June 29, 1954 J. L. WARNS ET AL 2,682,408

GOLF GAME APPARATUS

Filed March 21, 1952 3 Sheets-Sheet 1

FIG. 1

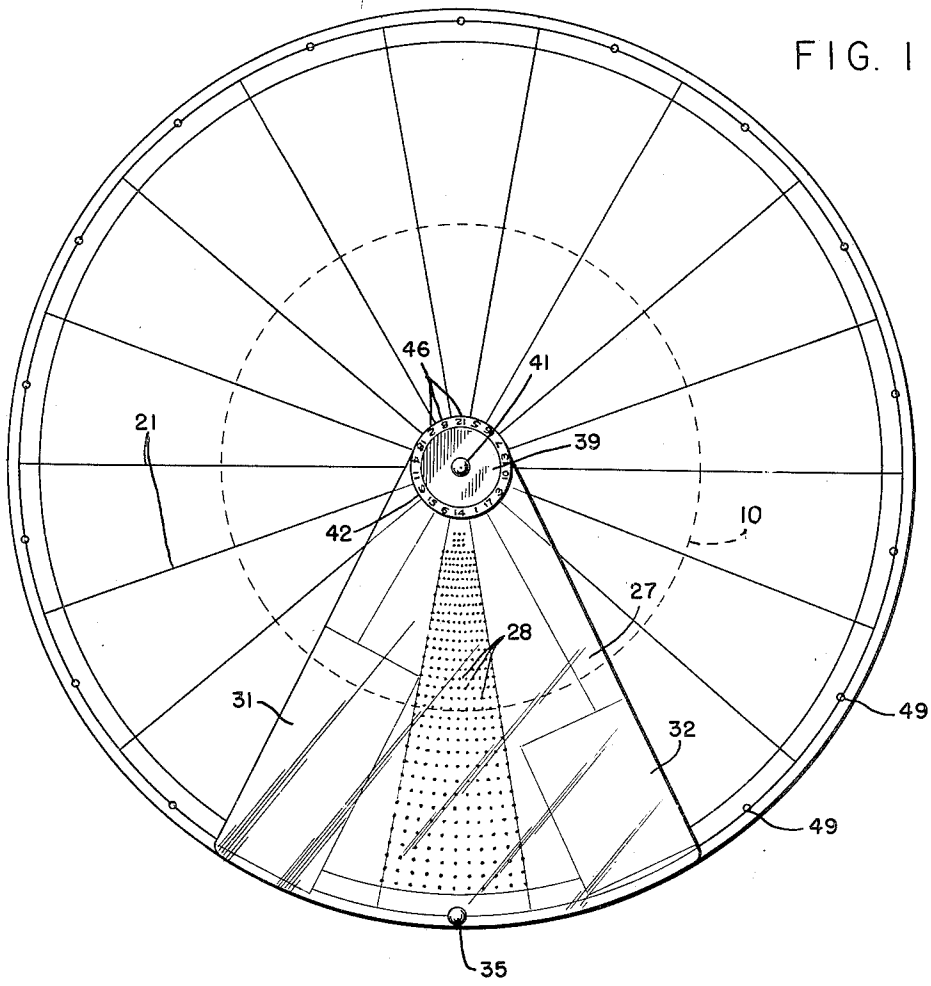
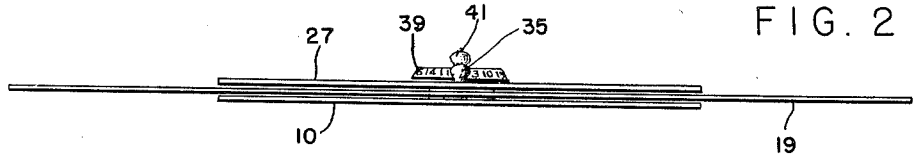


