No. 771,072. PATENTED SEPT. 27, 1904.

E. G. JACKSON.

PUZZLE.

APPLICATION FILED JULY 8, 1904.

NO MODEL.

Fig. 1

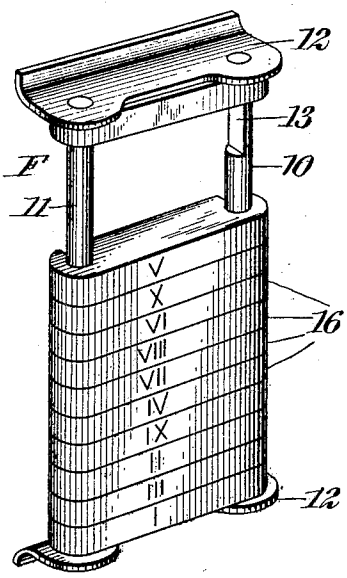


Fig. 2

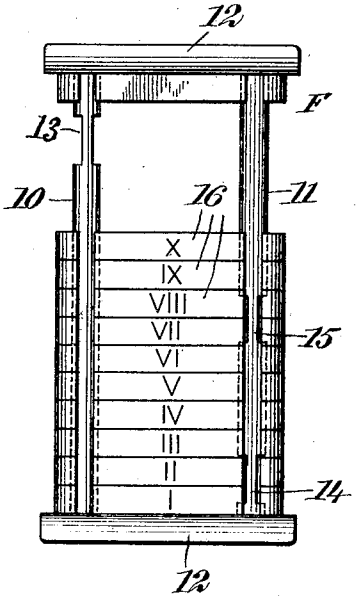


Fig. 3

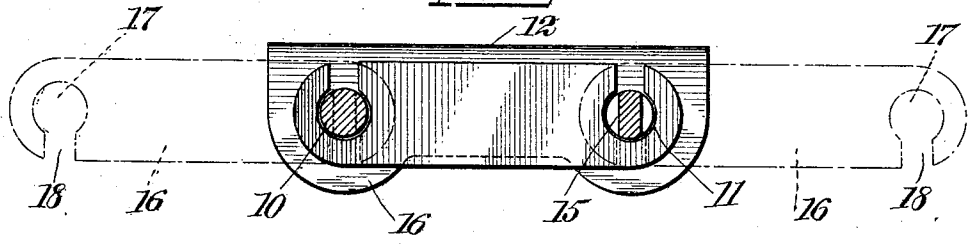
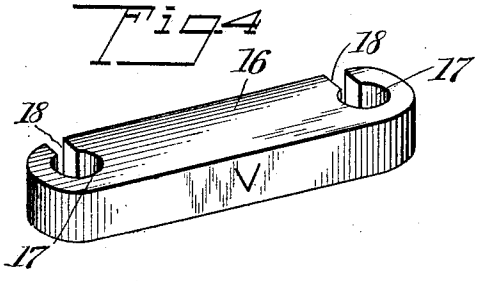


Fig. 4



WITNESSES:

J. A. Brophy

S. H. Cobb.

INVENTOR

Eliot G. Jackson

BY

Munn & Co

ATTORNEYS

No. 771,072. Patented September 27, 1904.

UNITED STATES PATENT OFFICE.

ELIOT GREGORY JACKSON, OF SAN FRANCISCO, CALIFORNIA.

PUZZLE.

SPECIFICATION forming part of Letters Patent No. 771,072, dated September 27, 1904.

Application filed July 8, 1904. Serial No. 215,741. (No model.)

To all whom it may concern:

Be it known that I, ELIOT GREGORY JACKSON, a citizen of the United States, and a resident of San Francisco, in the county of San Francisco and State of California, have invented a new and Improved Puzzle, of which the following is a full, clear, and exact description.

My invention relates to puzzles, its principal objects being to produce an entertaining device of this character.

It consists in the various features and combinations hereinafter described, and more particularly claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of one embodiment of my invention. Fig. 2 is a front elevation thereof, showing the opposite side from that in Fig. 1. Fig. 3 is a transverse section through the frame, the cross-pieces being shown in dotted lines as swung to one side thereof; and Fig. 4 is a perspective view of one of the cross-pieces.

The letter F designates a frame which is preferably composed of substantially parallel members or rods 10 and 11, here shown as of generally cylindrical form and being joined at their ends by connecting-bars 12 12. The rods are provided with reduced or cut-away portions lying in different transverse planes, that numbered 13 being near one extremity of the rod 10, it being separated from the connecting-bar by a comparatively narrow space, while the companion rod 11 has a reduced portion 14 at its opposite end in practically the same relation to the connecting-bar and a portion 15 situated near its center. All these reduced portions have opposite flattened walls lying in planes substantially at right angles to the general plane of the frame. Mounted upon the rods are cross-pieces or slides 16, which are here shown as ten in number, they each being of a thickness less than the width of the reduced portions of the rods and their aggregate thickness when they are in contact with one of the bars 12 being such that they extend part of the way between the reduced portions 13 and 14. Each of the slides bears one of a series of characters, these designations being here illustrated as Roman numerals from "I" to "X." Each slide has near its opposite ends perforations 17, through which the rods extend, this connection permitting the slides to move bodily along the frame. Each of the perforations opens through the side of its slide in a contracted portion 18 of such width that lateral movement of the slides is prevented when they are in coaction with any portion of the rod which is of full diameter, but permitting their disengagement and rotation about the companion rod when they are opposite the reduced portions.

In performing this puzzle the slides are positioned upon the frame so that the numerals are in irregular order, as shown in Fig. 1 of the drawings, and they may then be rearranged in consecutive order by releasing, for example, those numbered "V" and "X" in Fig. 1 by means of the reduced portions 13 rotating them to one side upon the rod 11, then releasing those numbered "VI" and "VIII" by means of the reduced portion 15 and rotating them about the rod 10, this permitting the pairs to be transferred by one another and brought into coaction with both rods in a new relation. In this manner and without disengaging more than one end of each slide at a time these may be brought into the desired order, as is indicated in Fig. 2. It will be seen that considerable ingenuity may be involved in the accomplishment of this purpose.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A puzzle comprising a frame having substantially parallel members, cross-pieces rotatable about and movable along each of said members, and means for releasing the cross-pieces from each of the members at different points.

2. A puzzle comprising a frame having substantially parallel members, cross-pieces rotatable about and movable along each of said members, each of the cross-pieces bearing one

of a series of characters, and means for releasing the cross-pieces from each of the members at different points.

3. A puzzle comprising a frame having substantially parallel members, cross-pieces rotatable about and movable along each of said members, and means for releasing the cross-pieces from each of the members at different points and lying in different transverse planes.

4. A puzzle comprising a frame having opposite rods provided with reduced portions, and cross-pieces having perforations through which the rods may extend, said perforations having contracted portions opening through the sides of the cross-pieces.

5. A puzzle comprising a frame having opposite rods provided with reduced portions, and cross-pieces bearing different designations and having perforations through which the rods may extend, said perforations having contracted portions opening through the sides of the cross-pieces.

6. A puzzle comprising a frame having opposite rods, one of which is provided with a reduced portion near one end and the other with a reduced portion near the opposite end and with an intermediate reduced portion, and cross-pieces having perforations through which the rods may extend, said perforations having contracted portions opening through the sides of the cross-pieces.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ELIOT GREGORY JACKSON.

Witnesses:

JAMES A. WHITE,

W. J. FORDE.