(No Model.)

# W. H. FITLER.

## GAME PUZZLE.

No. 432,483. Patented July 15, 1890.

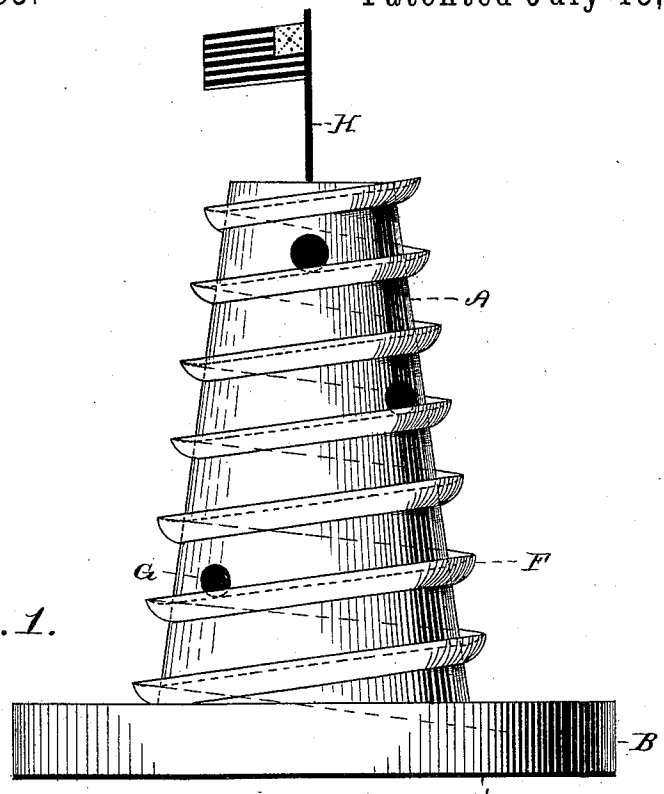



Fig. 1.

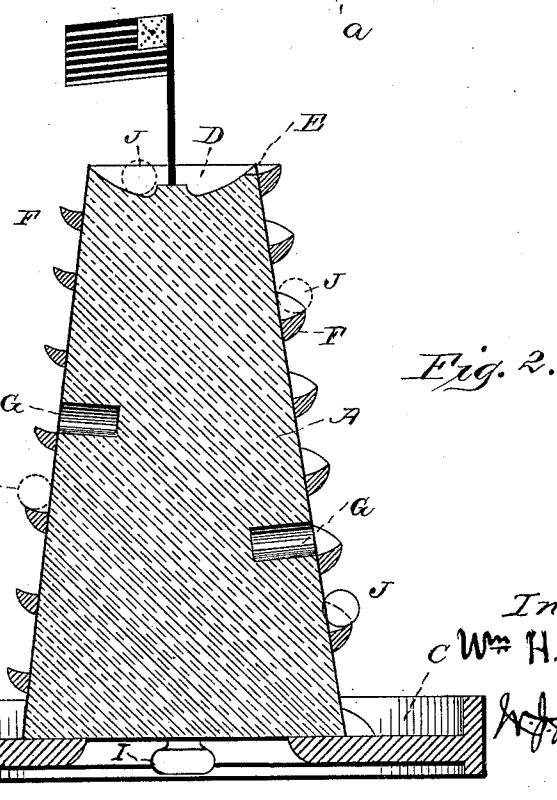



Fig. 2.

Witnesses
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# UNITED STATES PATENT OFFICE.

WILLIAM HENRY FITLER, OF SAYRE, PENNSYLVANIA.

## GAME-PUZZLE.

SPECIFICATION forming part of Letters Patent No. 432,483, dated July 15, 1890.

Application filed January 30, 1890. Serial No. 338,689. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM HENRY FITLER, a citizen of the United States, residing at Sayre, in the county of Bradford and State of Pennsylvania, have invented certain new and useful Improvements in Game-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.

This invention has relation to game-puzzles; and it consists in the construction and novel arrangement of parts, as hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the appended claims.

The object of my invention is to produce an amusing game-puzzle, whereby a leaden ball is caused to travel up a helical way or path constructed on the outside of a tower having windows without allowing the ball to fall off or into one of the windows.

In the drawings, Figure 1 is a side view of my improved game-puzzle; Fig. 2, a vertical section of same.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in both the figures, A designates a tower constructed of any suitable material, but preferably of wood, and made conical, as shown, and has secured at its base a suitable support *a*, circular in form, and somewhat larger than the base of the tower, and has formed around its periphery a vertical flange B, which forms an alley-way C between the flange and the tower. At the apex of the tower is formed a cup-shaped recess D, and provided at its outer edge with a channel-way E.

F designates a helical way or path secured on the outside of the tower and extends from its base to the channel-way E at the apex of the tower, and, as will be noticed, the upper face or bed of the way or path is slightly curved downward and inward to throw the ball, as hereinafter explained, against the side of the tower. At suitable points in the tower are formed circular openings or windows G, their lower edges being flush with the bed of the way or path, as shown, and slant inward at right angles to the slope of the tower. The tower has rising from its apex a rod or shaft H, and has secured under its base a suitable manipulating-knob I.

In operating my puzzle I employ a leaden ball J, the greatest width of diameter of which falls just inside of the outer edge of the way or path.

To accomplish the puzzle, proceed as follows: Place the leaden ball in the alley-way at the base of the tower; take hold of the knob under the base of the tower with the right hand, and the rod or staff at the apex with the left hand; turn the tower by means of the knob until the leaden ball starts on the way or path; continue to turn the tower by the knob until the leaden ball reaches the channel-way, when it will readily enter the recess at the apex of the tower, and at all times keep the ball in front of you. Great care must be taken in passing the windows that the ball does not enter them.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a game-puzzle, the combination, with the tower having at its base an alley-way, of a helical way or track extending from its base to its apex, and windows or openings in the tower flush with the bed of the way, substantially as described.

2. In a game-puzzle, the combination, with the tower having at its base an alley-way, a helical way or path extending from its base to its apex, the windows in the tower flush with the way or track of the recess at the top of the tower, and a channel-way connecting the helical way with the recess, for the purpose specified.

3. In a game-puzzle, the combination, with the conical tower having at its base an alley-way, the helical way or track extending from its base to its apex, the recess in the apex of the tower, and a channel-way leading from the way or track to the recess, of the windows or openings in the side of the tower flush with the upper face of the helical way, the manipulating-knob at the base of the tower, and the staff or rod rising from the apex, substantially as described.

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

WILLIAM HENRY FITLER.

Witnesses:
JAY D. MUNN,
LEWIS J. FITLER.