No. 714,421.

Patented Nov. 25, 1902.

G. O. WILLEY.
PUZZLE.

(Application filed Nov. 22, 1901.)

(No Model.)

Fig. 1.

C B

Fig. 2.

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United States Patent Office.

GEORGE O. WILLEY, OF LYNN, MASSACHUSETTS.

PUZZLE.

SPECIFICATION forming part of Letters Patent No. 714,421, dated November 25, 1902.

Application filed November 22, 1901. Serial No. 83,342. (No model.)

To all whom it may concern:

Be it known that I, GEORGE O. WILLEY, of Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Puzzles, of which

the following is a specification.

This invention has for its object to provide a puzzle of the class in which a cup or socket is employed and a ball or similar object to adapted to rest in the cup, the object of the puzzle being to so manipulate the apparatus as to lodge the ball in the cup and the construction being purposely such that some difficulty is experienced in the operation.

The invention consists in the improvements which I will now proceed to describe and

claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a view of a device embodying the puzzle in elevation, and Fig. 2 represents a vertical sectional view of the same.

The same reference characters indicate the

same parts in both the figures.

My invention is embodied in a device comprising a cup C, which, as here shown, is of elongated form and approximately tubular, having an open mouth at its upper end, which is somewhat enlarged, and secured at its lower on to the base of the device. The tubular cup is inclosed within a casing A, which is shown as being transparent and is of such form as to allow considerable room for the passage of one or more balls B, which are also inclosed within the casing and which are free to pass to all parts of the inclosed space.

The object of the puzzle is to induce the balls by tipping, shaking, inverting, or other40 wise manipulating the device to lodge within

the cup.

The lower portion of the cup is closed or contracted to prevent the escape of the balls through the base, so that in case one ball is caused to lodge in the cup, the other remaining outside the cup, the operator is confronted with the problem of so manipulating the de-

vice as to avoid dislodging the lodged ball, while inducing the other ball to lodge in the

cup.

The casing A, as here shown, is pear-shaped, with the broader portion at the upper part of the casing and the lower part narrowed, so that at the base or point of connection of the casing and cup there is sufficient room to 55 contain the balls, but not to allow much movement thereof, excepting in a lateral direction, while at the broader upper part of the casing the balls may move freely in all directions.

The cup and casing are preferably both 60 made of glass and may be blown or other-

wise formed integral with each other.

I claim—

1. A puzzle comprising a transparent casing, a cup within the casing and fixed to its 65 base, a contracted annular space being formed between the base of the cup and the casing, the cup having an open mouth at its upper end, and a plurality of balls movable freely within the casing and adapted to lodge in the 70 cup, the said cup being closed or contracted at its lower portion to prevent the escape of the balls through the base, whereby the balls are obliged to enter and leave the cup through its mouth.

2. A puzzle comprising a transparent casing, a cup within the casing and fixed to its base, a contracted annular space being formed between the base of the cup and the casing, the cup having an open mouth at its upper 80 end, and a plurality of balls movable freely within the casing and adapted to lodge in the cup, the parts being so arranged that the balls, in order to enter the cup, must pass directly from a relatively distant part to the 85 mouth of the cup, without the aid of an intermediate guiding-surface.

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

GEORGE O. WILLEY.

Witnesses:

A. D. HARRISON, GEORGE PEZZETTI.