April 22, 1952 W. A. HANF 2,594,159

ROTATING DISK AUTOMATIC LOTTO GAME

Filed April 23, 1947

FIG. 1

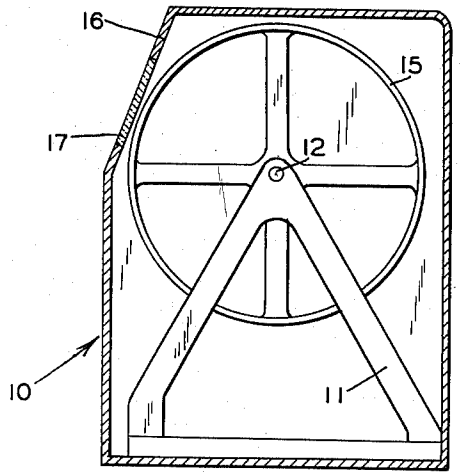


FIG. 2

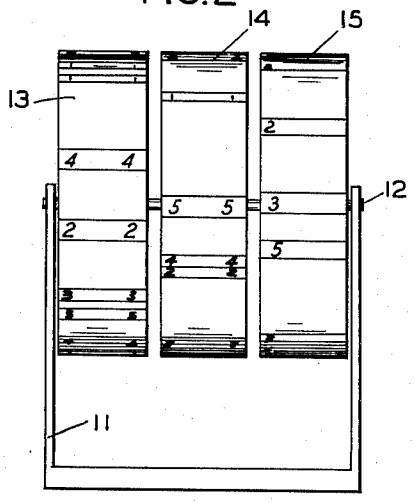


FIG. 3

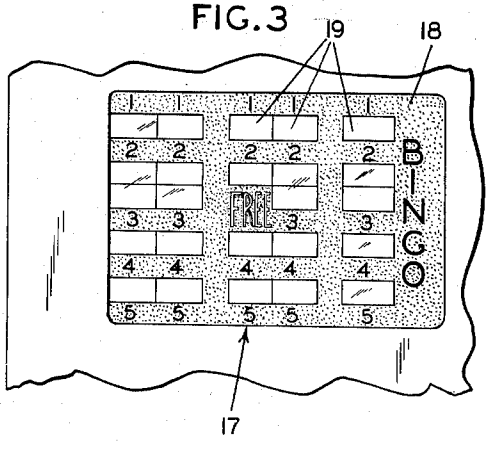
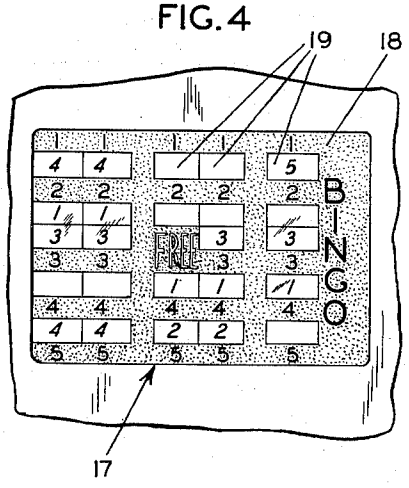


FIG. 4



Inventor

WESLEY A. HANF

By Williamson & Williamson

Attorneys

Patented Apr. 22, 1952

2,594,159

UNITED STATES PATENT OFFICE

2,594,159

ROTATING DISK AUTOMATIC LOTTO GAME

Wesley A. Hanf, Austin, Minn.

Application April 23, 1947, Serial No. 743,397

2 Claims. (Cl. 273—143)

1

This invention relates to game apparatus and is particularly adapted for playing the game of Lotto, sometimes known as "Bingo."

It is an object of the invention to provide game apparatus wherein a plurality of numbers are selected by chance with a suitable mechanism and wherein a simulated lotto card is so associated with the numbers selected by chance that the chance selected numbers and their positions relative to various positions on the simulated card are properly indicated.

Another object of the invention is to provide means for use with mechanical chance selection apparatus whereby the player can, entirely through mechanical means, play a game of Lotto without the assistance of any other person.

The above and other objects and advantages of my invention will be more apparent from the following description made in connection with the accompanying drawings wherein like reference characters refer to similar parts throughout the several views, and, in which:

Figure 1 is a longitudinal vertical sectional view through an embodiment of the invention;

Figure 2 is a front elevational view of the movable number carrying elements;

Figure 3 is an enlarged fragmentary front elevational view of the windowed element simulating a lotto card; and

Figure 4 is a view similar to Figure 3 with numbers on the elements shown in Figure 2 showing through the windows of the card.

In Figure 1 there is a casing indicated in its entirety by the numeral 10. Within the casing 10 is a generally U-shaped support 11 which carries a shaft 12 upon which several reels 13, 14 and 15 are mounted for rotation independently of each other. It is intended that the reels 13, 14 and 15 be actuated by chance controlled mechanism such as that manufactured by Mills Industries of Chicago, Illinois, formerly known as Mills Novelty Company, one such mechanism being disclosed in U. S. Patent Number 1,586,455, May 25, 1926. This mechanism, upon actuation of a suitable operating handle will cause the reels 13, 14 and 15 to rotate and further to be stopped at different relative positions on each succeeding play.

The reels 13, and 14 each have a pair of rows of numerals about them and the reel 15 has a single row of numerals about it as clearly shown in Figure 2. The numerals may be applied to the reels in any suitable manner. In the embodiment of the invention shown and for playing the game of Lotto the numerals run from 1 through 5.

