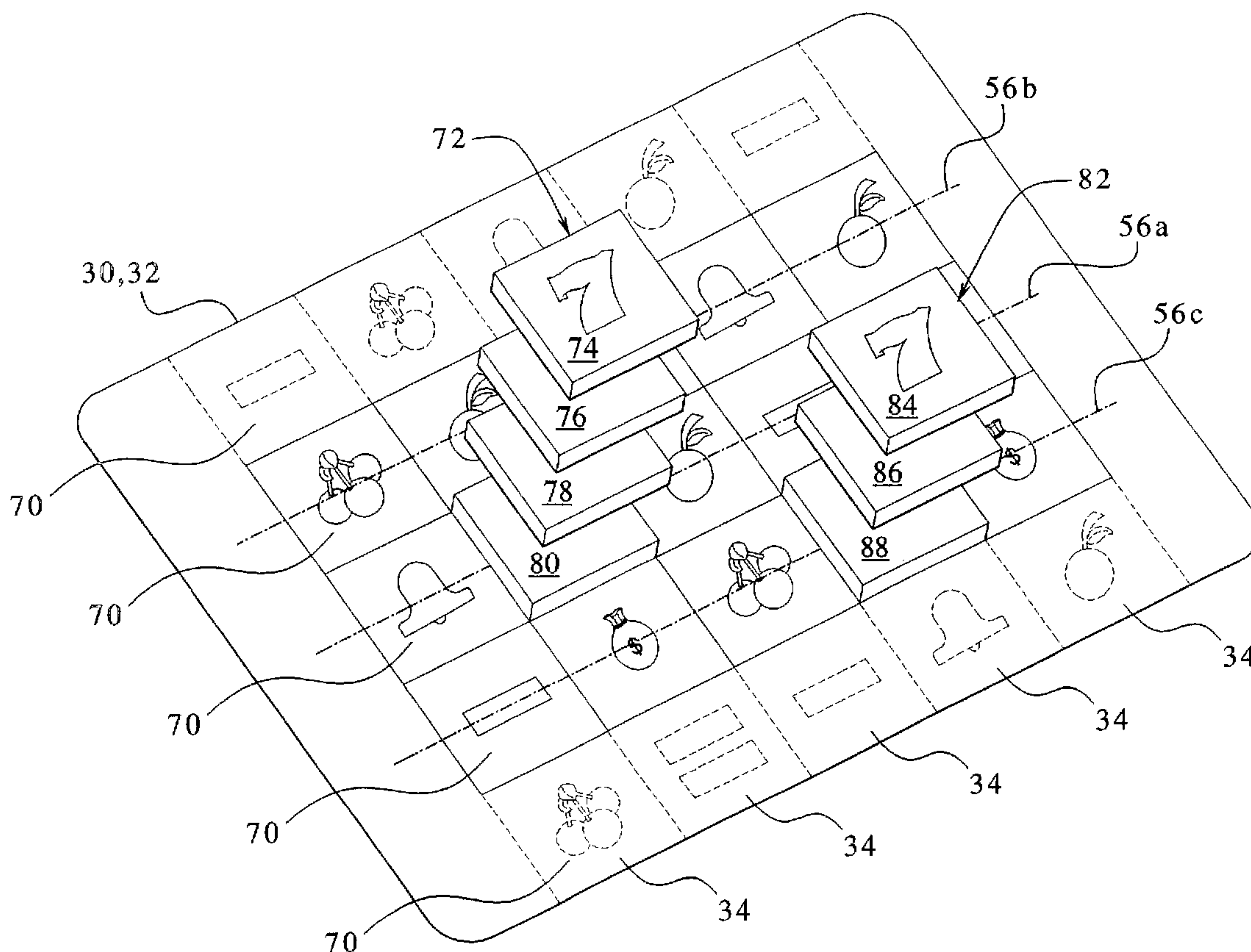




(86) Date de dépôt PCT/PCT Filing Date: 2003/07/22
(87) Date publication PCT/PCT Publication Date: 2004/02/05
(85) Entrée phase nationale/National Entry: 2005/01/12
(86) N° demande PCT/PCT Application No.: US 2003/022812
(87) N° publication PCT/PCT Publication No.: 2004/012161
(30) Priorité/Priority: 2002/07/31 (10/209,704) US

(51) Cl.Int.⁷/Int.Cl.⁷ G07F 17/34
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(54) Titre : DISPOSITIF DE JEU A PILES DE SYMBOLES
(54) Title: GAMING DEVICE HAVING SYMBOL STACKS



(57) **Abrégé/Abstract:**

A gaming device is provided including a set of symbols on a plurality of reels and a symbol stack that includes an initially displayed symbol and at least one initially hidden symbol. In one embodiment, the hidden symbols are stacked beneath the displayed symbol. The initially displayed symbol may be removed to reveal an initially hidden symbol so that one or more different sets of visible symbols appears on the display device.



(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
5 February 2004 (05.02.2004)

PCT

(10) International Publication Number
WO 2004/012161 A1

(51) International Patent Classification⁷: **G07F 17/34**

(21) International Application Number:
PCT/US2003/022812

(22) International Filing Date: 22 July 2003 (22.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/209,704 31 July 2002 (31.07.2002) US

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

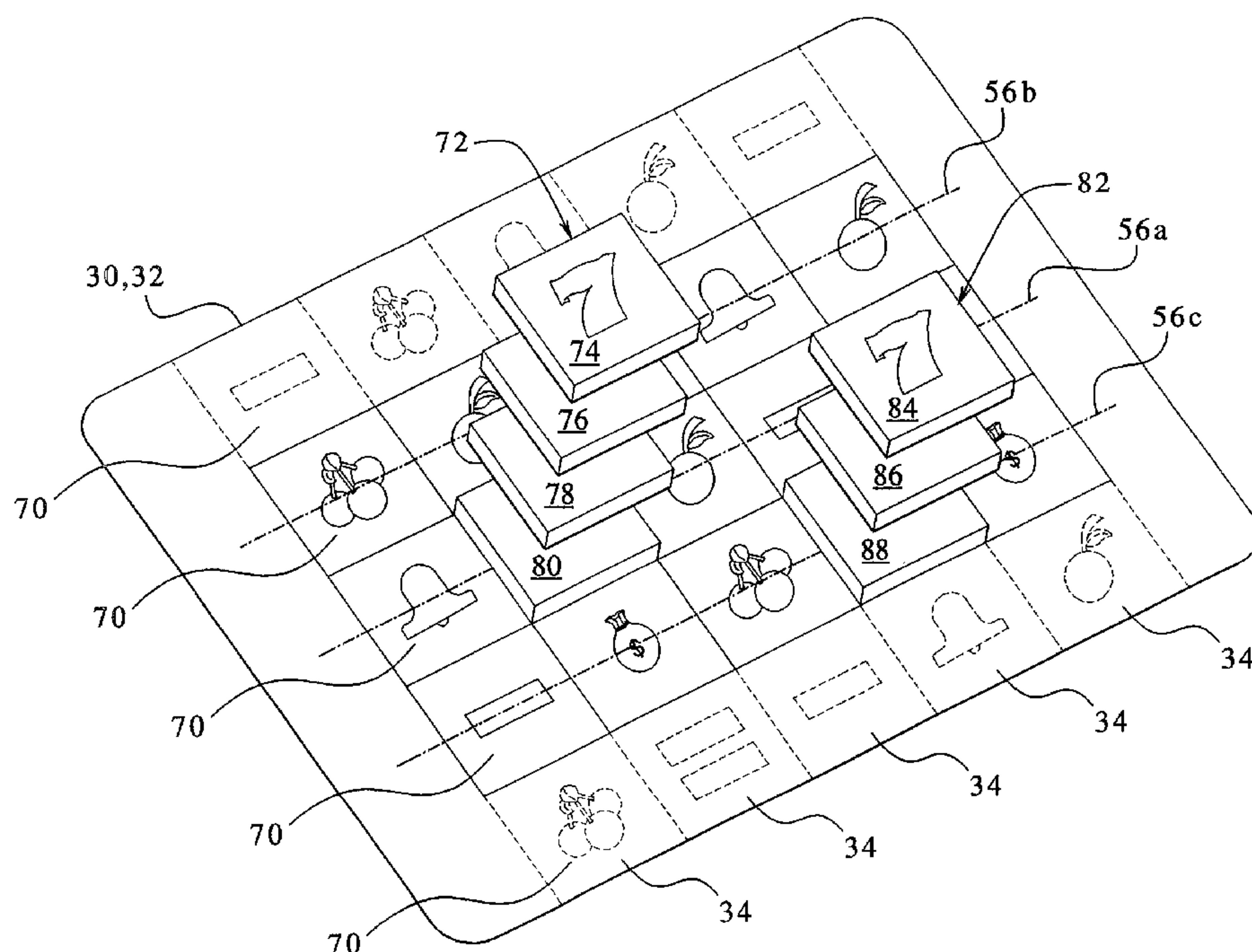
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: GAMING DEVICE HAVING SYMBOL STACKS



(57) Abstract: A gaming device is provided including a set of symbols on a plurality of reels and a symbol stack that includes an initially displayed symbol and at least one initially hidden symbol. In one embodiment, the hidden symbols are stacked beneath the displayed symbol. The initially displayed symbol may be removed to reveal an initially hidden symbol so that one or more different sets of visible symbols appears on the display device.

WO 2004/012161 A1

SPECIFICATION

TITLE OF INVENTION

“GAMING DEVICE HAVING SYMBOL STACKS”

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BACKGROUND OF THE INVENTION

The present invention relates in general to gaming devices, and more particularly to gaming devices that randomly displays symbol stacks.

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Gaming device manufacturers produce many different types of slot machines employing a plurality of reels which each have a plurality of symbols. When the player places a wager which causes the reels to spin, the slot machine produces a random generation of a combination of the symbols on the reels. If the generated combination or a portion of the combination matches
20 one of a number of predetermined award producing or winning combinations, the player receives an award. The award is commonly one or more credits that the player can play or redeem for money.

To increase player enjoyment and excitement, and to increase the popularity of the gaming machines, gaming device manufacturers constantly
25 strive to provide players with new features that add to the excitement and enjoyment generated by the gaming device. One element of gaming devices that receives considerable attention from the game designer is the displayed symbols. The generated symbols are the player's primary focus during the game because the symbols determine the player's outcome.

