

No. 735,269.

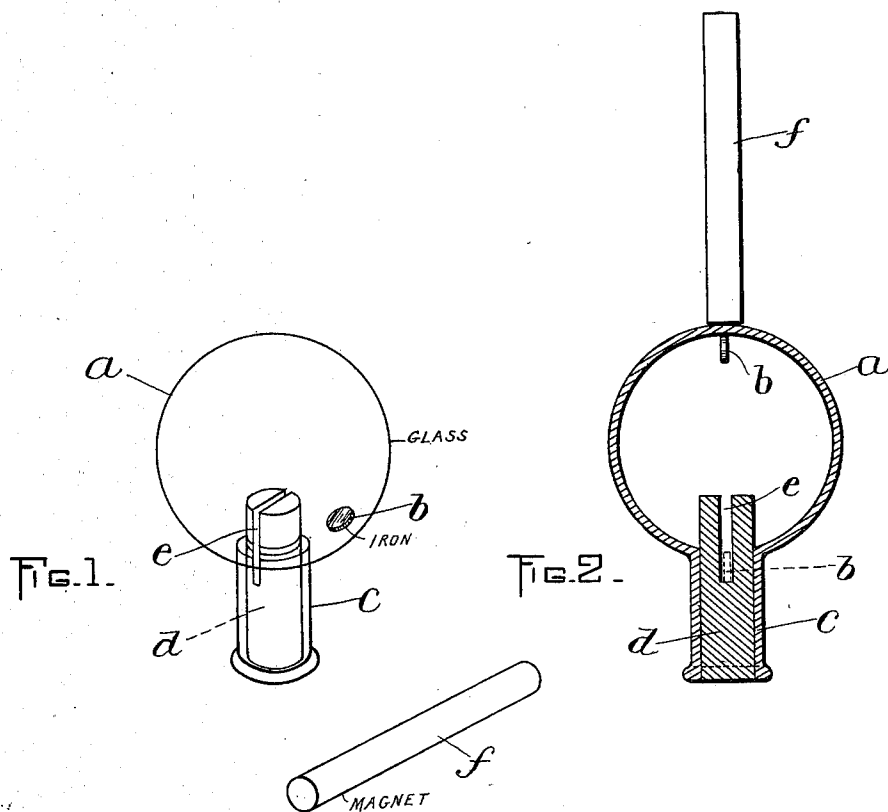
PATENTED AUG. 4, 1903.

T. K. KEITH.

PUZZLE.

APPLICATION FILED DEC. 1, 1902.

NO MODEL.



WITNESSES:

E. Batchelder
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UNITED STATES PATENT OFFICE.

THOMAS K. KEITH, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO GEORGE A. STICKLES, OF BOSTON, MASSACHUSETTS.

PUZZLE.

SPECIFICATION forming part of Letters Patent No. 735,269, dated August 4, 1903.

Application filed December 1, 1902. Serial No. 133,318. (No model.)

To all whom it may concern:

Be it known that I, THOMAS K. KEITH, of Boston, in the county of Suffolk 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 novel and entertaining puzzle; and it consists in the improvements hereinafter described and claimed.

Of the accompanying drawings, forming a part of this specification, Figure 1 is a view showing my improved puzzle, the parts being separated. Fig. 2 represents the puzzle in operation, the metal disk hereinafter described being shown as suspended from the upper portion of the casing ready to be dropped to its final position within the slot, indicated by dotted lines.

The same reference characters indicate the same parts in both the figures.

In the drawings, *a* represents an inclosing casing or holder which is preferably transparent, and *b* represents a small piece or disk of steel or other metal which is sensitive to magnetic attraction, the said disk being free to move in all directions within the casing. As here shown, the casing is spherical in general form and is provided with a tubular extension *c*, forming a handle for the device, closely fitting which is a plug *d*. One end of the plug projects within the casing and is provided with a longitudinal slot or pocket *e* of suitable dimensions to receive the disk *b* when the latter is inserted edgewise. The location of the slot is such that when the holder or casing is in an upright position with the slot-containing plug at the lowest point and the metal disk is suspended by its edge from a point in the casing directly over the slot the disk may be dropped into the slot.

f represents a magnet, here shown as a straight rod or bar of steel. When the magnet is placed against the outer surface of the casing in close proximity to the disk *b*, which is within the casing, the attraction exerted by the magnet will cause the disk to remain at any desired point upon the inner surface of the casing corresponding to the position of the magnet or to move along the inner sur-

face of the casing when the magnet is correspondingly moved, and by tipping or otherwise manipulating the device the magnet may be caused to hold the disk either flatwise, resting with substantially the whole of its periphery against the inner surface of the casing, or edgewise, suspended by a single point on its periphery from the interior of the casing.

In solving the puzzle the magnet is held against the outside of the casing in the vicinity of the disk *b* until the disk responds to the attraction of the magnet. The magnet is then moved slowly along over the casing, and the disk follows it until the disk is at a point directly opposite the open mouth of the slot *e*. The device is then turned or inclined with the disk held at said point until the disk is free from the interior of the casing excepting at one edge. The device is further manipulated until the disk is in such position that its plane coincides with that of the mouth of the slot. The magnet is then gently withdrawn, and the disk drops into the slot.

It will be seen that the operation of the device affords an opportunity for the exercise of considerable care and ingenuity and that the whole forms a very attractive and entertaining puzzle.

In the preferred construction the casing is made of glass, and the tubular extension is also of glass and formed integral with the spherical portion, and the plug *d* is made of wood. The parts may be differently constructed, however, the extension *c* being, if desired, made of sheet metal or other suitable material and the plug *d* of any convenient substance. The part *b* is hereinbefore referred to as a disk; but although I prefer to make it of the circular form shown it is evident that it may be made in any convenient or ornamental shape without departing from the spirit of my invention.

I claim—

1. A puzzle comprising a casing having an extension or handle, a plug within said extension having a slot, and a disk adapted to enter and leave the slot.
2. A puzzle comprising a casing having a plug-receiving extension, a plug within said

extension, a slot in said plug accessible from the interior of the casing, and a disk movable within the casing and adapted to enter and leave the slot.

- 5 3. A puzzle comprising a casing having an integral tubular extension, a plug within said extension having a longitudinal slot the open end of which is within the casing, a metal disk movable within the casing and adapted

to enter and leave the slot, and a magnet outside the casing.

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

THOMAS K. KEITH.

Witnesses:

C. F. BROWN,

E. BATCHELDER.