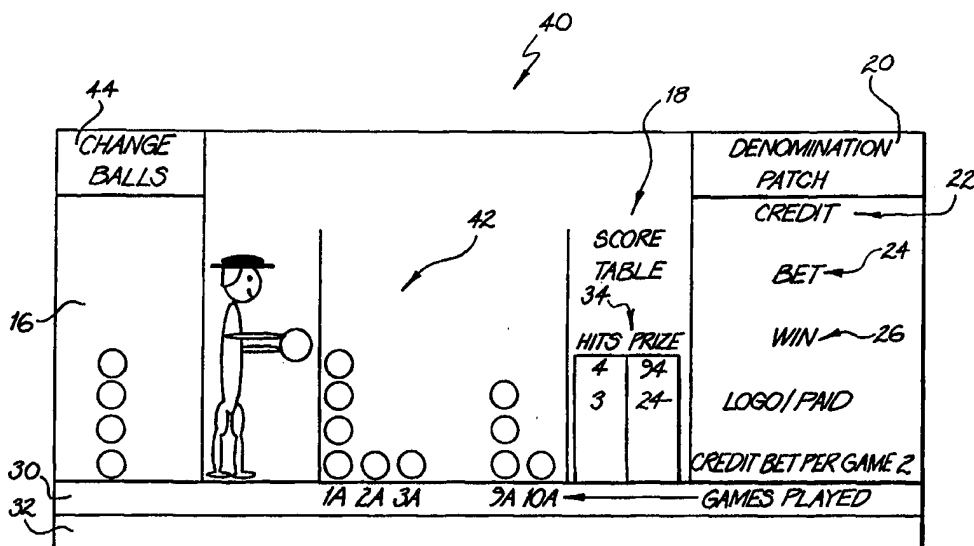




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(54) Title: GAMING MACHINE



(57) Abstract

A gaming machine for playing a lotto or bingo type game has display means, and game control means arranged to control images displayed on the display means. The game control means are arranged to play a game in which a player makes a selection, on the machine, of a series of indicia chosen from a larger group of indicia, and the game control means are arranged to generate a series of indicia drawn at random from the larger group of indicia. The display means show, in a predetermined location, those indicia which have been selected for comparison with the players selected indicia. A prize being awarded if more than a predetermined number of matches occur. It is a characteristic of the game that a plurality of games are played in parallel, with the indicia drawn at random for each game being drawn from separate groups initially corresponding to the indicia contained in the larger group of indicia, but with each game utilising the same player selection of indicia, and in that each game has a predetermined display area on the screen area distinct from the other games. This makes the game faster and more interesting for players.

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GAMING MACHINE

Background of the Invention

The present invention relates to gaming machines of the type generally referred to as slot machines, fruit machines, or poker machines, and in particular the invention provides a game to be played on such a machine.

Description of the prior art

Players who regularly play gaming machines, quickly tire of particular games and it is therefore necessary for manufacturers of gaming machines to come up with either innovative game features that add interest to the games provided on such machines, or provide new games in order to keep the players amused and willing to continue playing gaming machines.

Recently, the gaming machine market has experienced considerable growth and there is intense competition between manufacturers of gaming machines to supply the various existing and new venues. Clearly the revenue raised by an operator of a particular venue depends on the amount of money wagered. The amount of money wagered on a particular machine is related to the popularity of the machine. Thus when selecting a supplier of gaming machines, the operator of venue often pays close attention to the popularity of the various games with their patrons.

Therefore, gaming machine manufacturers are keen to devise games which are popular with players, as a mechanism for improving sales.

In particular, manufacturers regularly devise new games or game features which have not previously been seen on slot machines, in order to stimulate renewal of player interest.

The two most popular types of gaming machine either offer card games, particularly poker and variations of that game, or are machines of the traditional, and somewhat confusingly named, poker machine style (also known as fruit machines) in which the display means comprises a set of rotatable reels, each carrying a plurality of symbols, or a video simulation thereof.

However, even with the best efforts of game designers introducing features such as multi line plays, wild cards, and other similar features designed to stimulate player interest, the basic games have remained essentially the same. Gaming manufacturers have been unable to devise a
5 new game which has achieved the same level of success and player interest as card machines and poker machines.

One game which is popular in clubs, although not on gaming machines is keno. In keno, a player picks a selection of numbers ranging from 1 to 80. A series of numbers is then drawn at random from the set 1 to
10 80. The player wins or loses depending on how many of the numbers the player selected match those which have been drawn at random.

One popular version of the game, known as "Club Keno" can be simultaneously played at a large number of venues in Australia. The venues include various clubs and hotels and are linked to a central system
15 controlling the game by satellite or other suitable communication means. One game of keno is played every 15 minutes. Each player marks off their chosen numbers on a game card. The player then passes that game card and their stake money to a cashier at the venue, who processes their game card, enters the player for the next draw of keno and gives them a ticket showing
20 the number of the game to be played and the numbers the player has chosen. One or more television screens in the venue shows an image of a board having the available numbers in the game, i.e. 1 to 80. The game commences and a series of numbers are drawn at random from the set 1 to 80. The television screen indicates which numbers have been drawn at
25 random by displaying a ball showing the drawn number growing and apparently shooting outwards from the centre of the screen. The ball is then displayed at one side of the board and the particular square on the board which shows that particular number changes colour.

Keno and other bingo and lotto type games are particularly popular,
30 because players choose their own numbers for each game, and therefore have more input into the game and consequently believe they can influence the outcome of the game if they choose the numbers correctly. However, whilst keno type games are perfectly satisfactorily as a diversion or side show in a hotel or club, those games are much too slow for use as a game for
35 a gaming machine, and they supply insufficient excitement to persuade a person to play the game on a stand alone gaming machine. Further, because

the game is slow, it does not achieve a sufficiently high turnover for use on a gaming machine.

It is an object of the present invention to alleviate the disadvantages of the prior art discussed above and to provide an improved game for a gaming machine.

Summary of the Invention

The present invention consists of a gaming machine having display means, and game control means arranged to control images displayed on the display means, the game control means being arranged to play a game in which a player makes a selection, on the machine, of a series of indicia chosen from a larger group of indicia, the game control means being arranged to generate a series of indicia drawn at random from the larger group of indicia, the display means being adapted to display, in a predetermined location those indicia which have been selected for comparison with the players selected indicia, with a prize being awarded if more than a predetermined number of matches occur, characterised in that a plurality of games are played in parallel, with the indicia drawn at random for each game being drawn from separate groups initially corresponding to the indicia contained in the larger group of indicia, but with each game utilising the same player selection of indicia, and in that each game has a predetermined display area on the screen area distinct from the other games.

