

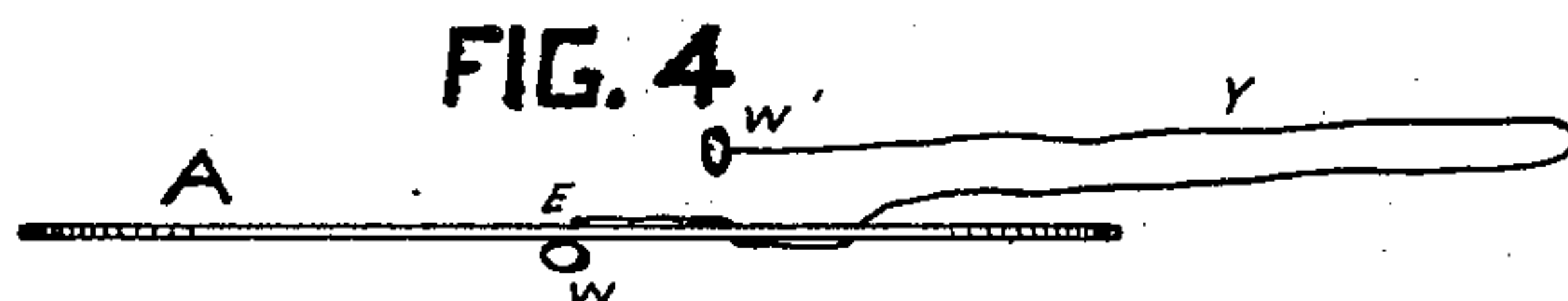
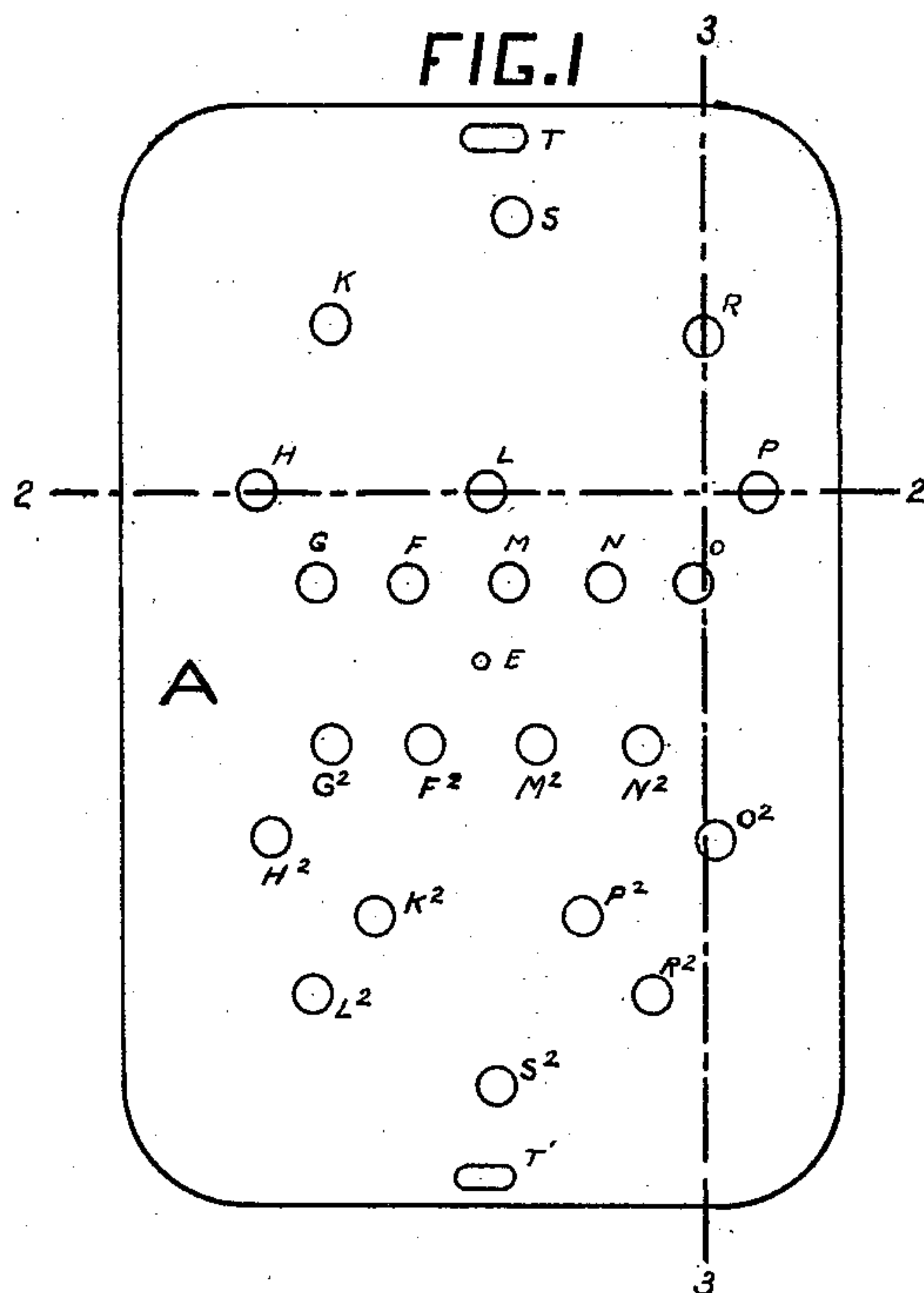
(No Model.)

