

(No Model.)

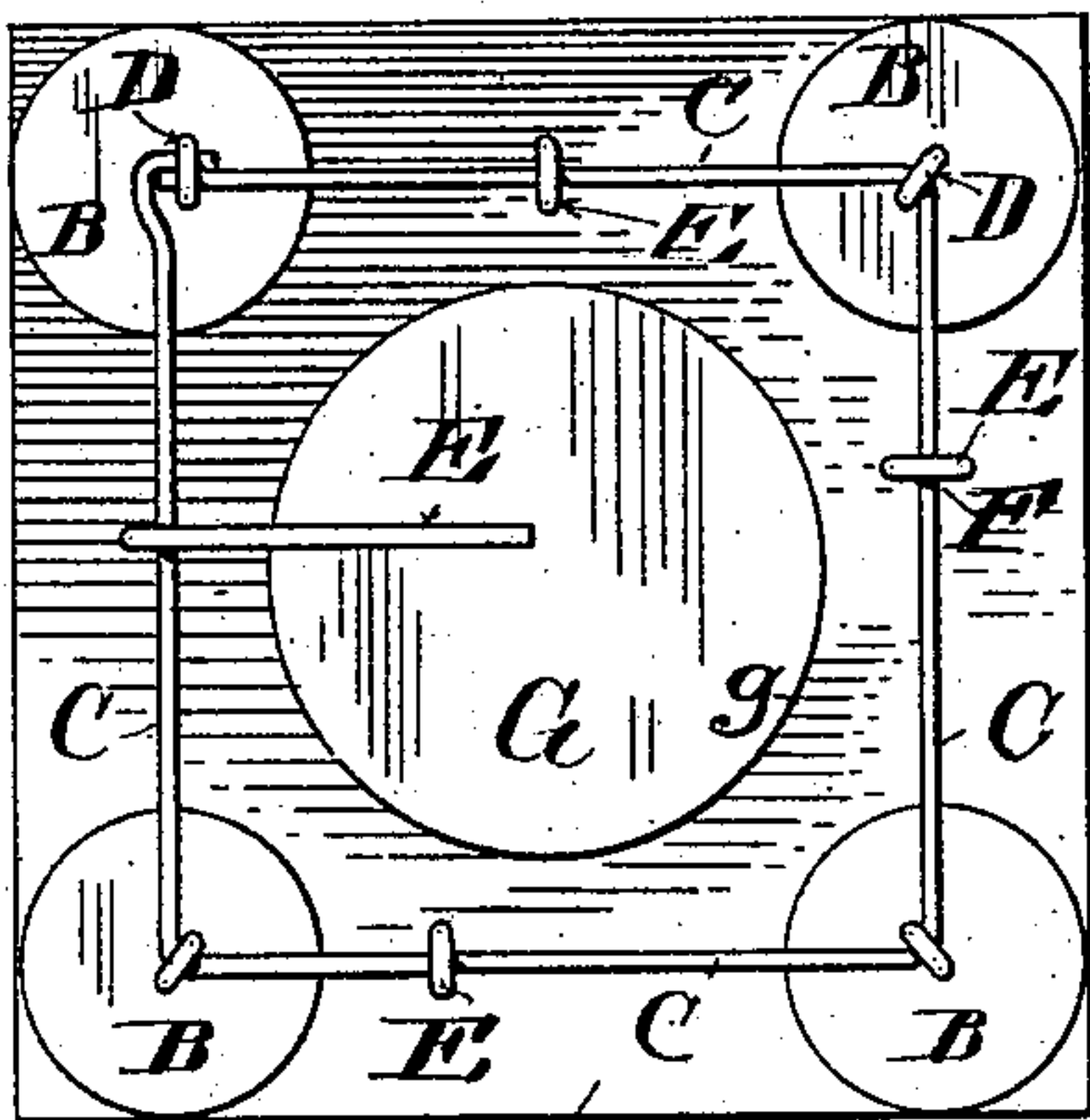
F. O. RICH.
PUZZLE.

No. 564,161.

Patented July 14, 1896.

Fig. 1.

