Aug. 31, 1926. 1,598,214

M. MILEWSKI

GAME APPARATUS

Filed Sept. 26, 1921 5 Sheets-Sheet 1

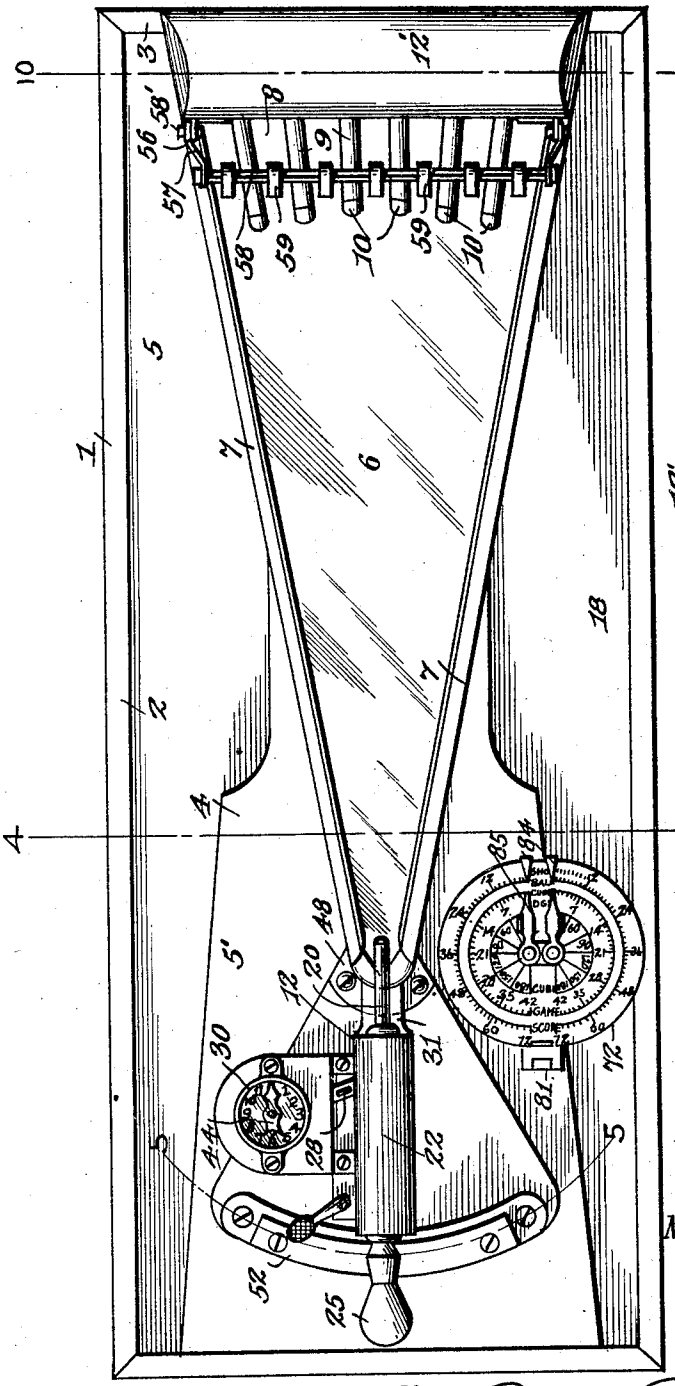


Fig. 1.

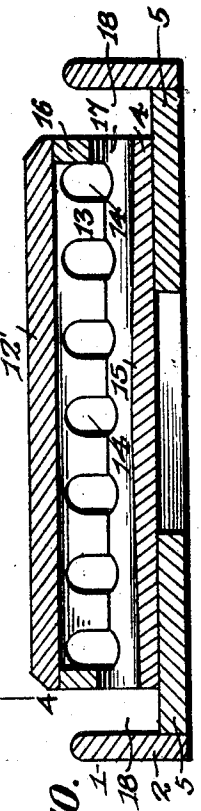


Fig. 10.