Thus the present invention provides a bingo type game in which a player need only make one selection of indicia, such as numbers, but which, by playing a number of games in parallel and selecting different, potentially matching, numbers at random for each game, and displaying all the games on screen creates a game with increased player interest.

In a typical embodiment the indicia are numbers.

In a preferred embodiment, the predetermined display areas on the screen which are arranged to display the numbers generated by the game control means, are a series of columns, arranged side by side. As each separate game proceeds the display is arranged to show the series of potentially matching numbers for each game drop into the column associated with that particular game to be retained for display purposes in that column if that number corresponds to one of the numbers chosen by the player. If the number does not match the chosen numbers it is caused to disappear from the column.

In a preferred embodiment one of the two columns either side of the series of columns displays the numbers chosen by the player. The other of the two columns may display the prizes awarded for each quantity of matching machines.

5 Typically, all the selected numbers are displayed as a representations of numbered balls.

In a preferred embodiment, the game includes a wild ball feature in which a ball drops into the first game column adopts a value which equates with one of the numbers chosen by the player, registers in the first column,
10 and then transfers to the next adjacent column leaving a duplicate of itself in the first column, and continues the process transferring from the, second column to the third, the third to the fourth, etc. If the wild ball lands in a column and that column already has received and retained a ball having the number adopted by the wild ball, the wild ball may change to a different one
15 of the players preselected numbers which is not already present in that column, before transferring to the next column etc..

A further preferred feature of the game when certain prizes are awarded, or events take place, extra free balls, typically three, drop into the columns.

20 **Brief Description of the Drawings**

A specific embodiment of the invention will now be described, by way of example only, and with reference to the accompanying drawings in which:

Figure 1 shows a gaming machine having a video screen for display
25 and playing of a game embodying the present invention;

Figure 2 shows a schematic drawing illustrating features of a first screen display of a game embodying the present invention;

Figure 3 shows a schematic drawing illustrating features of a second screen display of the game;

30 Figure 4 shows artwork for a first screen display corresponding generally to the schematic drawing shown in Figure 2;

Figure 5 shows artwork for a second screen display corresponding generally to the schematic drawing shown in Figure 3;

Figure 6 shows probability diagram relating to particular preferred
35 feature of the game;

Figure 7 illustrates a further preferred feature of the game; and

Figure 8 is a schematic drawing of a touch screen feature of the gaming machine.

Detailed Description of the Preferred Embodiments

Referring to the drawings, Figure 1 shows a gaming machine,
5 generally indicated at 1, adapted to play a game embodying the present invention.

The machine is of the type having a video display screen 2. The game may be initiated and controlled by one or more push buttons 4A, 4B, 4C, 4D, 4E, 4F, in conjunction with touch screen "buttons" described below.
10 The top box 6 on top of the machine carries an artwork panel 8 which displays the various winning combinations for which a prize is paid on the machine.

In the following detailed description, the methodology of the embodiments will be described, and it is to be understood that it is within
15 the capabilities of the non-inventive worker in the art to introduce the methodology on any standard micro-processor based gaming machine by means of appropriate programming.

Figure 2 shows a first screen display for the game.

The first screen 10 displays 80 white balls clearly numbered 1 to 80
20 in two groups, (numbered 12 and 14 respectively) of 40 balls. The machine includes a touch screen feature, described later, and when a ball is touched by a player, it is transferred over to a vertical column 16 on the left hand side of the screen. The vertical column of balls is put in ascending order starting from the bottom. The prizes for the number of balls selected, credits
25 bet per game and the number of hits is displayed on a score table generally indicated at 18. To the right of the screen at the top appears a denomination patch 20 is displayed which indicates the cost of each game which in this embodiment is 20 cents. Below the denomination patch at 22 there is an indication of the player credits available on the machine.

30 Below the indication of the credit available is an indication of the amount of credits bet per game at 24. In the described embodiment one, two, five or ten credits can be bet per game, but this can be varied.

Below the indication of the amount of credits bet there is, at 26, an indication of the potential win.

35 Across the bottom of the screen there are two message lines 30, 32 which can display various messages to the player.

The screen also displays an indication of the prize for a given number of hits at 34. In the screen shown in Figure 1, the player has selected four balls and thus has potential wins of 94 or 24 credits if four or three hits respectively are made.

5 Figure 4 shows suitable artwork displaying the main features of the screen of Figure 2.

 In the described embodiment the player can play either one, three, five, eight or ten games or lines simultaneously. Since the player may bet either one, two, five or ten credits per game, this gives a maximum amount
10 bet per round of one hundred credits if a player plays ten games/columns simultaneously, staking ten credits on each game.

 After inserting credit into the machine, the player selects the number of games he or she wishes to play, and then selects between three and ten balls by touching the numbered balls on the screen in the display areas 12
15 and 14. The balls which are selected/touched are transferred to the column 16 at the left hand side of the screen. If a selected ball in the column 16 is touched it is returned to its group 12 or 14. If an erase button 36 is pressed all selected balls are cancelled.

 Once the player has selected their desired balls, which must be at
20 least three in number, the player presses a play button and the screen changes to a second screen display 40, shown schematically in Figure 3.

 In this second display, a central grid 42 is shown which has ten columns, numbered 1A to 10A, to display a possible ten ball drops. (Only five of those columns are indicated in Figure 3). Up to eleven balls can stack
25 on top of each other in each column. The extreme left hand side of the screen displays the same column 16 of balls selected by the players as were displayed on the first screen 11. The extreme right hand side of the screen also remains the same as the first screen 10.

 As stated above, in the screen display shown in Figure 3, to save
30 space, only five of the columns are displayed. Figure 5 shows an embodiment of artwork for the second screen displaying all ten columns. In that embodiment, because only eight games or columns have a stake on them, columns nine and ten are darkened. The "erase" button 36, changes to a "change balls" "button" 44.

35 The machine then randomly drops ten lots of twenty numbered balls from one to eighty, including a possible wild ball into the columns. The

games are independent so that the numbers dropped for one game/column do not influence the numbers selected to be dropped into another column. Numbers may drop into the columns simultaneously i.e one number drops into each column at the same time, or alternatively, the numbers may drop in sequence, one column after another, although the sequence is desirably fast to retain the player interest. All ten games have a twenty ball drop irrespective of whether the games have a stake on them or not.

The score table 18 from the right of the previous screen is carried over to the second screen. The score table instantaneously updates if credits bet per game is change. The game is played on this second screen until the player wishes to change their selected balls or the player runs out of credits.

Pressing the change balls button (which may be a physical button or a touch screen "button" 44 such as is shown in Figure 5) returns the game to the first screen display 11, to enable a fresh selection of balls to be made.