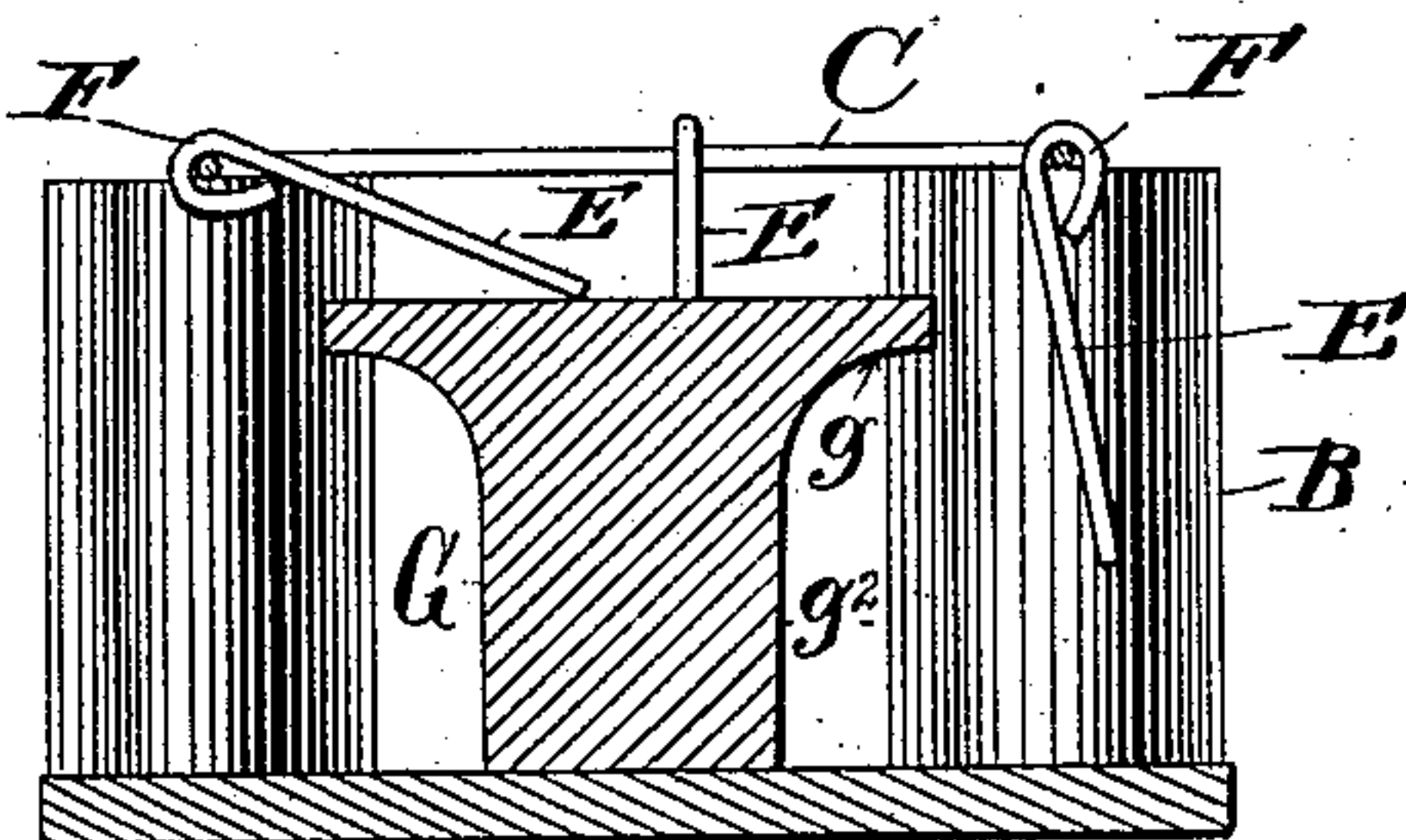
2



A

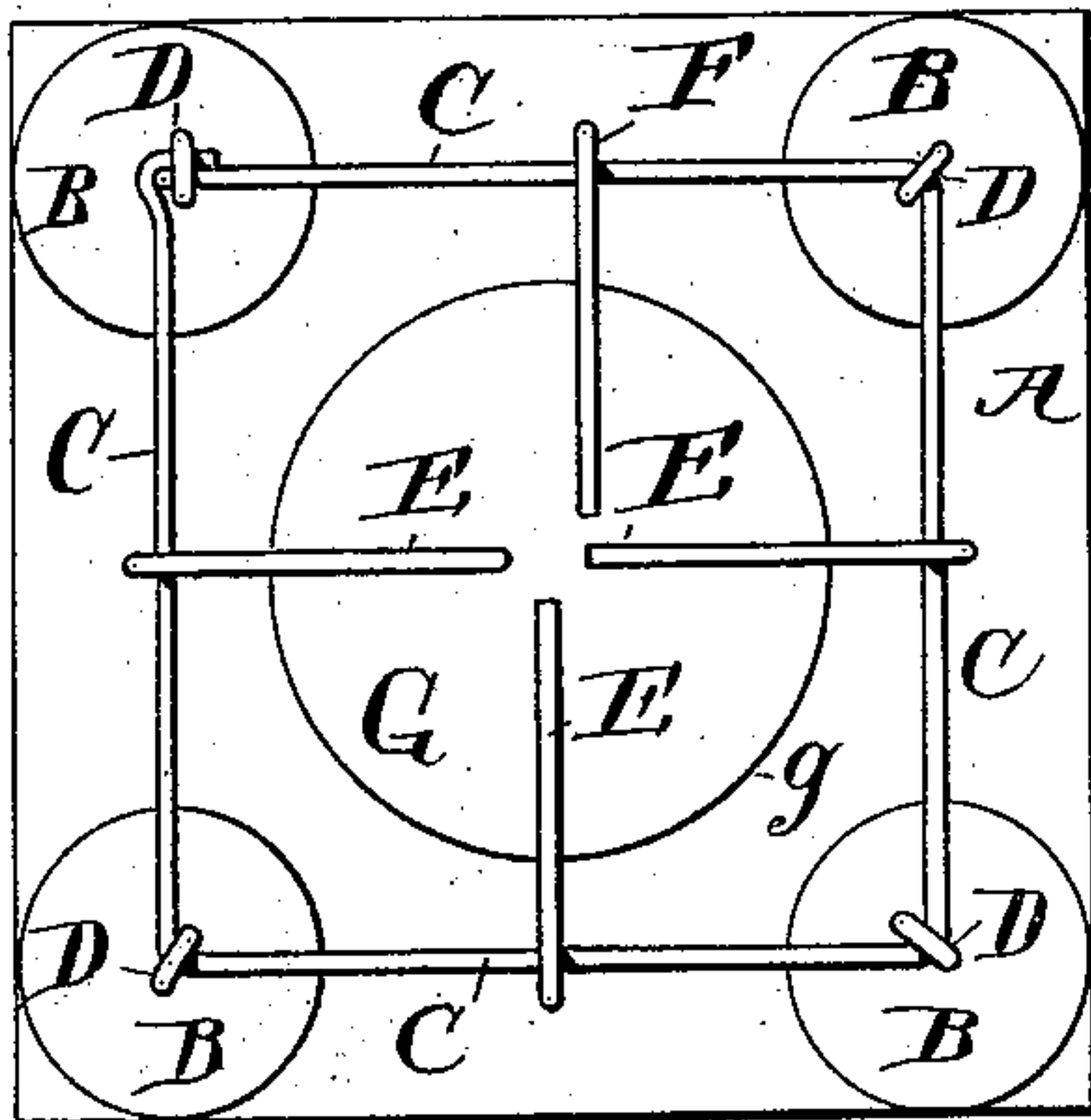
Fig. 2.

B



A

Fig. 3.



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FREDERICK O. RICH, OF BROOKLYN, NEW YORK.

PUZZLE.

SPECIFICATION forming part of Letters Patent No. 564,161, dated July 14, 1896.

Application filed September 27, 1895. Serial No. 563,814. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK O. RICH, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Puzzles, of which the following is a specification.

