

(No Model.)

W. G. ADAMS.
PUZZLE.

No. 554,565.

Patented Feb. 11, 1896.

Fig. 1.

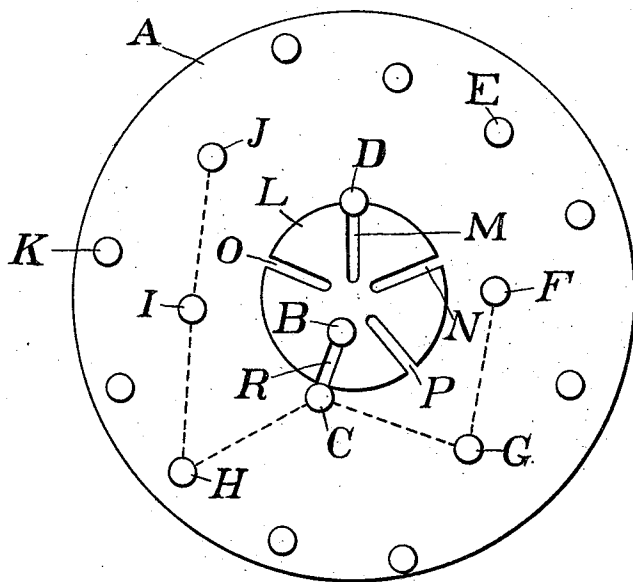


Fig. 2.

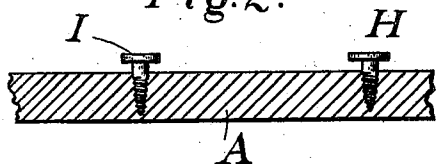
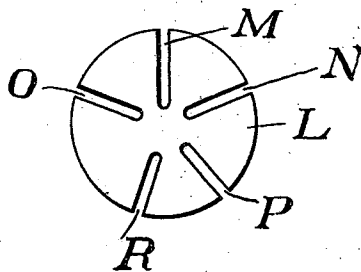


Fig. 3.



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PUZZLE.

SPECIFICATION forming part of Letters Patent No. 554,565, dated February 11, 1896.

Application filed August 24, 1895. Serial No. 560,395. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM GEORGE ADAMS, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Puzzles; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to puzzles, and has for its object the entertainment and amusement of those who attempt its solution.

My invention consists of a base-plate studded with headed pins or screws arranged in accordance with a predetermined plan, and an auxiliary plate having radial recesses less in width than the heads of the pins and capable of movement among them by causing the recesses to engage the pins, the problem being to separate the two plates from a given position of engagement and to re-establish their original connection without directly lifting one from the other or forcing them apart.

In the accompanying drawings, wherein like letters represents like parts in the several views, Figure 1 represents a plan view of my invention, showing the usual form of the two plates and pin-heads. Fig. 2 shows a vertical section of a portion of the base-plate, a side view of the pins or screws, and one mode of connecting the two parts. Fig. 3 represents the auxiliary or traveler plate and shows the relative length and position of the recesses as the piece is usually constructed.

Referring to Fig. 1, A represents the base-plate studded with headed pins of similar construction. Those pins represented by the letters B, C, D, E, F, G, H, I, J and K being so marked for purposes of this explanation.

Referring to Fig. 2, the pins are shown as pointed screws having plain heads. The base-plate being wooden, it will be understood that the screws can be taken out and inserted at other points upon the plate, thereby varying the problem to be solved. I do not, however, limit myself to the particular construction just described. Any suitable material may

be selected from which to fashion the two plates, and the pins may be driven into the base-plate and permanently secured thereto in any convenient manner. It is also within the scope of my invention to provide the base-plate with sockets, situated as desired, wherein the pins may be inserted in varying combinations with relation to the form and possible movement of the auxiliary plate.

Referring to Fig. 3, L represents the auxiliary plate provided with radial recesses M, N, O, P and R. I may conclude to change the form of plate L and modify the extent and arrangement of the recesses. As usually constructed, however, the plate L is approximately circular. M represents the longest recess, and N, O, P and R the remaining recesses, each less than its predecessor in length. Any convenient thickness of material can be used, and the heads of the pins should be sufficient in diameter to prevent accidental separation of the plates. The recesses readily receive the pins and pass beneath the heads thereof.

The operation of my invention is as follows: Move the plate L from the position shown by Fig. 1, causing recess M to engage pin D. Swing plate L about until recess P engages pin E, thence until recess O engages pin F, thence until recess N engages pin D, thence until recess R engages pin E, thence until recess M engages the pin F, thence until recess P engages the pin D, thence until recess O engages the pin E, and thence until recess N engages the pin F. The plate L may now be moved along the dotted line of Fig. 1, the recess R engaging the pin G, the recess N engaging the pin C, the recess R engaging the pin H, the recess M engaging the pin I, and the recess P engaging the pin J. The final step is to bring recess M into engagement with the pin J. This is accomplished by swinging the plate L until the recess M engages the pin D, thence until the recess R engages the pin J, thence until the recess N engages the pin D, thence until the recess O engages the pin J, thence until the recess P engages the pin D, and thence until the recess M engages the pin J. The plate L may now be turned upon the pin J, passed between the pins J and K, and separated from the base-plate A.

An exact reversal of the movements above

described will restore the plate L to its original position at the center of base-plate A.

Having thus sufficiently described my invention, what I claim, and desire to secure by Letters Patent, is the following:

1. A puzzle consisting of a base-plate, headed pins adapted to be placed in separable connection with the base-plate, the said base-plate being capable of receiving said pins, and an auxiliary or traveler plate provided with recesses from the edge differing in length and of such width as to admit the pins, said recesses being less in width than the heads of the pins, substantially as set forth.

2. A puzzle consisting of a base-plate pro-

vided with projecting headed pins arranged as herein shown and described, an auxiliary plate, L, having recesses of different length and less in width than the diameters of the pin-heads, and adapted to be moved about and among said pins, the direct separation of said plates being prevented by said pin-heads, substantially as and for the purposes set forth.

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

WILLIAM GEORGE ADAMS.

Witnesses:

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