The game includes a "wildball" feature in which a ball drops into the first game column 1A, adopts a value which equates with one of the numbers chosen by the player, registers in the first column 1A and then transfers to the next adjacent column 2A leaving a duplicate of itself in the first column and continues the process, transferring from the second column 2A to the third column 3A the third to the fourth etc. If the wildball lands in a column and that column already has received and retained a ball having the number adopted by the wildball, the wildball may change to a different one of the players preselected numbers which is not already present in that particular column before transferring to the next column. The wildball may of course first appear in a column other than the first column 1A say for example the third column 3A in which case it will just travel to the fourth to the tenth columns. The wildball will also double the prize for any win.

A second preferred feature of the game is a free balls feature. Pressing the "free balls" button when the shaded prize has been won (see Figure 9 discussed below), drops an extra three free balls in each of columns 1A to 10A.

When either the wildball appears or the extra free balls feature occurs, congratulatory sounds are produced by the machine.

Figure 9 is a table showing the prizes awarded for selected numbers of hits when between 3-10 balls ("number of spots marked") have been

selected. The table illustrates the credits awarded for various numbers of matches depending on how many balls were initially selected by the player. For example, if a player selected the minimum three balls and two matches occurred in one of the columns, 3 credits are awarded for that column. If 7 balls are selected, prizes are awarded for between 4 and 7 matches. The prizes are 6 credits for 4 matches and 750 credits for 7 matches. If a number of matches between the lowest number of matches for which a prize is awarded and the maximum number of matches occurs the extra 3 free balls feature occurs. The "free ball" matches are shaded in Figure 9. So for example, for the case where 7 balls are selected, if 5 or 6 matches occur, the 3 free balls feature occurs potentially improving the number of matches and the players winnings.

The player wins or loses depending on the number of matches made in each game, i.e. the number of balls retained in a column 1A to 10A corresponding to the numbers picked by the player. Thus for example in the screen shown in Figure 3 where the player has selected four balls, and paid for all the columns prizes are paid for column 1A where four balls matching all four of the selected balls wins a prize of ninety-four credits, and for column 9A in which three of the balls matched the players selected four balls and a win of twenty-four credits is paid. Columns 2, 3 and 10 have only a single ball matching the players selected balls for which a prize is not awarded.

Clearly the manner of awarding prizes to a player the number of matches required for a win, the number of wild balls, the frequency of the free balls feature, is calculated so that an average, the game will provide an appropriate rate of return as required by the regulations to the player, and also provide a profit to the gaming machine operator. For example, the credits awarded in the game shown in Figure 9 differ from those offered in the game illustrated in Figure 3.

A further particular feature of the game a "scatter prize" is illustrated in Figure 7 in which the player has selected five numbers 6, 2, 12, 8 and 20. If those five selected numbers appear anywhere in any of the ten columns 1A to 10A a bonus prize is paid. In Figure 7, number 8 appears in column 1A, number 2 in column 3A, number 6 in column 5A, number 12 in column 7A and number 20 in column 8A. Since all the player's five numbers appear in the columns, a bonus prize is paid.

Figure 6 illustrates probability diagrams relating to the wildball and the free ball drop of three extra balls.

The program to implement the game runs on a standard gaming machine control processor 131 as illustrated schematically in Figure 8. This processor forms part of a controller 130 which drives the display screen 2 and receives touch input signals from touch sensors 132 as well as receiving coin input pulses from a coin chute 133 and driving a coin payout mechanism 134.

Some of the particular features of the game are summarised below, including exemplary messages to be displayed on the message lines 30, 32.

Player Messages

Messages for the "Selection of balls" screen 11.

Scenario 1 - idle mode no credit

GAME OVER	INSERT CREDIT
-----------	---------------

Scenario 2 - after credit inserted.

Touch balls to select

Scenario 3 - after $X(X \geq 3)$ spots have been selected.

PLAY NOW or Select balls

Scenario 4 - after 10 spots have been selected.

PLAY NOW or Change balls

Balls can only be selected after credits have been inserted.

Balls can only be selected in the "Selection of balls" screen.

After 10 balls are selected the other balls are "locked out" and no other balls can be selected unless at least one of the current selections has been cancelled.

After a "PLAY X GAMES" button is pressed the game goes to the
5 "Multigame balldrop" screen (Figures 3, 5) (pausing for approximately 2 seconds) and the 20 ball drop occurs (taking approximately 5 seconds).

When playing a "PLAY X GAMES" button is pressed and the game is already in the "Multigame balldrop" screen, the 20 balls drop in 5 seconds.

The extra 3 balls drop at a lower speed.

10

Messages for the "Multi balldrop" screen 40

Scenario 5 - after a game has been played with no wins.

15

GAME OVER PLAY NOW

Scenario 6 - when the current bet can not be repeated on at least one game.

20

Insert more credit or change bet.

Scenario 7 - zero credit after playing a game.

25

When a game is in zero credit for more than 2 minutes (without a "RESERVE" button pressed) the game returns to the "Selection of balls" screen and erases all current balls selected.

Scenario 8 - after a win (but no free balls won).

30

PLAY ON, GAMBLE or TAKE WIN

Pressing "Change balls" will take the win and return the game to the "Selection balls" screen.

Scenario 9 - after a win with free balls won.

Random comment

I like your style
Congratulations! Press "FREE BALLS"

5

Scenario 10 - after a win with "GAMBLE" selected. **This puts the game into a "Choose odds" gamble screen.**

I'm impressed
Touch x2, x3, x4, x5 or "TAKE WIN"

10

Pressing "CHANGE BALLS" will take the win and return the game to the "**Selection of balls**" screen 11.

15 Scenario 11 - after an incorrect selection in gamble.

Gamble completed
GAME OVER PLAY NOW

20 Scenario 12 - after a win when "TAKE WIN" is selected.

GAME OVER PLAY NOW

25 Scenario 13 - after a win and "CHANGE BALLS" selected. **The game returns to the "Selection of balls" screen 11.**

PLAY NOW or Select balls

30 If 10 balls were currently selected the message would be PLAY NOW or Change balls.

Scenario 14 - "ERASE" selected in the "Selection of balls" screen.

Touch balls to select

35 OR

Scenario 15 - Two of the original 10 selected balls are touched. There would now be 8 balls displayed on the left hand side vertical column.

5

PLAY NOW or Select balls

Scenario 14 will result in 80 balls being available for selection (no balls selected in vertical left hand column).

10 Scenario 15 will result in 8 balls being selected in the vertical left hand column.

Reserve Screen

To save memory the new reserved banner is to be used on the "Selection of balls" and "Multi balldrop" screens.

15 Thus the described embodiment of the present invention enables a player to play a number of keno or bingo type games simultaneously, but in which the player only has to make one selection of a series of numbers and which are large number up to ten games can be played in parallel at the same time, with each game being different because different numbers are being dropped into each game column. Thus the game can be made more
20 exciting and faster moving than a single game of keno and each parallel game will typically have a different result.