30

The symbols are often chosen to reflect the theme of the gaming device. The symbols typically have indicia that is interesting. To date, however, gaming devices have presented the symbols to the player via established techniques. For example, the symbols are on and thus move with the reels

until the reels come to rest and display a portion of the reel strip to the player, which is typically three symbols from each reel strip. While players have become accustomed to these techniques, it is believed that adding variety to the standard techniques of symbol generation and display in gaming devices is desirable. Accordingly, a need exists for a different and exciting way to provide and present symbols to a player.

SUMMARY OF THE INVENTION

The present invention provides a gaming device and specifically a slot machine which includes a set of symbols. The gaming device randomly displays a portion of the symbols which are on a plurality of reel strips on a display device when the player plays a game of the gaming device. One or more positions on one or more of the reel strips of the present invention includes a stack of symbols or symbol stack. When the gaming device spins the reel strips and randomly displays a portion of the reel strips to the player, the portion can but does not have to display one or more symbol stacks.

The symbol stack includes an initially displayed symbol and at least one initially hidden symbol. In one embodiment, the hidden symbols are stacked or positioned beneath the initially displayed symbol. In another embodiment of the present invention, one of the initially hidden symbols visually replaces the initially displayed symbol so that a different set of visible symbols appears on the display device.

Each symbol stack includes a single initially hidden symbol or a plurality of initially hidden symbols. The initially hidden symbols are sequentially revealed after the gaming device removes or discontinues the display of a previously displayed symbol. If the symbol stack includes a plurality of initially hidden symbols, a second initially hidden symbol visually replaces the displayed first initially hidden symbol, and so on. Each removal creates a new set of symbols. Any one or all of the different sets may be evaluated to determine if a winning combination exists and if a payout is to be provided to the player.

In one embodiment, the symbol stack includes at least one hidden symbol, which is predetermined and associated with the initially displayed symbol. In this embodiment, the actual symbols that are hidden or stacked

behind the initially displayed symbol are fixed and do not change from reel spin to reel spin. These hidden symbols are displayed in the fixed predetermined order. In another embodiment, the number or amount of hidden symbols stacked behind the initially displayed symbol are fixed but randomly chosen at
5 the time of the removal of the initially displayed symbol. In another alternative embodiment, the hidden symbols can be randomly selected by the processor of the gaming device.

In one embodiment, the gaming device employs a slot game. The slot game includes a plurality of slot machine reels displayed on the display device,
10 wherein each reel includes a plurality of standard slot machine symbols. One or more of the reels include one or more symbol stacks.

The symbol stacks in one embodiment appear randomly on the display device. Once a symbol stack appears, the removal of the displayed symbols may be implemented in various ways. In one embodiment, an initial triggering
15 event causes removal of the displayed symbols or top-most symbol of the stack and the sequential appearance of one or more of the initially hidden symbols of the symbol stack. In another embodiment, a separate triggering event is required for each removal.

In one embodiment, the triggering event is simply the appearance of the
20 symbol stack, for example, along an active or wagered upon slot machine payline. Here, the initially displayed symbol is automatically removed upon the random appearance of the symbol stack. Before each removal, the processor of the gaming device in one embodiment, makes a payout evaluation. In another embodiment, the processor of the gaming device makes a payout
25 evaluation only upon certain removals.

Still further, a separate triggering event may be required. The separate triggering event can be a random event, for example, a symbol or combination of symbols appearing on the reels of a slot machine. The separate triggering event alternatively includes a player input. For example, the gaming device
30 can employ a keep or trade type of game that lets the player determine whether to keep the current symbol or trade the current symbol for the next hidden symbol, if any. If the current combination is a winning combination, the player can keep the winning combination or risk it for a possibly more valuable

winning combination.

The gaming device can display the revealing of the initially hidden symbols in a variety of ways. In one embodiment, the initially displayed symbols and the initially hidden symbols simply disappear. In another
5 embodiment, graphical images show the top-most symbol being removed to expose one of the initially hidden symbols. In another embodiment, the initially hidden symbols are displayed in cooperation with the initially displayed symbol so as to appear as part of a three, four, five, etc., sided shape, which rotates. For purposes of clarification, the present application describes such a
10 combination of symbols as a rotating symbol set. The rotating symbol set rotates to remove the display of an initially displayed symbol and display one or more of the initially hidden symbols. Here, the originally displayed symbol may be redisplayed one or more times.

With the rotating symbol sets, a random triggering event, such as a
15 randomly displayed object or sprite, can move across the screen and appear to touch, knock or otherwise activate the rotating symbol set, so that the symbol set rotates and displays one or more of the initially hidden symbols. The symbol set alternatively rotates to display the initially hidden symbols and the initially displayed symbol multiple times. The gaming device can pay the player
20 for each winning combination caused by the rotating symbol set or only for a winning combination produced by the displayed symbol when, for example, the symbol set comes to a stop.

In one embodiment, the gaming device provides a slot machine game having a plurality of the rotating symbol sets. For example, the slot machine
25 can display a 3 X 5 matrix of the rotating symbol sets, which includes a first random generation to determine which rotating symbol sets from reel strips appear on the 3 x 5 matrix, and a second random generation that determines which symbols of the rotating symbol sets to display.

It is therefore an advantage of the present invention to provide a gaming
30 device that includes symbol stacks having an initially displayed symbol and one or more initially hidden symbols.

Another advantage of the present invention is to provide a gaming device that automatically removes an initially displayed symbol to reveal one or

more initially hidden symbols.

Still another advantage of the present invention is to provide a gaming device that displays an initially displayed symbol and one or more initially hidden symbols upon a player input.

5 Moreover, an advantage of the present invention is to provide an offer/acceptance or keep or trade type of game using symbol stacks.

Still further, an advantage of the present invention is to provide a gaming device having rotating symbol sets with two, three, four etc. sided shapes, wherein each side includes a different symbol.

10 Additional features and advantages of the present invention are described in, and will be apparent from, the following Detailed Description of the Invention and the figures.

BRIEF DESCRIPTION OF THE FIGURES

15 Figs. 1A and 1B are perspective views of alternative embodiments of the gaming device of the present invention.

Fig. 2 is a schematic diagram of the electronic configuration of one embodiment of the gaming device of the present invention.

20 Figs. 3A to 3D are perspective views of a display device displaying a set of slot machine reels having various embodiments of symbol stacks of the present invention.

Fig. 4 is a perspective view of a display device displaying a slot machine reel having the rotatable symbol sets of the present invention.

Fig. 5 is a perspective view of a display device displaying a set of slot machine reels each having the rotatable symbol sets of the present invention.

25 DETAILED DESCRIPTION OF THE INVENTION

Gaming Device and Electronics

Referring now to the drawings, and in particular to Figs. 1A and 1B, gaming device 10a and gaming device 10b illustrate two possible cabinet styles and display arrangements and are collectively referred to herein as gaming device 10. The gaming device of the present invention has the controls, displays and features of a conventional gaming machine. In various
30 embodiments, the player operates gaming device 10 while standing or sitting. Gaming device 10 is alternatively a pub-style or table-top game (not shown),

which a player preferably operates while sitting.

The gaming device 10, in certain embodiments, includes any suitable secondary or bonus triggering events, secondary bonus games as well as any progressive game coordinating with the primary or secondary games. Gaming
5 device 10 also includes the symbols and indicia used for any of the base, bonus and progressive games include mechanical, electronic, electrical or video symbols and indicia.

The gaming device 10 includes monetary input devices. Figs. 1A and 1B illustrate a coin slot 12 for coins or tokens and/or a payment acceptor 14 for
10 cash money. The payment acceptor 14 also includes other devices for accepting payment, such as readers or validators for credit cards, debit cards or smart cards, tickets, notes, etc. When a player inserts money in gaming device 10, a number of credits corresponding to the amount deposited is shown in a credit display 16. After depositing the appropriate amount of money, a
15 player begins the game by pulling arm 18 or pushing play button 20. Play button 20 includes any play activator used by the player, which starts any game or sequence of events in the gaming device.

As shown in Figs. 1A and 1B, gaming device 10 also includes a bet display 22 and a bet one button 24. The player places a bet by pushing the bet
20 one button 24. The player can increase the bet by one credit each time the player pushes the bet one button 24. When the player pushes the bet one button 24, the number of credits shown in the credit display 16 decreases by one, and the number of credits shown in the bet display 22 increases by one. A player may cash out by pushing a cash out button 26 to receive coins or
25 tokens in the coin payout tray 28 or other forms of payment, such as an amount printed on a ticket or credited to a credit card, debit card or smart card. Ticket printing and card reading machines (not illustrated) are known by and commercially available to those of skill in the art.

Gaming device 10 also includes one or more display devices. The
30 embodiment shown in Fig. 1A includes a central display device 30, and the alternative embodiment shown in Fig. 1B includes a central display device 30 as well as an upper display device 32. The display device includes any viewing surface such as glass, a video monitor or screen, a liquid crystal display or any

other static or dynamic display mechanism.

The slot machine base game of gaming device 10 of one embodiment displays a plurality of reels 34, preferably three to five reels 34, in video form on one or more of the display devices. Each reel 34 displays a plurality of indicia
5 such as bells, hearts, fruits, numbers, letters, bars or other images or symbols which preferably correspond to a theme associated with the gaming device 10. The display device displaying the video reels 34 is preferably a video monitor. Each gaming device 10 includes speakers 36 for making sounds or playing music as described below. The reels display standard gaming device symbols
10 as well as one or more of the symbol stacks 72 and/or one or more of the rotating symbols as discussed in detail below.

Referring now to Fig. 2, a general electronic configuration of the gaming device 10 preferably includes: a processor or central processing unit ("CPU") 38; a memory device 40 for storing program code or other data; a central
15 display device 30; an upper display device 32; a sound card 42; a plurality of speakers 36; and one or more input devices 44. The processor 38 is preferably a microprocessor or microcontroller-based platform which is capable of displaying images, symbols and other indicia such as images of people, characters, objects, places and things. The memory device 40 includes
20 random access memory ("RAM") 46 for storing event data or other data generated or used during a particular game. The memory device 40 also includes read only memory ("ROM") 48 for storing program code, which controls the gaming device 10 so that it plays a particular game in accordance with applicable game rules and pay tables.

25 As illustrated in Fig. 2, the player preferably uses the input devices 44 to input signals into gaming device 10. In the slot machine base game, the input devices 44 include the pull arm 18, play button 20, the bet one button 24 and the cash out button 26. A touch screen 50 and touch screen controller 52 are connected to a video controller 54 and processor 38. The terms "computer" or
30 "controller" are used herein to refer collectively to the processor 38, the memory device 40, the sound card 42, the touch screen controller and the video controller 54.

