

Aug. 9, 1938.

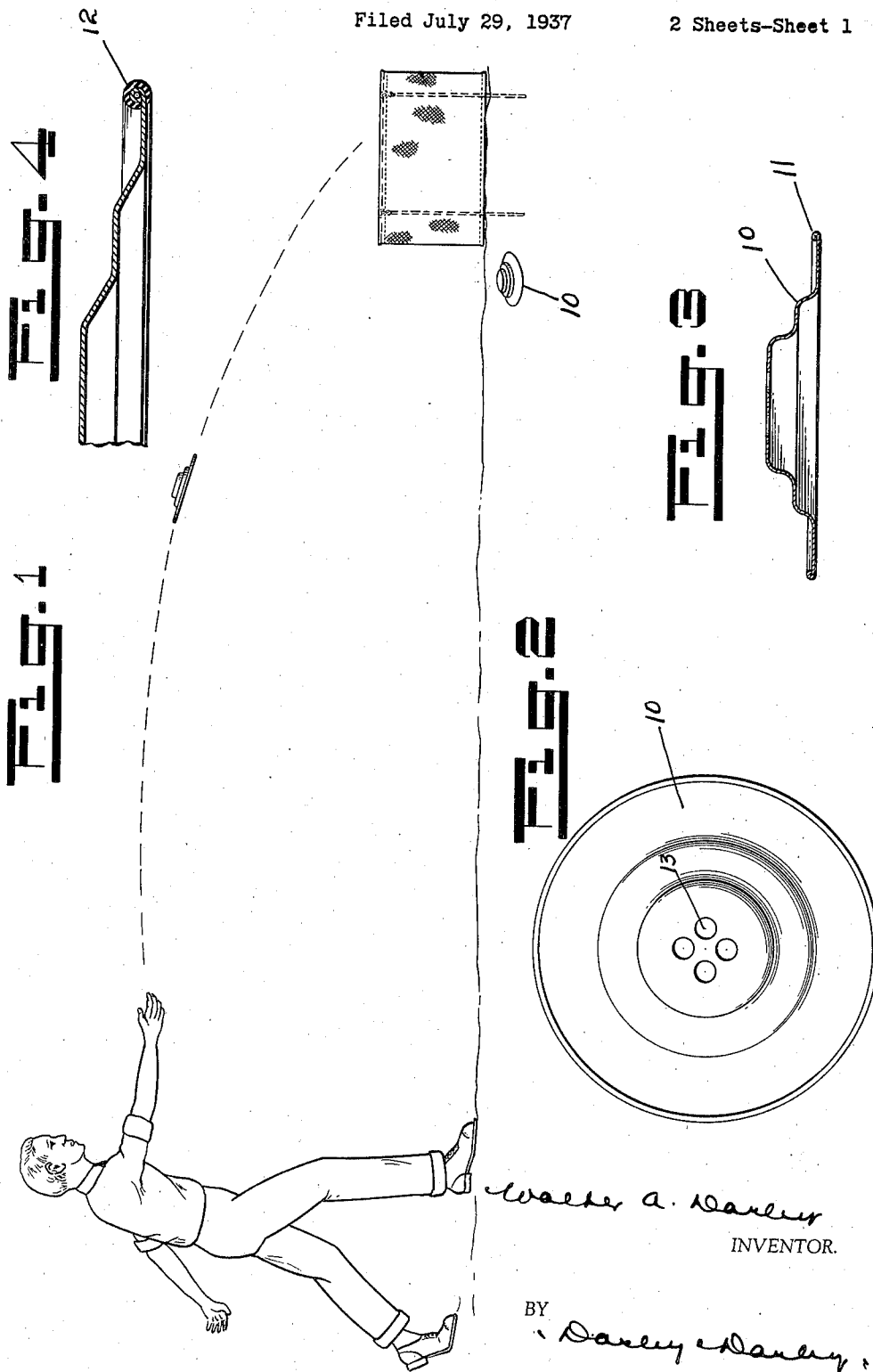
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2,126,245