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GAME APPARATUS

Filed Sept. 26, 1921 5 Sheets-Sheet 2

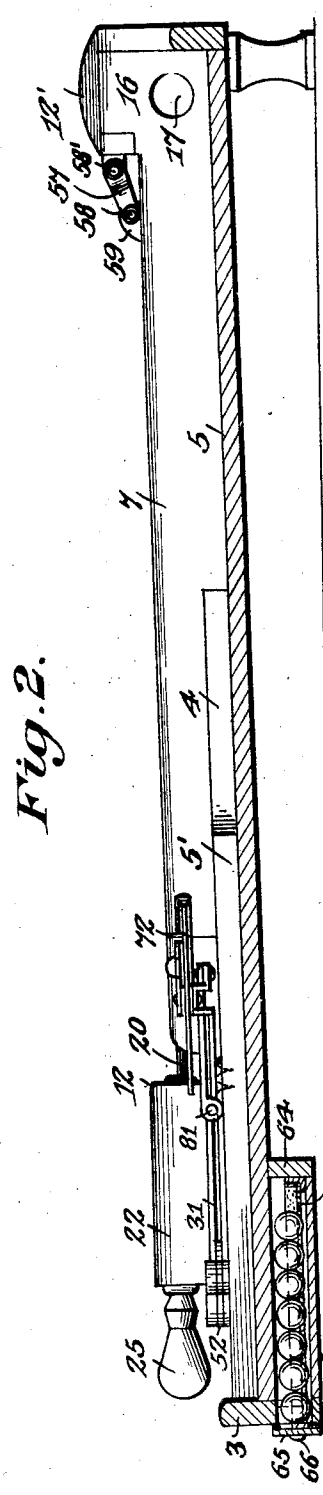


Fig. 2.



Fig. 13.



Fig. 12.

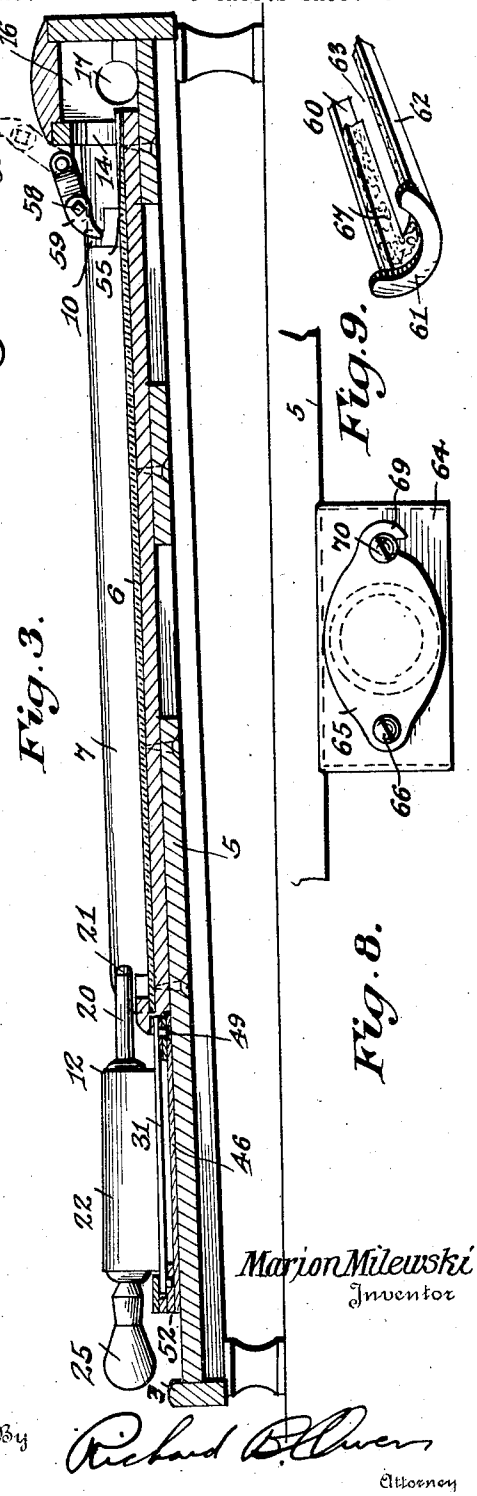


Fig. 3.

