

(No Model.)

H. L. CASSARD.
PUZZLE.

No. 519,989.

Patented May 15, 1894.

Fig. 1.

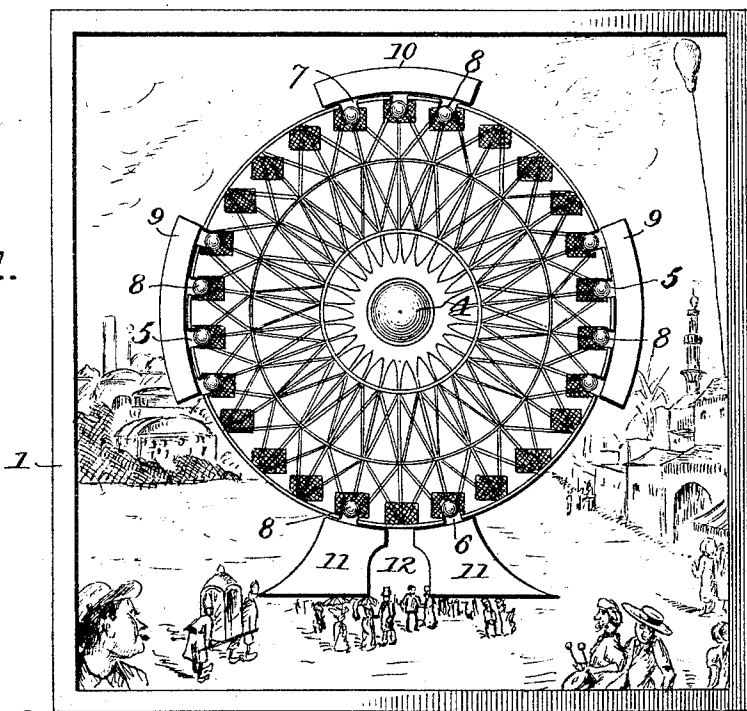


Fig. 2.

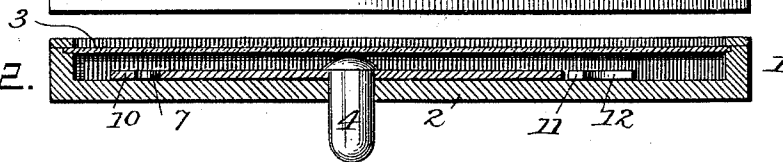
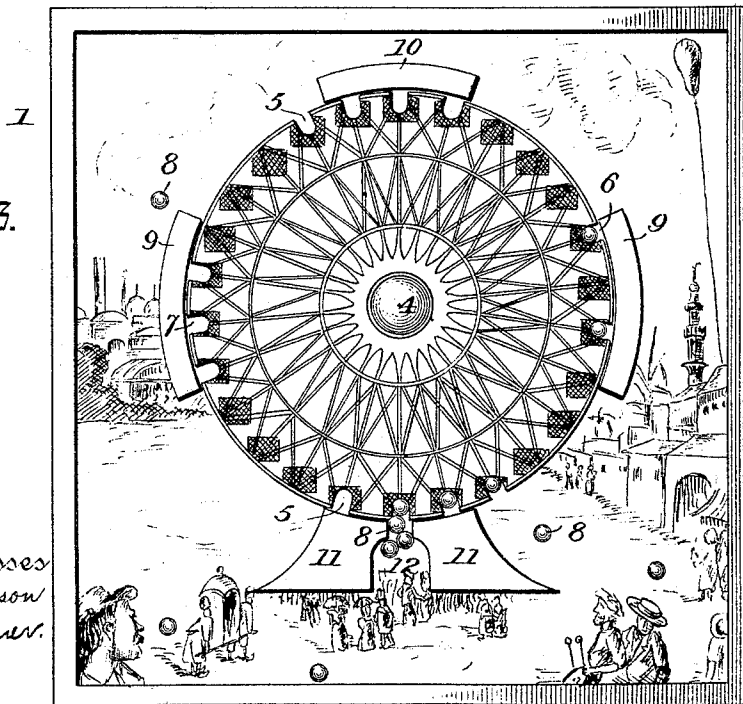


Fig. 3.



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UNITED STATES PATENT OFFICE.

HARRY L. CASSARD, OF BALTIMORE, MARYLAND.

PUZZLE.

SPECIFICATION forming part of Letters Patent No. 519,989, dated May 15, 1894.

Application filed September 23, 1893. Serial No. 486,271. (No model.)

To all whom it may concern:

Be it known that I, HARRY L. CASSARD, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Puzzles, of which the following is a specification.

This invention relates to certain new and useful improvements in toys or games, and it consists substantially in such features of construction, arrangement, and combinations of parts as will hereinafter be more particularly described.

The object of the invention is to provide a cheap, simple and amusing toy which shall be interesting to both young and old, and one which can be very readily understood and practiced, substantially as will hereinafter more fully appear when taken in connection with the accompanying drawings, in which—

Figure 1, represents a top or plan view of a game apparatus constructed and arranged in accordance with my invention, the said view indicating all of the movable objects in the places they are designed to occupy when the game is finished or completed. Fig. 2, represents a transverse, sectional view, taken about centrally of the game apparatus. Fig. 3, is a similar view to Fig. 1, representing some of the movable objects in place within the seats or receptacles of the revolving disk or wheel, while others of such objects are shown as scattered over the surrounding surface of the wheel or disk contained within the supporting frame.

In carrying my invention into effect, I provide a suitable frame, preferably rectangular in form, which frame is provided with a suitable glass front, as well as with a suitable backing, upon which the principal parts of the game apparatus are mounted. The said backing may be provided with any suitably picturesque design, which shall appear through the glass front and which preferably is in representation of sights or objects witnessed at the "World's Fair" while in progress in the city of Chicago.

