

(No Model.)

G. H. TAYLOR.
PUZZLE.

No. 507,667.

Patented Oct. 31, 1893.

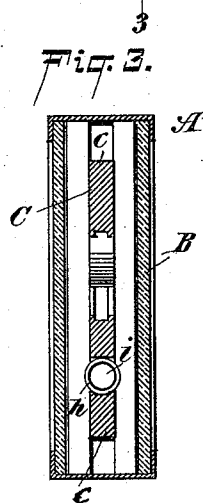
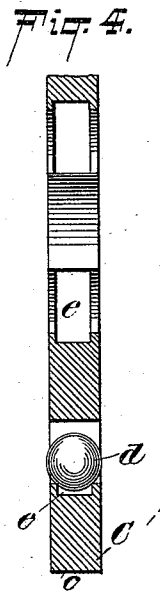
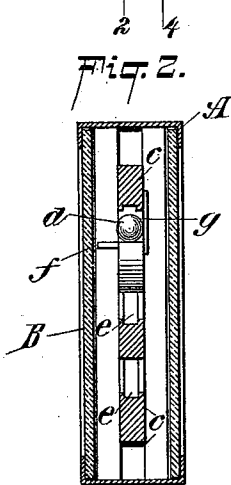
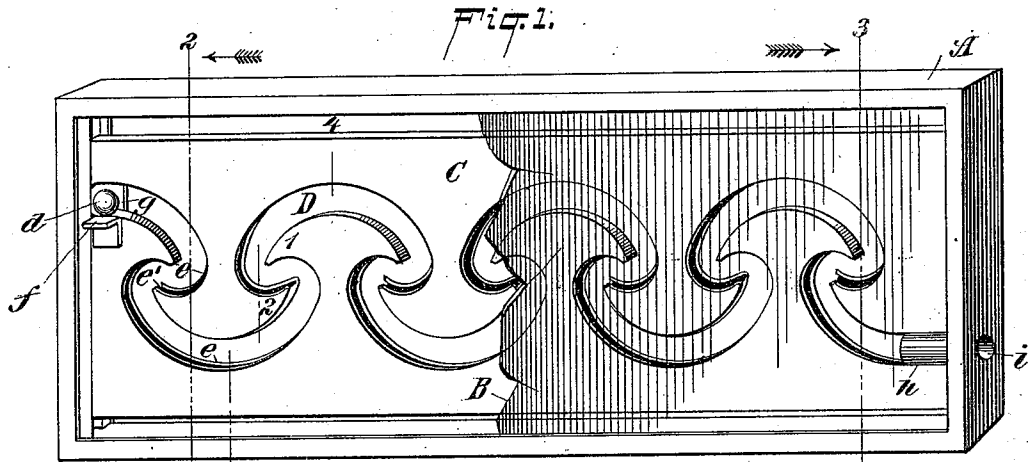
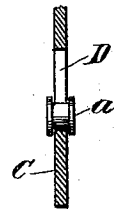
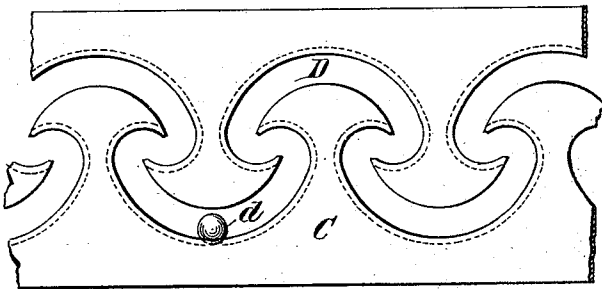


Fig. 5.

Fig. 6.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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PUZZLE.

SPECIFICATION forming part of Letters Patent No. 507,667, dated October 31, 1893.