Fig. 9.

Fig. 8.

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GAME APPARATUS

Filed Sept. 26, 1921 5 Sheets-Sheet 3

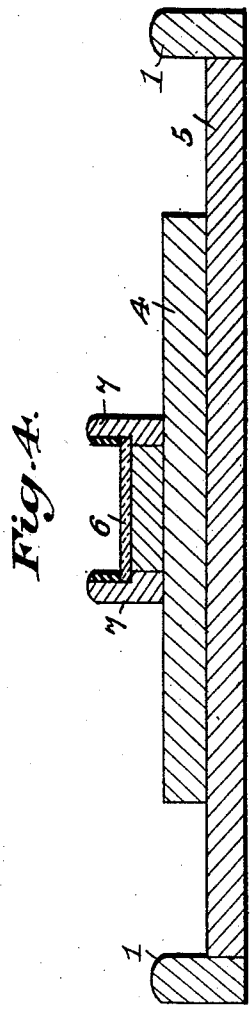


Fig. 4.

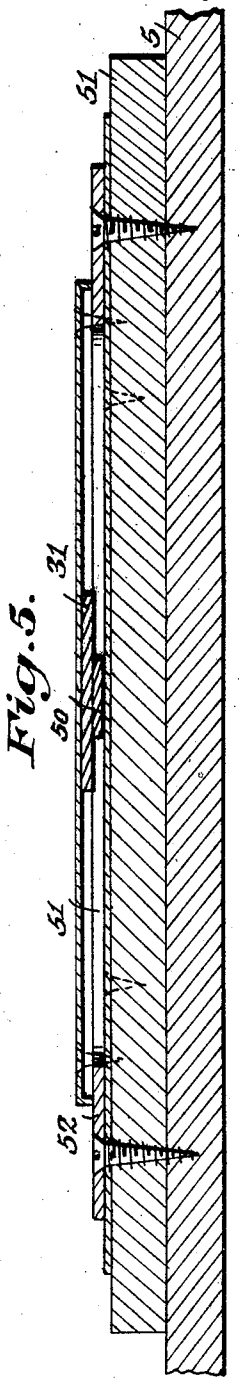


Fig. 5.

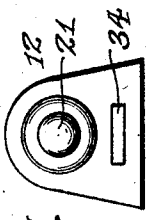


Fig. 7.

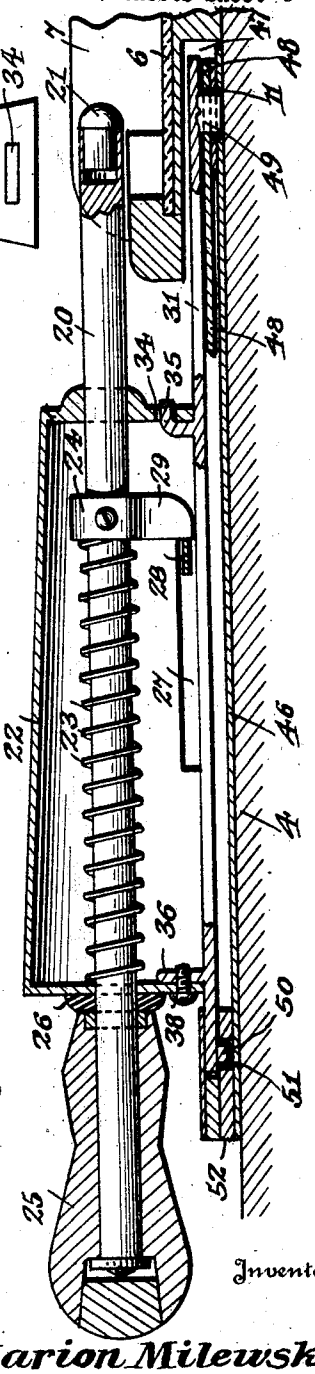


Fig. 6.