In certain instances, it is preferable to use a touch screen 50 and an associated touch screen controller 52 instead of a conventional video monitor display device. The touch screen enables a player to input decisions into the gaming device 10 by sending a discrete signal based on the area of the touch
5 screen 50 that the player touches or presses. As further illustrated in Fig. 2, the processor 38 connects to the coin slot 12 or payment acceptor 14, whereby the processor 38 requires a player to deposit a certain amount of money in to start the game.

It should be appreciated that although a processor 38 and memory
10 device 40 are preferable implementations of the present invention, the present invention also includes being implemented via one or more application-specific integrated circuits (ASIC's), one or more hard-wired devices, or one or more mechanical devices (collectively or alternatively referred to herein as a "processor"). Furthermore, although the processor 38 and memory device 40
15 preferably reside in each gaming device 10 unit, the present invention includes providing some or all of their functions at a central location such as a network server for communication to a playing station such as over a local area network (LAN), wide area network (WAN), Internet connection, microwave link, and the like.

20 With reference to the slot machine base game of Figs. 1A and 1B, to operate the gaming device 10, the player inserts the appropriate amount of tokens or money in the coin slot 12 or the payment acceptor 14 and then pulls the arm 18 or pushes the play button 20. The reels 34 then begin to spin. Eventually, the reels 34 come to a stop. As long as the player has credits
25 remaining, the player can spin the reels 34 again. Depending upon where the reels 34 stop, the player may or may not win additional credits.

In addition to winning base game credits, the gaming device 10, may also include one or more bonus games that give players the opportunity to win credits. The gaming device 10 may employ a video-based display device 30 or
30 32 or a mechanical device (not shown) for the bonus games.

In the slot machine embodiment, the qualifying condition may include a particular symbol or symbol combination generated on a display device. As illustrated in the five reel slot game shown in Figs. 1A and 1B, the qualifying

condition includes the number seven appearing on, e.g., three adjacent reels 34 along a payline 56. It should be appreciated that the gaming device may include one or more paylines, such as payline 56, wherein the paylines can be horizontal, diagonal or any combination thereof. An alternative scatter pay
5 qualifying condition includes the number seven appearing on, e.g., three adjacent reels 34 but not necessarily along a payline 56, appearing on any different set of reels 34 three times or appearing anywhere on the display device the necessary number of times.

Referring now to Fig. 3A, the video display device 30 or 32 illustrates the
10 reels 34, wherein each reel includes a plurality of symbols 70. One or more of the reels may also include one or more symbol stacks 72 and 82 as shown above in Figs. 1A and 1B. For purposes of comparison, two symbol stacks 72 and 82 are illustrated. Any percentage of the displayed reel symbol positions or pay stops may be symbol stacks depending on the quantity provided on the
15 reel strips and the random outcome of the spinning reels or reel strips. Each of the symbol stacks 72 and 82 includes an initially displayed symbol 74 and 84, respectively, and a plurality of initially hidden symbols 76, 78 and 80 and 86 and 88, respectively.

The symbol stacks 72 and 82 each include a single initially displayed
20 symbol 74 and 84, respectively, and any number of initially hidden symbols. For example, the symbol stacks 72 and 82 may include only a single initially hidden symbol. Otherwise, as illustrated, the symbol stacks 72 and 82 can include any number of associated hidden symbols. Symbol stack 72 includes three associated initially hidden symbols 76 to 80. Symbol stack 82 includes
25 two associated initially hidden symbols 86 and 88.

The initially displayed symbols 74 and 84 of the symbol stacks 72 and 82, respectively, are removed first to reveal the first underlying initially hidden symbols 76 and 86, respectively. The initially hidden symbols 76 and 78 are then removed to reveal the remaining hidden symbols. For symbol stack 72,
30 the initially hidden symbol 78 is revealed when the initially hidden 76 is removed and the initially hidden symbol 80 is revealed when the initially hidden symbol 78 is removed or no longer displayed on the display device 30 or 32.

For purposes of illustration, the initially displayed symbols 74 and 84 and a plurality of different initially hidden symbols for each are shown in a broken-out format. In one embodiment, the player at this point in the game only sees the initially displayed symbols 74 and 84 and may or may not know that behind
5 these symbols lies one or a plurality of hidden symbols. Alternatively, the gaming device can visually or otherwise inform the player of the hidden symbols or the potential for hidden symbols. Further, the player may or may not be able to know how many hidden symbols lie behind the initially displayed symbols 74 and 84. For example, gaming device 10 in an embodiment informs
10 the player that the initially displayed symbol 74 is part of a symbol stack 72 and informs the player how many initially hidden symbols are associated with the stack 72. Still further, the player may or may not be able to know exactly which symbols lie behind the symbols 74. Gaming device 10 could inform the player, for example, "the lucky 7 symbol hides a cherry symbol and a double
15 bar." Some or all of this information may be provided as part of the payable, which is accessible through a touch screen button on the display device 30 or 32. For example, the payable could inform the player that the lucky "7" symbol hides two initially hidden symbols, while a lucky diamond symbol (not illustrated) hides three symbols.

20 Gaming device 10 may be modified so that each of the reel strips 34 includes one or more symbol stacks or so that only selected reels 34 include the symbol stacks. The number of reels including symbol stacks 72, the number of symbol stacks per reel and the number of initially hidden symbols are all determined in an embodiment in accordance with game mathematics.

25 In Fig. 3A, the display device 32 illustrates a three by five matrix of the symbols 70 and the symbol stacks 72 and 82. A row of symbols is also illustrated in phantom above and below the three by five matrix to illustrate that not all symbols on the reel strip are displayed by the display device. When the player presses the play button 20 or pulls the pull arm 18, the reels 34 spin so
30 that different symbols along the reel strip move past the displayed three by five matrix of the display device 30 or 32. When the reels come to a stop, the gaming device displays a set of symbols, for example, the fifteen symbols in the three by five matrix of the display device 30 or 32.

In Fig. 3A, the display device initially displays the lucky "7" symbols which make-up the initially displayed symbols 74 and 84. As alluded to above, the initially displayed symbols can be the same or different for different reels or different positions on a given reel. Moreover, any given symbol stack, such as
5 stacks 72 and 82, can display different initially displayed symbols at different times.

Upon displaying the first or initially displayed symbol of the stack, the processor may determine if there are any winning combinations and then pay the player for such winning combinations. As illustrated below, the display
10 device proceeds to remove one or both of the initially displayed symbols 74 and 84 and reveal the first adjacent initially hidden symbol 76 and 78, respectively. That is, the symbol stacks 72 and 82 include a predetermined order of initially hidden symbols that may eventually be displayed.

The initially hidden symbols may be the same and in the same order for
15 each of the symbol stacks 72 and 82 or the initially hidden symbols may be different or be in a different order for each of the symbol stacks 72 and 82. In an embodiment, the gaming device 10 includes a plurality of different symbol stacks 72 and 82, much the same as the gaming device includes different symbols 70. The gaming device 10 may then include one or more of each of
20 the different types of symbol stacks.

In one embodiment, the symbol stacks 72 and 82 are fully predetermined. That is, the number of initially hidden symbols, the order of the initially hidden symbols and the content of each initially hidden symbol are predetermined. In another embodiment, only the number of initially hidden
25 symbols is predetermined and the gaming device randomly generates a symbol (e.g., from the set of standard symbols 70) for the initially hidden symbol prior to it being displayed. In another embodiment, the gaming device 10 predetermines the content of the originally hidden symbols, e.g., 76, 78 and 80, etc., and then randomly determines how many originally hidden symbols to
30 display. In still another embodiment, the number and possible content of the initially hidden symbols is predetermined but the order in which the initially hidden symbols are displayed is determined randomly. Still further alternatively, the initially hidden symbols may be fully randomly determined,

wherein the number of, order of and type of initially hidden symbols are each randomly determined.

The symbol stacks 72 and 82 may be activated in a variety of ways. That is, the gaming device 10 may begin removing the initially displayed
5 symbols 74 and 84 to reveal the initially hidden symbols in a variety of manners. In one embodiment, the symbol stacks 72 and 82 are auto executing. That is, whenever the reels 34 come to a stop and display a symbol stack, gaming device 10 thereafter automatically after a predetermined amount of time reveals one or more of the initially hidden symbols. In one embodiment,
10 the gaming device 10 sequentially and automatically reveals each of the initially hidden symbols, e.g., 76, 78, 80, etc. In another embodiment, gaming device 10 automatically reveals less than all of the originally hidden symbols. For example, even though the originally hidden symbols are ordered, e.g., 76 to 80, the gaming device 10 can randomly generate how many of these to be
15 displayed or generate the hidden symbols until a predefined condition is met.

To increase player excitement and enjoyment, gaming device 10 in an embodiment provides a graphical representation of the removal of either the initially displayed symbol 74 or 84 or one of the hidden symbols 76 to 80, 86 and 88. For example, a bomb could appear on display device 30, 32 and move
20 over one of the lucky "7" symbols, wherein the bomb explodes and removes the "7" to reveal one of the hidden symbols. Alternatively, multiple explosions could occur, each explosion resulting in the display of one of the hidden symbols.

In one embodiment, the symbol stacks 72 and 82 are player activated.
25 For example, the display device 30 or 32 can integrate with a touch screen 50 and a touch screen controller 52 and enable the player to touch one or both of the symbol stacks 72 and 82 to activate same. Otherwise, gaming device 10 provides any suitable known type of input device 44 to allow the player to activate one or both of the symbol stacks 72 and 82. For example, gaming
30 device 10 can inform the player that the symbol "7" is an initially displayed symbol of a symbol stack. The gaming device may then provide the player with, for example, three symbol stack activations, so that when gaming device 10 generates a symbol stack 72 or 82, the player can then decide whether to

use one of the three designated activations. Gaming device 10 may otherwise allow the player to purchase symbol stacks for one or more gaming device credits. Any time the symbol "7" appears, the player can then select to initiate one of the player's accrued symbol stacks. This enables the player to wait until
5 one of the symbol stacks appears in between two like symbols or two symbols of a winning combination, wherein the player determines or hopes that one of the initially hidden symbols provides the missing piece to the winning combination.

Referring now to Fig. 3B, the gaming device 10 in an embodiment pays
10 for each winning combination provided by the initially displayed symbols 74 and 84 and each of the initially hidden symbols 76 to 80, 86 and 88, etc. For example, if the two displayed "bell" symbols along the active payline 56a form a winning combination, gaming device 10 awards the player a number of credits when the "bell" symbol 76 is in place of the initially displayed symbol 74 of the
15 symbol stack 72. If, for example, both the initially hidden symbols 76 and 80 of symbol stack 72 include the "bell" symbol, gaming device 10 pays the player twice for that combination. The initially displayed symbol 74 may also form part of a winning combination so that the gaming device 10 pays a player a number of credits before removing the initially displayed symbol and revealing one of
20 the initially hidden symbols.