The main or principal part of my game apparatus consists of a disk having a central axis and which disk is preferably ornamented with a diagram of a number of brace rods extending radially from the center or axis

thereof to the periphery in representation of the celebrated "Ferris wheel," designed to carry passengers to a considerable height, both to witness surrounding scenery, as well as for the enjoyment of a ride. The said disk or wheel is provided at intervals of its periphery, with notches which are intended to represent seats, while the said wheel is also provided with a handle passing centrally through the same to the under side of the frame, so as to enable it to be readily turned by the person practicing the game.

Adjacent to the wheel at suitable points, I arrange what may be termed guards for the purpose of assisting to maintain the movable objects in place within the seats after they have been caused to enter the same and the general design of these guards is that of a supporting frame in which the wheel is mounted. The bottom guard, which is in representation of the base of the supporting frame is preferably divided and formed with an intermediate space of such form or configuration as to furnish a guide through which the movable objects are caused to pass into the seats or receptacles formed to receive them in the periphery of the wheel or disk. The movable objects referred to are intended to represent "passengers" for the wheel.

In the drawings, 1, represents the frame of my improved game apparatus, which as shown, is of ordinary form having the usual backing 2, and the glass front 3, both of which may be secured to the frame in any suitable manner. Passing through the center of the frame is a pin or handle 4, to the upper end of which is secured a circular disk of paper, card board, metal or other suitable material, preferably imprinted or otherwise designed in representation of a wheel, and this disk is provided at opposite portions of its periphery, with notches 5, preferably four in number; at another portion of its periphery similar notches 6, are formed preferably two in number, and yet at still another portion of said periphery are similar notches 7, preferably three in number.

Within the space surrounding the wheel or disk and contained within the glass front of the frame is a number of balls or movable objects 8, which aggregate the total number of seats or receptacles formed in the wheel or

disk and the purpose of this game is to cause the said movable objects or balls to enter the seats or receptacles of the wheel or disk until they have all been made to occupy a position therein, at which time the game is said to be accomplished or effected. To assist partly in maintaining the balls or movable objects in place, I provide at suitable points adjacent to the wheel or disk, a number of guards 9, which preferably occupy positions to the right and left of the wheel or disk, while a similar guard 10, is made to occupy a point above or at the top of the wheel or disk. Likewise a guard 11, is located or arranged in a position corresponding to the bottom of the wheel or disk and this guard consists of two parts preferably having between them a space 12, into which the balls or movable objects or passengers are first made to pass, thence into the several seats or receptacles of the wheels by slowly rotating the latter through the medium of its pin or operating handle.

It will be observed that each of the guards referred to is slightly curved in shape so as to conform to the shape of the edge or periphery of the wheel; and in this way after the movable objects or balls have all been caused to become seated within the seats or receptacles therefor, the said guards will serve to maintain said balls or movable objects in place until they are released. A full understanding of this latter will be had on reference to Fig. 1, which shows all the balls or movable objects in place, and which also shows the relative positions of each of the notches with the several guards referred to.

My improved game apparatus is operated as follows: The frame is held in a horizontal position by the person using the apparatus and the balls or movable objects are preferably made to pass first into the space between the two parts of the guard which occupies the position corresponding to the base of the supporting frame of the wheel; and then by gradually turning the wheel until all of the objects are caused to pass into the receptacles or seats, designed to receive them, the said game is accomplished. Of course it is to be understood that the movable balls or objects can be caused to become seated in the notches of the disk in any suitable manner without first causing them to pass between the two parts of the lower guard referred to, but in practice it has been found preferable to follow such course for the reason that the game is rendered somewhat more difficult by seating one ball or object at a time, than would be the case if two or more were or could be made to enter any of the notches at the same time.

It is of course to be understood that while I have herein shown and described a particular form of apparatus, I am not obliged to

limit myself to the precise details of construction shown. I might alter the shape and size of the frame, as well as the movable objects themselves, and I might also, instead of forming notches in the wheel or disk, provide the latter with projections to constitute seats or receptacles in like manner. In such latter event, the several guards referred to, would of course be made to occupy positions sufficiently beyond the edge of the wheel or disk to enable the latter to be turned freely after the balls or movable objects had all been caused to enter the receptacles or seats.

Having thus described my invention, what I claim is—

1. In a game apparatus, the combination of a movable disk provided with notches in its edge or periphery, and having means for positively operating the same a supporting frame, and a number of balls or movable objects contained within said frame and adapted to enter the notches, substantially as described.

2. In a game apparatus, the combination of the movable disk formed or provided at intervals on its edge or periphery, with suitable notches or receptacles, and having means for positively operating the same guards adjacent to the edge of the wheel or disk, a supporting frame, and a number of balls or movable objects contained within the frame and aggregating the number of notches or receptacles, substantially as described.

3. In a game apparatus, the combination of the movable disk formed or provided on its edge or periphery with notches or receptacles, and having means for positively operating the same guards conforming in shape to the edge of said disk and located adjacent to different parts of the latter, the supporting frame and suitable front, and a number of balls or movable objects designed to enter the notches or receptacles, substantially as described.

4. In a game apparatus, the combination of a movable disk provided with an operating handle, and formed or provided in its edge or periphery with a number of notches or receptacles, the side guards adjacent thereto, the upper guard, the lower guard provided with an intermediate guiding space, the supporting frame, and a number of balls or movable objects aggregating the number of notches or receptacles of the disk, substantially as described.

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

HARRY L. CASSARD.

Witnesses:

HENRY BENHEIMER,
JOHN BARBER.