Inventor

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By Richard B. Owen,

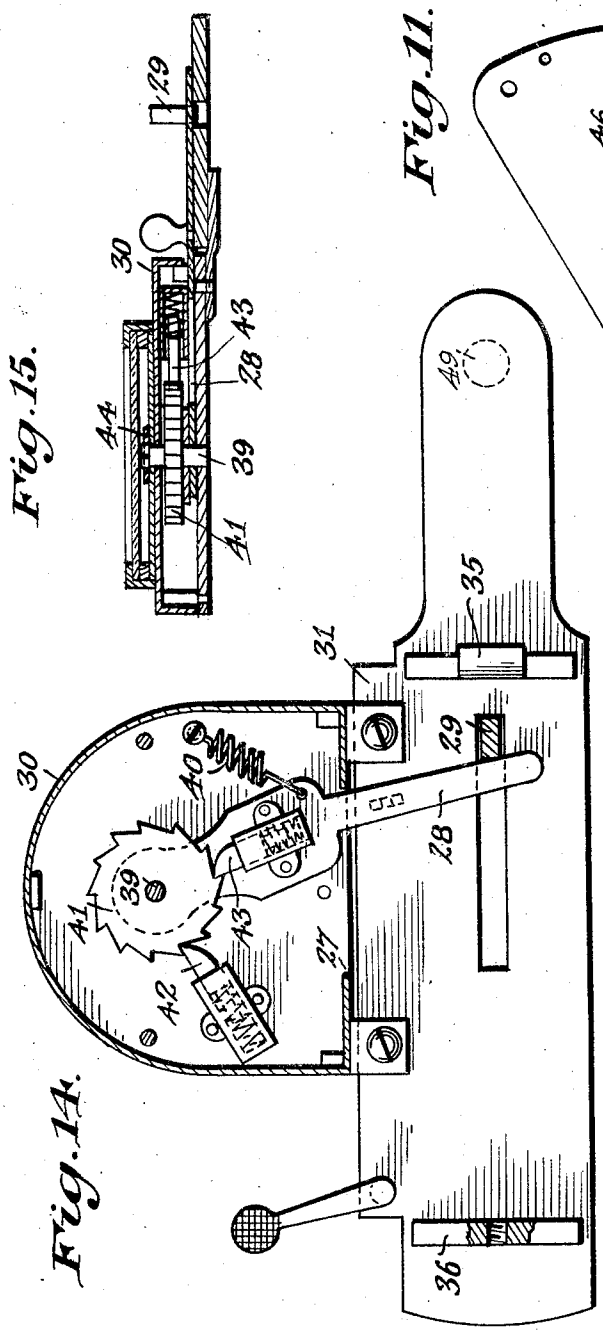
Attorney

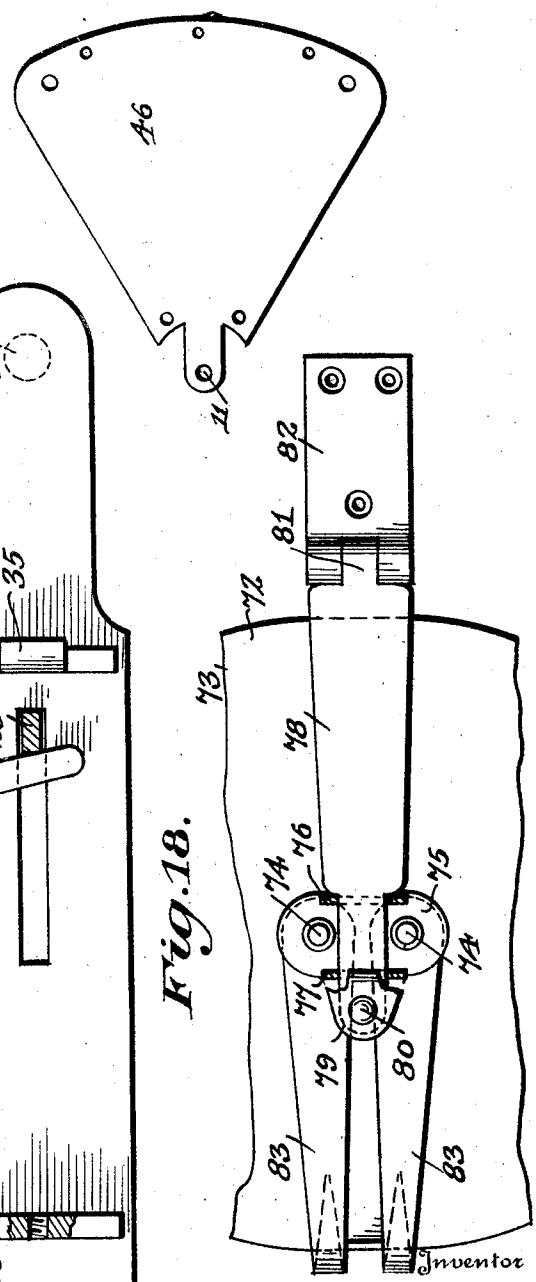
Aug. 31, 1926. 1,598,214

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GAME APPARATUS