FIG. 2



INVENTORS
JEROME L. WARNS
AND
HENRY J. WARNS

BY Caswell & Lagaard

ATTORNEYS

June 29, 1954 J. L. WARNS ET AL 2,682,408

GOLF GAME APPARATUS

Filed March 21, 1952 3 Sheets-Sheet 2

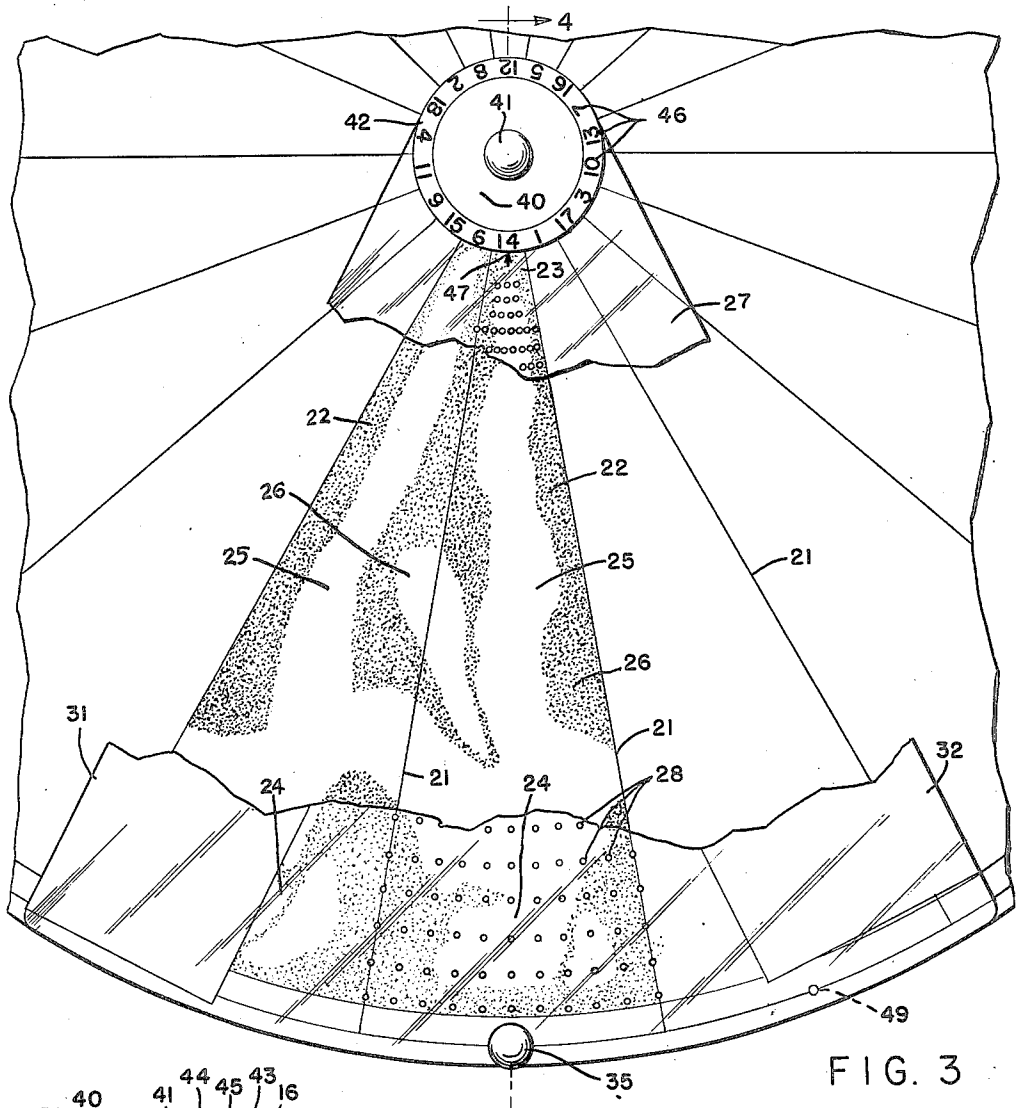


FIG. 3

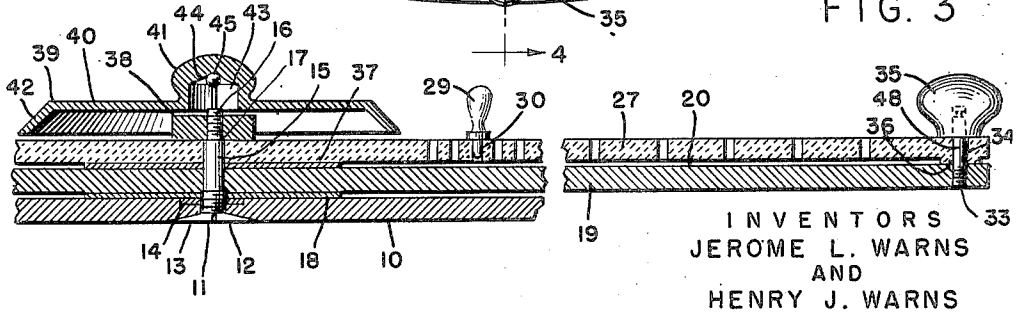


FIG. 4

INVENTORS
JEROME L. WARNS
AND
HENRY J. WARNS

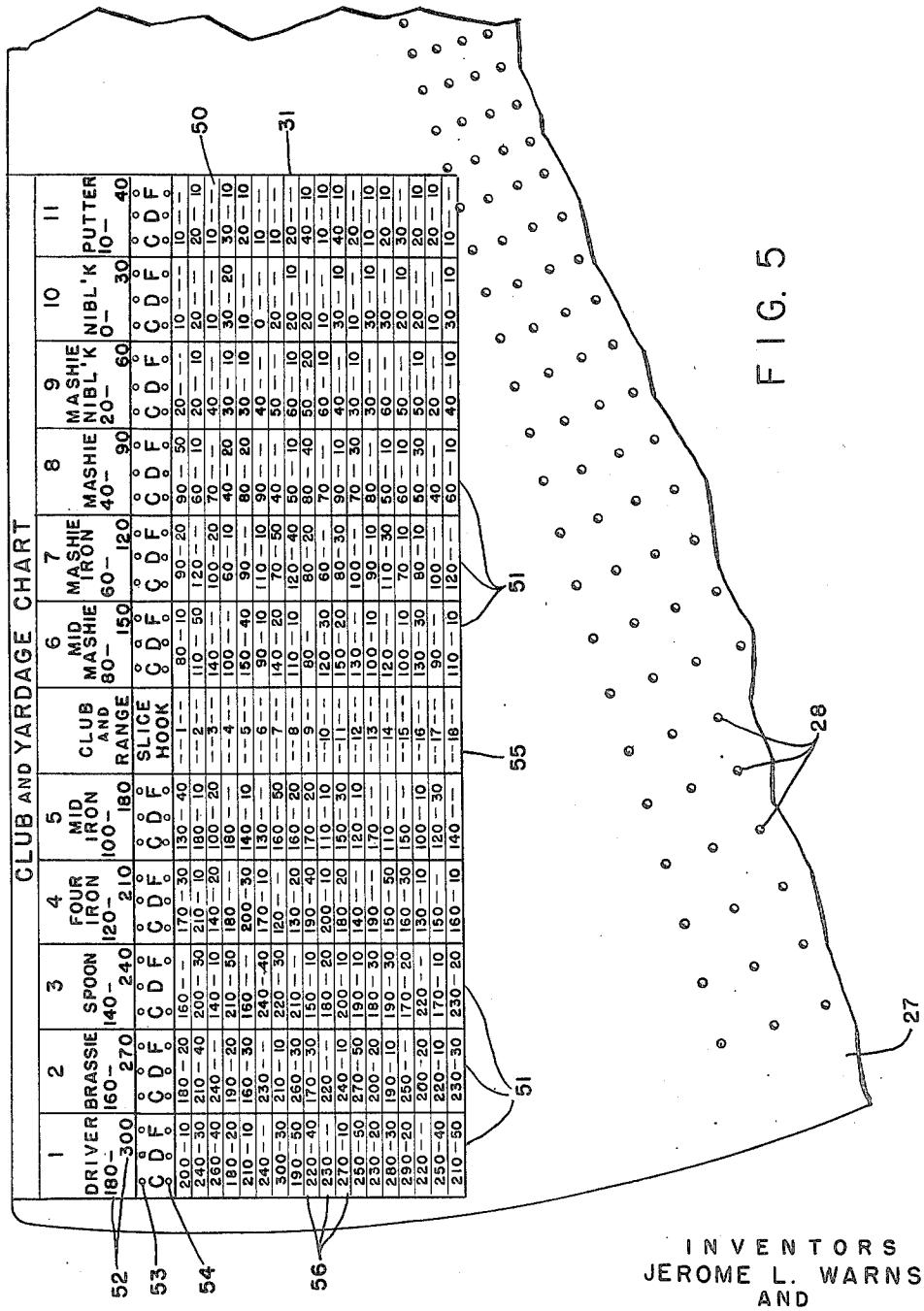
BY Caswell & Lagrand

ATTORNEYS

June 29, 1954 J. L. WARNS ET AL 2,682,408

GOLF GAME APPARATUS

Filed March 21, 1952 3 Sheets-Sheet 3



CLUB AND YARDAGE CHART

1 DRIVER 180–300	2 BRASSIE 160–270	3 SPOON 140–240	4 FOUR IRON 120–210	5 MID IRON 100–180	CLUB AND RANGE SLICE / HOOK	6 MID MASHIE 80–150	7 MASHIE IRON 60–120	8 MASHIE 40–90	9 MASHIE NIBL'K 20–60	10 NIBL'K 0–30	11 PUTTER 10–40
° ° ° C D F	° ° ° C D F	° ° ° C D F	° ° ° C D F	° ° ° C D F		° ° ° C D F	° ° ° C D F	° ° ° C D F	° ° ° C D F	° ° ° C D F	° ° ° C D F
200 — 10	180 — 20	160 — —	170 — 30	130 — 40	— — 1 — —	80 — 10	90 — 20	90 — 50	20 — — —	10 — — —	10 — —
240 — 30	210 — 40	200 — 30	210 — 10	180 — 10	— — 2 — —	110 — 50	120 — —	60 — 10	20 — 10	20 — — —	20 — 10
260 — 40	240 — —	140 — 10	140 — 20	100 — 20	— — 3 — —	140 — —	100 — 20	70 — —	40 — —	10 — — —	10 — —
180 — 20	190 — 20	210 — 50	180 — —	160 — —	— — 4 — —	100 — —	60 — 10	40 — 20	30 — 10	30 — 20	30 — 10
210 — 10	160 — 30	160 — —	200 — 30	140 — 10	— — 5 — —	150 — 40	90 — —	80 — 20	30 — 10	10 — —	20 — 10