As illustrated by Fig. 3C, gaming device 10 may sequentially activate more than one symbol stack. Fig. 3C illustrates that each symbol stack has been activated so that the "bell symbol" 76 (from stack 72) appears on active payline 56a and so that the cherry symbol 86 (from stack 82) appears on active
25 payline 56c. The gaming device can pay for any combination caused by the display of symbols 76 and 86 of the symbol stacks 72 and 82. In another embodiment, gaming device 10 activates symbol stacks 72 and 82 regardless of whether they fall upon an active payline.

In another embodiment, another randomly determined event needs to
30 occur in order for a symbol stack 72 or 82 to be executed. For example, gaming device 10 may require that another symbol or other symbol combination also appear on an active (or inactive) payline 56a to 56c. The gaming device 10 could require that the player randomly receive a symbol

stack 72 or 82 and randomly receive an activator such as a separate symbol or symbol combination. For example, gaming device 10 could require the "bar" and "grape" symbols to appear along an active payline, as seen along the active payline 56c in Fig. 3A, in order for one or both of the symbol stacks 72 and 82 to change, e.g., to the symbols 76 and 86, respectively, in Figs. 3B and 3C. In another embodiment, it is possible for the player to accumulate the symbol stacks and/or to accumulate the activator symbol or symbol combinations. The gaming device in this instance activates a symbol stack whenever the player has accumulated both a symbol stack and the symbol stack activator.

In a further embodiment, gaming device 10 sequentially displays the initially hidden symbols 76, 78 and 80 or 86 then 88, until displaying a winning symbol or symbol combination if any can be achieved. Here, gaming device 10 pays out one or a limited number of times. For example, instead of the lucky "7", the initially displayed symbols 74 and 84 may be a ghost symbol or no symbol. The gaming device 10 then scrolls through a number of initially hidden symbols until one of them produces a winning symbol or symbol combination or until there are no more initially hidden symbols. At this point, gaming device 10 pays out for the winning combination and returns the player to normal gaming operation, regardless of whether one or more initially hidden symbols still remain hidden.

In a further alternative embodiment illustrated by Fig. 3D, gaming device 10 combines the symbol stacks with a keep or trade type of game. A keep or trade game, commonly referred to as an offer/acceptance game, enables the player to choose whether or not to keep a particular offer, in this case, a particular combination of symbols or whether to continue changing the combination of symbols. In the illustrated embodiment, the initially displayed symbol 74 or 84 does not provide a winning combination or a winning combination suitable to the player, so that the player selects the reject input device 44, which causes the hidden symbol 76 to be revealed after the initially displayed symbol 74 is removed. If the player does not wish to keep the displayed "bell," "bell" combination caused by the initially hidden symbol 76, the player can select the reject input device 44 again to reveal the initially hidden

symbol 78 and so on. Where two symbol stacks 72 and 82 appear in combination with the keep and reject inputs 44 as shown in Fig. 3D, gaming device 10 can activate the symbol stacks 72 and 82 sequentially and let the player play two or more individual offer/acceptance games.

5 Gaming device 10 may use one of the symbols of the actual symbol stacks 72 or 82 as either the keep or reject input 44. For example, the player can sequentially select the initially displayed symbol 74 and the hidden symbols 76, 78 and 80 of the stack 72 until finding a desirable combination, wherein the player selects a separate accept or keep input 44. Alternatively, the player
10 sequentially selects the reject input 44 until finding a desirable hidden symbol, wherein the player selects the desired hidden symbol to keep same. Gaming device 10 awards any winning combination produced by the initially hidden symbol that the player has selected.

Fig. 3D illustrates the accept and reject inputs 44 as being simulated
15 areas that cooperate with the touch screen 50 and controller 52. In an alternative embodiment, the accept and reject inputs 44 are electromechanical input devices that send discrete inputs to the processor 38. If gaming device 10 displays each initially hidden symbol of a symbol stack 72 or 82, and the player does not accept any of these, gaming device 10 provides any award
20 created by the final initially hidden symbol and returns the player to regular gaming activities.

Referring now to Fig. 4, another embodiment of the present invention is illustrated, wherein the originally hidden symbols are configured in a shape with the originally displayed symbol so that the shape or set of symbols rotates to
25 sequentially reveal the initially hidden symbols. The rotating shapes are illustrated in combination with a slot machine reel 34.

The reel 34 in Fig. 4 represents one reel of a slot machine game and in a preferred embodiment operates with other reels 34, which may have one or more rotating symbol sets. The reel 34 includes the symbols 70. The reel 34
30 also includes one or more and in the illustrated embodiment three different rotating symbol sets 100, 102 and 104. The reel 34 also includes other symbols that are not illustrated.

As illustrated, the rotating symbol set 100 includes a six-sided or hexagonal shape. The rotating symbol set 102 includes a four-sided square or rectangular shape. The rotating symbol set 104 includes a three-sided or triangular shape. The rotating symbols can include any suitable number of
5 sides. Gaming device 10 can or alternatively does not reveal the shape or the number of hidden symbols 108 associated with a set. Further, not every face of the set has to include a symbol 106 or 108.

Each of the rotating symbol sets 100, 102 and 104 includes, like the symbol stacks described above, an initially displayed symbol 106 and a
10 plurality of initially hidden rotatable symbols 108. The rotating symbol set 100 includes five initially hidden rotatable symbols 108. The rotating symbol set 102 includes three initially hidden rotatable symbols 108. The rotating symbol set 104 includes two initially hidden rotatable symbols 108.

In operation, the rotating symbol sets rotate either in a clockwise or
15 counterclockwise manner about a central axis 110. The rotating symbol sets 100, 102 and 104 rotate in a direction that is generally perpendicular to the direction that the reel strip 34 moves along the display device 30 or 32. The rotating symbol sets 100, 102 and 104, like the symbol stacks described above, provide the game implementor with an additional degree of freedom in
20 designing random combination possibilities. The rotating symbol sets also provide the game implementor with a variety of visual display options that make the gaming device more fun and entertaining for the player.

One display option that is available includes some type of action that occurs in a horizontal (or non-vertical) direction across the display device 30 or
25 32. The reels generally spin in a vertical direction and come to a stop, displaying a plurality of the standard symbols 70 and the rotating symbol sets, such as sets 100, 102 and 104. In one embodiment, gaming device 10 displays an object or sprite that moves horizontally across the screen and hits or clips one or more of the rotating symbols, so that the symbols rotate in a
30 clockwise or counterclockwise direction about the axis, such as axis 110. The symbols can rotate for less than one full rotation. Otherwise, the rotating symbols can rotate for multiple rotations. In one alternative embodiment, the initially displayed symbol 106 and possibly one or more of the hidden symbols

108 of the rotating symbol sets 100, 102 and 104 may reappear one or more times. That is, the spinning action may randomly reveal the initially displayed symbol 106 multiple times.

The triggering events described above for the symbol stacks 72 and 82
5 can also be implemented with the rotating symbol sets 100, 102 and 104. In an embodiment, the rotating symbol sets automatically rotate upon being generated along one of the reels 34. In another embodiment, the player determines when to rotate one of the sets. For example, in an embodiment, each of the symbols on the display device 30 or 32 is potentially a rotating
10 symbol set, wherein when the player selects one of the symbols cooperating with a touch screen or contacts an input device 44, gaming device 10 randomly chooses one of the sets to rotate to display one of the initially hidden symbols 108 or to redisplay the initially displayed symbol 106. In a further embodiment, the rotating symbol sets rotate upon some other random generation by gaming
15 device 10, such as the generation of one or more of the standard symbols 70.

Each of the payout evaluation embodiments described above for the symbol stacks 72 and 82 also applies to the rotating symbol sets 100, 102 and 104. For example, gaming device 10 in an embodiment pays out for each winning combination generated by each initially hidden rotated symbol 108 that
20 is displayed on the display device 30 or 32. In another embodiment, the gaming device 10 pays out the first winning combination generated by a display of one of the originally hidden rotated symbols 108. In this latter embodiment, the gaming device 10 in an embodiment rotates the symbol in either the clockwise or counterclockwise direction about the axis 110 until one of the
25 originally hidden symbols 108 creates a winning combination for the player. At this point, gaming device 10 no longer rotates the rotating symbol set.

The rotating symbol sets 100, 102 and 104 may also be employed in a keep or trade type game. Here, the player operates with the keep and trade input devices 44, which enable the player to either keep or trade the originally
30 displayed symbol 106 or one of the originally hidden rotated symbols 108. In this manner, the player may rotate the symbol set 100, 102 or 104 to attempt to make a winning combination or attempt to upgrade a winning combination. In this embodiment, gaming device 10 does not allow the originally displayed

symbol 106 to be redisplayed or the rotating symbol set to rotate past one turn.

In the keep or trade game, the player in one embodiment does not know how many sides or faces the shape of the rotating symbol set has, so that the player cannot readily gauge whether to accept a lesser paying combination. In
5 another embodiment, the display device 30 or 32 graphically enables the player to see whether the shape is for example a hexagon, square or triangle, so that the player has some idea of whether or not to take or discard a lesser paying winning combination.

Referring now to Fig. 5, an embodiment of gaming device 10 employs
10 reels 34 that include only rotating symbol sets, in this case the four-sided rotating symbol sets 102 (of Fig. 4). The sets could include other shapes and other numbers of symbols. Each of the symbol sets 102 of the reels 34 includes an initially displayed symbol 106 and a plurality of initially hidden rotatable symbols 108. In this embodiment each of the rotating symbol sets
15 102 includes three initially hidden rotatable symbols 108, wherein the sets generally include symbols bearing different indicia. The rotating symbol sets 102 can, however, include any number and type of symbols, including one or more of the same hidden symbols and/or including one or more blank or ghost symbols.

20 Each of the reels 34 has an axis of rotation 110. Each reel 34 can collectively rotate in the same direction or rotate in different directions with respect to the other reels 34. In addition, two sets 102 on the same reel 34 can rotate in different directions. After the rotating sets 102 stop rotating, the display device 30 or 32 displays a matrix of initially displayed and/or hidden
25 symbols, such as a three by five matrix of said symbols. The rotating symbol sets 102 rotate about a first axis, while the reels 34 rotate about a second axis so that the sets 102 and reels 34 provide a two-dimensional slot game.