DISK SCALING GAME

Filed July 29, 1937

2 Sheets-Sheet 1



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**Fig. 5**

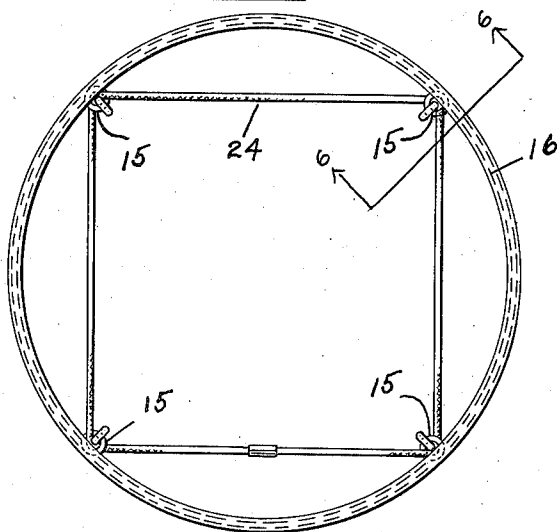


**Fig. 6**

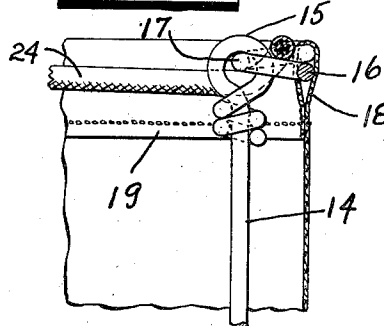


**Fig. 8**

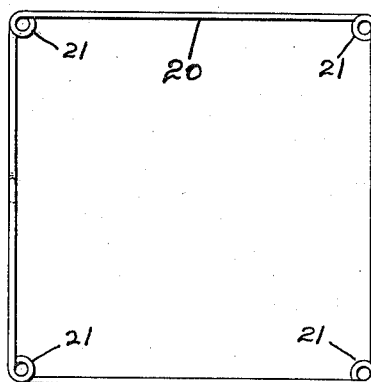


**Fig. 7**

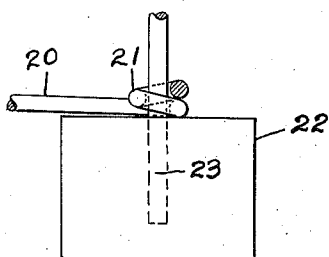
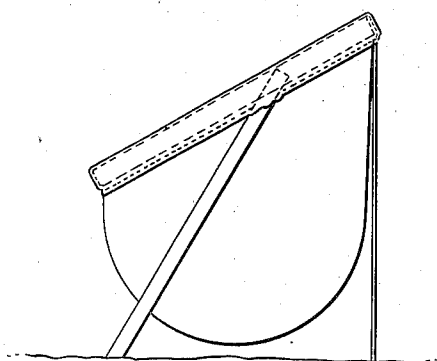


**Fig. 9**



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## UNITED STATES PATENT OFFICE

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## DISK SCALING GAME

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2 Claims. (Cl. 273—106)

This invention relates to a game device adapted for use in playing an entertaining disk scaling game.

It is well known that when a disk is scaled through the air, it is buoyed up by a considerable air pressure, depending on the speed at which the disk is traveling and also a frictional resistance is created which, together with the buoyancy mentioned, causes the disk to travel an undetermined path due to the varying air currents. By making the inside of the disk to assume a concave or hollow shaped form it becomes more sensitive to the air buoyancy and friction of the air on it during its motion through space. As a result of this tendency on the part of the disk, it is possible to create a game in which both skill of the player and chance enter into its enjoyment.

With the foregoing factors in view, an object of my invention is to provide a novel game comprising a bag or collapsible basket acting as a goal, mounted on a collapsible framework, and a plurality of disks which are so constructed as to allow the game to be played either indoors or outdoors.

In the illustrated embodiment of the invention the framework holding the bag is constructed of heavy circular section wire or rod material.

The disks are also constructed of a cheap light metal so as to give them the necessary weight. Other materials may as well be used, such as fiber or rubber.

The object of the game is obviously for the player to attempt to scale as many disks as possible for a given number of allowed trials per game into the goal pocket from a predetermined distance. To make the game more interesting, a preferred embodiment of the invention shows a hollow shaped disk with small symmetrically placed holes in the top surface so as to entrap more air and cause uneven pressure areas on the disk due to the air passing through these holes and hence cause the disk to glide, wobble, and dive through the air in a very interesting and irregular course in its passage from the player to the basket.

A further hazard to prevent an easy entry of a disk into the bag or basket is provided for by a plurality sided guard placed at the immediate entrance of the bag or basket. This may be composed of rubber to give the disk a positive rebound upon impinging upon the guard. When the game is played indoors there is provided a rubber or other flexible non-scratching material in the form of a hollow, annular shaped boot with

the inside slit circumferentially so that it may be slipped over the outside edge of the disk. Hence, when the disk strikes furniture or other articles in the home, scratches, mars, or dents will not be left on the object.

To provide the proper mounting of the goal for indoor use, blocks with proper size holes drilled therein may be provided so that the ends of the legs of the collapsible frame mentioned may be inserted in the blocks and thereby held up and to prevent the legs from spreading apart a plurality sided spacer in the form of a wire or other suitable material having loops or eyes at the corners of the spacer is provided.