240 — —	230 — —	240 — 40	170 — 10	130 — —	— — 6 — —	90 — 10	110 — 10	90 — —	40 — —	0 — — —	10 — —
300 — 30	210 — 10	220 — 30	150 — —	160 — 50	— — 7 — —	140 — 20	70 — 50	40 — —	50 — —	20 — —	10 — —
190 — 50	260 — 30	210 — —	130 — 20	160 — 20	— — 8 — —	110 — 10	120 — 40	50 — 10	60 — 10	20 — 10	20 — —
220 — 40	170 — 30	150 — 10	190 — 40	170 — 20	— — 9 — —	80 — —	80 — 20	80 — 40	50 — 20	20 — —	40 — 10
230 — —	220 — —	180 — 20	200 — 10	110 — 10	— —10— —	120 — 30	60 — —	70 — —	60 — 10	10 — —	10 — 10
270 — 10	240 — 10	200 — 10	180 — 20	150 — 30	— —11— —	150 — 20	80 — 30	90 — 10	40 — —	30 — 10	40 — 10
250 — 50	270 — 50	190 — 10	140 — —	120 — 10	— —12— —	130 — —	100 — —	70 — 30	30 — —	10 — —	20 — —
230 — 20	200 — 20	180 — 30	190 — —	170 — —	— —13— —	100 — 10	90 — 10	80 — —	30 — —	30 — 10	10 — 10
280 — 30	190 — 10	190 — 30	150 — 50	110 — —	— —14— —	120 — —	110 — 30	50 — 10	60 — —	30 — —	20 — 10
290 — 20	250 — —	170 — 20	160 — 30	150 — —	— —15— —	100 — 10	70 — 10	60 — 10	50 — —	20 — 10	30 — —
220 — —	200 — 20	220 — —	130 — 10	100 — 10	— —16— —	130 — 30	80 — 10	50 — 30	50 — 10	20 — —	20 — 10
250 — 40	220 — 10	170 — 10	150 — —	120 — 30	— —17— —	90 — —	100 — —	40 — —	20 — —	10 — —	20 — 10
210 — 50	230 — 30	230 — 20	160 — 10	140 — —	— —18— —	110 — 10	120 — —	60 — 10	40 — 10	30 — 10	10 — —

FIG. 5

INVENTORS
JEROME L. WARNS
AND
HENRY J. WARNS

BY Caswell & Lagaard

ATTORNEYS

Patented June 29, 1954 2,682,408

UNITED STATES PATENT OFFICE

2,682,408

GOLF GAME APPARATUS

Jerome L. Warns and Henry J. Warns, St. Paul, Minn., assignors to Indoor Golf Company, St. Paul, Minn., a corporation of Minnesota

Application March 21, 1952, Serial No. 277,752

13 Claims. (Cl. 273—87)

1

The herein disclosed invention relates to parlor games and particularly to a game simulating golf and has for an object to provide a game which will be interesting and fascinating to play and which will closely simulate the actual game.

Another object of the invention resides in providing a game by means of which several players may alternately take turns in playing.

A still further object of the invention resides in providing a game in which one game board is used divided into sections corresponding with the holes of a golf course and in which a single playing board may be used with any of the sections of the game board.

An object of the invention resides in providing a base having a standard issuing upwardly therefrom and formed with a journal and in rotatably mounting the game board on said journal and in constructing the sections segmental shaped and converging toward the axis of said journal and in further providing said sections with demarkations designating tees, greens, fairways and hazards.