The rotating sets 102 generally rotate in a perpendicular direction to the spinning of the reels 34. The perpendicular motions can coordinate with one
30 another in a variety of ways. In one embodiment, the rotating symbol sets 102 automatically spin as the reels 34 spin, wherein the reels 34 come to a stop at a point in time before the rotating symbol sets 102 come to a stop or vice versa. The reels 34 can come to a stop at different times with respect to one another

as can the rotating symbol sets 102.

As described above, in one embodiment, a random event is required in order to cause one or more or all of the rotating sets to rotate. In a further alternative embodiment, the gaming device 10 provides one or more
5 electromechanical inputs 44 or a touch screen 50 in cooperation with the sets 102 that enable the player to cause the rotating symbol sets 102 to rotate.

Any of the payout schemes described above may be implemented with the rotating symbol sets and the two-dimensional rotation of Fig. 5. The device can payout for each winning symbol or symbol combinations caused before
10 and/or after one or more of the sets rotates. In another embodiment, gaming device 10 only pays out for one winning combination. In a still further embodiment, the rotating sets, such as the rotating slot machine symbol sets 102, may be combined with one or more symbol stacks, such as slot machine symbol stacks 72 and 82 described above.

15 It should thus be appreciated from the above description and figures that the present invention provides a gaming device having two dimensional reel strips which facilitate a three dimensional display based on the removal of the initially displayed symbols and revealing of the initially hidden symbols. The third dimension for the symbols on the reel strip is the height of the multiple
20 symbols.

It should be understood that various changes and modifications to the presently preferred embodiments described herein will be apparent to those skilled in the art. Such changes and modifications can be made without departing from the spirit and scope of the present invention and without
25 diminishing its intended advantages. It is therefore intended that such changes and modifications be covered by the appended claims.

CLAIMS

The invention is claimed as follows:

1. A gaming device comprising:
 - 5 a plurality of reels;
 - a plurality of symbols on the reels;
 - a symbol stack on at least one of the reels, the symbol stack including an initially displayed one of said symbols and an initially hidden one of said symbols; and
- 10 a processor that controls the reels and the symbol stack on the reels.
2. The gaming device of Claim 1, which includes a plurality of the symbol stacks on one of the reels.
3. The gaming device of Claim 1, which includes at least one of the symbol stacks on each of the reels.
- 15 4. The gaming device of Claim 1, wherein the symbol stack includes a plurality of initially hidden symbols.
5. The gaming device of Claim 1, which includes a plurality of the symbol stacks each having a plurality of initially hidden symbols.
6. The gaming device of Claim 1, wherein the symbol stack includes
- 20 a predetermined number of initially hidden symbols in a predetermined order.
7. The gaming device of Claim 1, wherein the symbol stack includes a predetermined number of initially hidden symbols in a randomly determined order.
8. The gaming device of Claim 1, wherein the symbol stack includes
- 25 a randomly determined number of initially hidden symbols in a predetermined order.
9. The gaming device of Claim 1, wherein the symbol stack includes a randomly determined number of initially hidden symbols in a randomly determined order.
- 30 10. The gaming device of Claim 1, wherein the initially displayed symbol is removed to reveal the initially hidden symbol upon a random event.
11. The gaming device of Claim 1, wherein the initially displayed symbol is removed to reveal the initially hidden symbol upon a player input.

12. The gaming device of Claim 1, wherein the initially displayed symbol is removed in conjunction with a graphical display to reveal the initially hidden symbol.

13. The gaming device of Claim 1, which includes a graphical display
5 of how many hidden symbols are included in the symbol stack.

14. The gaming device of Claim 1, which includes a plurality of initially displayed symbols that are, upon a randomly determined event, sequentially revealed upon the removal of the initially displayed symbol and each previously revealed initially hidden symbol.

10 15. The gaming device of Claim 1, which includes a plurality of initially hidden symbols that are, upon at least one player input, sequentially revealed upon the removal of the initially displayed symbol and each previously revealed initially hidden symbol.

16. The gaming device of Claim 1, which includes a plurality of
15 symbol stacks displayed on the reels, wherein initially displayed symbols of the stacks are simultaneously removed to reveal the initially hidden symbols.

17. The gaming device of Claim 1, which includes a first award evaluation using the initially displayed symbol and a second award evaluation using the initially hidden symbol.

20 18. The gaming device of Claim 1, which includes a graphical representation of the initially displayed symbol being removed and the initially hidden symbol being revealed.

19. A gaming device comprising:
a plurality of reels;
25 a plurality of symbols on the reels;
at least one symbol stack on at least one of the reels, the symbol stack including an initially displayed symbol and an initially hidden symbol; and
a processor operable to: (i) control the reels and the symbol stack on the reels, and upon the occurrence of the symbol stack on the reels; and (ii)
30 evaluate the symbols randomly generated on the reels before and after the initially displayed symbol is removed to reveal the initially hidden symbol.

20. The gaming device of Claim 19, which includes a plurality of symbol stacks on one of the reels.

21. The gaming device of Claim 19, which includes at least one symbol stack on each of the reels.

22. The gaming device of Claim 19, which additionally includes a rotatable symbol set having an initially displayed symbol and a plurality of initially hidden symbols.

23. The gaming device of Claim 19, which includes a plurality of symbol stacks each having a plurality of initially hidden rotatable symbols.

24. The gaming device of Claim 19, wherein the symbol stack includes a predetermined number of initially hidden symbols in a predetermined order.

25. The gaming device of Claim 19, wherein the symbol stack includes a predetermined number of initially hidden symbols in a randomly determined order.

26. The gaming device of Claim 19, wherein the symbol stack includes a randomly determined number of initially hidden symbols in a predetermined order.

27. The gaming device of Claim 19, wherein the symbol stack includes a randomly determined number of initially hidden symbols in a randomly determined order.

28. The gaming device of Claim 19, wherein the initially displayed symbol is removed to reveal the initially hidden symbol upon a random event.

29. The gaming device of Claim 19, wherein the initially displayed symbol is removed to reveal the initially hidden symbol upon a player input.

30. The gaming device of Claim 19, wherein the initially displayed symbol is removed in conjunction with a graphical display to reveal the initially hidden symbol.

31. The gaming device of Claim 19, which includes a graphical display of how many hidden symbols are associated with the symbol stack.

32. A gaming device comprising:
a plurality of reels;
a plurality of symbols on the reels;
at least one symbol stack on at least one of the reels, the symbol stack including an initially displayed symbol and an initially hidden symbol; and

a processor operable to control the reels and to activate the symbol stack on the reels, wherein, upon activation of the symbol stack, the initially displayed symbol is removed to reveal the initially hidden symbol.

33. The gaming device of Claim 32, which includes a plurality of
5 symbol stacks on one of the reels.

34. The gaming device of Claim 32, which includes at least one symbol stack on each of the reels.

35. The gaming device of Claim 32, wherein the symbol stack includes a plurality of initially hidden symbols.

10 36. The gaming device of Claim 32, which includes a plurality of symbol stacks each having a plurality of initially hidden symbols.

37. The gaming device of Claim 32, wherein the symbol stack includes a predetermined number of initially hidden symbols in a predetermined order.

15 38. The gaming device of Claim 32, wherein the symbol stack includes a predetermined number of initially hidden symbols in a randomly determined order.

39. The gaming device of Claim 32, wherein the symbol stack includes a randomly determined number of initially hidden symbols in a
20 predetermined order.

40. The gaming device of Claim 32, wherein the symbol stack includes a randomly determined number of initially hidden symbols in a randomly determined order.

25 41. The gaming device of Claim 32, wherein the initially displayed symbol is removed to reveal the initially hidden symbol upon a random event.

42. The gaming device of Claim 32, wherein the initially displayed symbol is removed to reveal the initially hidden symbol upon a player input.

43. The gaming device of Claim 32, wherein the initially displayed symbol is removed in conjunction with a graphical display to reveal the initially
30 hidden symbol.

44. A gaming device comprising:
a plurality of reels;
a plurality of symbols on the reels;

a rotatable symbol set on at least one of the reels, the set including an initially displayed symbol and an initially hidden symbol; and

a processor that controls the reels and the rotatable symbol on the reels.

45. The gaming device of Claim 44, which includes a plurality of
5 rotatable symbol sets on one of the reels.

46. The gaming device of Claim 44, which includes at least one rotatable symbol set on a plurality of the reels.

47. The gaming device of Claim 44, wherein the rotatable symbol set includes a plurality of initially hidden rotatable symbols.

10 48. The gaming device of Claim 44, which includes a plurality of rotatable symbol sets each having a plurality of initially hidden symbols.

49. The gaming device of Claim 44, wherein the rotatable symbol set includes a predetermined number of initially hidden symbols in a predetermined order.

15 50. The gaming device of Claim 44, wherein the rotatable symbol set includes a predetermined number of initially hidden symbols in a randomly determined order.

51. The gaming device of Claim 44, wherein the rotatable symbol set includes a randomly determined number of initially hidden symbols in a
20 predetermined order.

52. The gaming device of Claim 44, wherein the rotatable symbol set includes a randomly determined number of initially hidden symbols in a randomly determined order.

53. The gaming device of Claim 44, wherein the initially hidden
25 symbol is revealed upon the rotation of the initially displayed symbol upon a random event.

54. The gaming device of Claim 44, wherein the initially hidden symbol is revealed upon the rotation of the initially displayed symbol upon a player input.

30 55. The gaming device of Claim 44, wherein the initially displayed symbol is rotated in conjunction with a graphical display to reveal the initially hidden symbol.

56. The gaming device of Claim 44, which includes a graphical display of how many rotatable hidden symbols are associated with the rotatable symbol set.

57. The gaming device of Claim 44, which includes a plurality of
5 initially hidden symbols that are, upon a randomly determined event, sequentially revealed upon the rotation of the initially displayed symbol and each previously revealed initially hidden symbol.

58. The gaming device of Claim 44, which includes a plurality of
10 initially hidden symbols that are, upon at least one player input, sequentially revealed upon the rotation of the initially displayed symbol and each previously revealed initially hidden symbol.

59. The gaming device of Claim 44, which includes a first award evaluation using the initially displayed symbol and a second award evaluation using the initially hidden symbol.

15 60. The gaming device of Claim 44, wherein the rotatable set appears on one of the reels as a geometrical shape.

61. A gaming device comprising:

a display device; and

a first set of symbols displayed by the display device on a plurality of
20 reels, wherein at least one of the symbols appearing in the first set includes an initially displayed symbol and at least one initially hidden symbol, wherein one of the initially hidden symbols is revealed upon a removal of the initially displayed symbol so that a second set of visible symbols appears on the display device.

