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Walker et al.

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- (54) **ELECTRONIC AMUSEMENT DEVICE AND METHOD FOR OPERATING SAME**
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- (21) Appl. No.: **11/084,872**
- (22) Filed: **Mar. 18, 2005**

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Filed: **Nov. 3, 2000**

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- (51) **Int. Cl.**
A63F 9/24 (2006.01)
A63F 13/00 (2006.01)

- (52) **U.S. Cl.** **463/13**; 463/11; 463/12

- (58) **Field of Classification Search** 463/10–13
See application file for complete search history.

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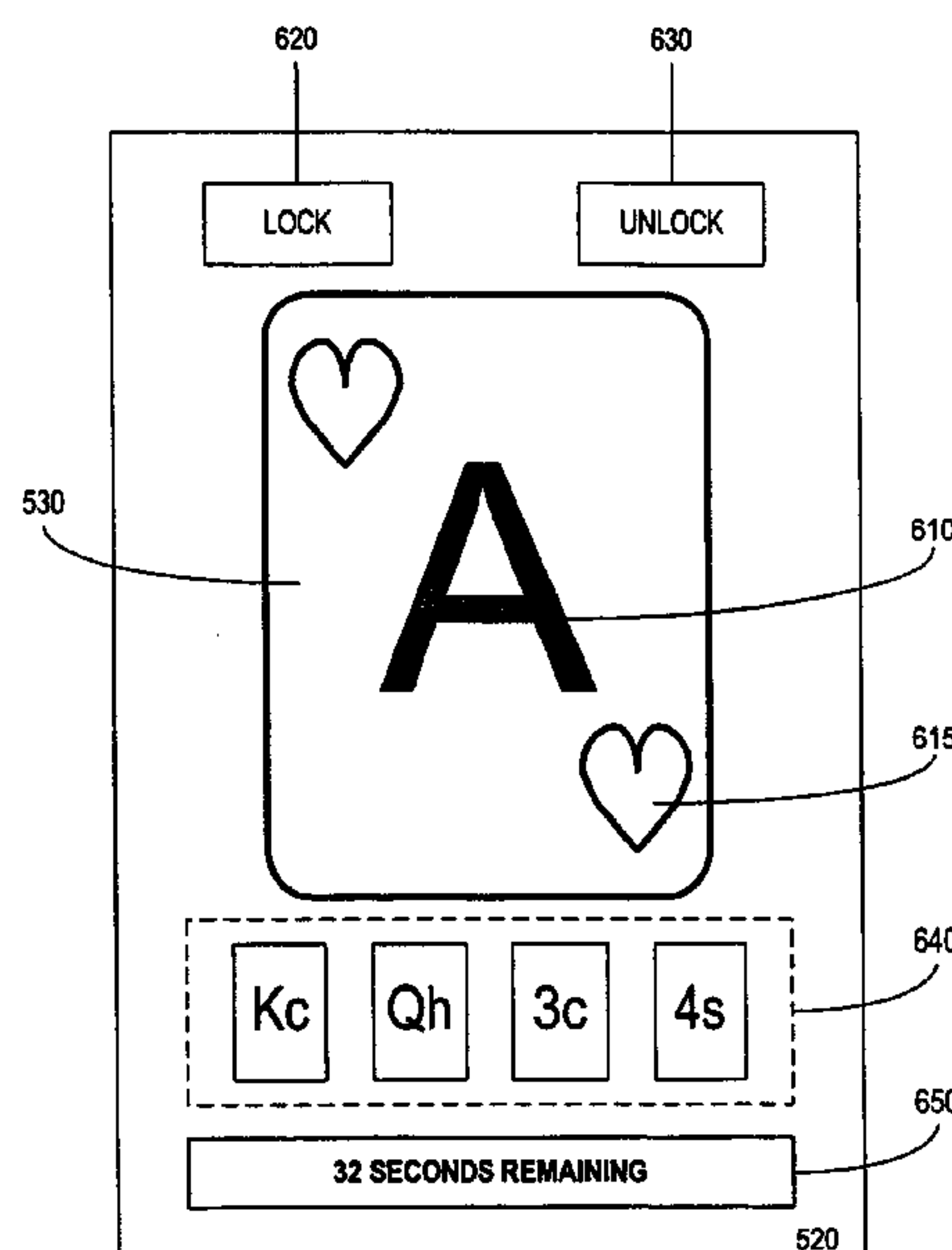
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- (57) **ABSTRACT**

An electronic amusement device and a method for operating the device are disclosed. The device conducts a game of chance that preferably incorporates game elements that change and expire during the game. The device performs the steps of generating and displaying a subject game element having a first class. The step of displaying includes displaying an indicia of the first class. The device further assigns a second class to the subject game element, and displays the subject game element, thereby displaying an indicia of the second class.

15 Claims, 22 Drawing Sheets



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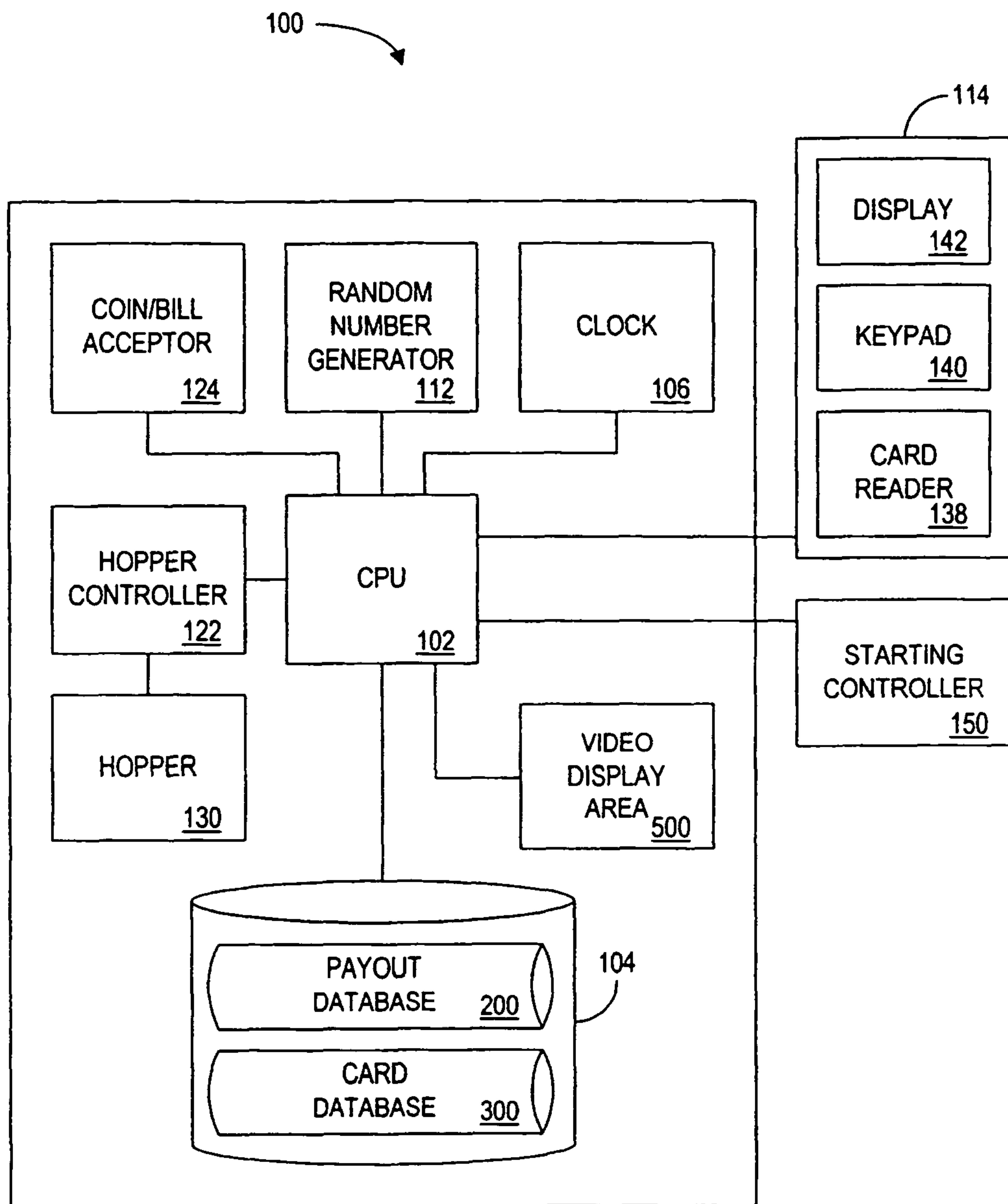


FIG. 1

200

	OUTCOME <u>210</u>	PAYOUT <u>220</u>
232	ROYAL FLUSH	\$100
234	STRAIGHT FLUSH	\$25
236	FOUR OF A KIND	\$15
238	FULL HOUSE	\$5
240	FLUSH	\$3
242	STRAIGHT	\$2
244	THREE OF A KIND	\$1
246	TWO PAIR	\$0
248	ONE PAIR	\$0
250	HIGH CARD	\$0

FIG. 2

300

CARD IDENTIFIER 310	RANK 312	SUIT 314	STATUS 316	LOCATION 318	TIME DEALT 320	DURATION 322
11	8	CLUB	IN DECK	5	N/A	N/A
26	10	HEART	DEALT	FIRST ROW SECOND POSITION	09:05:36	120 SECONDS
32	J	CLUB	DEALT	FIRST ROW THIRD POSITION	09:05:39	120 SECONDS
15	4	SPADE	DISCARDED	DISCARDS	08:56:25	N/A
9	A	DIAMOND	FIRST ALTERATION WARNING	FIRST ROW FIRST POSITION	09:03:22	120 SECONDS