Another object of the invention resides in arranging the playing board in overlying position relative to said game board and in journaling said playing board on said journal and in providing said playing board with a number of holes arranged in arcuate rows concentric with the axis of the journal and adapted to register with said tees, greens, fairways and hazards and serving as markers, the distances between said rows being a predetermined number of yards as measured on the game board in a radial direction.

A still further object of the invention resides in providing playing pieces having stems insertable into said holes, said playing pieces being movable over the playing board in accordance with the indications of a chance device.

Another object of the invention resides in utilizing a rotatable chance device and in providing a pivot mounted on said standard and on which said chance device may rotate.

A feature of the invention resides in the specific construction of the pivot means for the game board and playing board.

Other objects of the invention reside in the novel combination and arrangement of parts and in the details of construction hereinafter illustrated and/or described.

In the drawings:

Fig. 1 is a plan view of a game illustrating an embodiment of the invention.

Fig. 2 is an elevational view of the structure shown in Fig. 1.

Fig. 3 is a fragmentary plan view of a portion

2

of the structure shown in Fig. 1 with parts cut away to more clearly illustrate the invention and drawn to a greater scale than Fig. 1.

Fig. 4 is a fragmentary cross sectional view taken on line 4—4 of Fig. 3 and drawn to a still greater scale.

Fig. 5 is a fragmentary plan view of a portion of the playing board shown in Fig. 1 and illustrating the club and yardage chart, said view being drawn to a greater scale.

The construction shown in the drawings comprises a planiform base having a standard secured thereto and issuing upwardly therefrom. This standard is formed with a journal on which is pivoted a circular game board and a segmental shaped playing board. Between the base and game board and between the game board and playing board are spacers which hold the parts in spaced relation. The upper end of the standard is threaded to receive a nut which holds the parts in proper relation. The upper end of the threaded portion of the standard has a pivot formed thereon on which is rotatably mounted a rotatable chance device. The game board is divided into sections preferably 18 or 9 in number, corresponding to the holes of a golf game, and each section is formed with demarkations indicating tees, greens, fairways and hazards. A number of holes are formed on the playing board corresponding with certain localities of the sections and are adapted to receive playing pieces movable with respect to said playing board in accordance with the operation of the chance device. The holes are arranged in arcuate rows concentric with the axis of the standard and the distance between rows of holes is a number of yards measured radially along the playing surface of the game board. The playing board is made transparent so that the demarkations on the playing surface may be readily seen. A locking device serves to hold the playing board attached to the game board and in register with any of the various sections thereof. The entire game board and playing board may be rotated with reference to the base to present the playing board to any of a number of players seated about a table on which the game is used.

The invention comprises a base 10 constructed of any suitable board and of a sufficient thickness to properly support the remainder of the game in spaced relation to the surface of the table on which the game rests. The base 10 is preferably circular in form though the same may be of any desired shape. Extending upwardly from the base 10 is a standard 11 formed with a head 12 conical in shape. Adjacent the head is provided a

threaded shank 13. The said standard extends through the base 10 and the head 12 is imbedded in the bottom of the base. A nut 14 is screwed down on the shank 13 and clamps the standard to the base. This nut is also recessed into the base. The standard 11 is formed above the shank 13 with a journal 15 and above said journal with a screw 16 of smaller diameter than the said journal and forming a shoulder 17 therebetween.

Encircling the journal 15 of standard 11 is a spacer 18 in the form of a washer. Overlying the said washer and the base 10 is a game board 19 preferably circular in form and of the desired size. The game board 19 is constructed of a board similar to the base 10. This game board is formed with an upper playing surface 20. The game board 19 is rotatably mounted on the journal 15 and rests on the spacer 18. The playing surface 20 of the game board is divided into a number of segmental shaped sections 21. The areas of these sections have demarkations 22 thereon forming on the sections tees 23, greens 24, fairways 25, and hazards 26. These fairways, greens and hazards may all be of different configuration and each of the sections may be different so that each hole played will have a different geographic appearance.

Overlying the game board 19 is a playing board 27. This playing board is segmental in shape and near the apex thereof is mounted for rotation on the journal 15. Between the playing board 27 and the game board 19 is a spacer 37 in the form of a washer which encircles the journal 15 and which holds the playing board 26 above the game board 19 in proper spaced relation. A nut 38 screwed upon the screw 16 of standard 11 holds the parts assembled. The playing board 27 is constructed of transparent material such as a transparent plastic whereby the contour of the playing surface 20 may be seen through the playing board. Formed on the playing board intermediate its lateral edges are a number of holes 28 which serve as markers and are arranged in arcuate rows concentric with the axis of the standard 11. These rows are preferably spaced apart in a radial direction an even number of yards as measured on the playing surface 20, as for example, 10 yards. Playing pieces 29 have stems 30 which may be inserted into the holes 28. These stems 30 are preferably slightly tapered which aids directing the stems into the holes 28.

