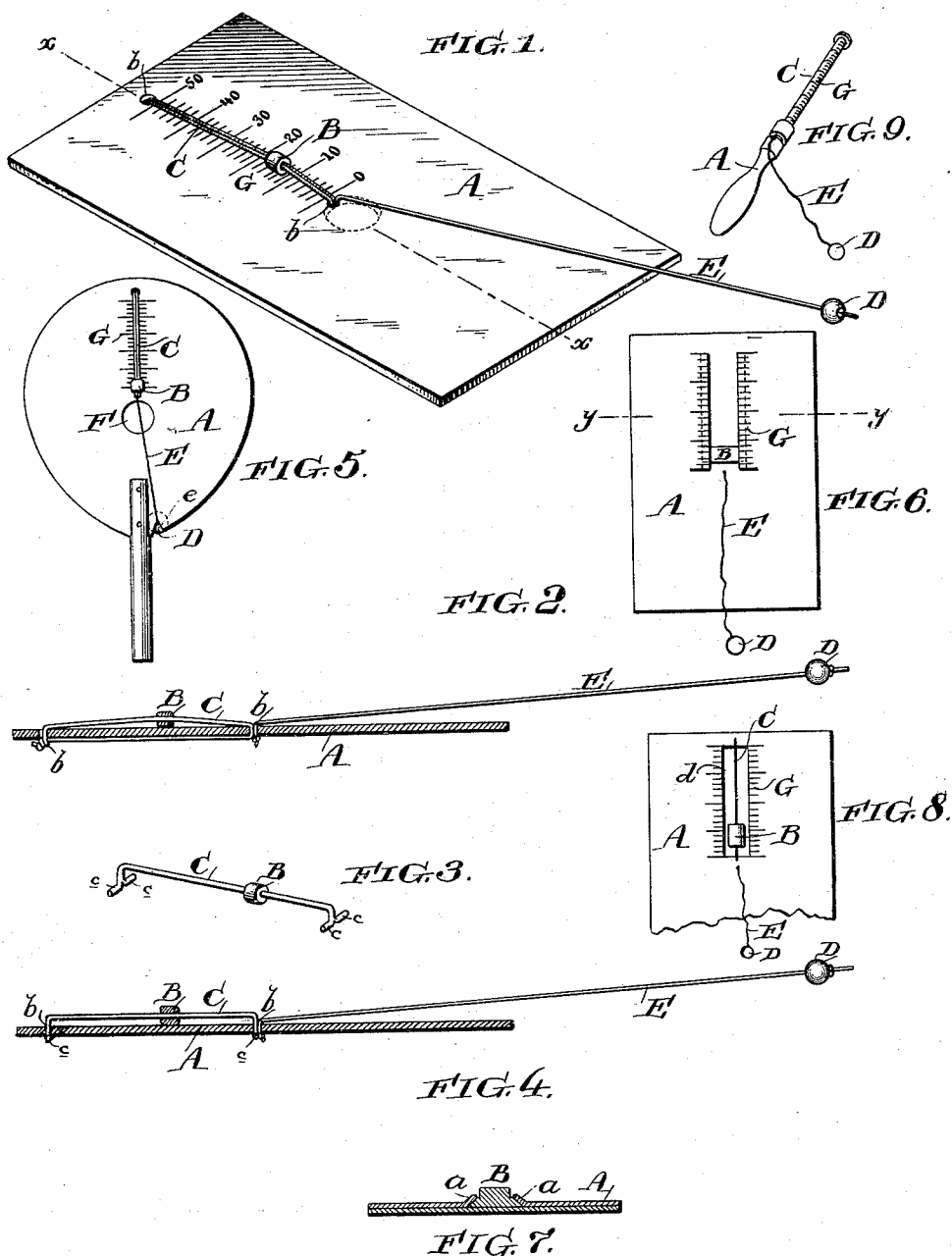


(No Model.)

W. H. REIFF.
GAME APPARATUS.

No. 477,452.

Patented June 21, 1892.



Witnesses:

Henry Denny
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Proctor

UNITED STATES PATENT OFFICE.

WILLIAM H. REIFF, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
FRANCIS HAGGERTY, OF SAME PLACE.

GAME APPARATUS.

SPECIFICATION forming part of Letters Patent No. 477,452, dated June 21, 1892.

Application filed February 19, 1892, Serial No. 422,139. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. REIFF, of the city and county of Philadelphia, and State of Pennsylvania, have invented an Improvement in Game Apparatus, of which the following is a specification.

My invention relates to game apparatus; and it consists of certain improvements, which are fully set forth in the following specification and are shown in the accompanying drawings, which form a part thereof.

It is the object of my invention to produce a suitable game apparatus that shall be interesting and demand the exercise of more or less skill and accuracy from the player.

The apparatus is comparatively inexpensive to construct and may be used as a convenient medium for advertising.