The method of scoring for this game is unnecessary detail to be mentioned here, inasmuch as each group of contestants can agree upon this at the time of playing each game.

Although there need be only one basket and holding frame for the playing of the game, there need be no such limitation to the number because there would undoubtedly be greater interest if a multiplicity of goal baskets or bags are laid out on a course having equal or unequal distances between the same. In this way a number of people can play at the same time progressively around the course in tournament fashion.

In the drawings,—

Figure 1 is a view showing the manner of playing the game;

Fig. 2 is a top plan view of one of the disks;

Fig. 3 is a transverse section through the disk shown in Fig. 2;

Fig. 4 is an enlarged fragmentary sectional view of the disk shown in Fig. 2 provided with a flexible boot around the outside edge;

Fig. 5 is a top plan view of the goal;

Fig. 6 is a fragmentary sectional view of Fig. 5 cut along the plane indicated by the lines 6—6;

Fig. 7 is a vertical partial section showing the detailed method of securing the frame to a block for indoor use of the goal;

Fig. 8 is a plan view of the lower spacing frame for the legs of the collapsible frame; and

Fig. 9 is a vertical view of another embodiment of the goal.

The disk 10 is stamped out of thin, inexpensive metal or other suitable material into a form comprising an outer, flat, circular surface at the bottom and two successive circumferential steps with truncated cone shaped sides, said steps being joined by a smooth, curved surface, all joined to the inner diameter of the flat bottom surface of the disk 10, a circular surface parallel to the

bottom of the disk 10, joining the edges of the last step to close the top of the disk. This top circular area has four circular holes 13 drilled through it at symmetrically spaced intervals 5 from the center of this area to impart a wobble to the disk as the air is entrapped in the hollowed out side of the disk while traveling through space, which wobble is caused by unequal pressure over various areas of the disk 10 due to air passing through these holes. The proper size of these holes will depend upon the size of the disk.

The disk 10 also has an outside circumferential edge curved over inwardly and away from the 15 bottom of the disk to provide a bead 11, which may be used to hold a flexible, hollow, annular shaped ring 12 composed of rubber or other suitable material to act as a shock absorber when the disks are used indoors.

20 The structure of the goal shown in Figures 1, 5 and 6 is in the nature of a flexible fabric bag or collapsible basket having an opening into the pocket, and said bag is attached to a collapsible frame.

25 In more detail, the collapsible frame consists of four legs 14 made of heavy wire or light rod material, each having an end to be put into the ground or other foundation, and at the opposite end of which there is a loop or eye 15 through 30 which runs a similar wire 16 which circles completely the top of the bag through the opening in the seam 18 stitched along the points 19 and which wire in the seam opening has four symmetrically placed loops or eyes 17 at the points 35 where this wire 16 enters into and out of each of the loops or eyes 15 on the leg 14.

If it is desired to play this game indoors the additional pieces of equipment furnished according to the embodiment of my invention are four 40 foundation blocks 22 and a lower spacing frame for the legs 14 shown as a continuous wire or light rod 20 in Figure 8 formed into a square shape having the same dimensions as the distances 45 between the respective support points of

the legs 14 to the wire 16 and having a loop or eye 21 at each of the four corners of this spacing frame wire 20, through which eye 21 may be inserted the lower end of each leg into each of the four foundation blocks 22 composed of 5 any suitable heavy material into which a hole 23 is drilled large enough to receive a leg 14.

A further detail in the construction of the goal which may be employed to increase the difficulty of throwing a disk from a predetermined 10 distance into the goal pocket is a narrow rubber band or other flexible material 24 stretched through each of the four eyes 17 on the wire 16 and tied together to form a square guard around the inside top opening to the bag or basket. 15 This guard limits the entry into the goal pocket and increases the possible scope of continuing interest in the game after the player becomes too expert without its use. The goal is collapsible by virtue of the fact that each of the four 20 legs, pivots or hinges on a loop 17 and protrudes through a hole 25 in the bottom of the flexible bag far enough to permit, after the bottom of the bag has been neatly pushed toward the top of same, the pivoting of each leg through 90° 25 about each eye 17 toward the center of the bag.

Fig. 9 shows another preferred embodiment of the goal in which the opening is tilted forward to allow an easier entry of a disk.

Having thus described my invention, what I 30 claim is:

1. A disk device for use in playing a disk scaling game comprising a concave shaped disk formed with a flat top surface, said top surface being joined to a plurality of circumferential 35 stepped portions with the lower stepped portion terminating in a circumferentially disposed flat surface having a rolled over edge portion.

2. A disk device for use in playing a disk scaling game comprised of a concave shaped disk 40 formed with a flat top surface and a plurality of circumferential stepped portions, said flat top surface having a plurality of openings extending therethrough.

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