2 Sheets—Sheet 1.

W. L. HEDENBERG.  
PUZZLE.

No. 543,684.

Patented July 30, 1895.



WITNESSES:

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*M. F. Boyle*

INVENTOR

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his ATTORNEY.

(No Model.)

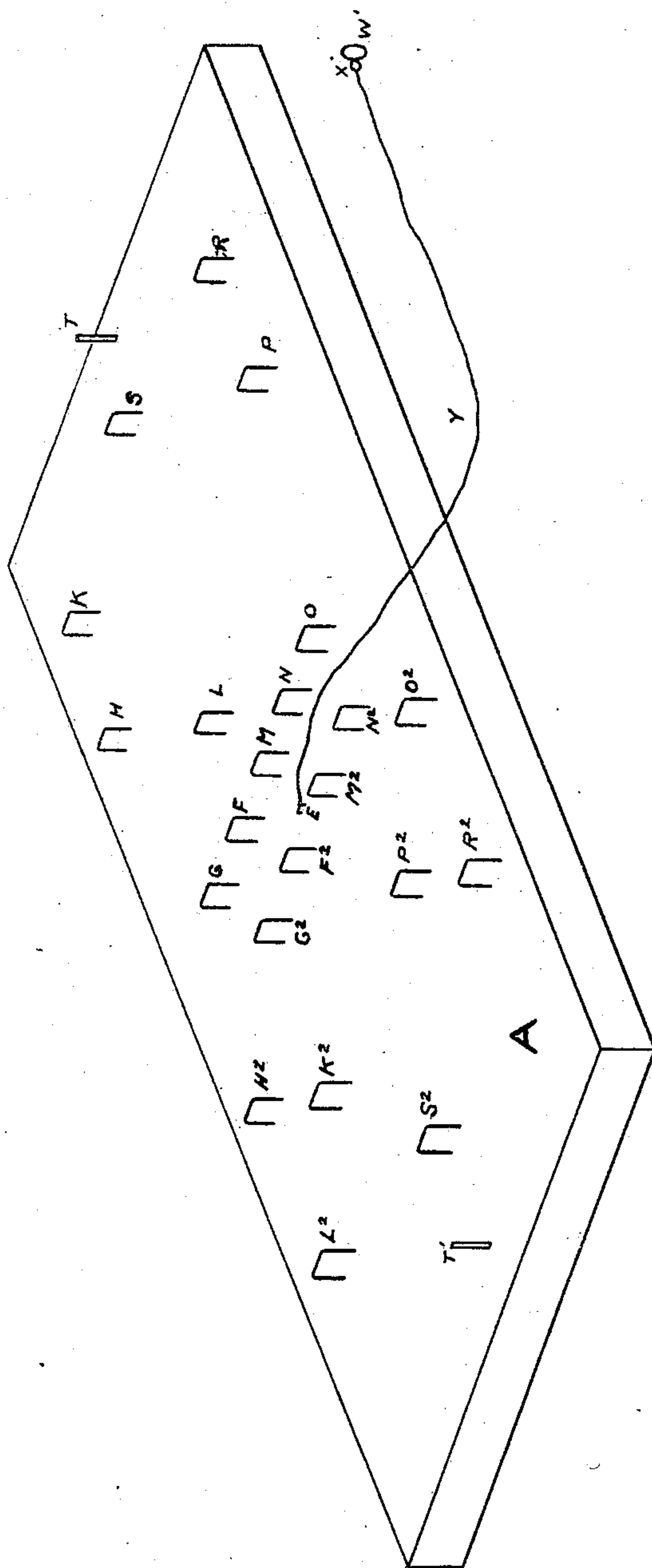
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FIG. 5



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# UNITED STATES PATENT OFFICE.

WILLIAM L. HEDENBERG, OF NEW YORK, N. Y.

## PUZZLE.

SPECIFICATION forming part of Letters Patent No. 543,684, dated July 30, 1895.

Application filed April 23, 1895. Serial No. 546,811. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM L. HEDENBERG, a citizen of the United States, residing in New York city, county and State of New York, have invented an Improved Puzzle, of which the following is a specification.