340

342

344

346

348

FIG. 3

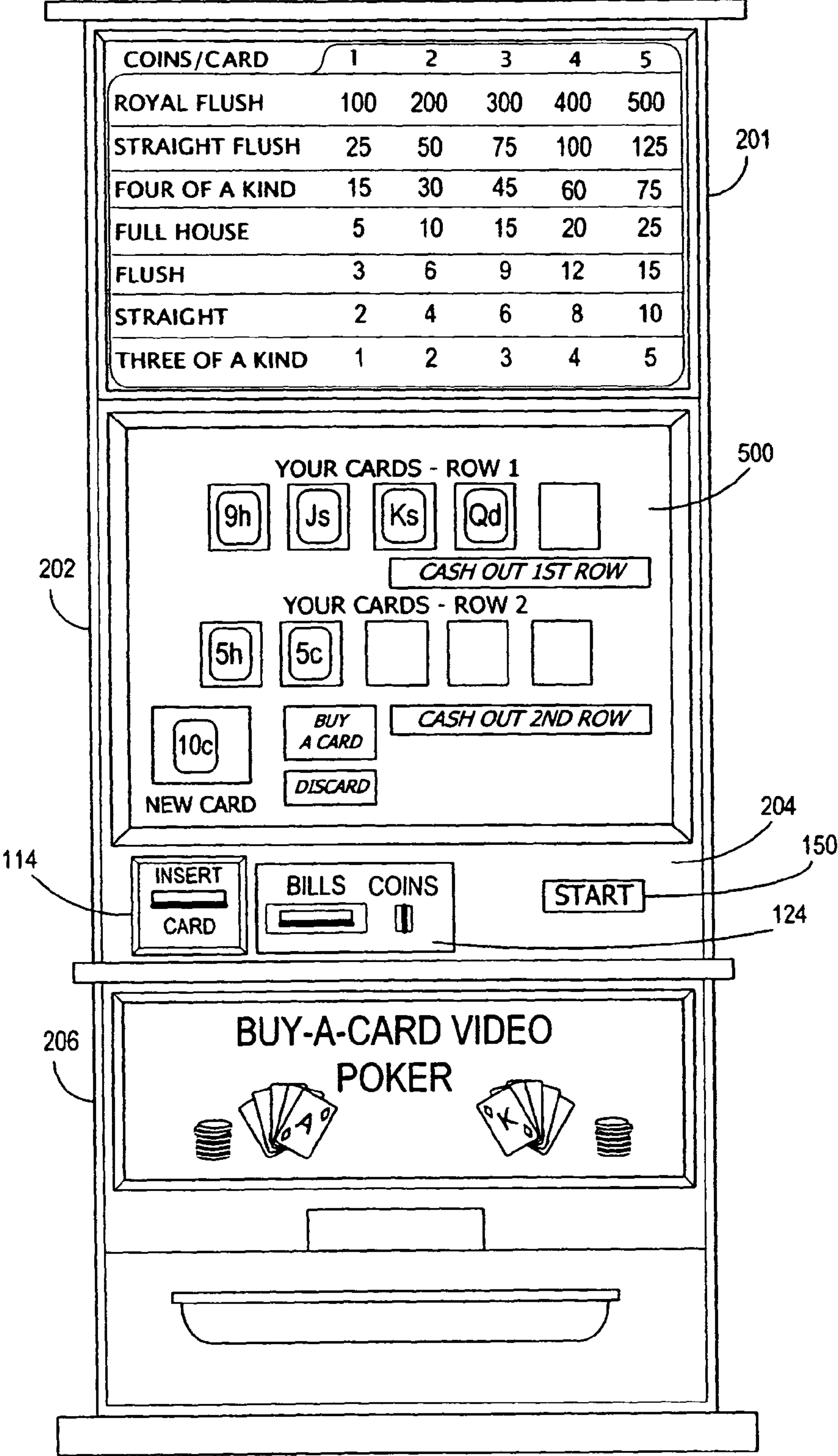


FIG. 4

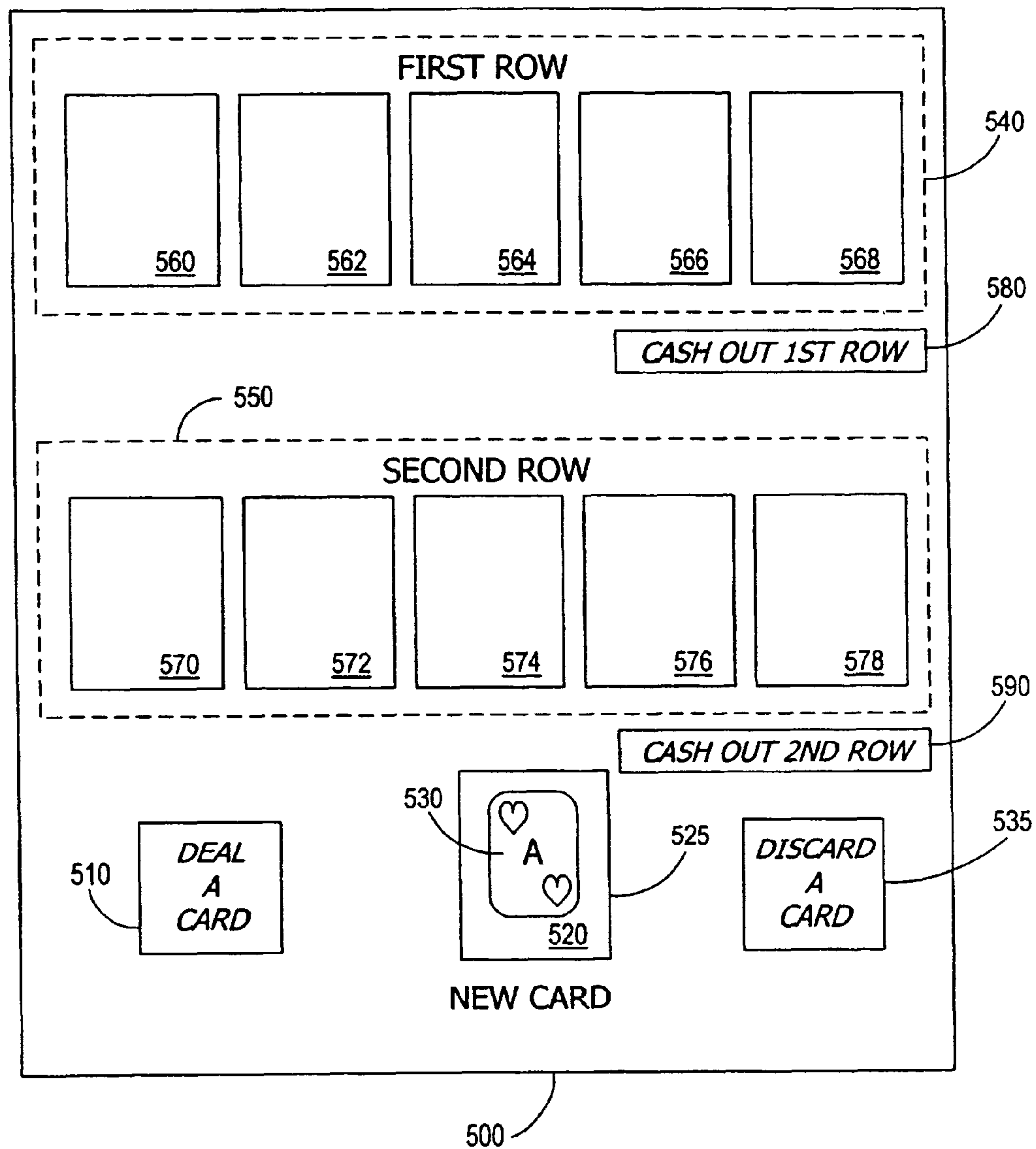


FIG. 5A