In carrying out my invention I employ a striking-piece or ball having an elastic connection with a suitable supporting-piece—such as a card, fan, or other object—upon which is arranged a movable object-piece upon suitable guides adapted to be struck by the striking-piece or ball and moved a greater or less distance, according to the accuracy of the aim of the player. A graduated scale located adjacent to the movable object-piece may be used to indicate the distance the object-piece is moved when struck, and may thus be employed as a means of keeping a score of points made by the player. The supporting-piece may be also provided with a recess or aperture adjacent to the point at which the ball or striking-piece is attached to the supporting-piece, and through this hole or aperture the ball may be shot or projected by the elasticity of the connection.

In the drawings, Figure 1 is a perspective view of my improved game apparatus. Fig. 2 is a longitudinal sectional view of the same on the line *x x* of Fig. 1. Fig. 3 is a perspective view of a modification of the guide for the movable object-piece. Fig. 4 is a longitudinal sectional view similar to Fig. 2, employing the modified guide of Fig. 3. Fig. 5 is a plan view of a fan, illustrating the application of my apparatus thereto. Fig. 6 is a plan view of a modified form of my game apparatus. Fig. 7 is a transverse sectional view of the same on the line *y y* of Fig. 6. Fig. 8 is a view simi-

lar to Fig. 6, illustrating another modified form of the apparatus; and Fig. 9 is a perspective view of another modified form of the apparatus.

A is the supporting-piece, which may be of any convenient shape or material. Thus in Fig. 1 it is shown as a flat card or board, while in Fig. 5 it is shown as a fan.

B is a movable object-piece adapted to be moved over the surface of the supporting-piece A.

C is a guide carried by the supporting-piece A, upon which the object-piece B is supported and guided in its movements.

The construction of the guide for the object-piece B may be varied in many ways. In Figs. 1, 2, and 5 this guide is shown formed of two cords or wires passed through apertures *b* in the supporting-piece A. Of course a single cord or wire may be employed.

In Figs. 3 and 4 I have shown a construction in which the guide C consists of a wire having its ends passed through the apertures *b* and the extremities *c* thereof bent out upon the under side of the piece A.

In the construction shown in Figs. 6 and 7 the support A is provided with longitudinal guideways *a*, in which the piece B may move, and in Fig. 8 is shown a construction in which the support A is formed with an opening or longitudinal aperture *d*, over which the guide C is stretched.

D is the striking-piece or ball, carried by an elastic piece or connection E, attached to the supporting-piece A adjacent to the end of the guide C. In the construction shown in Fig. 9 the guide C is formed as part of the supporting-piece A.

F is an aperture or recess in the support A, through which the ball or striking-piece D may be projected.

The supporting-piece A may be provided with a notch or catch *e* to hold the striking-piece or ball D when out of use. This is desirable in the apparatus shown in Fig. 5, so that the ball or piece D may be held out of the way when the fan is to be used for its ordinary purpose.

G is a graduated scale adjacent to the guide C to indicate the distance the piece B is moved.

In using the apparatus the striking-piece or

ball D is drawn away from the support A, so as to extend the elastic connection E, and when it is released the elasticity of the connection E projects the ball forward toward the movable object B, which if struck by the ball D will be moved a greater or less distance in the guide C. The amount of movement depends upon the accuracy of the aim and is indicated by the scale G, by which a score of points may be kept. The ball may similarly be projected through the aperture F.

The apparatus by reason of its cheapness may be used as an advertising medium with the advertising matter placed upon the body of the support A.

While I prefer the minor details of construction shown, I do not limit myself to them, as they may be varied without departing from the invention.

What I claim as new, and desire to secure by Letters Patent, is—

1. A game apparatus consisting of a supporting-piece provided with a guide, a movable sliding object-piece movable in the guide of the supporting-piece, a striking-piece adapted to be projected to strike the movable sliding piece and move it bodily in the guide of the supporting-piece, and an elastic connection between the support and striking-piece.

2. A game apparatus consisting of a supporting-piece and a guide thereon, a movable sliding object-piece carried by the supporting-

piece and adapted to be moved bodily on the guide thereof, and a striking-piece adapted to be projected to strike the movable piece and move it bodily on the guide of the supporting-piece, said supporting-piece being provided with a scale or indicating-marks adjacent to the guide thereof to indicate the amount of movement of the movable piece.

3. A game apparatus consisting of a supporting-piece having a guide and provided with a graduated scale adjacent to the guide, a movable sliding piece carried by the guide and movable thereon, a striking-piece, and a flexible connection between said striking-piece and support, attached to the latter adjacent to the guide thereon.

4. A game apparatus consisting of a supporting-piece provided with an aperture F, a guide carried by the supporting-piece and having one end adjacent to the aperture F, a movable object-piece supported by the guide, the striking-piece D, and the elastic connection E, carrying the striking-piece D and attached to the supporting-piece adjacent to the end of the guide and to the aperture F.

In testimony of which invention I have hereunto set my hand.

WILLIAM H. REIFF.

Witnesses:

ERNEST HOWARD HUNTER,
S. T. YERKES.