My invention relates to a puzzle which can serve to portray, in effect, the game of football or the positions of the opposing teams when ready for play; and the object of the invention is to permit or cause a flexible connection, such as a cord, to be passed in a certain order through, under, or around a series of holes or projections, which represent the men on a foot-ball field, and thence to a certain point representing a "goal," the length of said connection being just sufficient to enable it to reach said goal-point when passed in proper order through or around said holes or projections.

The invention further consists in the novel details of improvement, 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 face view of a plate or board arranged for carrying out my invention. Fig. 2 is a cross-section thereof on the line 2 2 in Fig. 1. Fig. 3 is a cross-section on the line 3 3 in Fig. 1. Fig. 4 is an edge view of the plate or board, showing the flexible connection passed through certain of the holes in the plate or board; and Fig. 5 is a perspective view of a modification in the arrangement of the plate or board.

In the accompanying drawings, in which similar letters of reference indicate corresponding parts in the several views, the letter A indicates a plate or board of suitable size, shape, and thickness, which may be made of metal, wood, or other suitable material. The plate or board A has a central point E, which may consist of a hole in the plate or a projection or loop attached thereto, as shown. On opposite sides of the center E the plate or board is provided with a series of holes, projections, eyes, or loops, which may be arranged in a certain order and number to produce the desired result. I have shown eleven holes or projections for each of said series, said holes or projections being represented as in the po-

sitions in which men are placed, on opposing sides, when ready for play in a game of football. The holes or projections of one series are lettered F, G, H, K, L, M, N, O, P, R, and S, and the other series of holes or projections are lettered F<sup>2</sup>, G<sup>2</sup>, H<sup>2</sup>, K<sup>2</sup>, L<sup>2</sup>, M<sup>2</sup>, N<sup>2</sup>, O<sup>2</sup>, P<sup>2</sup>, R<sup>2</sup>, and S<sup>2</sup>.

T and T' are holes or projections in or on the plate or board A, which indicate goals for the respective sets of holes or projections, and they are outside of or beyond the respective eleven holes or projections, as shown.

Y is a flexible connection, which may consist of a cord, chain, or the like, which is attached to the plate or board A at the "center" E, either by a knot or button W, which holds the connection Y in the hole E, or by otherwise securing it to the plate or board A at E, as in Fig. 5. The connection or cord Y has a button, knot, or knob W' at its outer end, which may be in the form of a foot-ball, if desired, and said button or knot is adapted to pass through the apertures in the plate A. The length of the cord or connection Y from its connection with the plate or board A to the button, knot, or knob W' is just sufficient to enable said connection or cord to be threaded through the proper holes or projections F, G, H, &c., and to then reach the goal T. The arrangement of said holes is such that the connection Y can only be threaded through them in a certain order and then reach the goal T, for if threaded otherwise the button or knob W' will not be enabled to reach the goal T and thus the puzzle will not be solved.

The proper order of threading the connection Y to solve the puzzle is from E to F, G, H, K, L, M, N, O, P, R, and S to T, the connection Y being passed down through one hole and up through the next, and so on. If the connection is passed into the series of holes F<sup>2</sup>, G<sup>2</sup>, H<sup>2</sup>, &c., the puzzle will not be solved, as those holes are not so arranged as to allow the connection Y to be passed through them in any order and then permit the button or knob W' to reach the goal T'. The feature of the puzzle is to ascertain which series of holes and in what order the connection can be passed severally through all the holes of a series to enable the button or knob W' to reach the goal T.

In Fig. 5, instead of using holes F, G, H, &c.,



in the plate or board A, I have shown staples, eyes, or loops as driven into said plate or board and elevated therefrom in the proper positions for using the puzzle, and pins T T' 5 are used for the goals; or the pins could replace the staples for the entire board, if desired. In this case the connection Y is passed through the staples or loops or around the projections in order to enable the goal to be 10 reached. In this case, also, the connection Y may carry a ring X, to be slipped over the goal-pin when the connection has been passed in proper order through the eyes, staples, or loops or around the projections.

15 By having the two differently-arranged sets of holes, eyes, or projections on opposite sides of the center E a person will be obliged to try a number of times before he solves the puzzle and will not know which side of the 20 center to try in order to reach the goal until he has once solved the puzzle.

Having now described my invention, what I claim is—

1. A puzzle, consisting of a plate or board

having a series of holes, eyes or projections 25 and a flexible connection of such length to an outer point that when passed through or around certain of said holes, eyes or projections it will reach to a definite point, and if not passed therethrough or around in proper 30 order it will not reach said point, substantially as set forth.

2. A puzzle consisting of a plate or board having a center point, a series of holes, eyes or projections on opposite sides thereof, one 35 series being arranged dissimilarly to the other and a goal point beyond each series, and a flexible connection connected with said plate or board at said center point and being of such length to a definite point that it will 40 only pass through or around one series of said holes, eyes or projections in a certain order to reach said goal point, substantially as described.

WILLIAM L. HEDENBERG.

Witnesses:

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