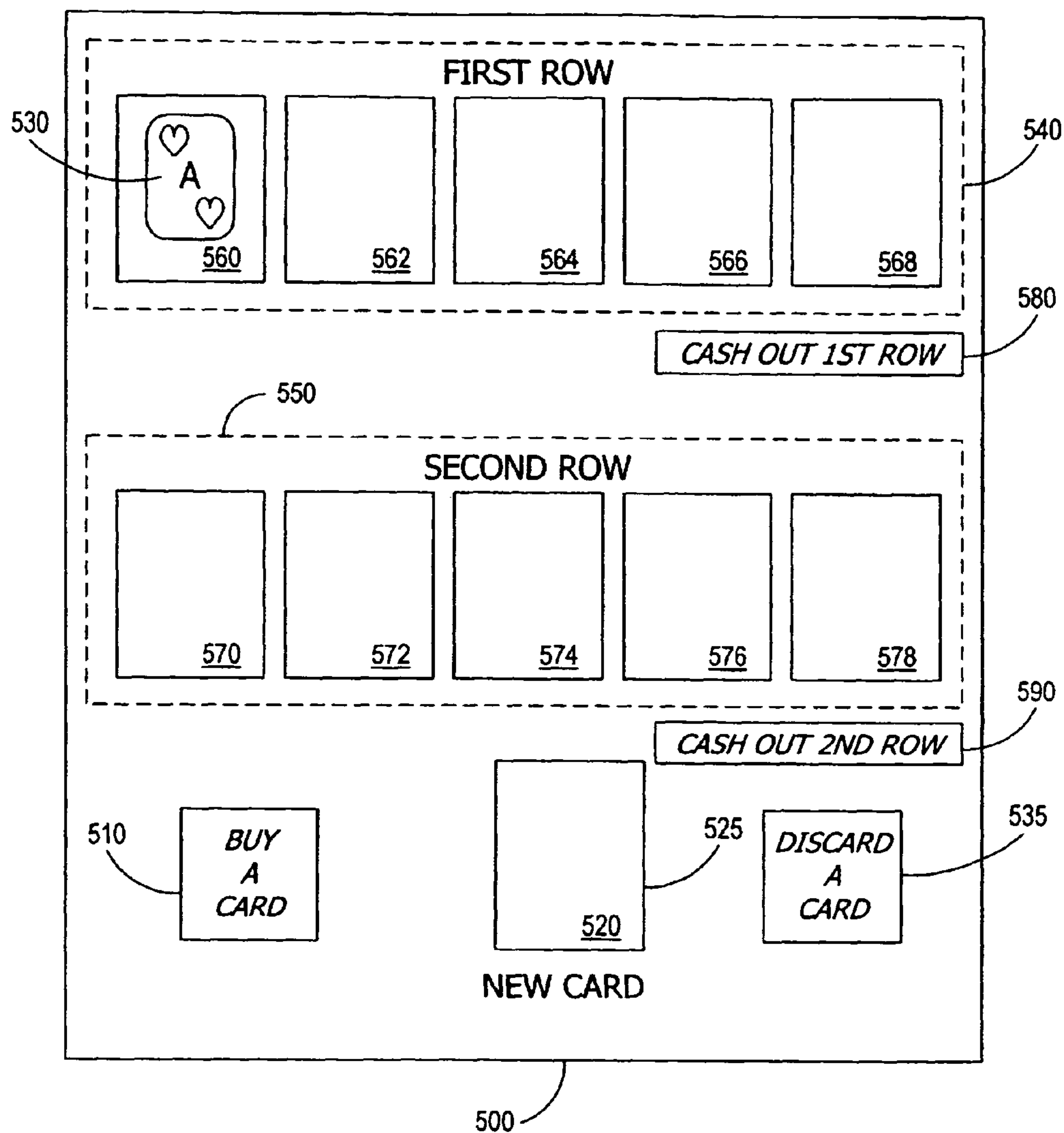


FIG. 5B

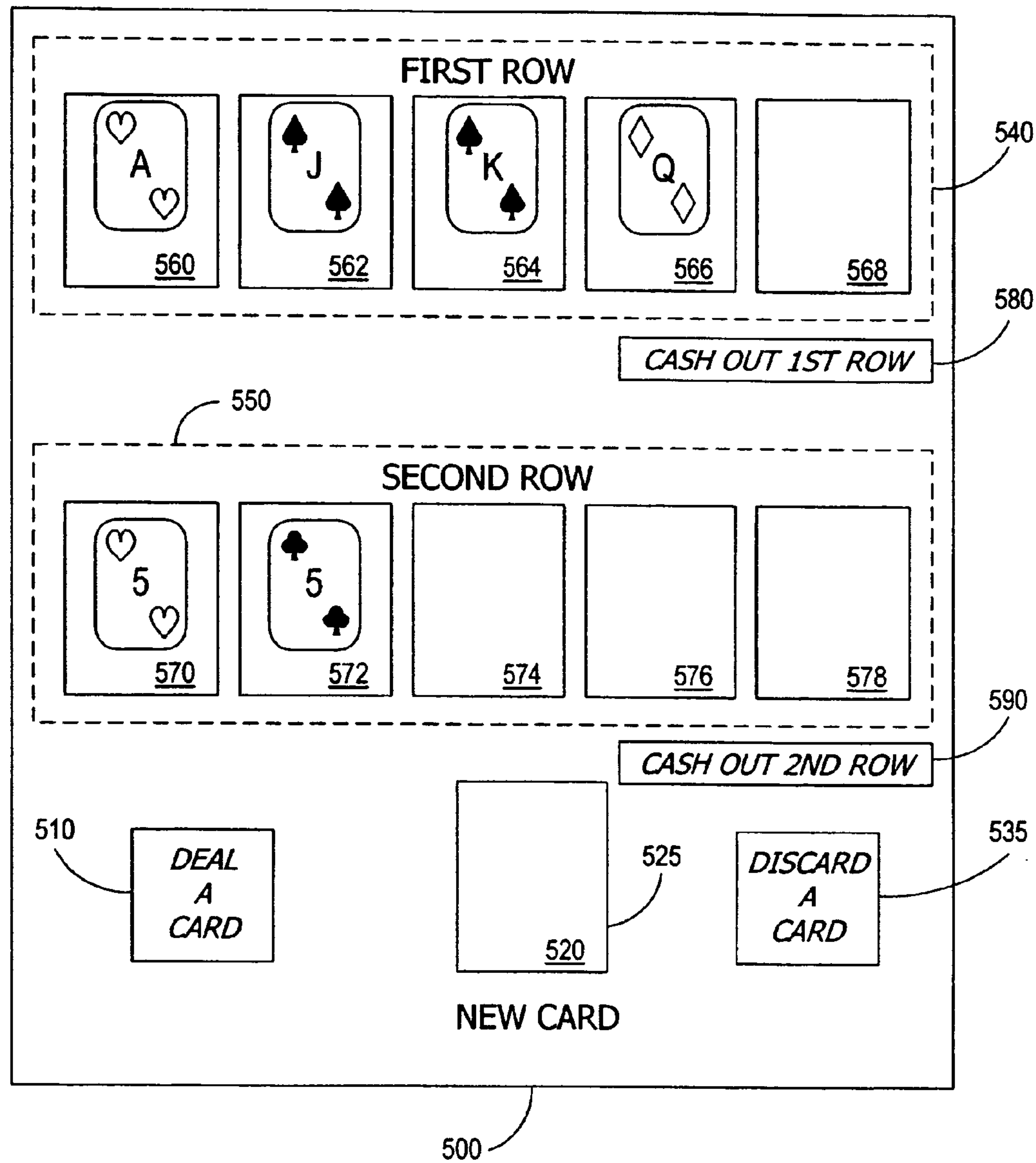


FIG. 5C

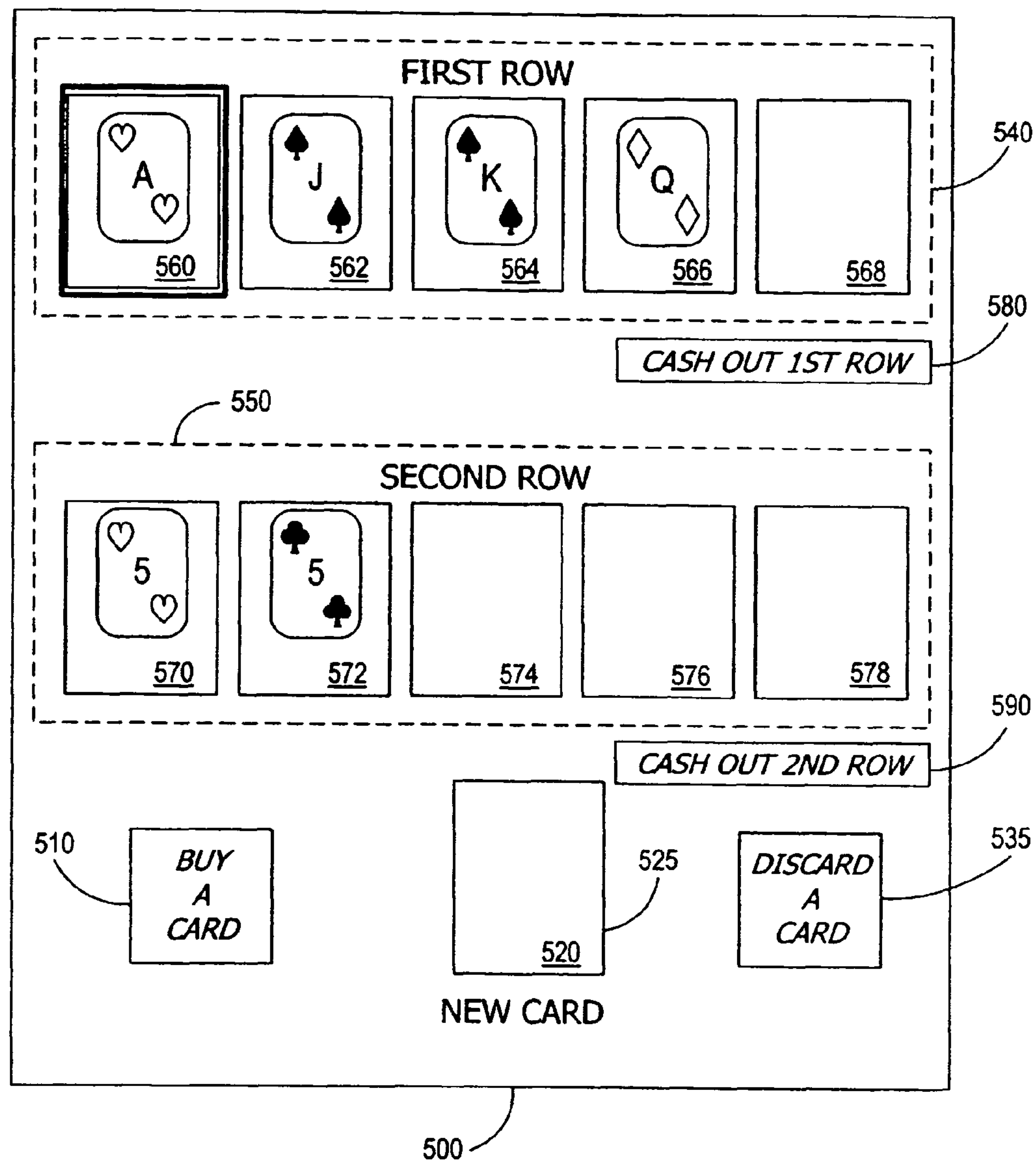