Application filed August 31, 1892. Serial No. 444,620. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. TAYLOR, a citizen of the United States, residing at New York, in the county and State of New York, have invented a new and useful Improvement in Puzzles, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved puzzle. Fig. 2 is a section of the same on line 2—2 of Fig. 1. Fig. 3 is a section of my improved puzzle on line 3—3 of Fig. 1. Fig. 4 is a detailed section of the traversing plate on line 4—4 of Fig. 1. Fig. 5 is a plan view showing a portion of the plate with the roller in its track. Fig. 6 is a detail view showing a modified form of roller and traversing plate.

My invention relates to puzzles or games and consists in the novel arrangement and combination of parts hereinafter specified and specifically pointed out in the claims.

A is the main frame or casing which may be made of metal, wood or other suitable material. In this frame which is furnished on one or both sides with glass plates B, is mounted what I term a traversing plate C. This traversing plate is so held in the frame A that one or both edges *c* thereof will not come in contact with the frame A, and so that neither side thereof will come in contact with the plates and will leave sufficient space between for the roller *d* to readily pass from one side of plate C to the other; but the invention will also be operative, even if the plate C touches the frame A along all its edges. D designates a slot cut through the traversing plate and so shaped as to form some fanciful design, it being obvious that any suitable design might be used. In the design shown, the concave portions of the edge of the slot D are shown grooved as at *e* to form a slight track wherein the roller *d* is supported against a too ready lateral escape. At one end of the slot D is located within the frame A, a shelf or ledge *f*, which together with a short plate *g* placed on the opposite side of the plate C acts to catch and support the roller *d* in the initial position, as in Fig. 1. At the other end, the slot leads to an aperture *i* in the frame A, which may communicate with a short

tube *h*. It is obvious that I might omit the ledge *f*, short plate *g* and tube *h*, or that instead of using a grooved track as shown, I might use a plain one and groove the roller, as shown in Fig. 6, without departing from the spirit of my invention.

In the form shown, the successful operation of the puzzle would be as follows: The roller *d* being in the box, the latter is worked around until the roller rests upon the ledge *f*, when the entire device is slowly manipulated, tilted, reversed, &c., so as to cause the roller to travel within the slot D to the outlet *i*. The form of slot shown in the drawings furnishes resting places for the roller only on the concave portions. Hence the roller will have to drop across the slot, whenever it leaves one concave to get to another, as for example, whenever it is to pass from the point 1 to the point 2 (Fig. 1); but the form of slot or edge-like track may be infinitely varied. It requires considerable skill and a steady hand to keep the roller in the slot and to prevent it falling off to one side or the other.

The plate C may have series of slots and may even have a fancifully shaped edge or edges along which the roller can be caused to travel, and the plate alone without any framing would also furnish a satisfactory result.

What I have termed the plate C may be made of any suitable material, metal, wood, wire, or the like.

Having described my invention, what I claim is—

1. The combination of the frame A, traversing plate C, inclosed in said frame, tracks *e* on said traversing plate, entirely open on both sides and roller *d* adapted to be carried on said tracks *e*, substantially as described.

2. The combination of the frame A, slotted traversing plate C, tracks *e* entirely open on both sides formed by the slot D of said traversing plate C, and roller *d* adapted to run on said tracks *e*, substantially as described.

3. The combination of the glazed frame A, slotted traversing plate C the slot within said plate C being open on both sides, and roller *d* adapted to travel in the slot D of plate C, substantially as described.

4. The combination of the frame A, having opening discharge hole *i*, with the traversing

plate C, having slot D, unobstructed on both sides and with the ledge *f*, all arranged and adapted to operate substantially as described.

- 5 5. A puzzle, consisting of a plate C entirely open on both sides and having a fanciful edge or edges entirely open on both sides and adapted to receive a roller that can be caused to travel along said edge or edges, substantially as herein shown and described.
- 10 6. A puzzle, consisting of a box having transparent face plate or plates and containing

within it, at a distance from and out of contact with each of said face plates, a central plate C having fanciful edge or edges, all arranged to receive a roller that can be caused to travel along said edge or edges, substantially as herein shown and described. 15

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Witnesses:

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