The playing board 27, as shown in Fig. 1, may be rotated with respect to the standard 12 so as to bring the central portion of the same having the markers 28 thereon opposite any of the sections 21 of the playing surface 20. In the particular form of the invention shown, 18 sections are shown each corresponding with one of the holes of a golf course. Inasmuch as the particular configuration of the demarkations on the game board may be varied to suit the individual, the entire configuration of the game board has not been shown but only that of two of the sections, and such demarkations are shown only in Fig. 3. On the playing board 27 are mounted two cards 31 and 32 which may contain tables and directions for playing the game. A locking device 33 in the form of a screw is used for holding the playing board 27 in proper position with reference to the game board 19. This screw has a shank 48 which passes through a hole 34 in the playing board 27. The said shank is imbedded in a knob 35 by means of which the said screw may be rotated. Screw 33 is adapted to screw into holes 49 in the board 19. A pad 36 cemented to the bottom of the playing board 27 and of the same thickness as the spacer 37 and encircling the shank 48 holds the playing board 27 in proper spaced position above the game board 19.

For determining the movement of the playing pieces a rotatable chance device 39 is employed which is shown in detail in Fig. 4. This chance device consists of a circular disc 40 having a hub 41 at the center and a flange 42 at its periphery inclining downwardly from the disc. The hub 41 is in the form of a knob and serves as a means whereby the chance device may be rotated. Within the hub 41 is formed a conical depression 43. A stem 44 is secured to the upper end of the screw 16 and has mounted on it a ball 45. This ball is received in the depression 43 and serves as a pivot for the chance device. Indicia 46 on the flange 42 of the chance device 39 are adapted to register with an arrow 47 on the playing board 27. When the chance device 39 is rotated one of the indicia stops opposite the arrow 47 and indicates the movements of the playing pieces.

In the playing of the game rules may be chosen and any desired method of determining the movement of the playing pieces may be chosen. As an example, a chart such as indicated at 50 in Fig. 5 may be employed. This chart is printed on the card 31. This chart has a number of columns 51 headed by a number from "1" to "11," inclusive. These numbers correspond to golf clubs and the particular column is also headed by the description of the corresponding club. Below the club notation are numbers indicated by the reference character 52. These numbers indicate the minimum and maximum number of yards which can be played in the game with the particular club designated. Below the numbers 52 of each column appear the letters "C," "D" and "F." These letters stand for direction of play, namely, cross play, diagonal play and forward play. Above and below these letters are markers 53 and 54 and in which suitable pegs similar to the playing pieces 29 may be inserted. In addition, another column indicated at 55 is employed which is headed by the notation "Club and range." In the row containing the markers 53 and 54 and in column 55 is found the notation "Slice" opposite marker 53 and "Hook" opposite markers 54. All of the columns are divided into 18 rows 56 and in the column 55 appear the numbers "1" to "18," inclusive, to correspond with each row. These numbers correspond to the indicia 46 on the chance device 39. In each of the spaces formed by the rows 56 and columns 51 appear one or two groups of numbers. In the column for the No. 1 club or driver the numbers "200–10" appear in the first row. The first of these numbers indicates the number of yards the playing piece is to be moved in the direction chosen, while the second number indicates the number of yards the playing piece is to be moved to the right or left (slice or hook).

To start the game the player places the playing board over the section on which hole 1 is positioned and rotates the game board till the playing board is in front of him. He then places a peg in one of the markers 53 or 54, choosing the club he wishes to play and at the same time designates whether he will play a slice or a hook and in what direction he will drive. If the fairway is long and the hole to the left, he may choose the marker above "F" in the first column. He then spins the chance device 39. If the same

stops with the numeral "14" opposite arrow **47** he runs down column **55** till he reaches this numeral. He then traces across the row corresponding therewith till he reaches the first column. In this column he will find the numbers "280–30." This means that he will move forward 280 yards and to the right 30 yards. As previously stated, the distance between the markers **28** will be a predetermined number of yards. In the game illustrated the distance between the first four rows of holes represent 50 yards while the distance between the succeeding rows represent 10 yards. The player then counts off the yardage on the playing board **27** in both a forward direction and toward the right and sets a playing piece in the appropriate marker **28**. The game board is then rotated to present the playing board to the next player. He proceeds in like manner. The playing then continues until the players have holed out, after which the playing board is moved to the next section of the game board. To render the game more realistic, rules may be provided and applied to the card **32** which determine penalties for out of bounds shots and other irregular shots. One set of such rules are as follows, though it can be readily comprehended that the rules may be varied to suit the individual:

Rules and penalties

Sandtraps.—Use No. 8 club.