Filed Sept. 26, 1921 5 Sheets-Sheet 4





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GAME APPARATUS

Filed Sept. 26, 1921 5 Sheets-Sheet 5

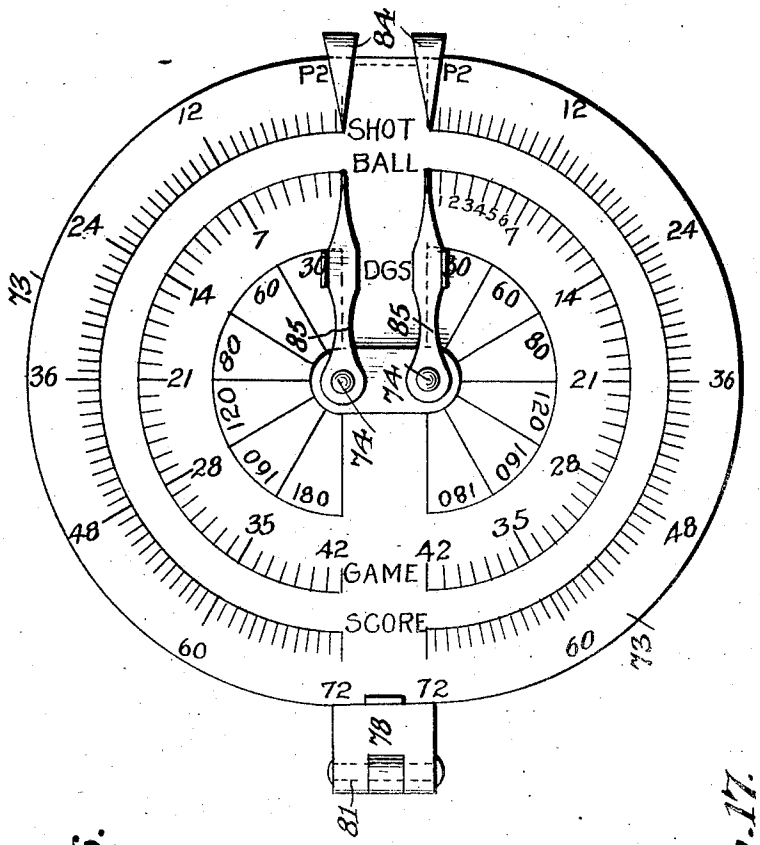


Fig. 16.