25 62. The gaming device of Claim 61, wherein the initially hidden symbols are selected from the plurality of symbols before the first set of visible symbols appears on the display device.

63. The gaming device of Claim 61, wherein the number of initially hidden symbols included with the initially displayed symbol is determined
30 before the first set of visible symbols appears on the display device, and wherein the initially hidden symbol that is revealed upon the removal of the initially displayed symbol is determined after the first set of visible symbols appears on the display device.

64. The gaming device of Claim 61, which includes a plurality of slot machine reels displayed on the display device, each reel including a plurality of the symbols.

5 65. The gaming device of Claim 61, wherein a second one of the initially hidden symbols is revealed upon a removal of the initially hidden symbol that replaced the initially displayed symbol, so that a third set of visible symbols appears on the display device.

66. The gaming device of Claim 65, wherein at least one of the first, second and third sets of symbols is evaluated to determine if a payout is
10 provided to the player.

67. The gaming device of Claim 61, wherein the initially displayed symbol is removed upon a triggering event and the second removal occurs due to the same triggering event.

68. The gaming device of Claim 61, wherein the initially displayed
15 symbol is removed upon the random appearance of the initially displayed symbol in the first set of symbols.

69. The gaming device of Claim 61, wherein each of the initially hidden symbols are automatically and sequentially revealed upon the random occurrence of the initially displayed symbol in the first set of symbols.

20 70. The gaming device of Claim 61, wherein the initially displayed symbol is removed upon the random occurrence of the initially displayed symbol in the first set of symbols and upon a player input.

71. The gaming device of Claim 61, wherein each of the initially hidden symbols are sequentially revealed upon the random appearance of the
25 initially displayed symbol in the first set of symbols and upon a player input.

72. The gaming device of Claim 71, which includes an input that enables the player to end the sequential display before each of the initially hidden symbols are revealed.

73. The gaming device of Claim 61, wherein the initially displayed
30 symbol and the plurality of initially hidden symbols are revealed in a rotating order on the display device.

74. A gaming device comprising:

a display device that displays a first set of symbols on a plurality of reels;

a first payout provided to the player if the first set of symbols yields the first payout;

at least one of the symbols appearing in the first set including an initially displayed symbol and at least one initially hidden symbol, wherein one of the initially hidden symbols is revealed when the initially displayed symbol is removed so that a second set of symbols appears on the display device; and

a second payout provided to the player if the second set of symbols yields the second payout.

75. The gaming device of Claim 74, wherein a second one of the initially hidden symbols is revealed upon the removal of the initially hidden symbol so that a third set of visible symbols appears on the display device, and which includes a third payout provided to the player if the third set of visible symbols yields the third payout.

76. The gaming device of Claim 74, wherein the first and second removals occur upon a single triggering event.

77. A method of operating a gaming device comprising the steps of:

- (a) providing a plurality of symbols;
- (b) randomly displaying a first set of symbols from the plurality of symbols;
- (c) determining if at least one initially hidden symbol is associated with one of the displayed symbols; and
- (d) if so, removing the associated initially displayed symbol to reveal the initially hidden symbol to create a second set of symbols from the plurality of symbols.

78. The method of Claim 77, which includes removing the initially displayed symbol upon a player input.

79. The method of Claim 77, which includes sequentially removing displayed symbols to reveal each of the initially hidden symbols and evaluating each new set of symbols to determine if a win for a player occurs.

80. The method of Claim 77, which includes sequentially removing the displayed symbols upon at least one player input.

81. The gaming device of Claim 77, which includes sequentially removing a displayed symbol to reveal one of the initially hidden symbols until a

player decides not to use any remaining initially hidden symbols.

82. The method of Claim 77, which includes rotating the initially displayed symbol to display the initially hidden symbol.

83. The method of Claim 82, which includes rotating the displayed
5 initially hidden symbol to display another one of the initially hidden symbols.

84. The method of Claim 77, wherein steps (a) to (d) are provided through a data network.

85. The method of Claim 84, wherein the data network is an internet.

86. A method of operating a gaming device comprising the steps of:
10 (a) providing a plurality of symbols;
(b) randomly displaying a first set of symbols from the plurality of symbols;

(c) evaluating the first set to determine if a win for a player occurs;
(d) determining if an initially displayed symbol of the first set
15 obscures at least one initially hidden symbol; and

(e) if so, removing the initially displayed symbol of the first set to reveal one of the initially hidden symbols to create a second set of symbols from the plurality of symbols and evaluating the second set to determine if a win for a player occurs.

20 87. The method of Claim 86, which includes automatically removing the initially displayed symbol upon the determination that the initially displayed symbol obscures at least one initially hidden symbol.

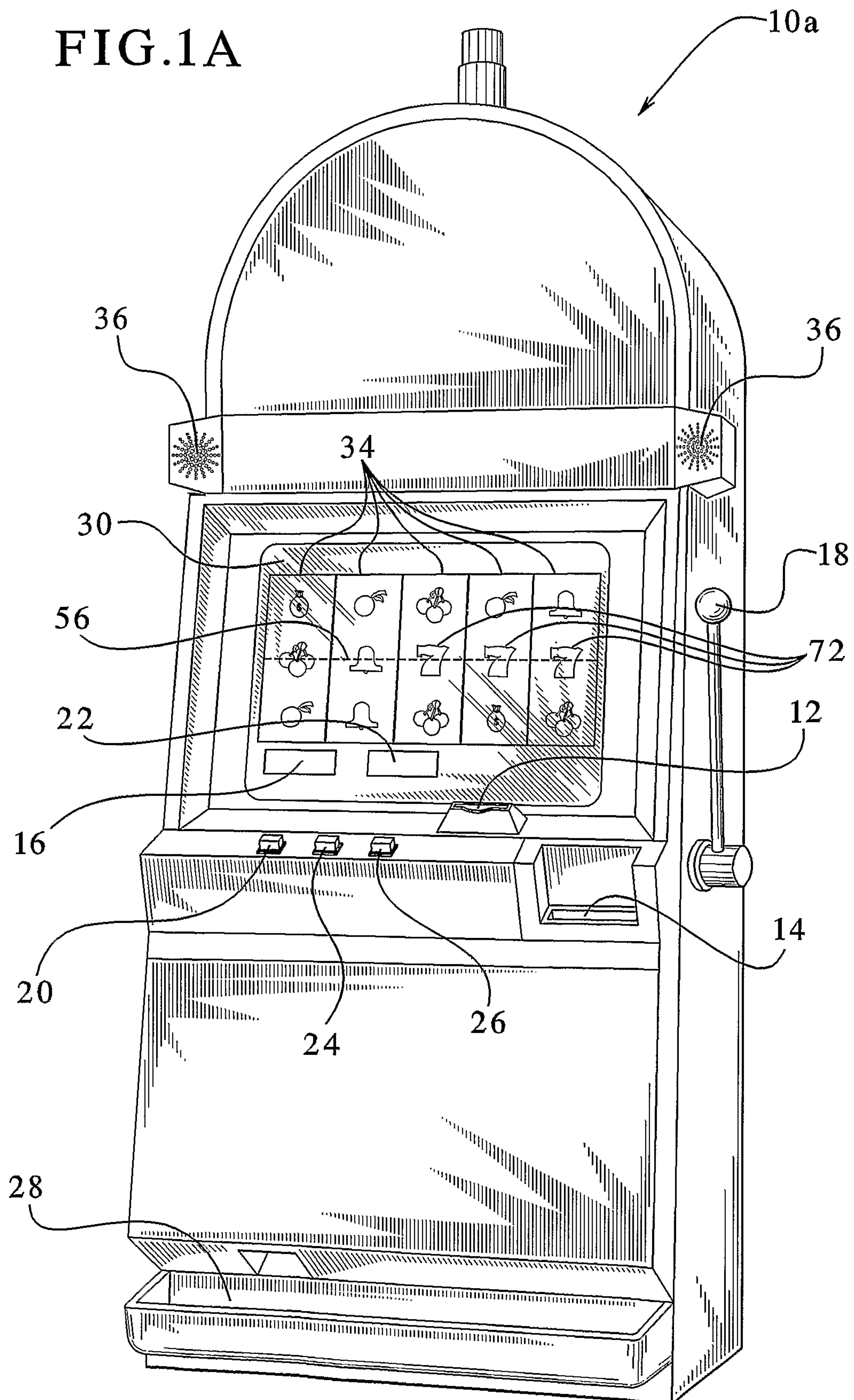
88. The method of Claim 86, which includes rotating the initially displayed display device to display the initially hidden symbol.

25 89. A gaming device comprising:
a display device;
a video reel that moves in a first direction on the display device; and
a plurality of symbols on the video reel, wherein at least one of the symbols rotates in a second direction on the display device.