Claims

1. A gaming machine having display means, and game control means
arranged to control images displayed on the display means, the game control
means being arranged to play a game in which a player makes a selection, on
5 the machine, of a series of indicia chosen from a larger group of indicia, the
game control means being arranged to generate a series of indicia drawn at
random from the larger group of indicia, the display means being adapted to
display, in a predetermined location those indicia which have been selected
for comparison with the players selected indicia, with a prize being awarded
10 if more than a predetermined number of matches occur, characterised in that
a plurality of games are played in parallel, with the indicia drawn at random
for each game being drawn from separate groups initially corresponding to
the indicia contained in the larger group of indicia, but with each game
utilising the same player selection of indicia, and in that each game has a
15 predetermined display area on the screen area distinct from the other games.
2. A gaming machine as claimed in claim 1, characterised in that the
indicia are numbers and the predetermined display areas on the screen
which are arranged to display the numbers generated by the game control
means, are a series of columns, arranged side by side and wherein as each
20 separate game proceeds, the display is arranged to show the series of
potentially matching numbers for each game drop into the column
associated with that particular game to be retained for display purposes in
that column if that number corresponds to one of the numbers chosen by the
player and wherein the number does not match the chosen numbers, it is
25 caused to disappear from the column.
3. A gaming machine as claimed in claim 2 characterised in that one of
the two columns either side of the series of columns displays the numbers
chosen by the player.
4. A gaming machine as claimed in claim 3, wherein the other of the
30 two columns may display the prizes awarded for each number of matching
indicia.
5. A gaming machine as claimed in any one of claims 2 to 4
characterised in that all the selected numbers are displayed as a
representations of numbered balls.

6. A gaming machine as claimed in any preceding claim characterised in that the game includes a wildball feature in which a ball drops into the first game column adopts a value which equates with one of the indicia or numbers chosen by the player, registers in a first column, and then transfers
5 to the next adjacent column, the "second" column, leaving a duplicate of itself in the first column, and continues the process, transferring from the "second" column to the next adjacent column, the third column and so on, wherein if the wildball lands in a column and that column has already received and retained a ball having the number adopted by the wildball, the
10 wild ball may change to a different one of the players selected indicie/numbers which is not already present in that column, before transferring to the next adjacent column.
7. A gaming machine as claimed in any preceding claim wherein the game includes a free ball feature in which a number of extra free balls may
15 be provided to the player on the occurrence of a certain number of matching indicia in a column.
8. A gaming machine as claimed in any preceding claim in which a prize is awarded if all the numbers selected by the player appear distributed anywhere in the game columns being played.

