

No. 791,994.

PATENTED JUNE 13, 1905.

C. P. AMENT.

PUZZLE.

APPLICATION FILED MAY 7, 1904.

FIG. 1.

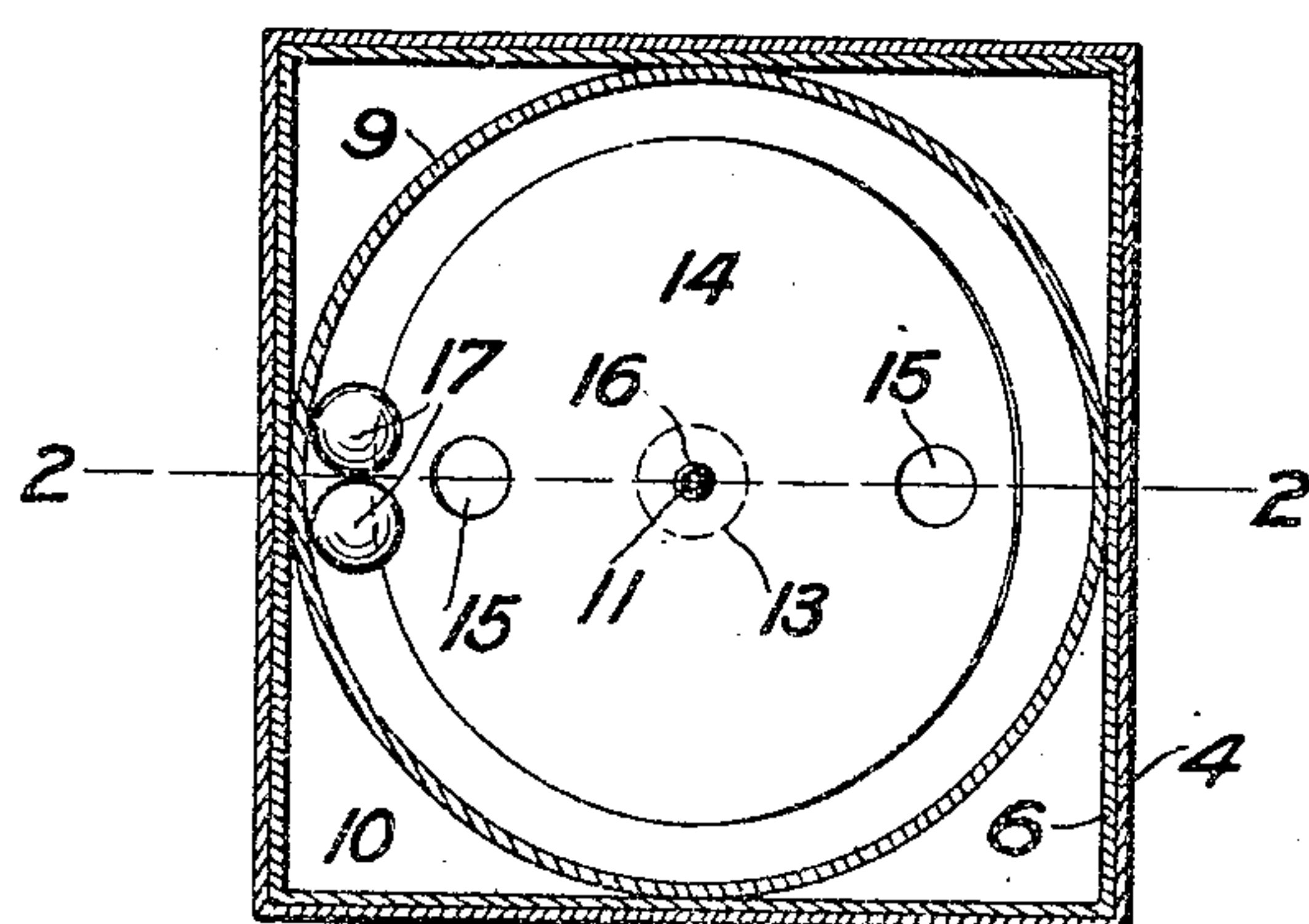
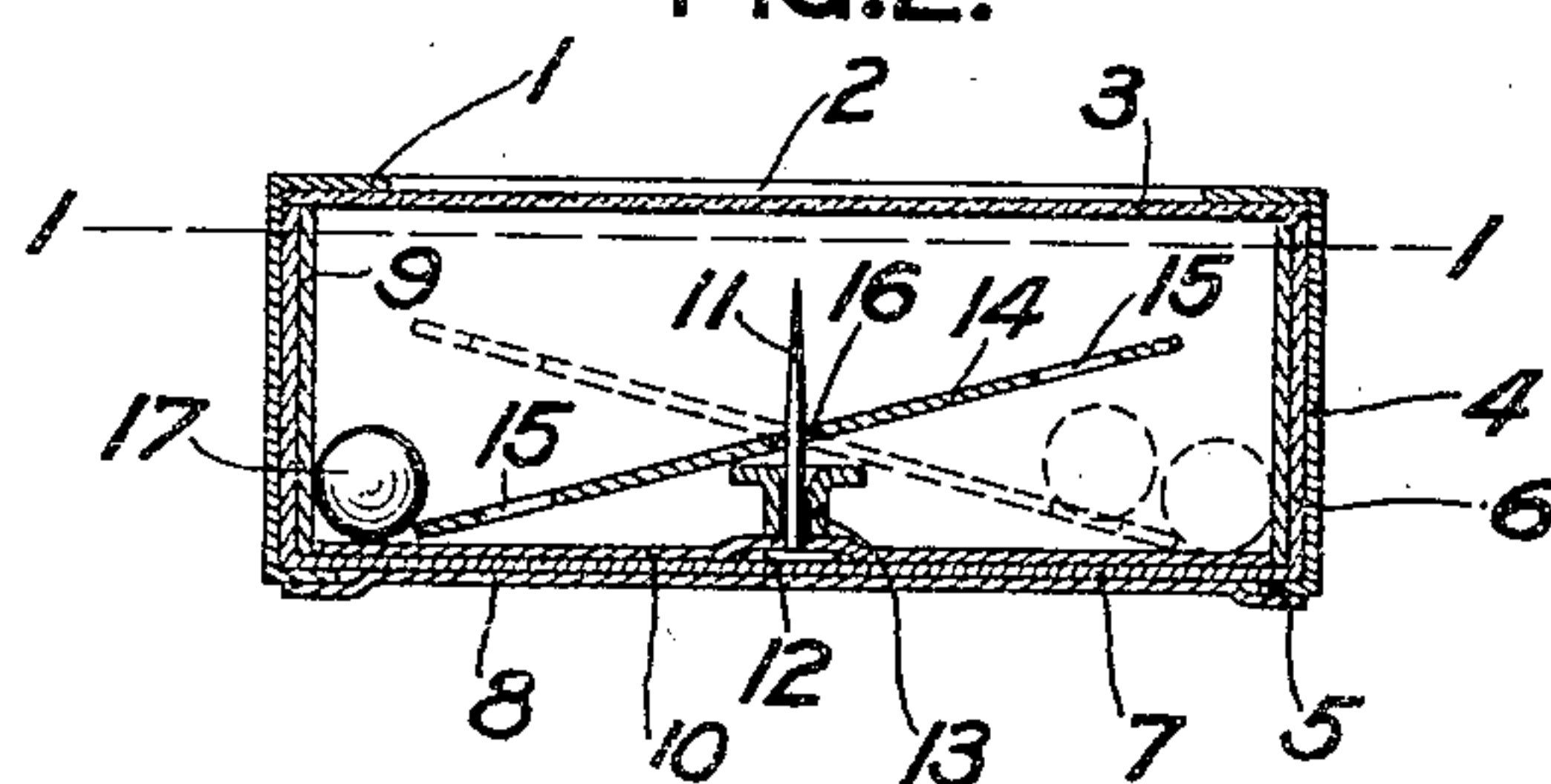


