.

Fig. 3 shows the back piece, F, which is a flat piece of pasteboard or similar material, preferably with a knob, H, rigidly secured to its center.

The several parts are put together, as shown in Fig. 5, by cementing the face-piece E upon the channeled side of the piece B, and the back piece, F, upon the other side, having first put a button, ball, block, or similar article in the channel.

The puzzle consists in taking the apparatus by the knob and twisting and turning it in various directions, so as to get the button into some predetermined position.

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

1. The combination of the channeled piece B, the button, Fig. 4, and the face-piece E, said face-piece being transparent.

2. The combination of the channeled piece B, the button, Fig. 4, and the face-piece E, said face-piece having openings showing the interior or parts thereof.

3. The combination of the channeled piece B, the button, Fig. 4, the face-piece E, and the back F.

4. The combination of the channeled piece B, the button, Fig. 4, the face-piece E, the back F, and the knob H, all arranged and operating substantially as and for the purpose set forth.

FRANK WINTHROP DAVENPORT.

Witnesses:

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