

(No Model.)

W. H. BURNETT.
PUZZLE.

No. 474,627.

Patented May 10, 1892.

Fig. 1.

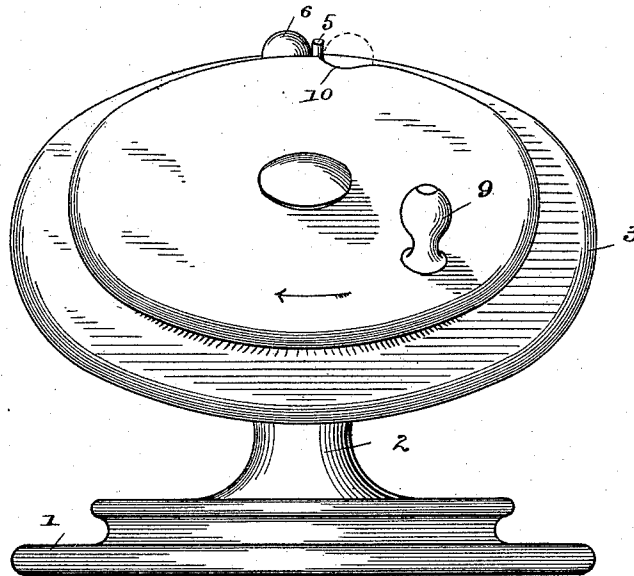
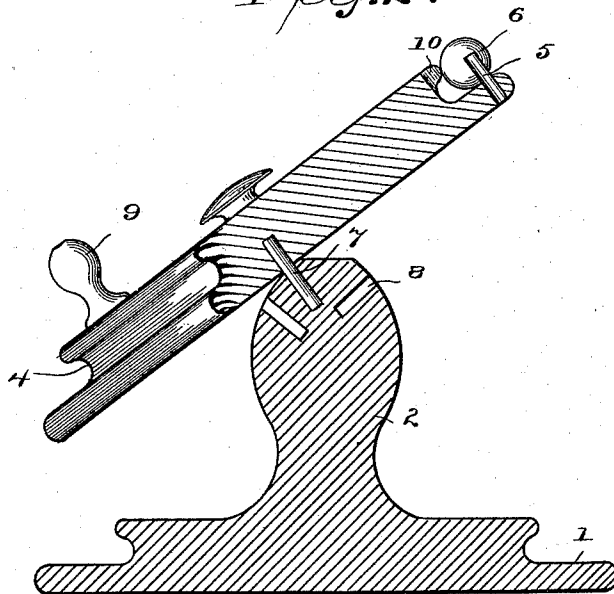


Fig. 2.



WITNESSES.

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UNITED STATES PATENT OFFICE.

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PUZZLE.

SPECIFICATION forming part of Letters Patent No. 474,627, dated May 10, 1892.

Application filed March 5, 1892. Serial No. 423,811. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BURNETT, a citizen of the United States, residing at Danbury, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Puzzles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its object to produce a simple and inexpensive puzzle which shall require a steady hand and considerable skill to operate and shall be sufficiently attractive to entertain both children and adults.

With these ends in view I have devised the novel puzzle which I will now describe, referring by numbers to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation of my novel puzzle, the parts being at the starting position; and Fig. 2 is a sectional view corresponding therewith.

My novel puzzle consists, essentially, of a base 1, a standard 2, made, preferably, in a single piece, as shown in the drawings, a disk 3, having a peripheral groove 4, a stop 5 in the groove, and a ball 6. The puzzle is to change the ball from one side of the stop to the other by simply rotating the disk. The disk is centrally pivoted upon a pin 7, which is adapted to engage either of a number of holes 8 in the standard. These holes are in planes oblique to the plane of the standard, it being apparent that the more nearly horizontal the pin is to the plane of the base the more nearly vertical will be the plane of the disk, and consequently the greater the liability the ball to roll off and the greater the difficulty of solving the puzzle. The disk is provided with a pivoted hand-piece 9 for convenience in manipulation and ordinarily with a depression 10 on the finishing side of the stop, in which the ball lodges when the puzzle is solved.

The operation is as follows: The ball is placed at the highest point in the groove on the opposite side of the stop from the de-

pression, as shown in the drawings. The disk is then moved slightly toward the right—that is, in the opposite direction from the arrow—to start the ball rolling, and is then rotated toward the left, as indicated by the arrow. The ball must not be allowed to roll off, but the disk must be so carefully manipulated as to keep the ball nearly at the top of the groove, but rolling toward the left, until the disk has been given an entire rotation, when the ball will lie in the socket on the opposite side of the stop, as indicated by dotted lines in Fig. 1.

It will of course be apparent that the details of construction may be greatly varied without departing from the principle of my invention.

I claim—

1. A puzzle consisting, essentially, of a standard, a pin extending obliquely therefrom, a disk pivoted on said pin and having a groove in its edge and a stop, and a ball lying in said groove and adapted to be passed from one side of the stop to the other by rotation of the disk.

2. A puzzle consisting of a standard having oblique holes near its top, either of which is adapted to receive a pin, a disk pivoted on said pin and having in its edge a groove, a stop in said groove and on one side of said stop a depression, and a ball adapted to be placed on the opposite side of the stop from the depression and to be moved into the depression by rotation of the disk.

3. A puzzle consisting of a base, a standard having oblique holes, a pin adapted to engage either of said holes, a disk pivoted on said pin and having in its periphery a groove, a stop in said groove, a pivoted hand-piece by which the disk is rotated, and a ball lying in the groove and adapted to pass from one side of the stop to the other.

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

WILLIAM H. BURNETT.

Witnesses:

A. M. WOOSTER,
L. H. HOYT.