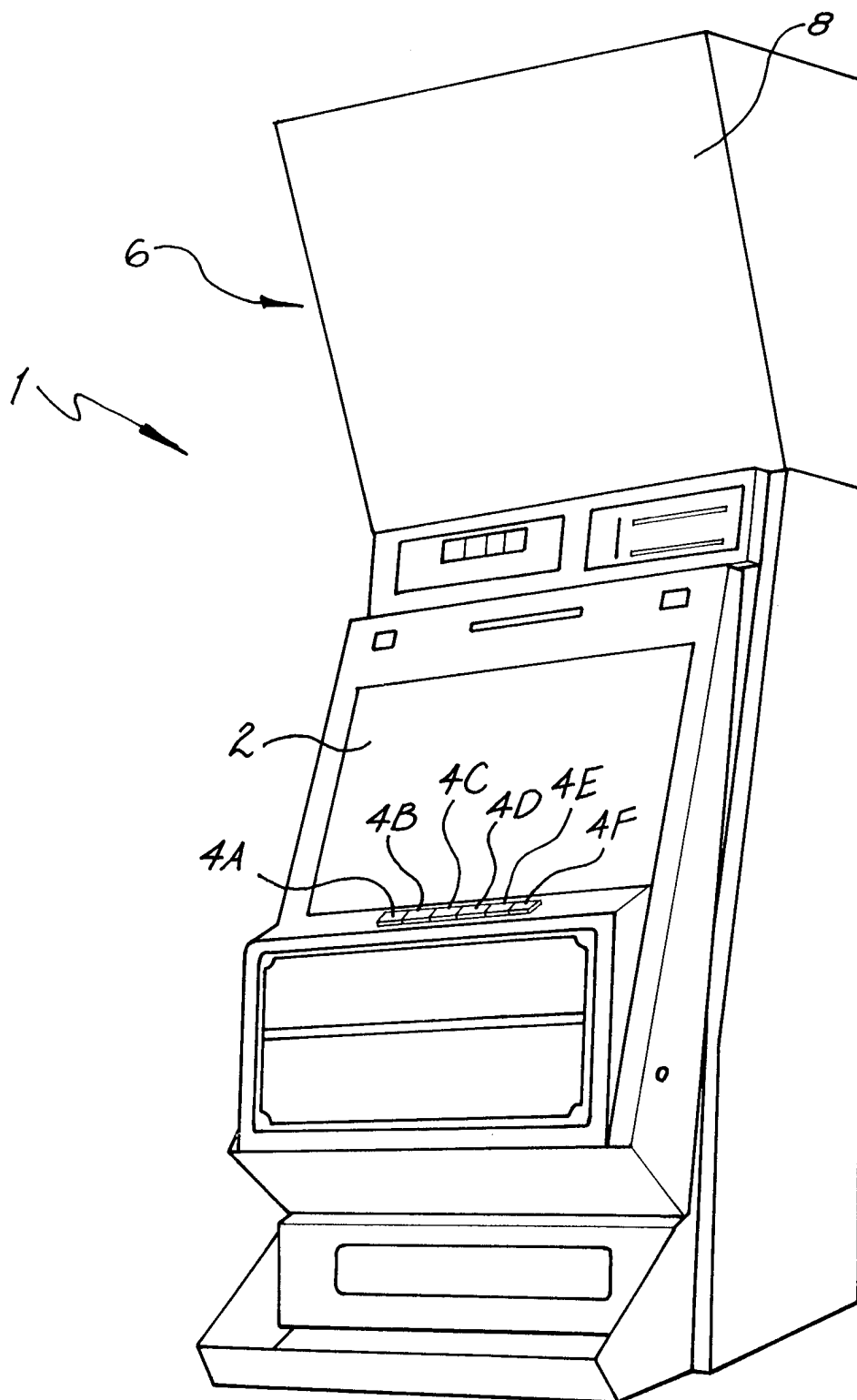


FIG. 1

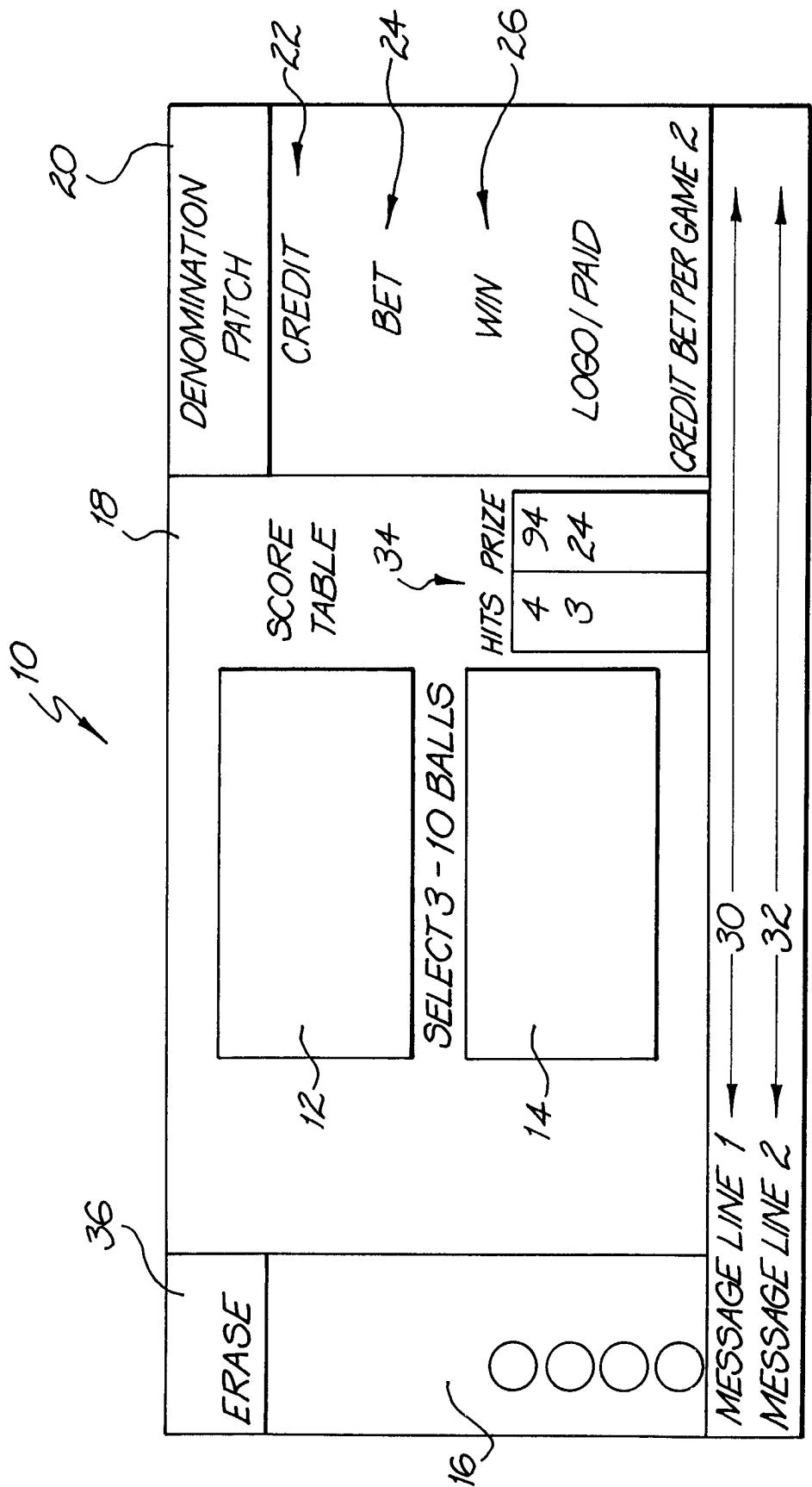


FIG. 2