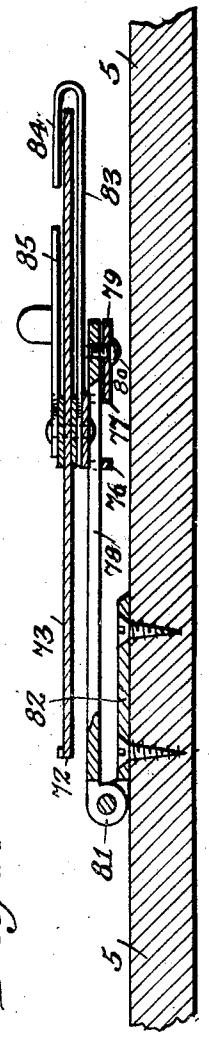


Fig. 17.

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Patented Aug. 31, 1926. 1,598,214

UNITED STATES PATENT OFFICE.

MARION MILEWSKI, OF LEBANON, PENNSYLVANIA.

GAME APPARATUS.

Application filed September 26, 1921. Serial No. 503,206.

The present invention relates to certain new and useful improvements in game apparatus, and more particularly to that type wherein a shooter is employed to project balls into passageways as is shown in my pending application Serial Number 375,001 filed April 19, 1920.

An important object of the present invention is to provide means for preventing the missile from the shooter passing into target passages when one desires to practice or if so desired missiles may be placed within the passageways so as to be capable of being hit by a cue missile and cue missile prevented from following the object or target missile by the stop mechanism.

Another object of the invention is to associate a counting mechanism with a shooter so as to calculate the number of shots which are taken in succession.

Another object of the invention is to provide a novel scoring mechanism whereby the score of four players or teams may be kept track of very easily.

A still further object of the invention is to generally improve upon this game board apparatus by providing an apparatus which will be of comparatively simple, durable and inexpensive construction, one which is efficient and reliable in operation, and well adapted to the purpose for which it is designed.

With these and numerous other objects in view, the invention resides in certain novel features of construction and the combination and arrangement of parts as will be hereinafter more fully explained and claimed.

In the drawings:—

Figure 1 is a top plan of the invention,

Figure 2 is a longitudinal vertical section taken adjacent one edge,

Figure 3 is a similar section taken centrally,

Figure 4 is a section taken on the line 4—4 of Figure 1,

Figure 5 is a section taken on the line 5—5 of Figure 1,

Figure 6 is a longitudinal section through the shooter,

Figure 7 is a front elevation thereof,

Figure 8 is an end elevation of the missile receiving receptacle,

Figure 9 is a fragmentary detailed perspective of the missile tray,

Figure 10 is a section taken on the line 10—10 of Figure 1,

Figure 11 is a plan view of the base plate of the shooting mechanism,

Figure 12 is a plan view of the guide for the shooting mechanism,

Figure 13 is a plan view of an auxiliary plate fixed to the base plate,

Figure 14 is a plan view of the shooter supporting arm with the counting mechanism attached thereto, the casing thereof being shown in section,

Figure 15 is a transverse section through the counting mechanism,

Figure 16 is a plan view of the scoring device,

Figure 17 is a section taken therethrough, and

Figure 18 is a fragmentary bottom plan thereof.

Referring to the drawings wherein is illustrated the preferred embodiment of my invention, the numeral 1 designates the base of the apparatus in its entirety, which consists of a pair of spaced longitudinally extending bars 2 maintained in spaced relation by the ends 3 disposed therebetween at their ends. A longitudinally extending base board 4 is secured upon the floor board 5 and is equipped with an enlarged inner end 5′ from which the sides of the base board diverge rearwardly to the opposite end of the base to provide a diverging raceway 6. Side walls 7 are provided for the raceway 6 to maintain balls thereon whereby these balls may be carried to the far or rear end of the raceway which is equipped with a plurality of passages 8 separated from each other by the partitions 9 which are each provided at their forward ends with the rubber tips 10. As shown more clearly in Figure 1 the forward or free ends of the partitions 9 are arranged in circular relation with the pivot point 11 of the shooting mechanism 12 as their center. A receiving chamber 12′ is positioned at the termination of the passages 8 to receive balls therefrom and the front wall thereof as indicated at 13 is provided with a plurality of openings 14 which align with the passages 8 to receive balls entering the same. The bottom 15 of this chamber is inclined outwardly and downwardly on opposite sides of the center to direct balls entering the same toward the ends 16 which are