FIG. 5D

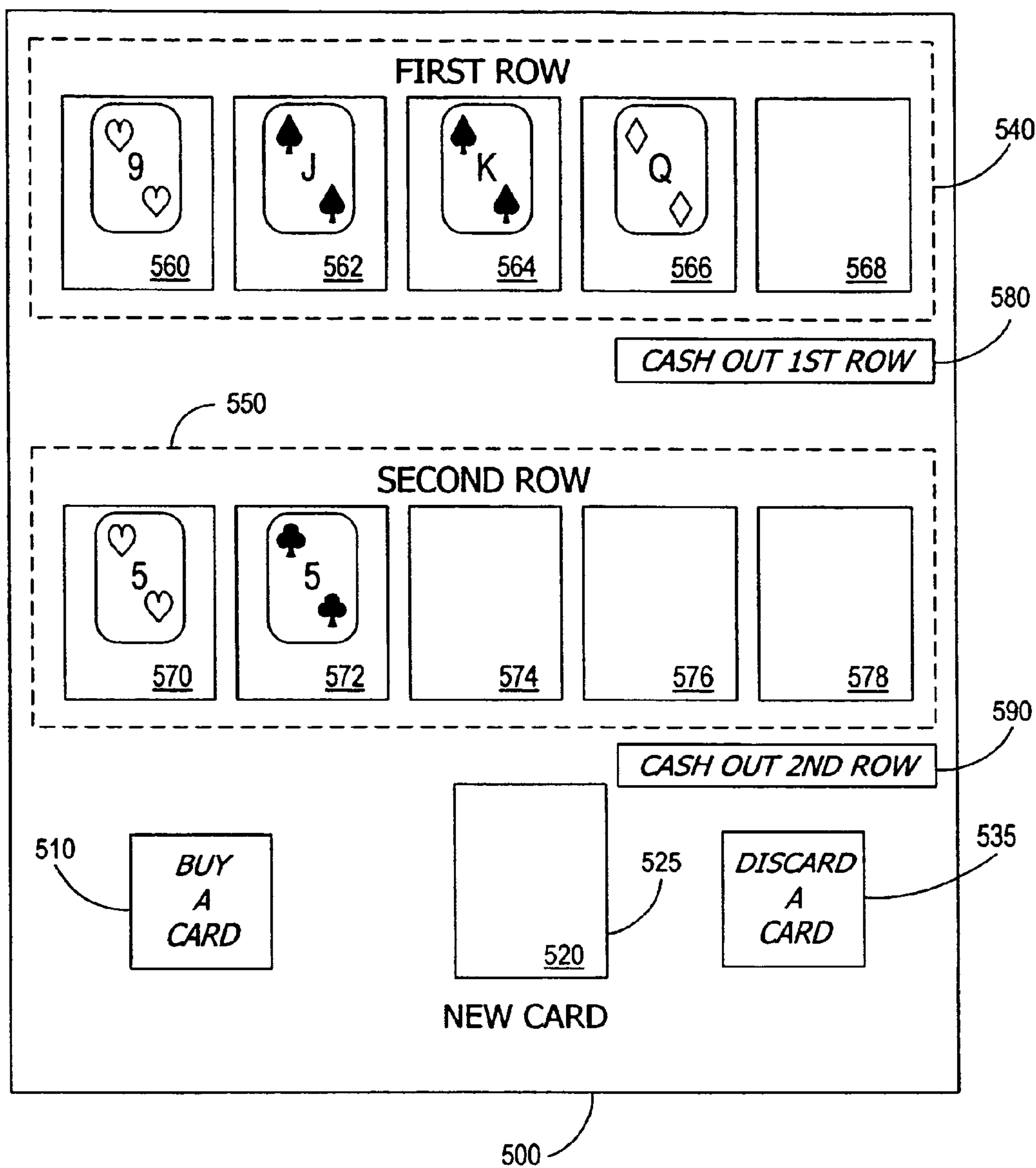


FIG. 5E

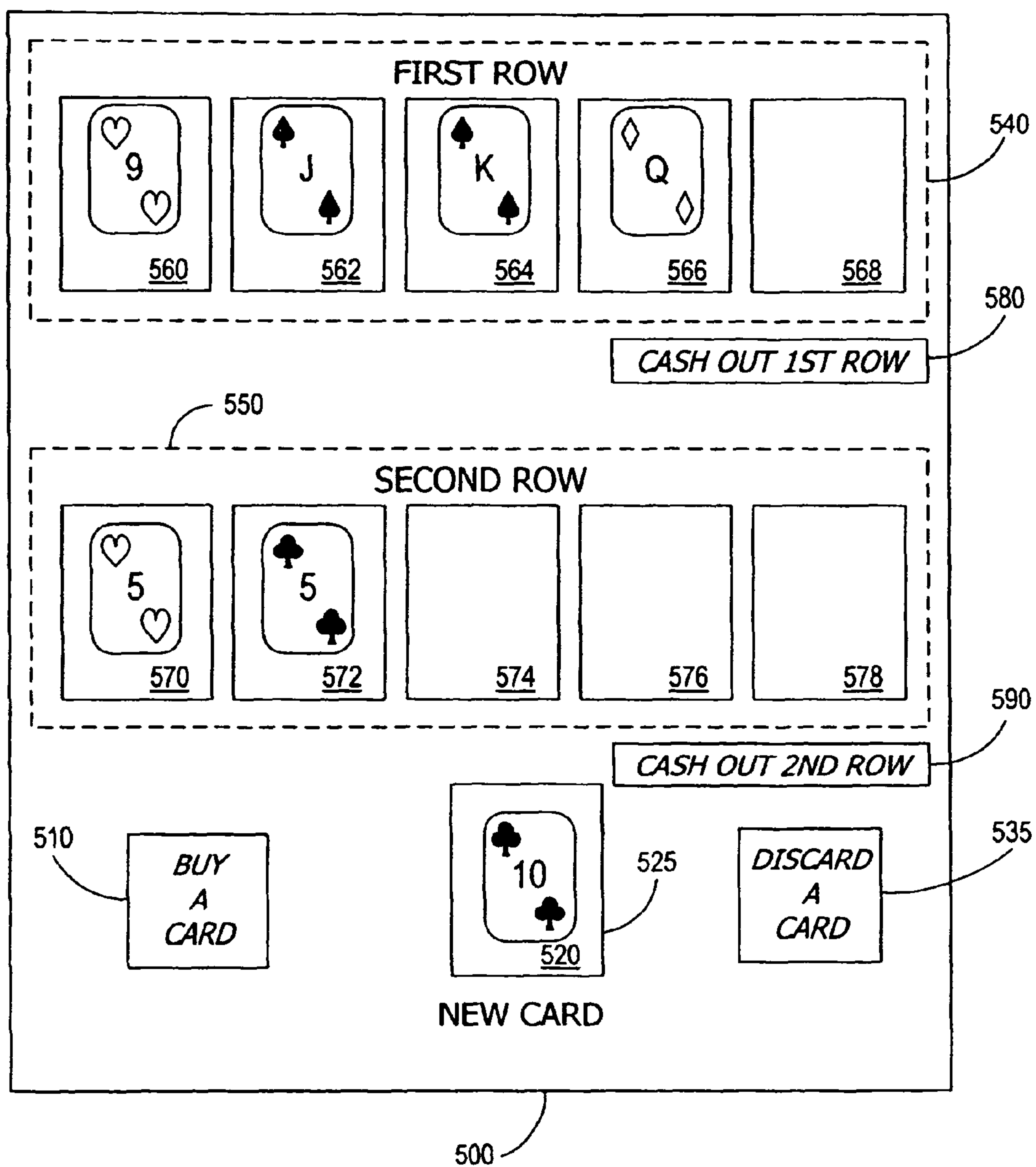


FIG. 5F