Water.—Penalty one stroke. Shoot over from last position.

Woods.—Penalty one stroke. Move ball to first hole outside of area marked "Woods" in a lateral direction.

Rough.—Deduct 30 yards from next shot. Deduct the 30 yards from the forward motion. The hook and slice remain the same.

Rolls.—On the areas marked "Roll" move the ball down the roll on a straight line to the first hole on the level.

Special wood section.—1. Player follows the wood penalty. 2. Or uses the wood penalty club, 9 iron.

Heavy rough.—Player must use the heavy rough penalty club, 7 iron.

Lost ball, in small red circles.—Player has lost the ball, penalty one stroke play the ball from nearest hole outside red penalty area.

Out of bounds.—1. On the sides—when player has shot beyond the edge of the playboard on either side he places ball on the last hole at edge of field where ball went out. 2. At the far end of board—player loses one stroke and shoots over from his last position.

Two players on same hole.—If two players land on the same position on the field the second player is penalized one stroke and moves his ball to the hole directly behind the first player's ball.

Stymie.—If a player hits or crosses a hole occupied by another player while in the course of putting, his putt is nullified, and he places his ball in the hole directly behind the ball where the infraction occurred and shoots again, thereby costing himself one stroke

If a player finds himself "stymied," i. e. another ball occupying a hole between his ball and the pin, he must shoot around that ball or take a stymie penalty.

Hitting the pin.—If a player hits the pin on the green with a shot which is more than 100 yards away, he has not holed the ball, but takes instead a two shot penalty and he places his ball on the hole next to the pin. In match play—loss

of hole. On shots less than 100 yards, it is not a penalty, and the player holes the ball.

Hitting a player.—If a player lands on a hole where there is a figure of a golfer or a caddie, he incurs a one-stroke penalty and plays the ball from that hole.

The advantages of the invention are manifest. Any one of the players within the limits of a number of markers on the playing board may play and alternately take turns playing. The full 18 holes may be provided so that full interest is maintained in the playing of the game. The demarkations on the game board may be made most realistic so that a close simulation of the real game is procured. With the invention all of the hazards encountered in the actual playing of golf may be simulated in the play. The playing board is readily shifted with reference to the game board to change the section being played. The game is relatively flat and can be constructed without appreciable height. If desired, the game can be incorporated into and made part of an ordinary card table, the card table constituting the base of the invention.

Changes in the specific form of the invention, as herein described, may be made within the scope of what is claimed without departing from the spirit of the invention.

Having described the invention, what is claimed as new and desired to be protected by Letters Patent is:

1. In a game simulating golf, a game board divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards, a playing board overlying said game board, pivot means situated at said center and supporting said playing board for rotation relative to said game board, markers on said playing board registrable with said tees and certain portions of said greens, fairways and hazards, individual playing pieces placeable at said markers and a chance device for determining the particular markers at which the playing pieces are to be played.

2. In a game simulating golf, a game board divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards, a transparent playing board overlying said game board, pivot means situated at said center and supporting said playing board for rotation relative to said game board, markers on said playing board registrable with said tees and certain portions of said greens, fairways and hazards, individual playing pieces placeable at said markers and a chance device for determining the particular markers at which playing pieces are to be played.

3. In a game simulating golf, a game board divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards, a transparent playing board overlying said game board, pivot means situated at said center and supporting said playing board for rotation relative to said game board, holes in said playing board and serving as markers registrable with said tees and certain portions of said greens, fairways and hazards, individual playing pieces insertable into said holes and a chance device for determining the particular markers at which the playing pieces are to be played.

4. In a game simulating golf, a game board

divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards, a playing board overlying said game board, pivot means situated at said center and supporting said playing board for rotation relative to said game board, markers on said playing board registrable with said tees and certain portions of said greens, fairways and hazards, locking means for retaining said playing board in fixed relation with any of said sections, individual playing pieces placeable at said markers and a chance device for determining the particular markers at which the playing pieces are to be played.