equipped with outlet openings 17. After the balls pass out of the receiving chamber they enter the return runways 18 disposed upon opposite sides of the raceway and the balls are prevented from rolling off by the bars 2.

The plunger 20 of the shooting mechanism 12 has its end projected in the restricted end of the raceway 6. This end of the plunger 20 is provided with a rubber tip 21 which abuts the balls when they are projected in the restricted end of the raceway after the plunger has been moved rearwardly and released. This plunger 20 is slidably mounted in a casing 22 and is provided with a spring 23 wound thereabout so as to have one end in engagement with one end of the casing and its other end in engagement with a collar 24. The rear end of the plunger 20 is provided with a suitable handle or knob 25 at the inner end of which is provided a bumper 26. As the handle 25 is moved rearwardly the spring 23 is compressed and when the handle 25 is released the plunger 20 will be pushed forwardly by the spring. A slot 27 is provided adjacent the lower side of the casing 22 and an arm 28 projects therethrough and engages the nose 29 depending from the collar 24. This arm 28 actuates a counting mechanism which is mounted in the casing 30 suitably fixed to the arm 31 to which is attached the shooting mechanism. The casing 22 of the shooting mechanism is provided with an opening 34 for receiving the curved lug 35 after which the rear of the casing is attached to the lug 36 by a screw 38. The arm 28 is pivoted at one end on a pin 39 and is normally held adjacent one end of the casing as shown in Figure 14 by a spring 40 which is attached thereto and also attached to the casing 30. A ratchet wheel 41 is journalled on the pin 39 so as to be engaged by the spring pressed pawl 42 carried by the casing 30 and the spring pressed pawl 43 carried by the arm 28. Thus it will be seen that as the plunger 20 is pulled rearwardly the nose 29 engages the arm 28 whereby the spring pressed pawl 43 engages the ratchet wheel 41 so as to turn the same and the spring pressed pawl 42 retains it in its advanced position when the spring 40 returns the arm 28 to its starting point. A pointer or indicating hand 44 is keyed to the pin 39 which is also keyed to the ratchet wheel 41 and this indicating hand 44 passes over a dial 45 having suitable indices thereon associated with the indicating hand 44 in such a manner that the strokes of the plunger 20 may be counted as will be readily understood. The base plate 46 is suitably attached to the base 4 so as to terminate under the restricted portion of the raceway 6 which is slightly raised from the base 4 thereby forming a pocket 47. An auxiliary plate 48 is attached thereto and is shown in detail in Figure 13. A pivot point or aperture 11 is provided in the plate 46 for receiving the lug 49 depending from the arm 31. The other end of this arm 31 is provided with depending lugs 50 which move in the guideway 51 provided in the guide plate 52. As shown in Figure 3 the passages 8 are provided with indentures 55 for receiving balls. A stop mechanism indicated generally at 56 is provided over the passageways so that the same may be raised or lowered out and in engagement therewith so as to prevent a cue ball from passing therethrough. This stop mechanism 56 consists of a pair of arms 57 which are pivoted at 58 to the receptacle 12′ and their free ends are attached to a bar 58 having thereon a plurality of bumpers 59 situated so as to be immediately above the indentures 55 and thus it will be seen that when the stop mechanism is in a lowered position the cue ball may be shot by the shooting mechanism and abut or strike an object ball in one of the passages 8 at the same time striking one of the bumpers 57 whereby the object ball will be forced through the passage and the cue ball will be returned to a position adjacent the shooting mechanism. The balls which are used in playing this game, are preferably mounted in a tray 60 which consists of a pair of semi-circular end pieces 61 connected by the plate 62 which is provided with a central longitudinal slot 63 and it will be noted that this plate 62 is substantially semi-circular in cross section so as to conform with the shape of the end pieces 61. Suitable felt or cloth padding 67 is mounted on the plate 62 so as to prevent the balls from becoming scratched or in other ways marred. The tray 60 is situated within the receptacle 64 when not in use which is provided with a closure 65 pivoted at 66 and has a hooked member 69 for engaging a screw 70.

