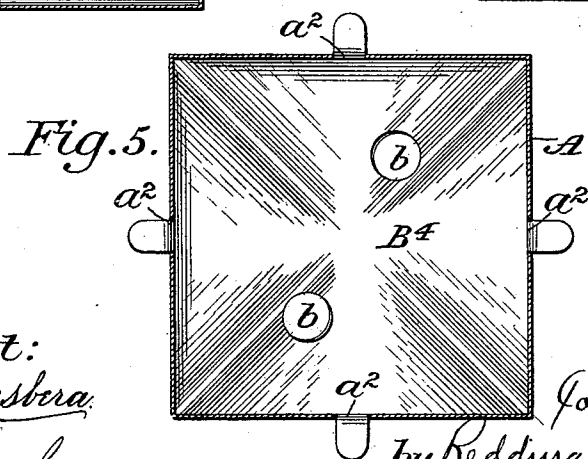
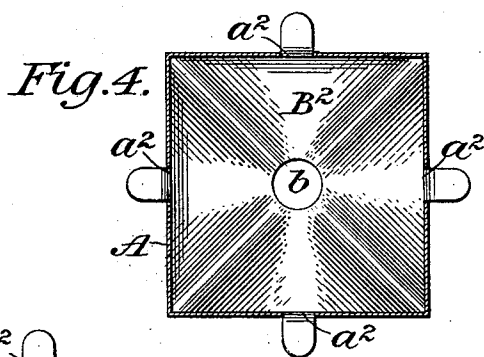
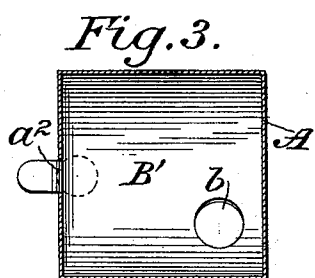
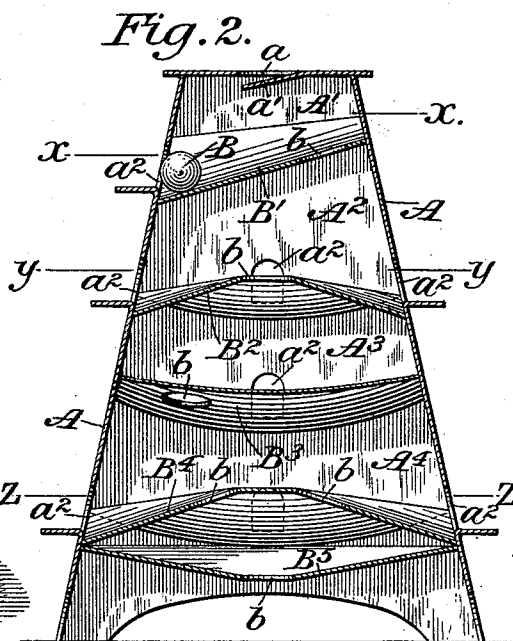
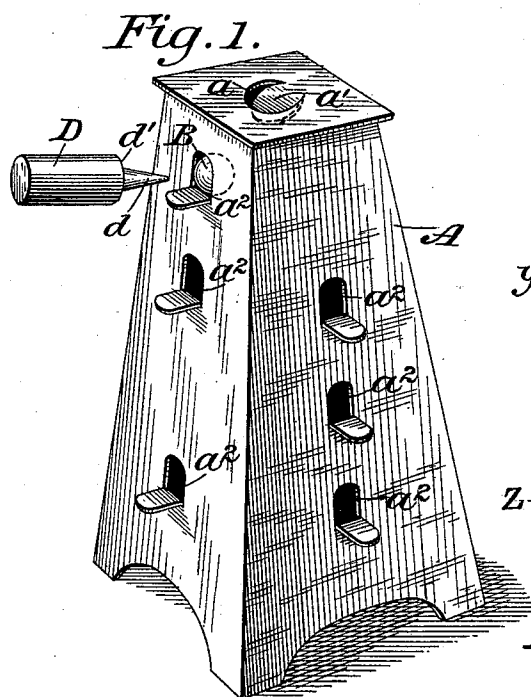


(No Model.)

J. ZWICK.
TOY OR PUZZLE.

No. 586,942.

Patented July 20, 1897.



Attest:

A. N. Jesbera.

F. M. Eggleston.

Inventor:

Joseph Zwick

by Redding, Kiddle & Greeley
Attys.

UNITED STATES PATENT OFFICE.

JOSEPH ZWICK, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND ANTHONY N. JESBERA, OF SAME PLACE.

TOY OR PUZZLE.

SPECIFICATION forming part of Letters Patent No. 586,942, dated July 20, 1897.

Application filed April 24, 1897. Serial No. 633,677. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH ZWICK, a citizen of the United States, residing in the city of New York, in the county and State of New York, have invented certain new and useful Improvements in Toys or Puzzles, of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof.