30

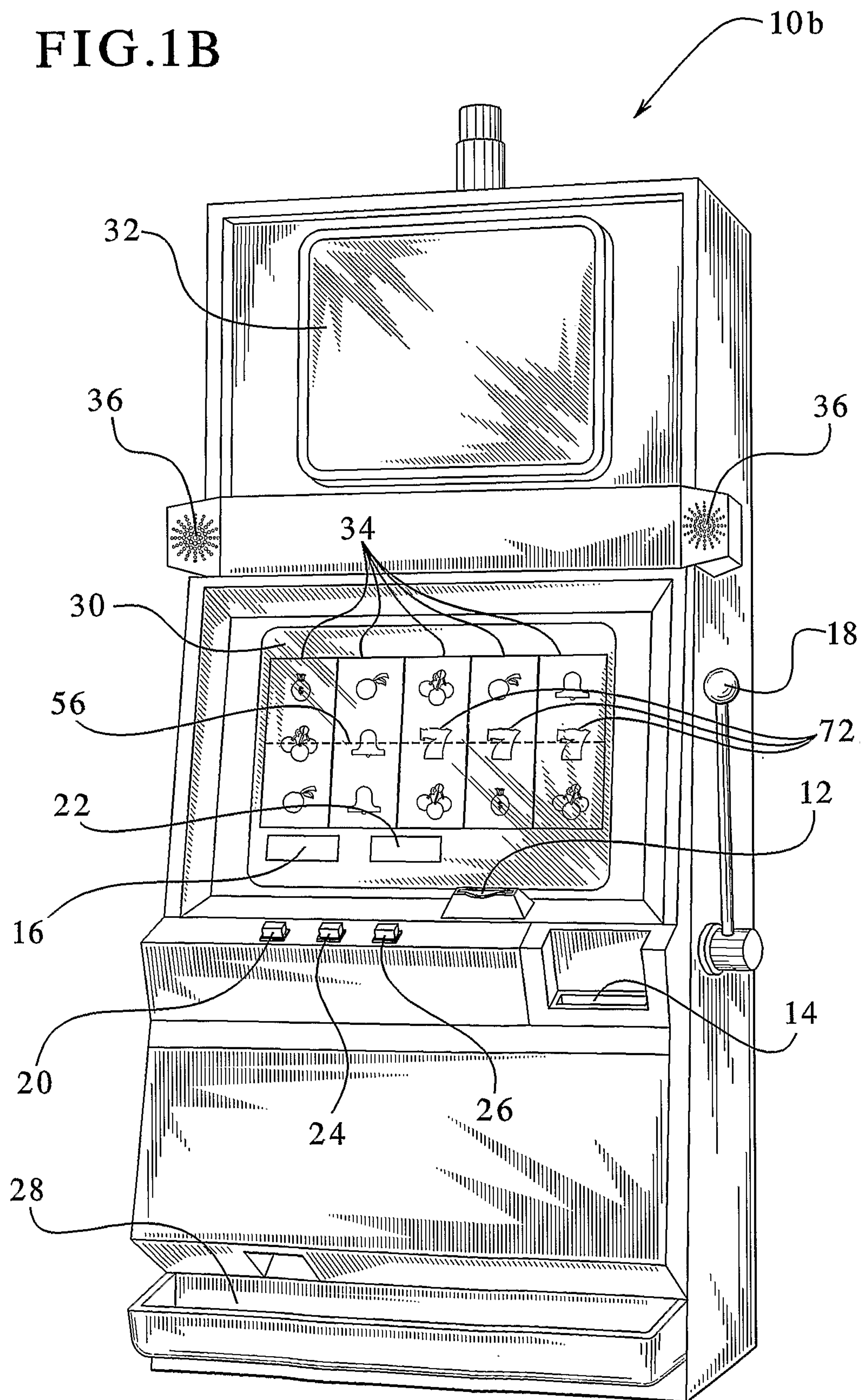
1/9

FIG. 1A



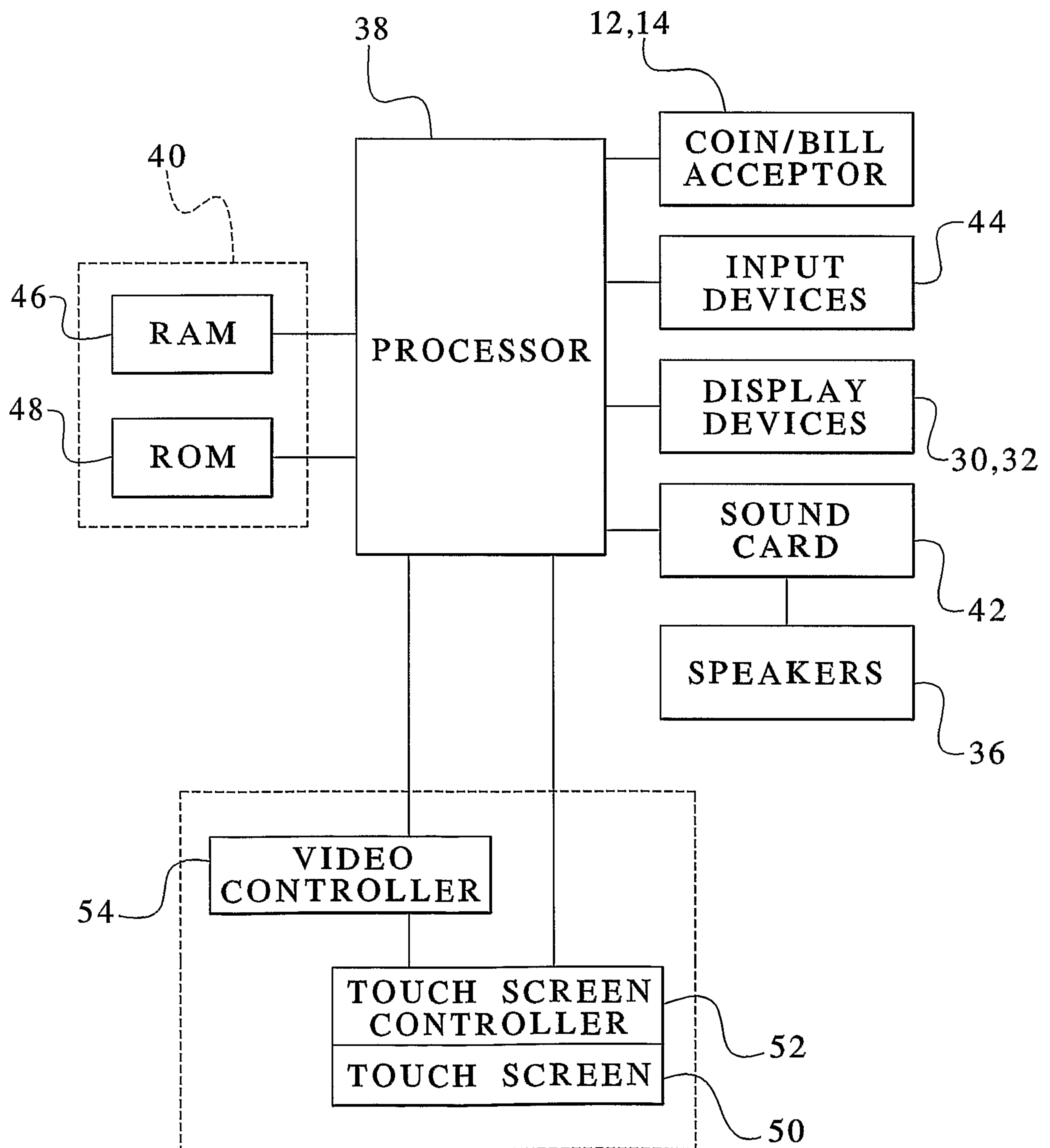
2/9

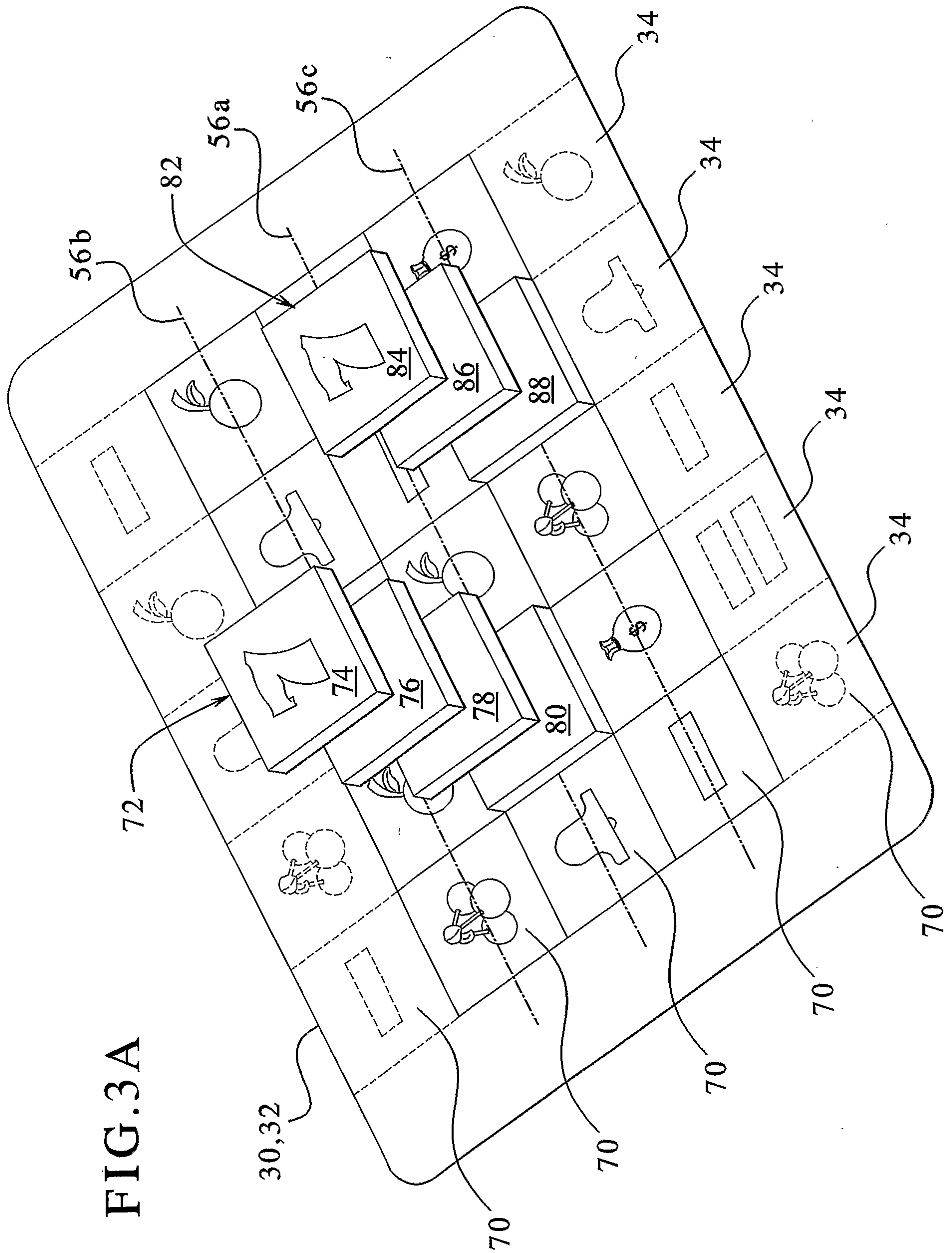
FIG. 1B



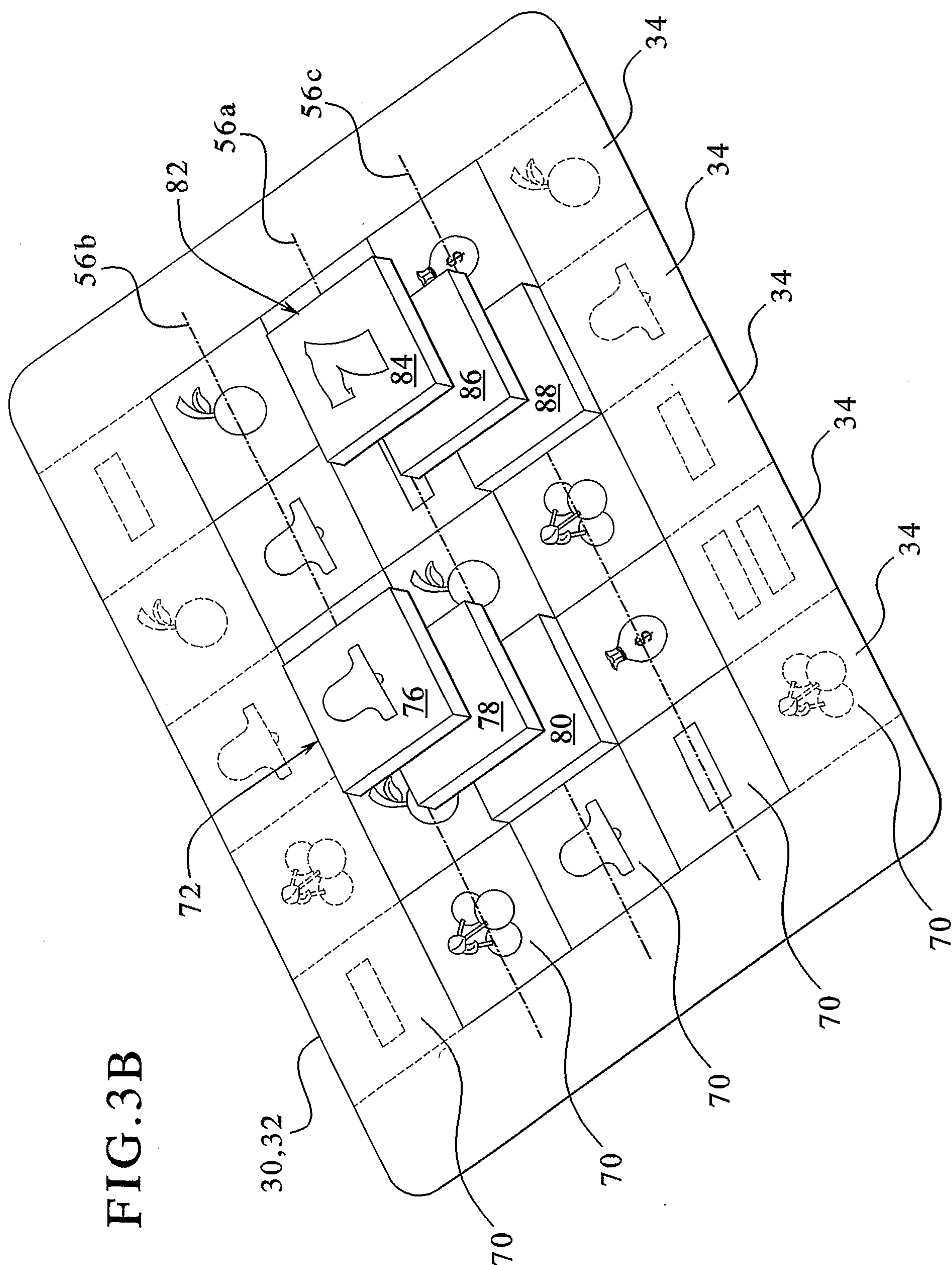