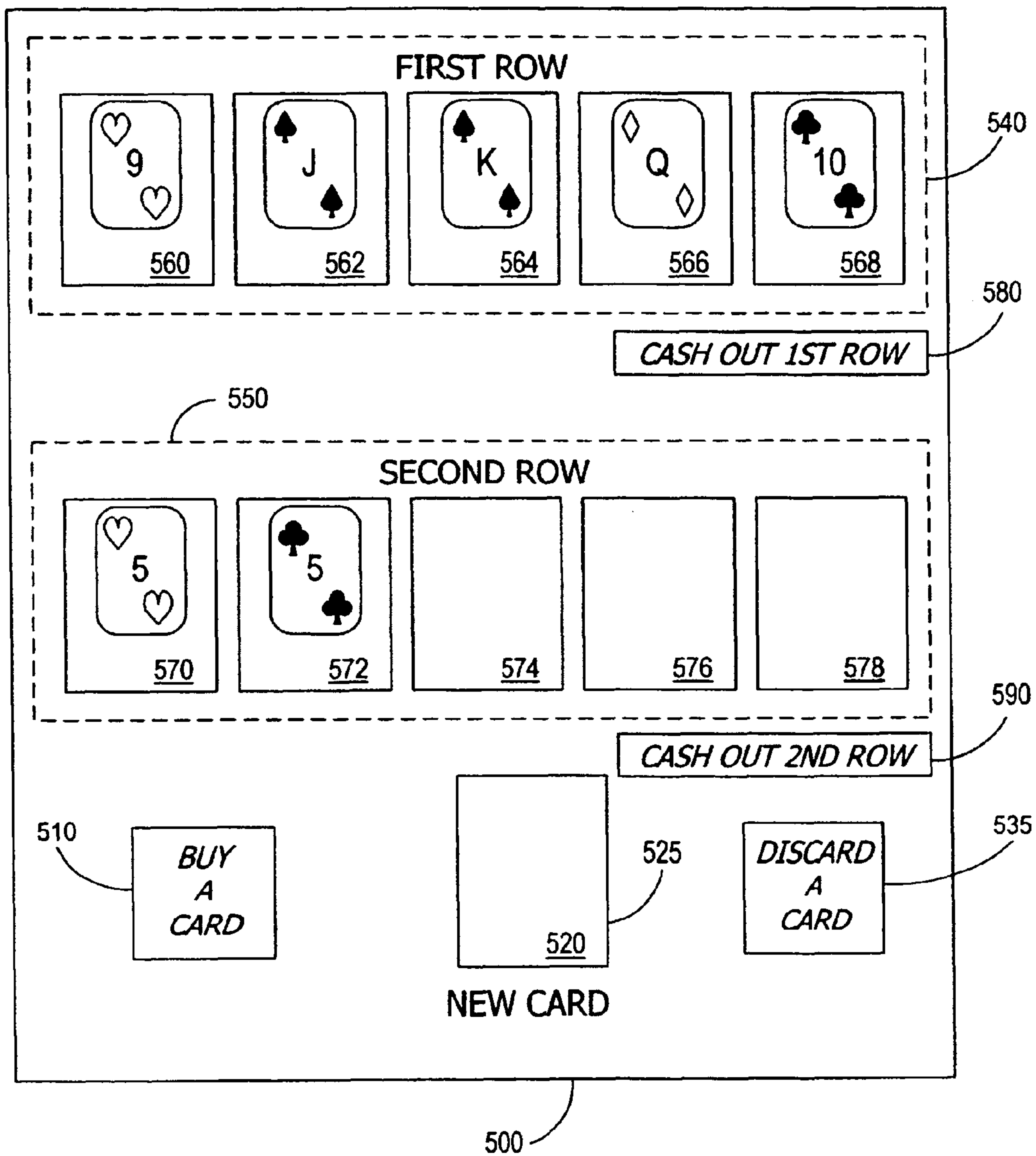


FIG. 5G

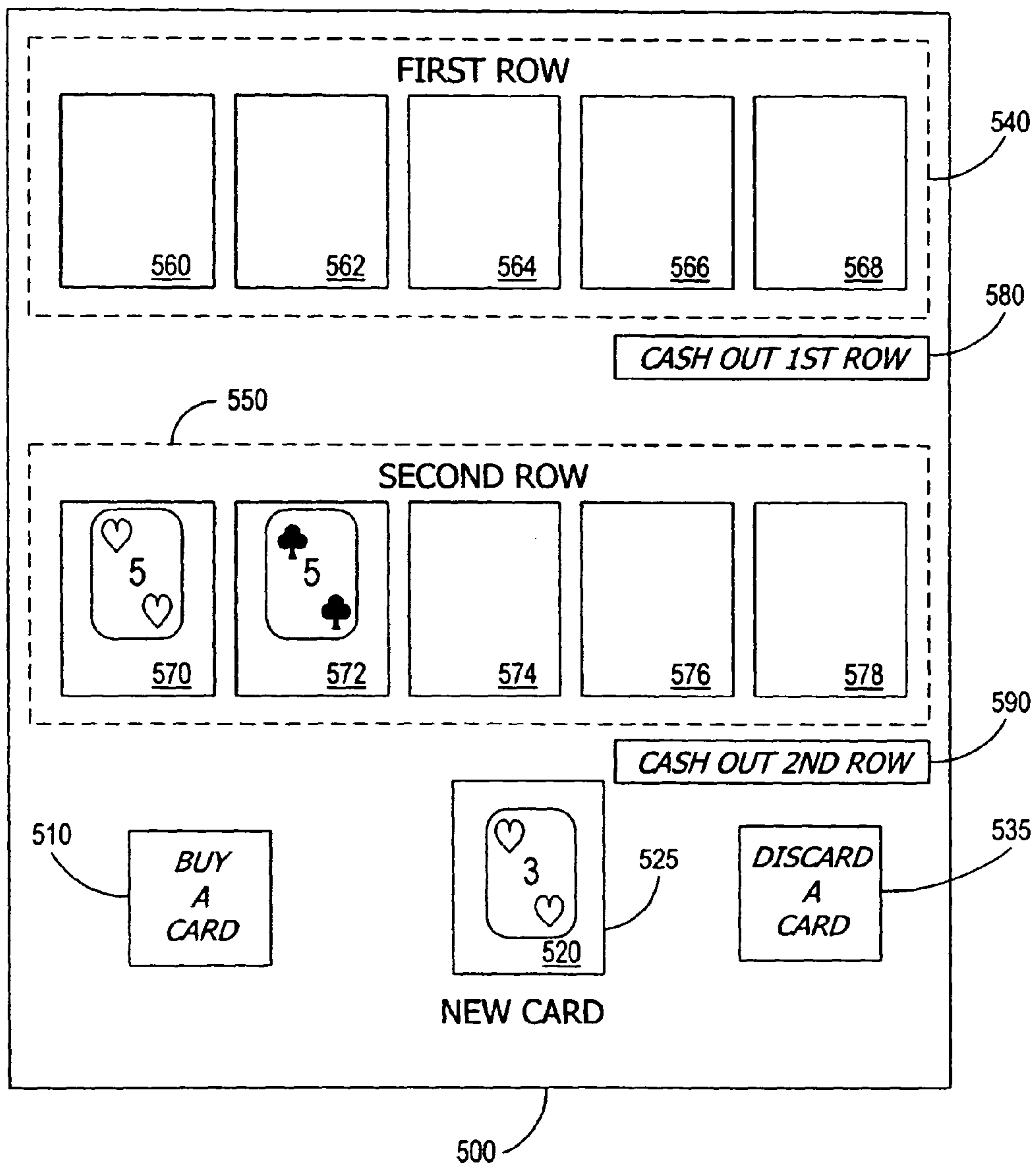


FIG. 5H

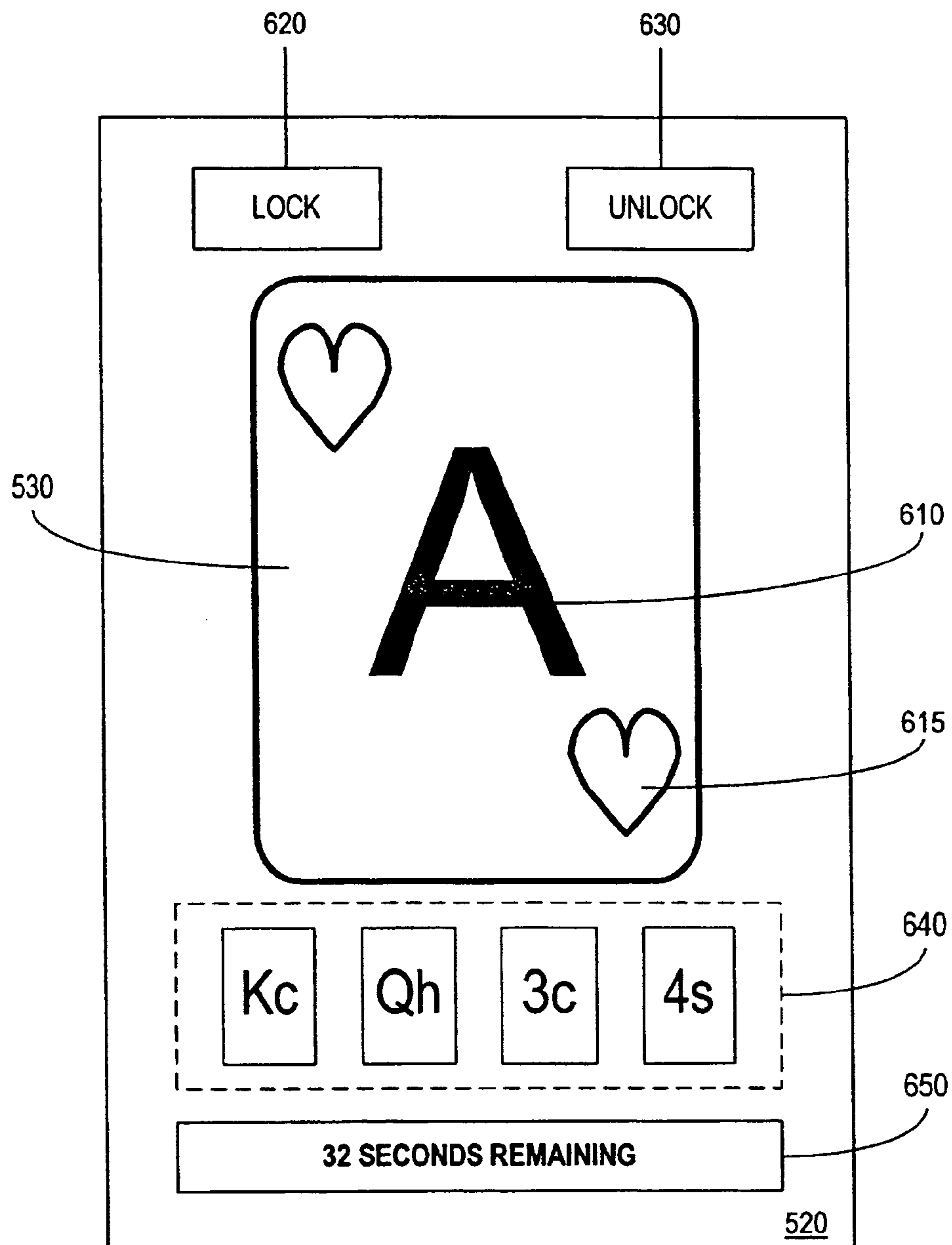


FIG. 6