The object of my invention is to provide a puzzle having a plurality of movable arms or members which are adapted to be brought into certain relative positions by a manipulation of the entire device without moving said arms or members to such positions by the direct action of the hand.

The invention consists in a puzzle comprising a plurality of movable arms or members, means for supporting said arms or members so that they can move in various directions, and an anvil or rest to receive said arms or members when the puzzle is solved.

The invention also consists in the novel details of improvement and the combinations of parts that will be more fully hereinafter set forth, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part hereof, wherein—

Figure 1 is a plan view of my improved puzzle, showing one of the movable arms or members in the central position. Fig. 2 is a cross-section thereof on the plane of the line 2 2 in Fig. 1, and Fig. 3 is a plan view showing the relative positions of the parts when the puzzle is solved.

Referring now to the accompanying drawings, in which similar letters of reference indicate corresponding parts in the several views, the letter A indicates a suitable base or board, which may be made rectangular, as in Figs. 1 and 3. Upon the base or board A are posts or supports B, preferably placed at the corners of said base and rising above the same a suitable distance, as shown. From one post B to the next extends a bar or support C, which bars are shown as following the outline of the base, there being four posts B and four bars C shown in the drawings; but the number of these posts and bars may be varied to suit the requirements. I have shown the bars or supports C as all made from a single piece of wire bent to the desired form to rest on the posts B and held thereon by staples D, the bars thus being in the form

of a rectangle corresponding to the outline of the base A in the example illustrated; but the arrangement of the posts and bars may be varied to suit requirements.

E E are movable arms or members pivotally carried on the bars C, as by eyes F at one end of said arms or members, through which eyes said bars C pass. (See Fig. 2.) The arms or members E may be made of wire, the eyes F being bent therefrom, as shown, and said eyes are quite large, so that said arms or members E can have free movement in all directions upon said bars C.

Centrally between the bars C and upon the base A is located an anvil or rest G, upon which the free ends of all the arms or members E can rest, as in Fig. 3. The upper surface of the anvil or rest G is preferably below the plane of the bars C, and the upper edges of the anvil preferably extend outwardly beyond the stem portion g^2 , as shown in Fig. 2, so that the free ends of the arms or members E can have an increased inwardly-swinging movement, while providing a comparatively large top surface for the anvil to receive the arms E.

In operating the puzzle the arms or members E are all placed so as to hang downwardly on the respective bars C. The device is then held in the hand and shaken about until the arms or members E are all brought to rest on the anvil G, as in Fig. 3, in which position of the parts the puzzle will be solved. The fact of the arms or members E being loosely hung on the bars C gives them such freedom of movement that when one is resting on the anvil a slight movement of the device may suffice to dislodge it therefrom, thereby increasing the difficulties of solving the puzzle.

The device is simple in construction, inexpensive in manufacture, and capable of affording amusement to a large extent.

I do not limit my invention to the precise details of construction shown and described, as they may be varied without departing from the spirit of my invention.

Having now described my invention, what I claim is—

1. A puzzle comprising a base, an anvil or rest thereon, bars surrounding said anvil and carried upon said base and arms loosely hung

on said bars so that the free ends can rest on said anvil, substantially as set forth.

2. A puzzle comprising a base, posts thereon, bars carried by said posts, arms loosely
5 hung on said bars, and a central anvil or rest within the line of said bars to receive the ends of said arms, substantially as set forth.

3. A puzzle comprising a base, an anvil thereon having a stem and an outwardly-pro-
10 jecting edge *g*, bars surrounding said anvil and arms loosely hung on said bars, substantially as set forth.

4. A puzzle comprising a base, posts there-

on, a wire extending around over said posts and secured thereto by staples or the like, 15 arms having eyes hung on said bars, and a central anvil within the line of said bars to receive the ends of said arms, substantially as set forth.

Signed at the city of New York, in the 20 county of New York and State of New York, this 26th day of September, A. D. 1895.

FREDERICK O. RICH.

Witnesses:

SAML. M. BIXBY,

J. ALEXANDER KOONES.