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FIG. 2

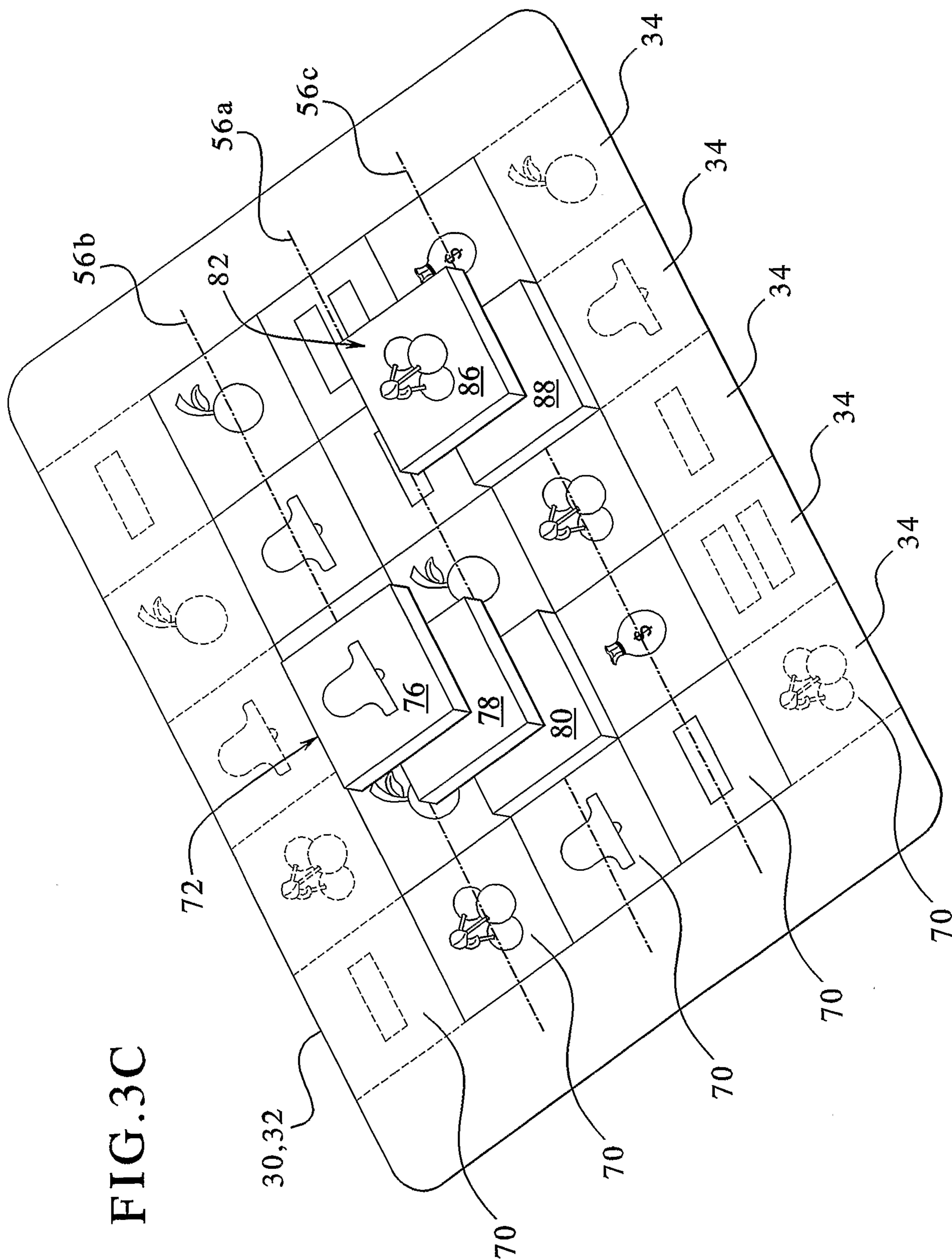




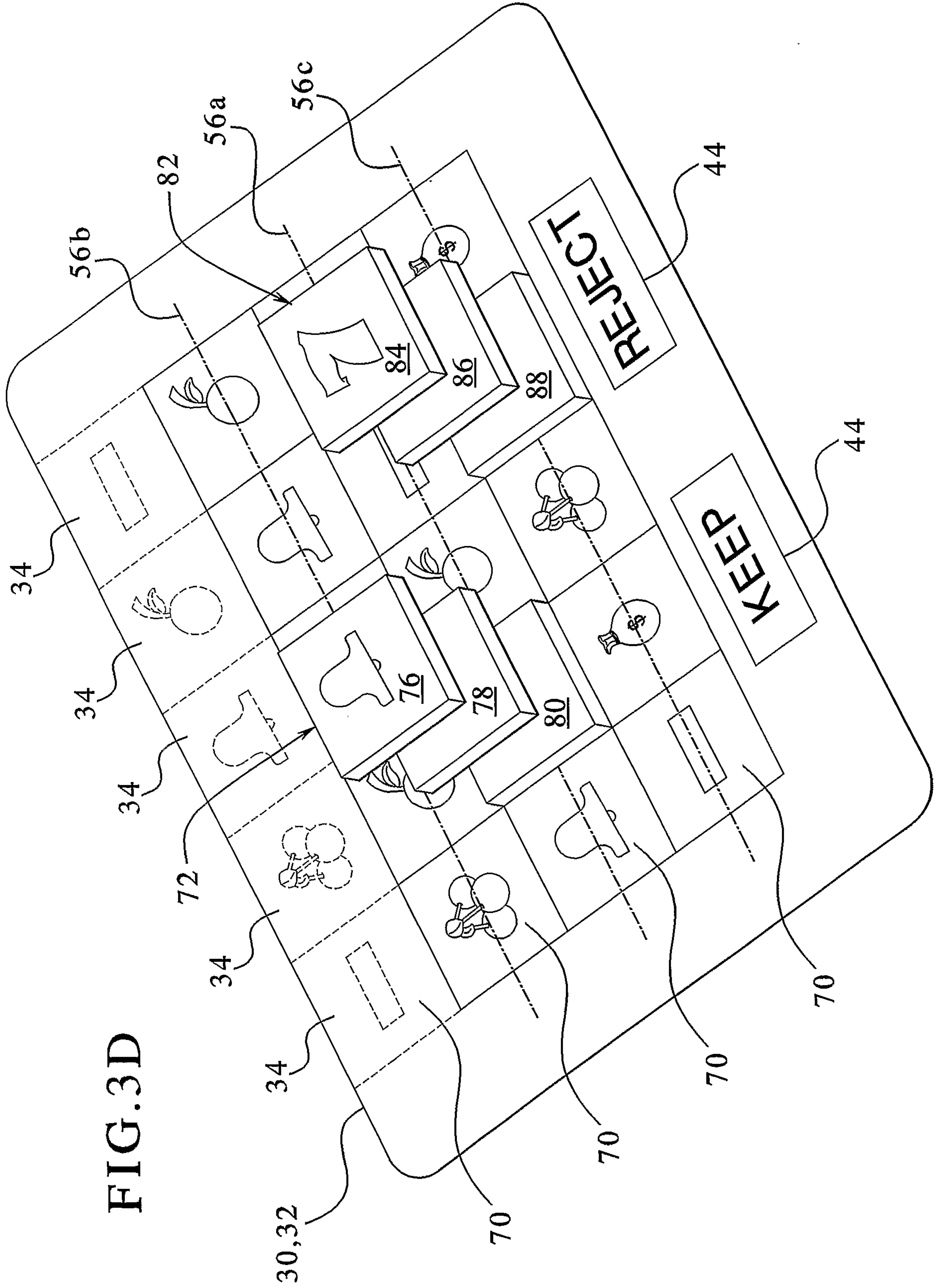
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