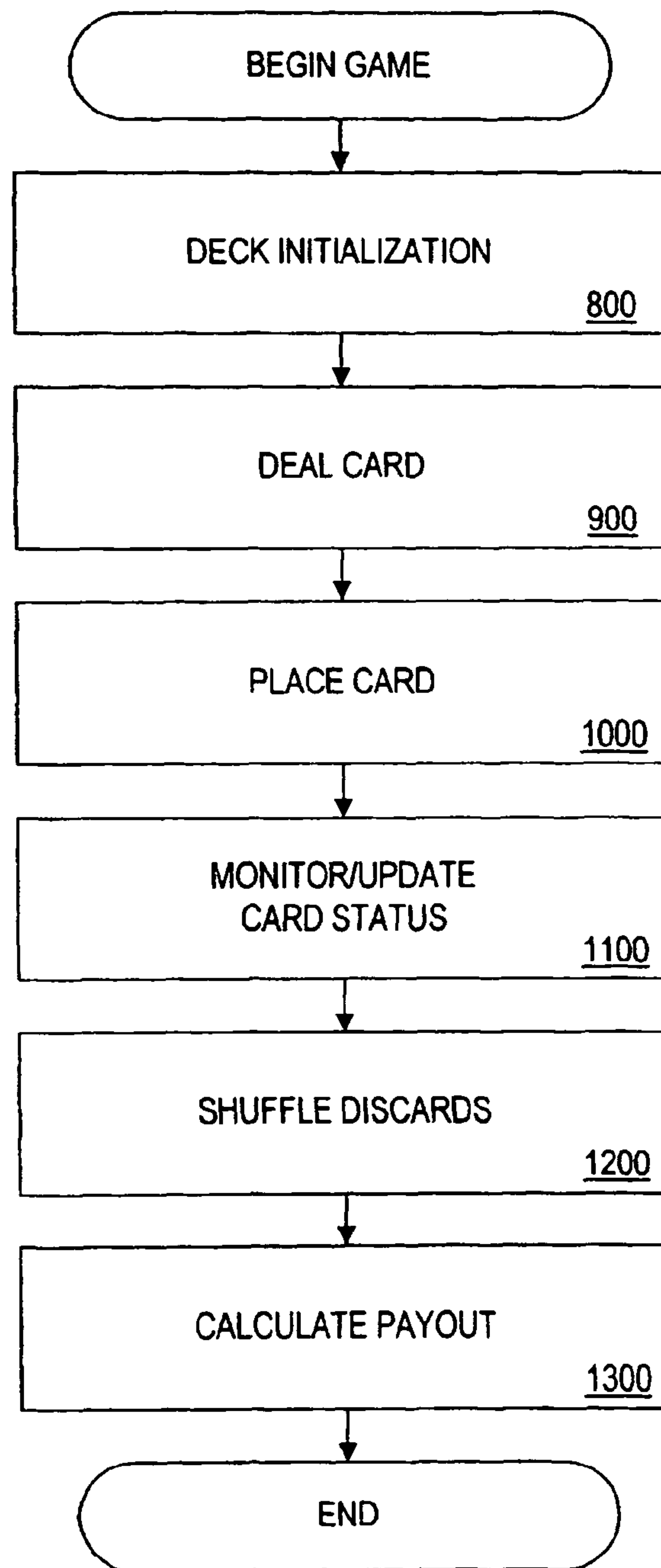


FIG. 7

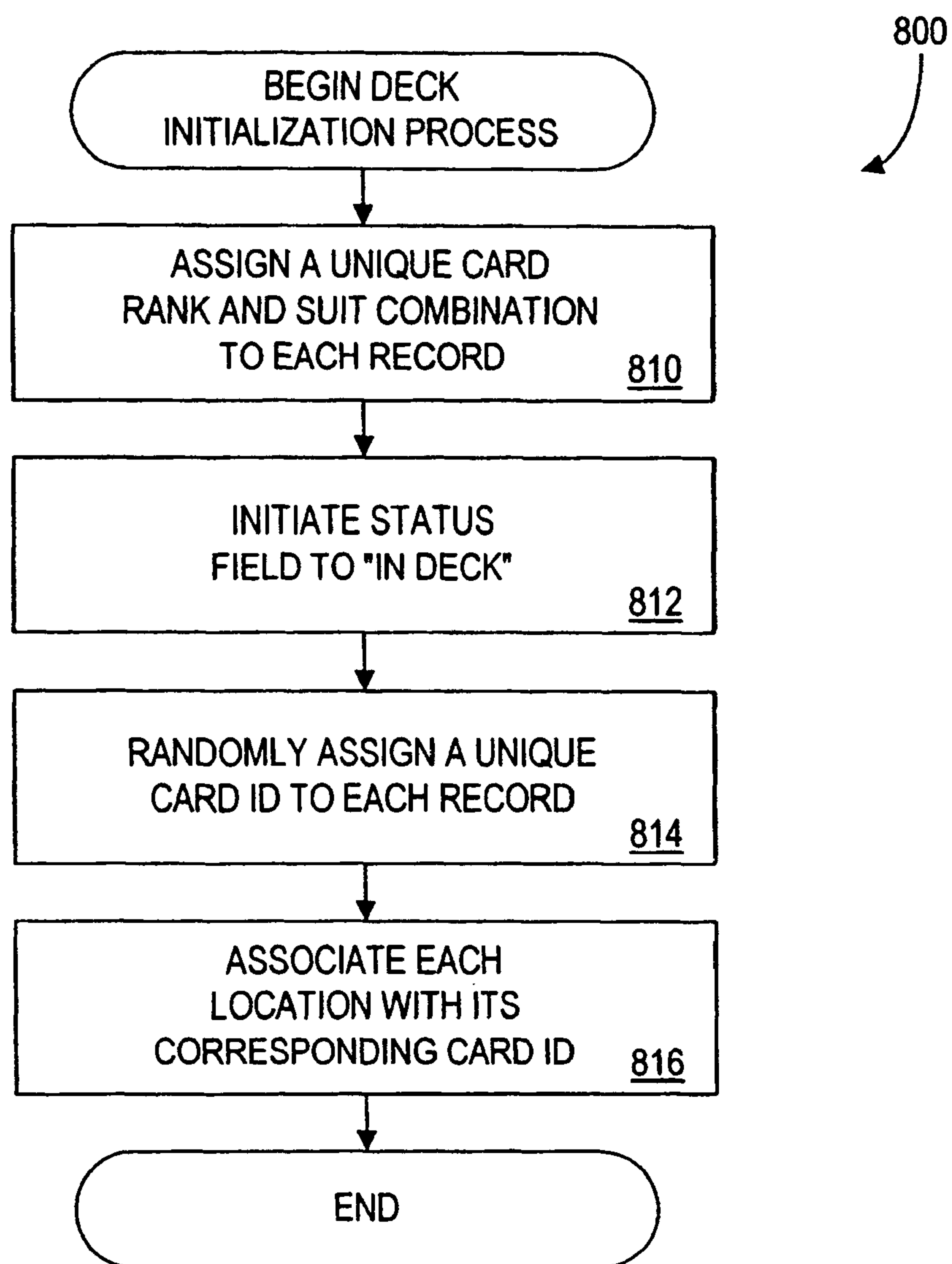


FIG. 8

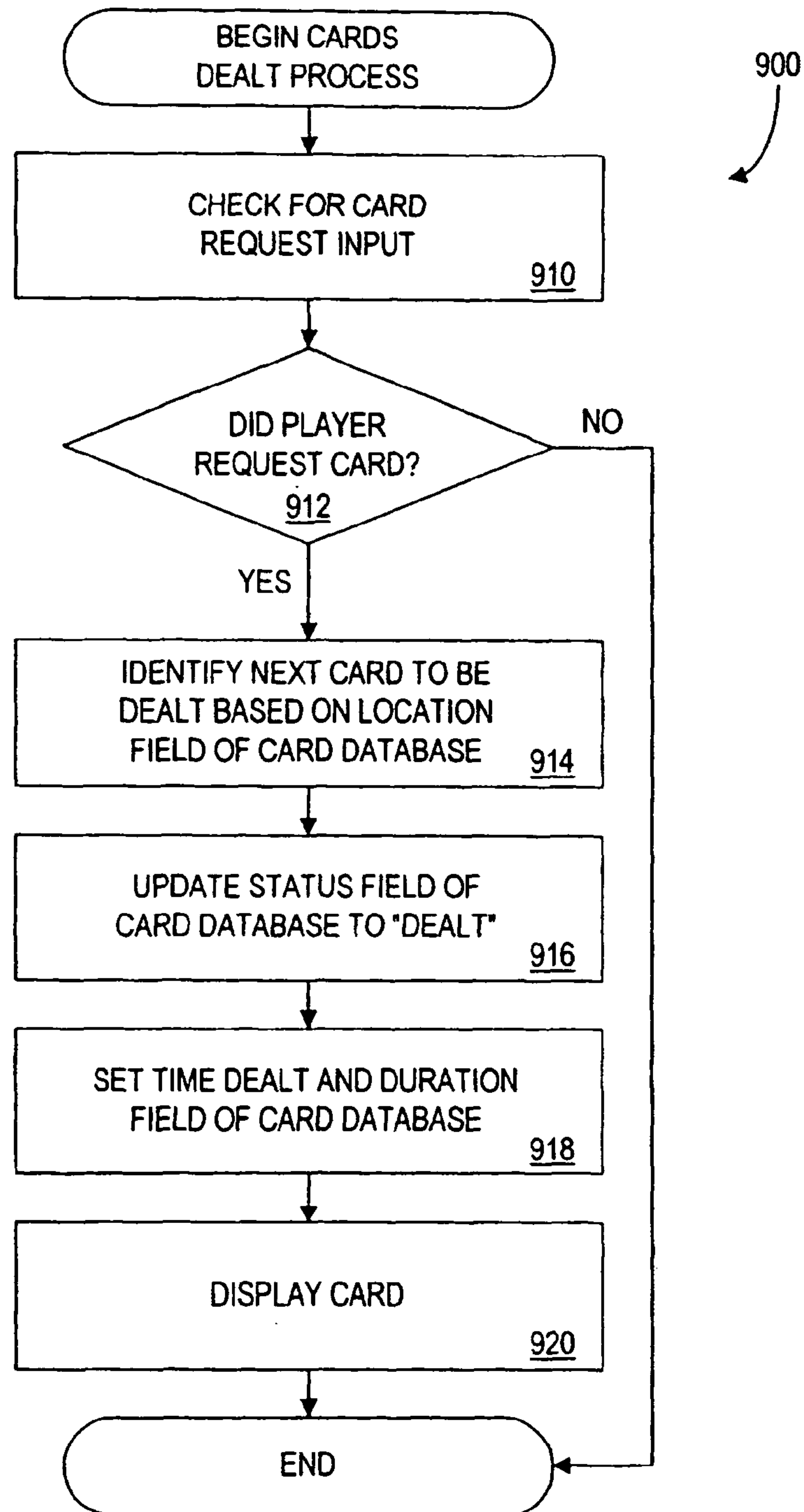