The casing 10 has a slanted front portion 16 with a plate 17 suitably mounted therein, said plate having opaque portions 18 indicated by stippling in Figures 3 and 4. The plate 18 constitutes a shield which lies in front of portions of the reels or rotary elements 13, 14 and 15.

2

The shield 17 is provided with windowed areas 19 and as shown in Figures 3 and 4 each of said windowed areas 19 is identified by a numeral from 1 through 5. The upper horizontal row of windowed areas 19 is identified by the numeral 1 over each of said windowed areas. The second horizontal row has each window identified by the numeral 2 and so on, the lower horizontal row having each of its windows identified by the numeral 5.

In play, it is the object of the operator of the game device to rotate the reels 13, 14 and 15 in an attempt to secure the positioning of numerals on the reels 13, 14 and 15 in position to be viewed through correspondingly numbered windowed areas 19 in the shield 17 in one complete row, either horizontally, vertically, or diagonally. In Figure 4 the upper horizontal row of windowed areas 19 which bear the numerals 1 adjacent thereto, show the reel numerals 4 in the first two windows reading from the left. The two middle windows are blank so the 5 or right hand window in the upper horizontal row has exposed the reel numeral 5. This is not a winning combination in that row since it would be necessary to have reel numerals 1 exposed through all five of the windows 19 in the upper horizontal row of windows.

Each of the windows in the central horizontal row is numbered 3 and it will be seen that each of said windows has exposed a numeral 3 which appears on the reels 13, 14 and 15. It happens that the central horizontal row as well as the central vertical row of windows contains only 4 such windows, the middle window of each of said horizontal and vertical rows being eliminated and the word "free" being placed upon the opaque portion 18 of the shield 17.

In view of the fact that the central horizontal row of windows which are numbered 3, also expose numerals 3 on the reels, such an arrangement of numbers would constitute a winner.

To have a winner in one of the vertical rows it would be necessary for each window in the row to expose a corresponding reel numeral and in that case the winning combination would be numerals 1 through 5. Similar winners can be made by having the proper corresponding numerals appear in the windows numbered 1, 2, 4 and 5 from the upper left to the lower right hand corner and from the upper right to the lower left hand corner since the center number 3 is a free number. In other words, when the numbers 1 of reel 13 appear beneath the window numbered 1 opposite that reel, and when the numbers 2 of reel 14 simultaneously appear beneath the windows numbered 2 opposite that reel, and when the numbers 4 of reel 14 simultaneously appear

beneath the windows numbered 4 opposite that reel, and when the number 5 of reel 15 appears simultaneously beneath the window numbered 5 opposite that reel, then there is a winner.

From the foregoing it will be seen that I have provided means whereby a single player can play the game of Lotto with a mechanically operated chance controlled mechanism thereby eliminating the need for a number of playing pieces such as are ordinarily used for filling in the numbered spaces on a card when drawn numbers are called by another player or the operator of the game. This permits unattended machines to be placed at advantageous points so that individuals may play a game which ordinarily is played by a gathering of a number of people under the supervision of a person who draws and calls the control numbers.

The structure can be readily incorporated in chance controlled devices such as the one above identified and the arrangement of the numbers on the reels can be varied from time to time.

It will, of course, be understood that various changes may be made in the form, details, arrangement and proportions of the various parts without departing from the scope of my invention.

What I claim is:

1. A game apparatus for use with a chance controlled operating mechainsm, whereby the mechanism can be used for playing the game of Lotto which includes a plurality of rotary elements at least some of which have different numerals disposed in pairs in rows about their edges, a shield about said rotary elements, said shield having a plurality of windows therein, said windows being arranged in vertical rows aligned with the rows of numerals on said rotary elements, said windows also being arranged in horizontal rows of a number corresponding to the quantity of different numerical denominations on said movable elements, all of the windows of each row in one direction being identified by a common numeral corresponding to a numeral in each of said rows

on said movable elements and different from the numerals identifying all the windows in a row of each of the other rows of windows.

2. Game apparatus for use with a chance-controlled operating mechanism whereby the mechanism can be used for playing the game of Lotto, comprising a casing having front and rear walls and including an angularly disposed portion in the front wall, a substantially U-shaped support within the casing and mounted upon the bottom thereof, a plurality of revoluble reels co-axially mounted on a horizontal axis from said support with the peripheries thereof arranged substantially tangential to said angularly disposed portion, said reels each having a series of different numerals circumferentially spaced thereon in rows, said angularly disposed portion of the front wall constituting a shield and being provided with a plurality of windows therein, said windows being arranged in rows aligned with the rows of numerals on said reels, said windows also being arranged in horizontal rows of a number corresponding to the quantity of different numerical denominations on said reels, all of the windows of each row in one direction being identified by a common numeral corresponding to a numeral in each of said rows on said movable elements and different from the numerals identifying all the windows in a row of each of the other rows of windows.

WESLEY A. HANF.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
451,956	Sanderson	May 12, 1891
1,151,668	Davis	Aug. 31, 1915
1,586,455	Mills	May 25, 1926
2,039,969	McIntosh	May 5, 1936
2,190,845	Nitzberg	Feb. 20, 1940
2,219,154	Wahlberg	Oct. 22, 1940