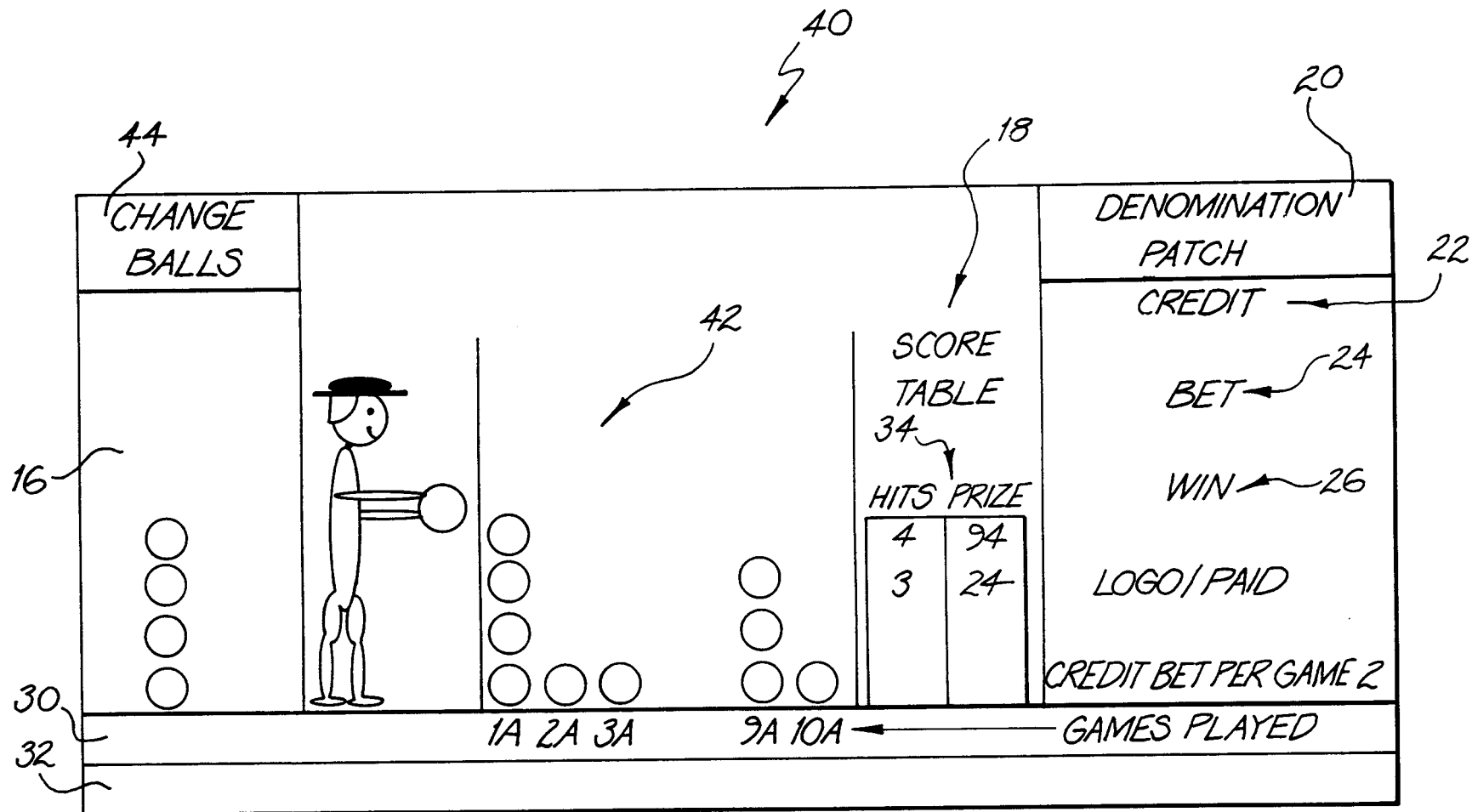
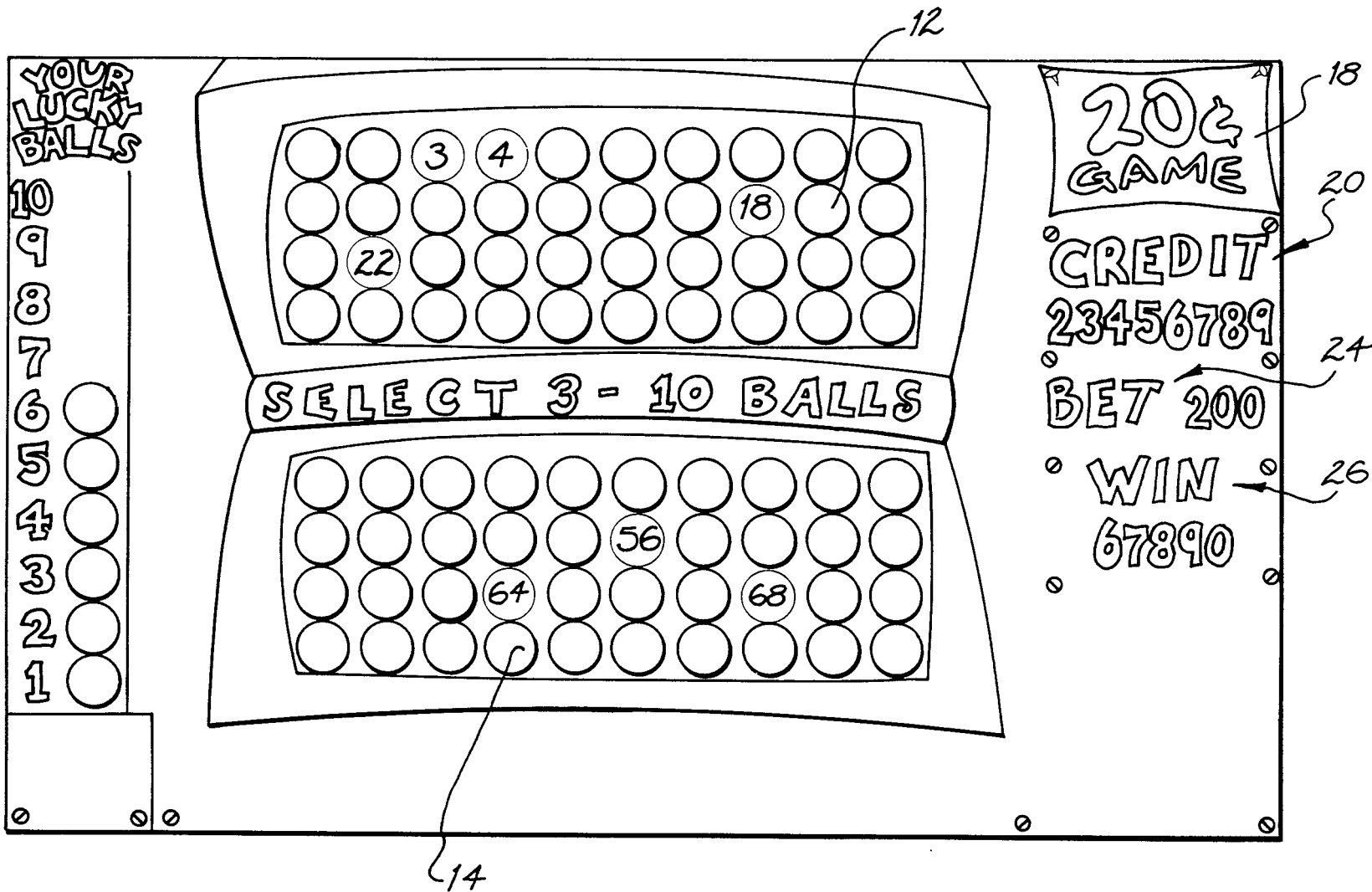


FIG. 3



SUBSTITUTE SHEET (Rule 26)