FIG. 2.



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UNITED STATES PATENT OFFICE.

CHARLES P. AMENT, OF ROCHESTER, NEW YORK.

PUZZLE.

SPECIFICATION forming part of Letters Patent No. 791,994, dated June 13, 1905.

Application filed May 7, 1904. Serial No. 206,905.

To all whom it may concern:

Be it known that I, CHARLES P. AMENT, a citizen of the United States, and a resident of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Puzzles, of which the following is a specification.

This invention relates to puzzles; and it consists in the apparatus hereinafter described and claimed.

In the drawings, Figure 1 is a horizontal section through a device embodying this invention on the line 1 1 of Fig. 2, and Fig. 2 is a vertical section through said device on the line 2 2 of Fig. 1.

The apparatus consists in a box having a transparent cover and within said box a tilting disk conforming to the interior contour of the box, having in it two recesses for balls, a support for the disk above the bottom of the box, and two balls in the box adapted to fit in said recesses.

In the drawings, 1 is the top cover of a box, having a perforation 2 and a transparent cover 3 for said perforation. It is preferred to make the cover 1 with downwardly-extending sides 4 and underlapping edges 5. Inside the cover 1 and its downwardly-extending sides 4 is the interior box, having the sides 6 and the bottom 7 and open on the top. The parts thus far described are put together by inserting the interior box in the cover and lapping the edges 5 under the edges of the bottom 7 and then fastening the outside cover-piece 8 over the whole of the bottom of the box and said edges 5. Inside the sides 6 is placed the circular box 9. Of course it is possible to make this box circular at first; but for strength and convenience in packing, &c., the square form is illustrated. A false bottom 10 is placed over the bottom 7, and through the center of said false bottom there projects upwardly a pin 11, having the enlarged head 12 between the false bottom 10 and the real bottom 7. When the false bottom is glued or fastened down upon the real bottom, the pin 11 is held in place. Upon the lower portion of said pin is set the flat-topped support, having the circular flange 13 at its upper end. Upon this circular flange rests the disk 14,

having the diametrically opposite holes 15. A perforation 16 through the center of said disk fits around the pin 11. Balls 17 are placed inside the circular wall 9 and are of such size that when resting against said wall they extend over the edge of the disk 14 and press it downward. It will be noted that when the disk 14 is tilted the fulcrum upon the flange of the support 13 is changeable, so that the portion of said disk from its point of contact with the bottom to its point of support upon the edge of the flange of the support 13 is shorter than from said point of support to the diametrically opposite edge of said disk. This constantly tends to tilt the disk so as to bring it back to the horizontal position to lie flat upon the flange 13 of the support.

The holes 15 may be cups or sockets or any other means of retaining a ball in the position occupied by said holes 15.

The disk 14 is preferably flat, as shown; but the edges of the disk may be lower than the point of support. By carefully manipulating the two balls 17 they may be deposited one in each socket or hole 15.

It is not intended to limit this invention to the employment of a circular disk or to a circular box.

What I claim is—

1. A box having a transparent cover, a disk in said box conforming to the interior contour thereof and having a series of sockets, a support under the center of said disk having a flat top, whereby the disk is adapted to tilt in all directions on the edge of said top, and a series of balls in said box the same in number as said sockets.

2. In a puzzle, a box having a transparent cover, a disk conforming to the interior shape of said box and having two oppositely-arranged sockets, two balls in said box, a pin extending upwardly from the center of the bottom of said box, and through said disk, and a flat-topped support for said disk around said pin.

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Witnesses:

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