FIG. 9

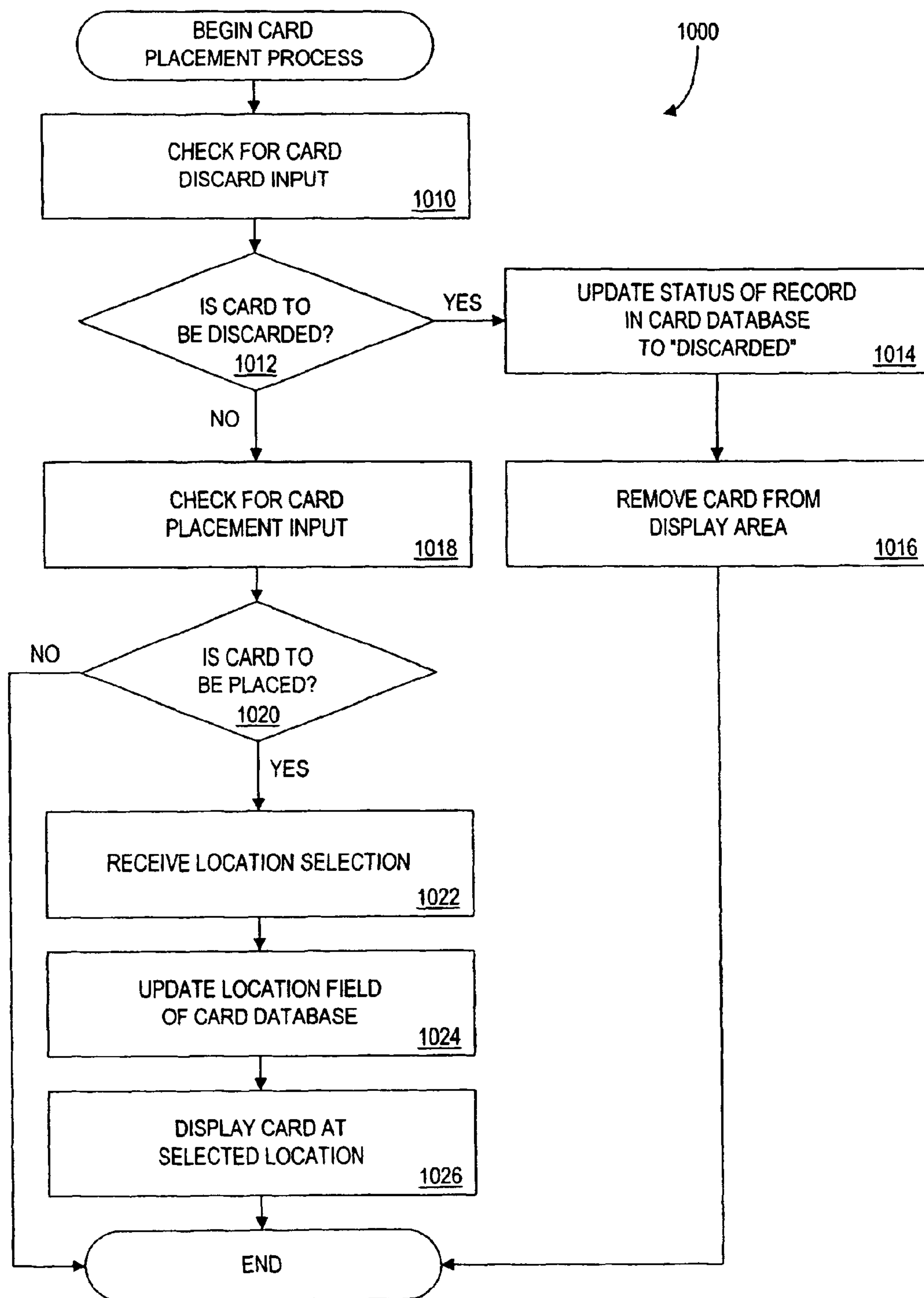


FIG. 10

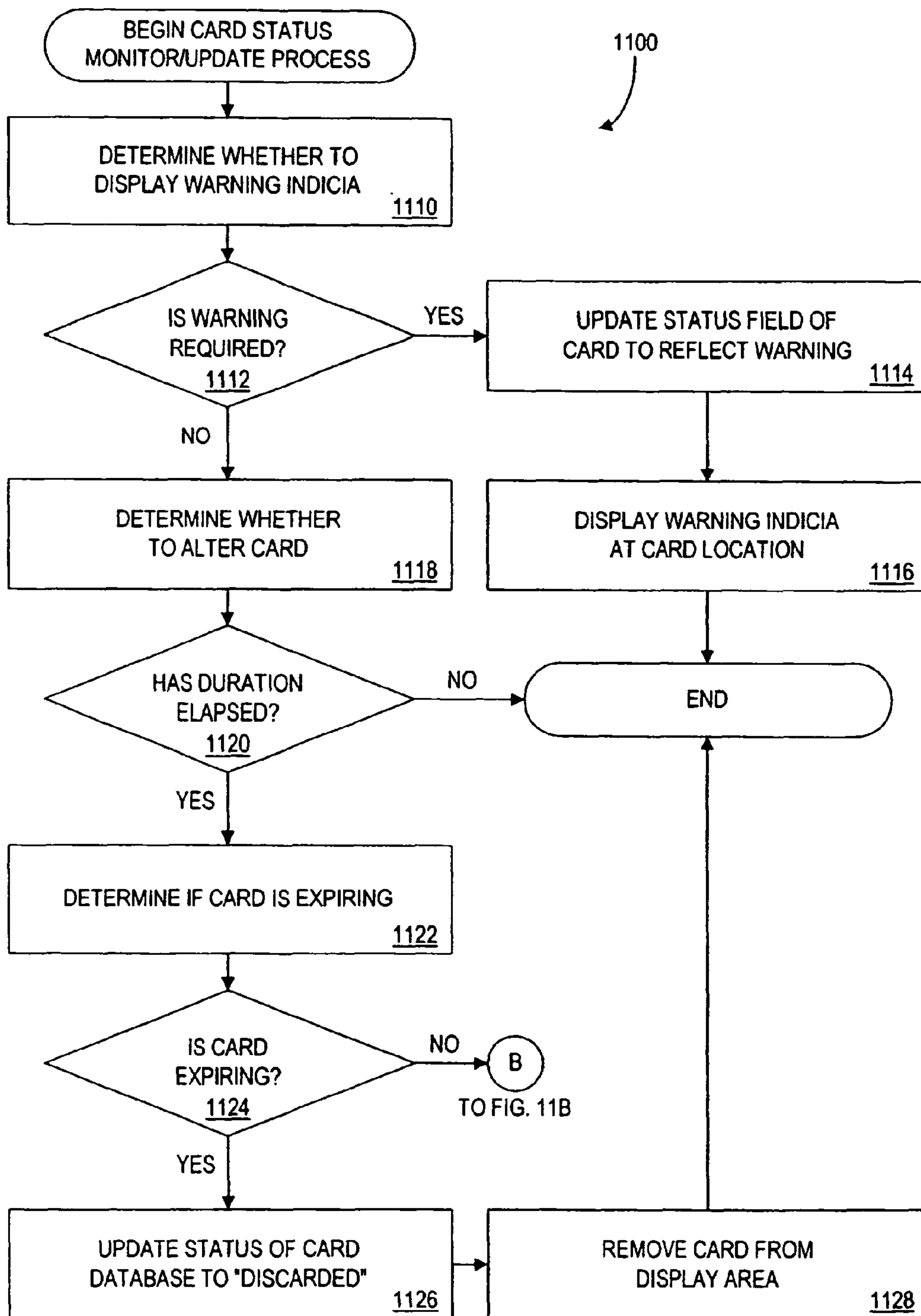


FIG. 11A