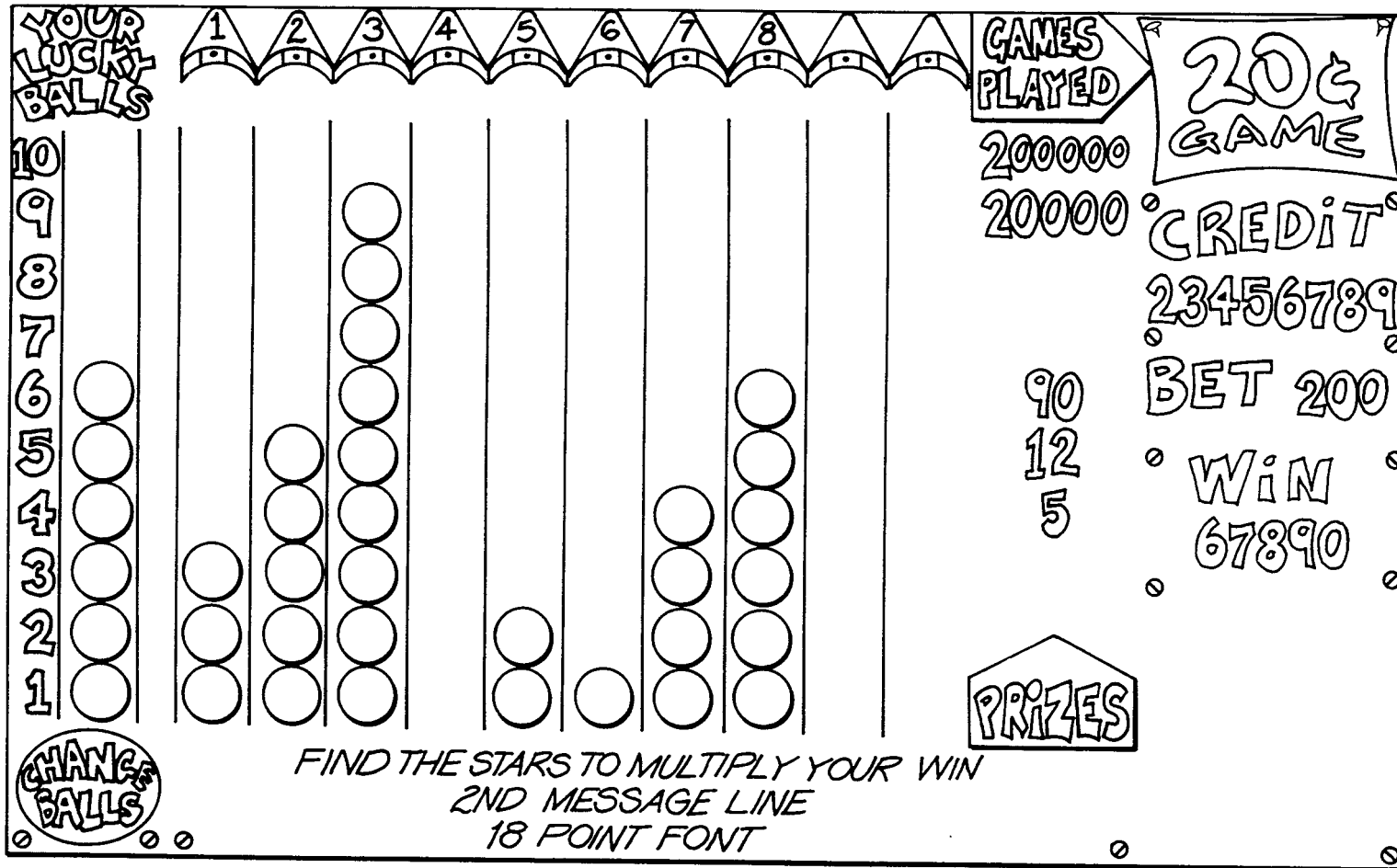


FIG. 5

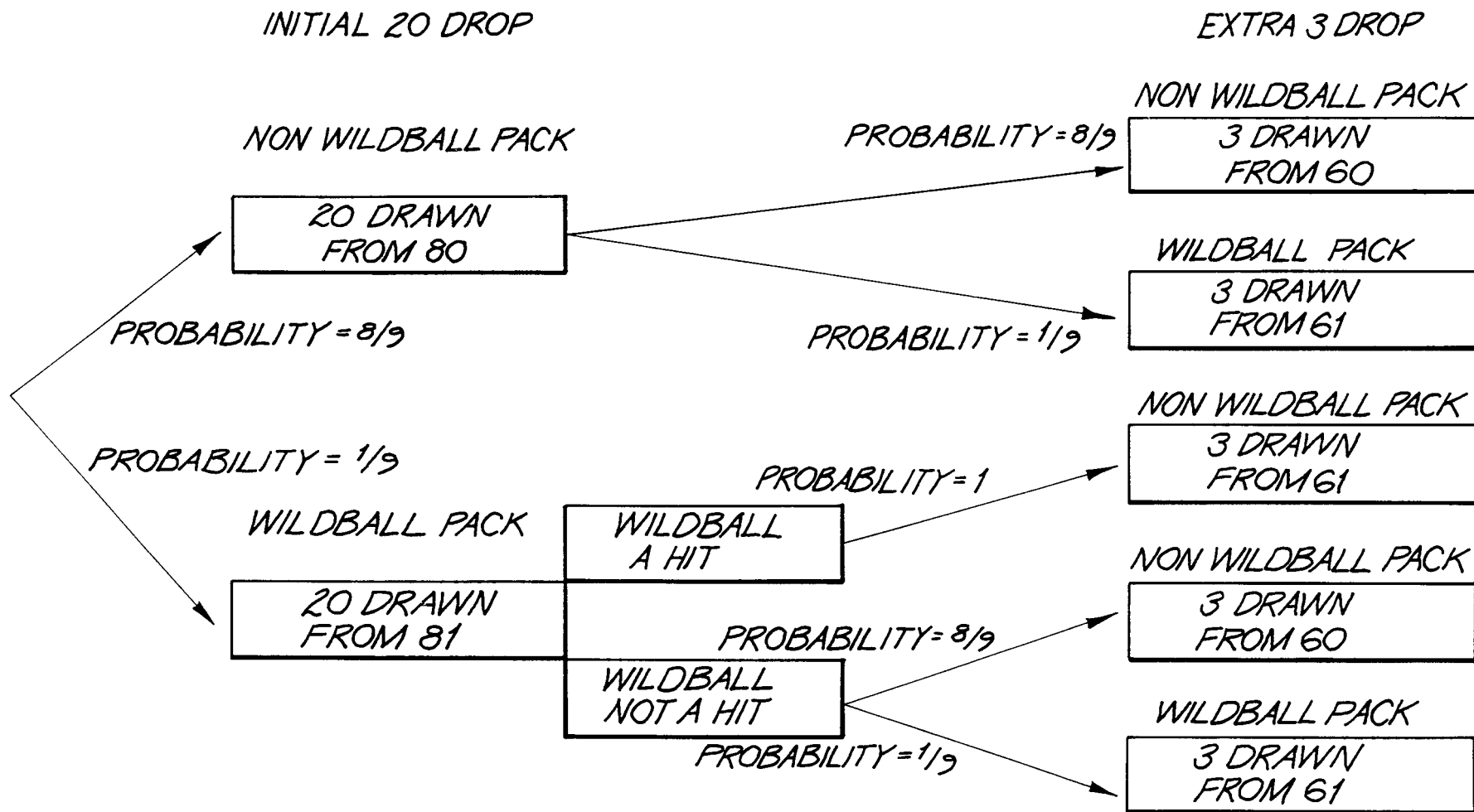


FIG. 6

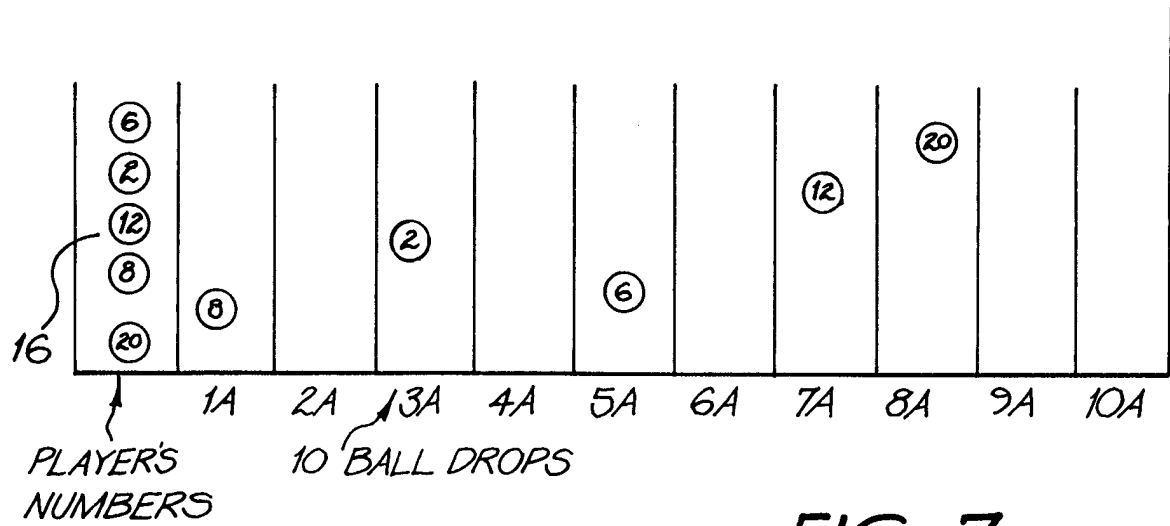


FIG. 7

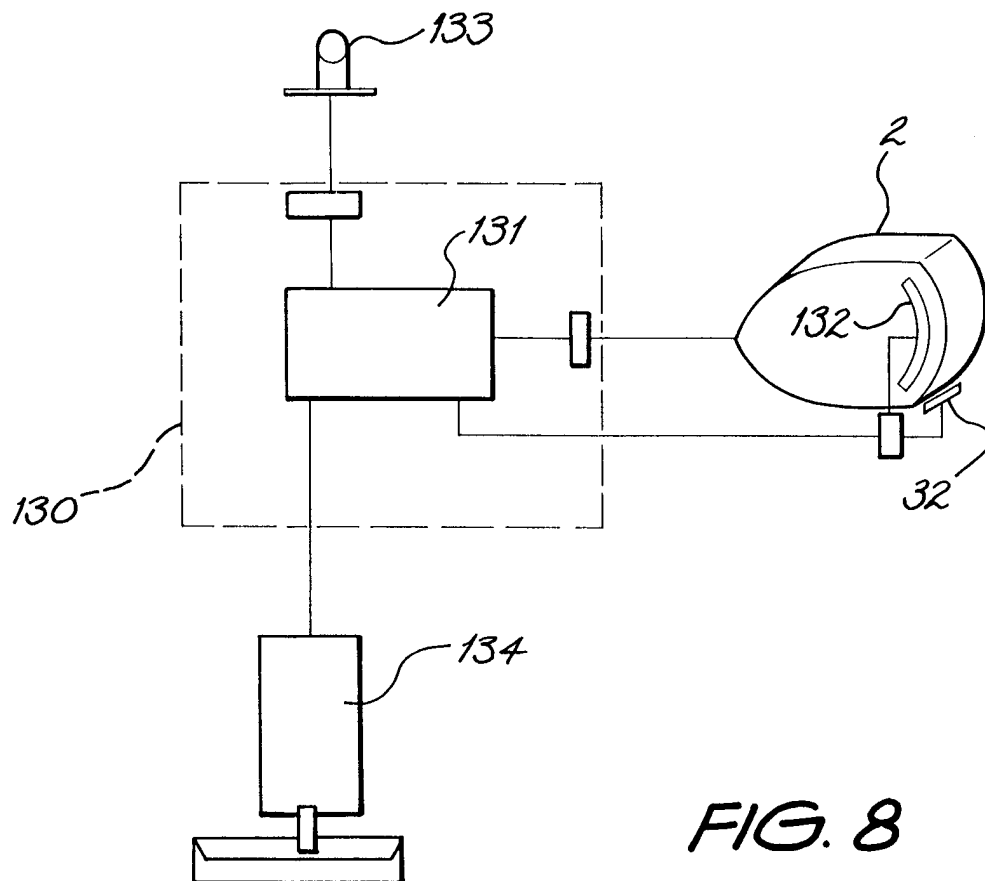


FIG. 8


EXTRA 3 FREE BALL									
NUMBER OF SPOTS MARKED									
HITS	3	4	5	6	7	8	9	10	
2	3								
3	19	10	4						
4	87.556%	67	18	13	6				
5		87.520%	100	65	21	18	10	5	
6			87.454%	300	90	74	25	15	
7				87.201%	750	300	125	60	
8					87.670%	3000	600	150	
9						87.741%	5000	1250	
10							87.756%	10000	
HIT RATES									
OVERALL	6.10	19.39	9.68	28.74	15.23	44.20	24.13	14.73	

PROBABILITY OF WILDBALL = 1 CHANCE IN 9
AVERAGE PERCENTAGE = 87.581%

FIG. 9

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/AU 97/00759

A. CLASSIFICATION OF SUBJECT MATTER												
Int Cl ⁶ : A63F 3/06 9/22 9/24 G06F 19/00 155:00 161:00												
According to International Patent Classification (IPC) or to both national classification and IPC												
B. FIELDS SEARCHED												
Minimum documentation searched (classification system followed by classification symbols) Int. Cl. A63F 3/06 9/22 9/24 G06F 19/00 155:00 161:00 G07C 15/00												
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched												
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT : (A63F 3/06 9/22 9/24) and (gaming and machine), (A63F 9/22 9/24 G06F 19/00 G07C 15/00) and (lotto OR bingo OR keno) USPTO : lotto OR bingo OR keno OR (gaming and machine)												
C. DOCUMENTS CONSIDERED TO BE RELEVANT												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
A	US 5280909 A (TRACY) 25 January 1994	1										
A	WO 94/03873 A1 (LJUNG & LUNDIN) 17 February 1994	1										
<input type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex												
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier document but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention											
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art											
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family											
"P" document published prior to the international filing date but later than the priority date claimed												
Date of the actual completion of the international search 10 November 1997		Date of mailing of the international search report 15 DEC 1997										
Name and mailing address of the ISA/AU AUSTRALIAN INDUSTRIAL PROPERTY ORGANISATION PO BOX 200 WODEN ACT 2606 AUSTRALIA Facsimile No.: (02) 6285 3929		Authorized officer  VINCE BAGUSAUSKAS Telephone No.: (02) 6283 2110										

Information on patent family members

International Application No.
PCT/AU 97/00759

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
WO	9403873	BR	9207153	NO	950419	NZ	248327
		BG	99481	EP	647341	FI	950430
		PL	307306	US	5601287	AU	25019/92
		CN	1073240	EP	680564	US	5197854
		WO	9305299				