In Figures 16 to 18 inclusive there is illustrated a scoring apparatus which consists of the plate 72 having the two semi-circular side edges 73. This plate 72 is provided with a pair of spaced rivets 74 passing centrally therethrough so as to receive the bracket 75 which is equipped with lugs 76 and 77. The lug 76 is provided with an aperture for receiving the end of the arm 78 while the lug 77 is likewise provided with an aperture for receiving the end of the arm 78 and is also provided with an extension 79 which is fixed to the end of the arm 78 by a screw 80. The arm 78 is hinged at 81 to a bracket 82 suitably fixed on the floor 5. A pair of pointers 83 are fulcrumed on the rivets 74 so as to extend along the under face of the plate 72 and have their ends bent over so as to form the extensions 84 which project inwardly toward the center of the plate and are pro-

vided with indicating points which co-operate with suitable indices provided on the upper surface of the plate 72. A pair of indicating arms 85 are also fulcrumed on the rivets 74 and cooperate with suitable indices on the plate 72 and thus four individuals or teams may be scored upon this scoring mechanism.

The foregoing description and drawings have reference to the preferred or approved embodiment of my invention and it is to be understood that I may make such changes in construction and arrangement of parts as may prove expedient and fall within the scope of the invention as claimed.

Having thus described my invention what I claim as new is:

1. A game apparatus comprising in combination a triangular race way, a structure forming a passage at the wide end of the race way, a missile projecting means on the narrow end of the race way, a missile associated with said means and capable of passing thru said passage, and a bumper movable in and out of said passage to prevent said missile from passing therefrom.

2. A game apparatus comprising in combination a triangular race way, a structure forming an enclosed passage at the wide end of the race way, said passage traversing said race way, the ends of said structure opening on the apparatus exterior of the race way, a missile projecting means at the opposite end of the race way, a missile associated with said means capable of passing thru said passage, and means for preventing said missile from entering the passage.

3. A game apparatus comprising in combination a raceway, a passage at one end of the raceway, a missile projecting means at the other end thereof, a missile associated with said means and capable of passing through said passage, and a bumper movable in and out of said passage so that when disposed in said passage it prevents said missile from passing therethrough.

4. A game apparatus comprising in combination a raceway, a missile projecting means at one end thereof, a missile associated with said means, a plurality of passages through which said missile may pass at the opposite end of the raceway and provided with indentures, other missiles adapted to be disposed in said indentures, and a bumper mechanism movable in and out of engagement with the passages and adapted to normally hold the second mentioned missiles in said indentures in the manner and for the purpose specified.

5. A game apparatus comprising in combination a raceway, a missile projecting means at one end thereof, a missile associated with the means, a plurality of passages at the opposite end of the raceway for receiving said missile, a pair of arms pivotally mounted adjacent the passages, a bar engaging the ends of the arms, and a plurality of bumpers situated on the bar above the plurality of passages so that the same may be forced in and out of engagement therewith.

6. In a game apparatus, a race way, a passage at one end of the race way, a missile projecting means at the opposite end thereof, a missile associated with said means and capable of passing thru said passage, a bar extending transversely on the apparatus, a pair of arms pivotally supporting said bar, said race way having spaced apart passages extending parallel to the sides, and a bumper means on said bar over each of said passageways serving to form a stop when in lowered position.

In testimony whereof I affix my signature.

MARION MILEWSKI.