

(No Model.)

T. H. APGAR.
PUZZLE.

No. 504,823.

Patented Sept. 12, 1893.

Fig. 1.

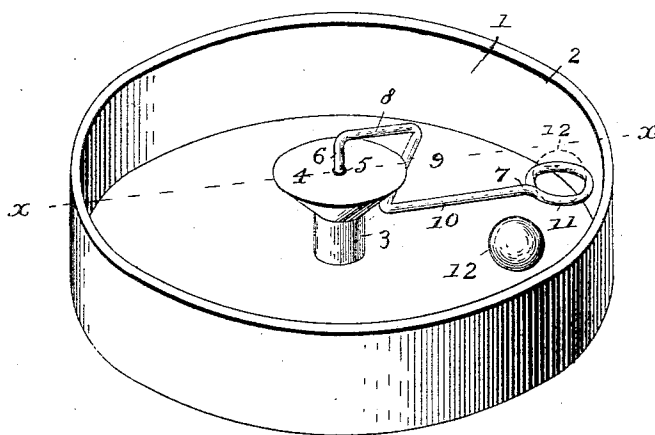
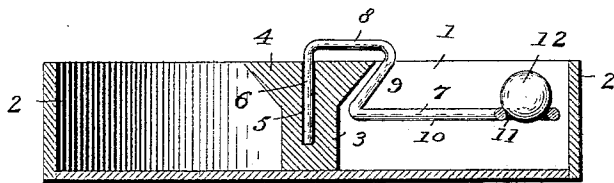


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

THEODORE H. APGAR, OF BOUND BROOK, NEW JERSEY.

PUZZLE.

SPECIFICATION forming part of Letters Patent No. 504,823, dated September 12, 1893.

Application filed March 9, 1893. Serial No. 465,315. (No model.)

To all whom it may concern:

Be it known that I, THEODORE H. APGAR, a citizen of the United States, residing at Bound Brook, in the county of Somerset and State of New Jersey, have invented a new and useful Puzzle, of which the following is a specification.

This invention relates to puzzles, or game apparatus of that class wherein a ball or other movable object is moved around a box from point to point by the manipulation of the said box to accomplish a lodgment of the said ball or other object within a movable support.

The object of the invention is to provide a device of the character set forth which shall be simple and novel and may be employed for the amusement of old or young persons and assist in the cultivation of a dexterity of movement of the hand and to steady the nerves thereof.

With this and other ends in view, the invention consists of the construction and arrangement of the parts thereof as will be hereinafter more fully described and claimed.

In the drawings: Figure 1 is a perspective view of a box and movable support, and a ball shown in full lines in the box and in dotted lines in position on the support. Fig. 2 is a transverse section on the line $x-x$, Fig. 1, showing the ball in position in the support. Similar numerals of reference indicate corresponding parts in the several figures of the drawings.

Referring to the drawings, the numeral 1 designates a box, preferably of circular form, having a surrounding vertically-disposed rim 2, and from the center of the bottom of said box rises a post 3, having an upper inverted conical head 4, and a central socket 5. Within the central socket 5 is movably mounted the inner vertical arm 6 of a support 7, the said support extending horizontally from the upper termination of the arm 6, as at 8, and then bent inwardly in a plane parallel with the side of the conical head 4, as at 9, and again extended in a horizontal plane, as at 10, radially from the post 3, with the terminating end thereof bent into circular form to provide a seat 11. This support 7 is preferably formed of wire, though other materials may be used if so desired. Within the box is placed a ball 12 of suitable material and

specific gravity, and of such size as to become seated in the end of the support 7 when the box is properly manipulated. By holding the box firmly in the hand and causing the ball to roll adjacent to the support 7, a sudden movement of the box is made to have the ball rise from the bottom of the box with the endeavor to place the same in the seat formed on the free end of the support. The movable condition of the said support requires a very quick and dextrous movement to cause the ball to drop into the seat 11, and will induce or cultivate a steadiness and accuracy of the hand as well as the nervous system thereof. This device also produces accuracy of the eyesight and combines an advantageous influence of the eye over the movement of the hand. In view of the fact that the support 7 is freely movable, and to prevent a disconnection of the same from the post 3, the inwardly-bent part 9 of the said support is provided, which, it will be observed, will obviate a disconnection of the said support from its supporting post.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having described the invention, what is claimed as new is—

1. In a device of the class described, the combination of a box or container, a movable seat arranged within said box above the floor thereof, and a loose ball or member normally supported upon the floor of the box and adapted to be arranged in said seat, substantially as specified.

2. The combination of a box or container, a seat-carrying support arranged within the box and capable of free movement, the seat being elevated above the floor of the box and preserving a uniform distance therefrom, and a loose ball or member normally supported upon the floor of the box and adapted to be arranged in said seat.

3. The combination of a box or container provided with a central vertical post, a support pivotally mounted upon said post and carrying a seat which is arranged above the floor of the box, and a loose ball or member

normally supported upon the floor of the box and adapted to be arranged upon said seat, substantially as specified.

4. In a device of the character set forth, the
5 combination of a box having a post vertically rising from the center thereof, and provided with a socket in the upper end thereof, and an inverted conical head, a support movably
connected to said post and having a part
10 thereof bent inwardly parallel with said inverted head to prevent disconnection thereof

from the said post, said support being provided with a seat at its outer end, and a ball adapted to be thrown into said seat of the support, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

THEODORE H. APGAR.

Witnesses:

W. H. ALPAUGH,

H. C. SUYDAM.