5. In a game simulating golf, a game board divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards, a transparent playing board overlying said game board, pivot means situated at said center and supporting said playing board for rotation relative to said game board, holes in said playing board and serving as markers registrable with said tees and certain portions of said greens, fairways and hazards, said holes being arranged in arcuate rows concentric with reference to said center, the distance between said rows representing a predetermined number of yards measured on said sections in a radial direction, individual playing pieces placeable at said markers and a chance device for determining the particular markers at which the playing pieces are to be played.

6. In a game simulating golf, a game board divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards, a playing board overlying said game board, pivot means situated at said center and supporting said playing board for rotation relative to said game board, holes in said playing board registrable with said tees and certain portions of said greens, fairways and hazards, individual playing pieces having stems insertable into said holes and shouders engageable with the face of said playing board and a chance device for determining the particular markers at which the playing pieces are to be played.

7. In a game simulating golf, a game board divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards, a playing board overlying said game board, pivot means situated at said center and supporting said playing board for rotation relative to said game board, markers on said playing board registrable with said tees and certain portions of said greens, fairways and hazards, individual playing pieces placeable at said markers and a rotatable chance device having its axis at the locality of said center for determining the particular markers at which said playing pieces are to be placed.

8. In a game simulating golf, a game board divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards, a playing board overlying said game board, a standard extending through said game board at said center and serving as pivot means for supporting said playing board for rotation relative to said game board, markers on said playing board registrable with said tees and certain portions of said greens, fairways and hazards, individual playing pieces placeable at said markers and a rotatable chance device pivoted on said standard for determining the particular markers at which said playing pieces are to be placed.

9. In a game simulating golf, a game board divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards, a base, a standard secured to said base and extending upwardly therefrom and through said game board at the center thereof, a playing board overlying said game board, said standard extending through said playing board and supporting said playing board for rotation relative to said game board, markers on said playing board registrable with said tees and certain portions of said greens, fairways and hazards, individual playing pieces placeable at said markers and a chance device for determining the particular markers at which the playing pieces are to be played.

10. In a game simulating golf, a game board divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards, a base, a standard secured to said base and extending upwardly therefrom and through said game board at the center thereof, a playing board overlying said game board, said standard extending through said playing board and supporting said playing board for rotation relative to said game board, markers on said playing board registrable with said tees and certain portions of said green, fairways and hazards, individual playing pieces placeable at said markers and a rotational chance device mounted for rotation on said standard for determining the particular markers at which said playing pieces are to be played.

11. In a game simulating golf, a game board divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards, a planiform base, a standard extending through said base, said standard having a head imbedded into the underside of the base and a threaded shank and clamping the standard to said base, said standard being formed with a journal above said base, a playing board overlying said game board, said journal extending through said game board and through said playing board and journaling said boards for rotation relative to one another and to said base, a spacer between said base and game board, a spacer between said game board and said playing board, a screw on the end of said journal, a nut screwed on said screw and holding the parts in assembled relation, markers on said playing board registrable with said tees and certain portions of said greens, fairways and hazards, individual playing pieces placeable at said markers and a chance device for determining the particular markers at which the playing pieces are to be played.

12. In a game simulating golf, a game board divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards, a planiform base, a standard extending through said base, said standard having a head imbedded into the underside of the base and a threaded

shank extending through said base, a nut screwed on said threaded shank and clamping the standard to said base, said standard being formed with a journal above said base, a playing board overlying said game board, said journal extending through said game board and through said playing board and journaling said boards for rotation relative to one another and to said base, a spacer between said base and game board, a spacer between said game board and said playing board, a screw on the end of said journal, a nut screwed on said screw and holding the parts in assembled relation, markers on said playing board registrable with said tees and certain portions of said greens, fairways and hazards, individual playing pieces placeable at said markers, a pivot formed on the end of said screw and a rotatable chance device pivoted on said pivot for determining the particular markers at which said playing pieces are to be placed.

13. In a game simulating golf, a game board divided into a number of segmental shaped sections converging to a common center, each of said sections having demarkations thereon designating a tee, a green, a fairway and hazards,

said tee being disposed near the apex of the section and said green near the circumference thereof, a playing board overlying said game board, pivot means situated at said center and supporting said playing board for rotation relative to said game board, markers on said playing board registrable with said tees and certain portions of said greens, fairways and hazards, individual playing pieces placeable at said markers and a chance device for determining the particular markers at which the playing pieces are to be played.

References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
599,452	Mitchell	Feb. 22, 1898
811,347	Whitlatch	Jan. 30, 1906
2,180,049	Hall	Nov. 14, 1939
2,521,775	Brower	Sept. 12, 1950

FOREIGN PATENTS

Number	Country	Date
322,221	Great Britain	Mar. 25, 1929