This invention relates to toys or puzzles of that class in which a movable body is made to pass, by skilful manipulation, from one compartment to another of an inclosure; and it has for its object to produce a novel device of this character which by reason of its novelty will afford amusement and entertainment and which will also call forth the exercise of care and skill in the accomplishment of the desired result.

The improved toy or puzzle comprises in general a box or casing which is divided into compartments by suitable partitions. Apertures are formed through the box or casing into each compartment and larger apertures are formed in each partition. A ball placed in one compartment and of such size as to pass through the apertures in the partitions, but not through the apertures in the outer walls, is struck by a suitable instrument introduced through the apertures in the walls and in this manner is made to pass from one compartment to another, the object being to make the ball pass through the entire series of compartments.

In the accompanying drawings, in which my invention is represented as embodied in a desirable form, Figure 1 is, a perspective view of the complete device, including an instrument with which the ball is to be struck or knocked. Fig. 2 is a vertical central section of the device, showing the ball in the upper compartment. Figs. 3, 4, and 5 are sectional plan views on the planes indicated by the lines $x x$, $y y$, and $z z$, respectively, of Fig. 2.

In the embodiment of the invention represented in the drawings the box or casing A is in the general form of a pigeon-coop and its interior is divided into a series of compartments A^1 , A^2 , A^3 , and A^4 by corresponding partitions B^1 , B^2 , B^3 , and B^4 . An aperture a is

formed, preferably, in the top of the box or casing to permit of the introduction of the ball or other movable body B, which represents the cat or other animal to be driven out of the coop. A flap a' is left to prevent extended observation of the upper compartment A^1 through the aperture a , as well as manipulation of the ball through said aperture. In the outer walls of each compartment are formed one or more apertures a^2 , which are of less diameter than the ball B, so that the ball cannot escape through them, although it may be exposed to view at each one. The partitions B^1 , B^2 , B^3 , B^4 are preferably neither perfectly horizontal nor perfectly flat, but are both bent and inclined. The upper partition B^1 , for instance, may be concaved and inclined downward toward the aperture a^2 in the wall of the compartment, while the aperture b in the partition itself is at substantially the highest point of the partition or near it, or at least is not at the lowest part nor at any point where the ball would naturally run into it when left to itself. The partition B^2 may be generally pyramidal with its aperture b at or near its apex. The partition B^3 may have a central ridge with an aperture b at one or both sides thereof. The partition B^4 may be generally pyramidal with apertures b in the sides thereof. It will be understood, however, that the partitions may be variously formed, it being desirable merely that they shall not be perfectly flat and that the apertures shall not be at the lowest points nor at such points that the ball or movable body B shall naturally roll into them. A guard-plate B^5 , having an aperture b , may be disposed below the lowest partition B^4 to protect the same and to prevent examination thereof.

The ball or other movable body B may be struck and knocked about by any suitable means, but I prefer such a device as that shown in Fig. 1 at D, which has a comparatively short point or portion d , adapted to enter freely the apertures a^2 , and back of it a shoulder or enlargement d' , which is too large to enter the apertures a^2 , thereby requiring the ball B to be moved about by striking or knocking and preventing it from being pushed to the aperture b in the partition.

The mode of use of my improved toy or puzzle will be readily understood. The ball or other movable body is introduced into the first compartment of the series and is then struck through the aperture a^2 in the wall of that compartment by the instrument D or by any other suitable means until it is made to pass through the aperture b in the partition. This is continued as the ball presents itself at the apertures of the successive compartments until it passes out from the last compartment.

It will be observed that my toy or puzzle is not only capable of affording much amusement, but it can be constructed at very little cost.

I claim as my invention—

1. A toy or puzzle comprising a box or casing, a series of partitions dividing said box or casing into compartments, and a movable body, the walls of the compartments having apertures through which the body may be struck but of less diameter than the body, and the partitions having apertures to permit the passage of the body through them, substantially as shown and described.

2. A toy or puzzle comprising a box or casing, a series of inclined and bent partitions dividing said box or casing into compartments, and a movable body, the walls of the compartments having apertures through which the body may be struck but of less diameter than the body and the partitions having apertures to permit the passage of the

body through them, substantially as shown and described.

3. A toy or puzzle comprising a box or casing, a series of partitions dividing said box or casing into compartments, and a movable body, the wall of the first compartment having an aperture to admit said body, the walls of the several compartments having apertures through which the body may be struck but of less diameter than the body and the partitions having apertures to permit the passage of the body through them, substantially as shown and described.

4. The combination with a box or casing, a series of partitions dividing said box or casing into compartments, a movable body, the walls of the compartments having apertures through which the body may be struck but of less diameter than the body and the partitions having apertures to permit the passage of the body through them, and a striker having a point to enter the apertures in the walls of the compartments and a shoulder of larger diameter than said apertures to limit the distance to which said point can enter the compartment, substantially as shown and described.

This specification signed and witnessed this 9th day of April, A. D. 1897.

JOSEPH ZWICK.

In presence of—

W. B. GREELEY,
F. M. EGGLESTON.