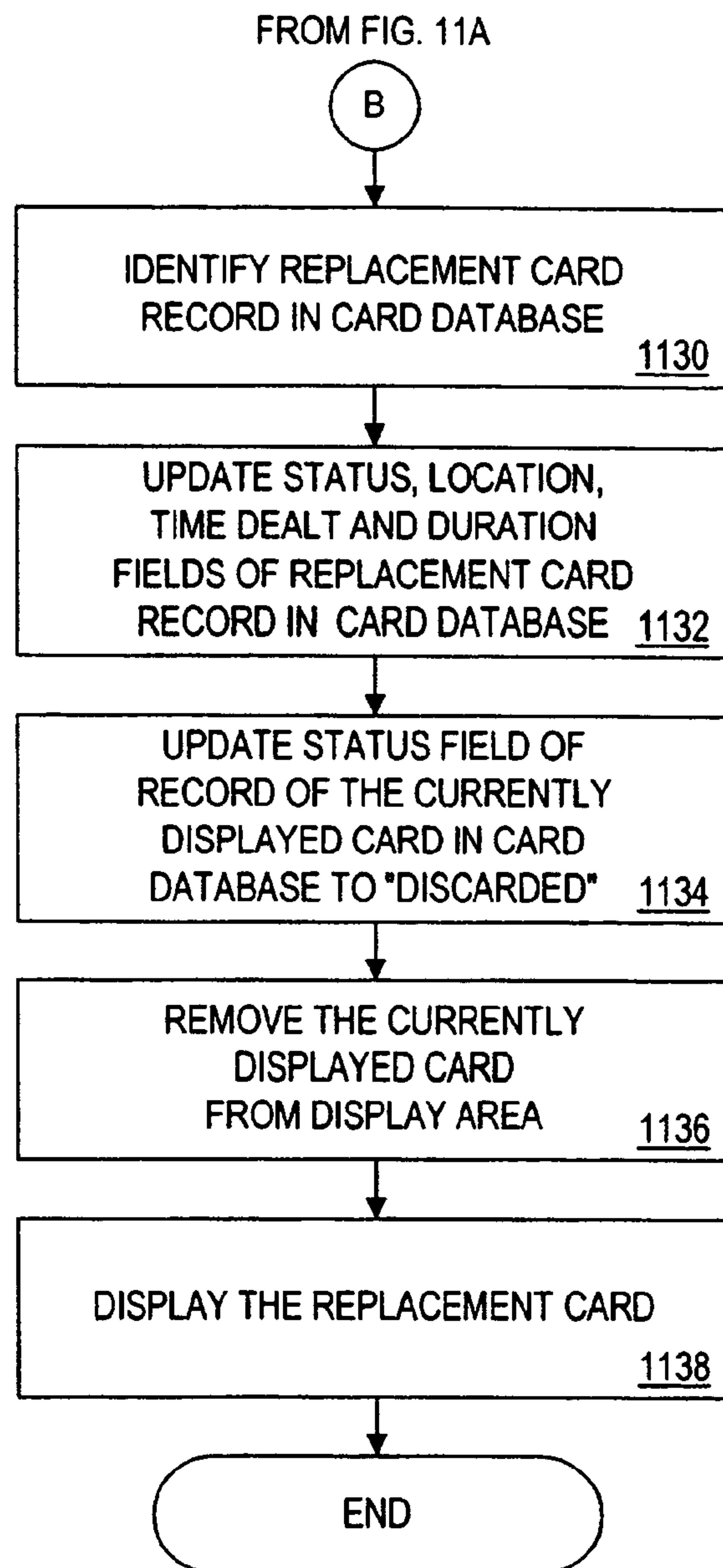


FIG. 11B

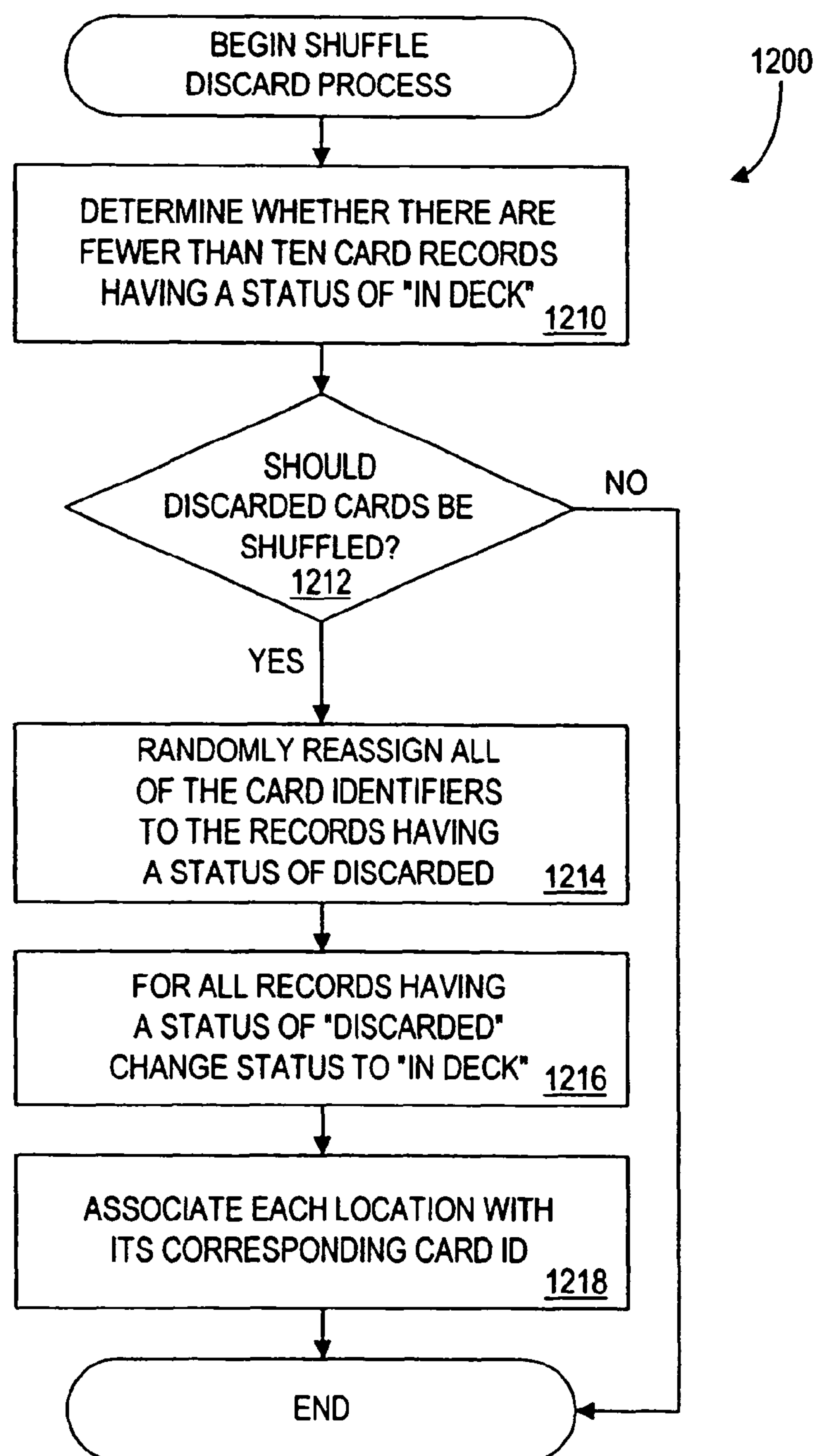


FIG. 12

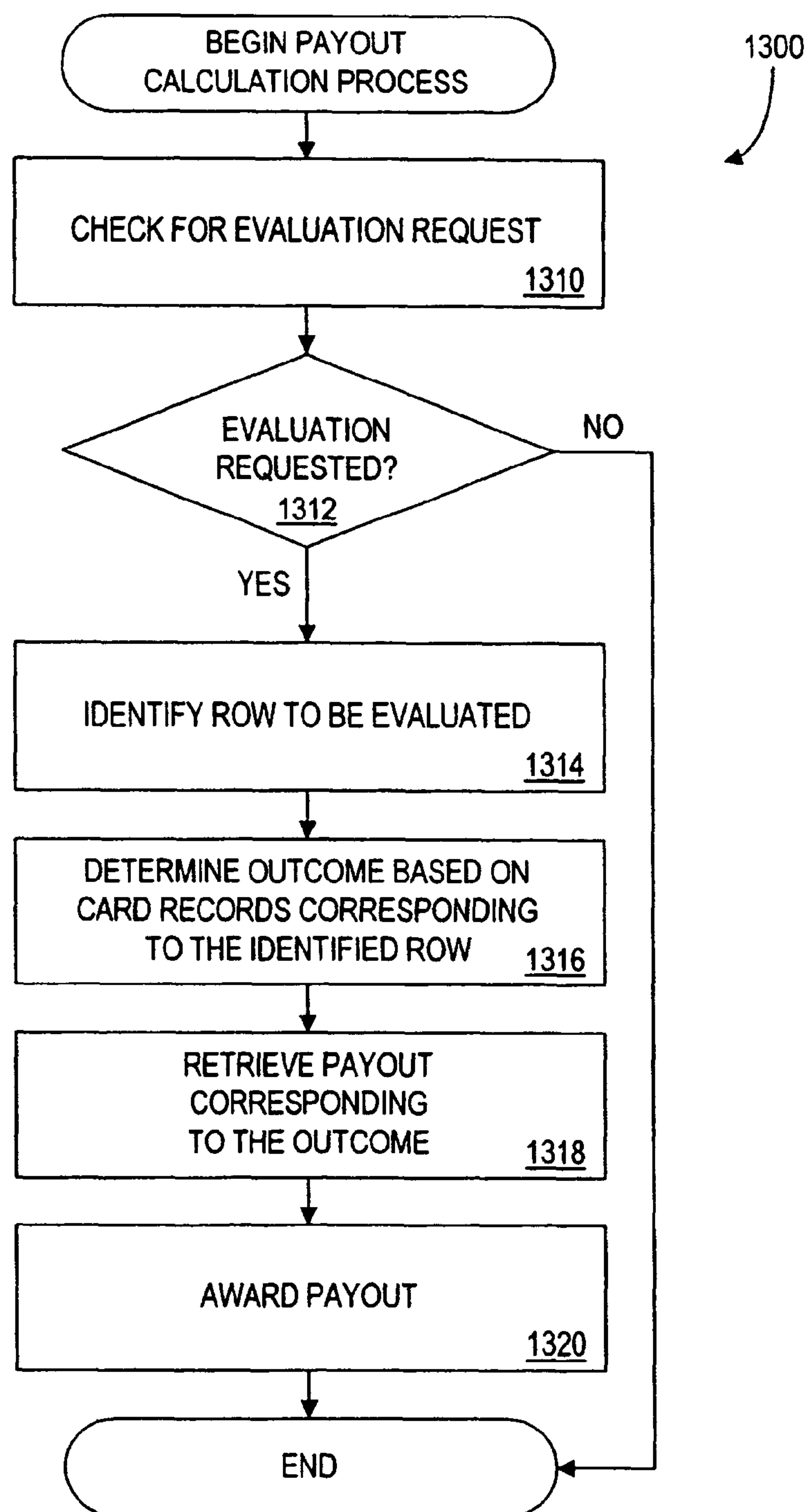


FIG. 13

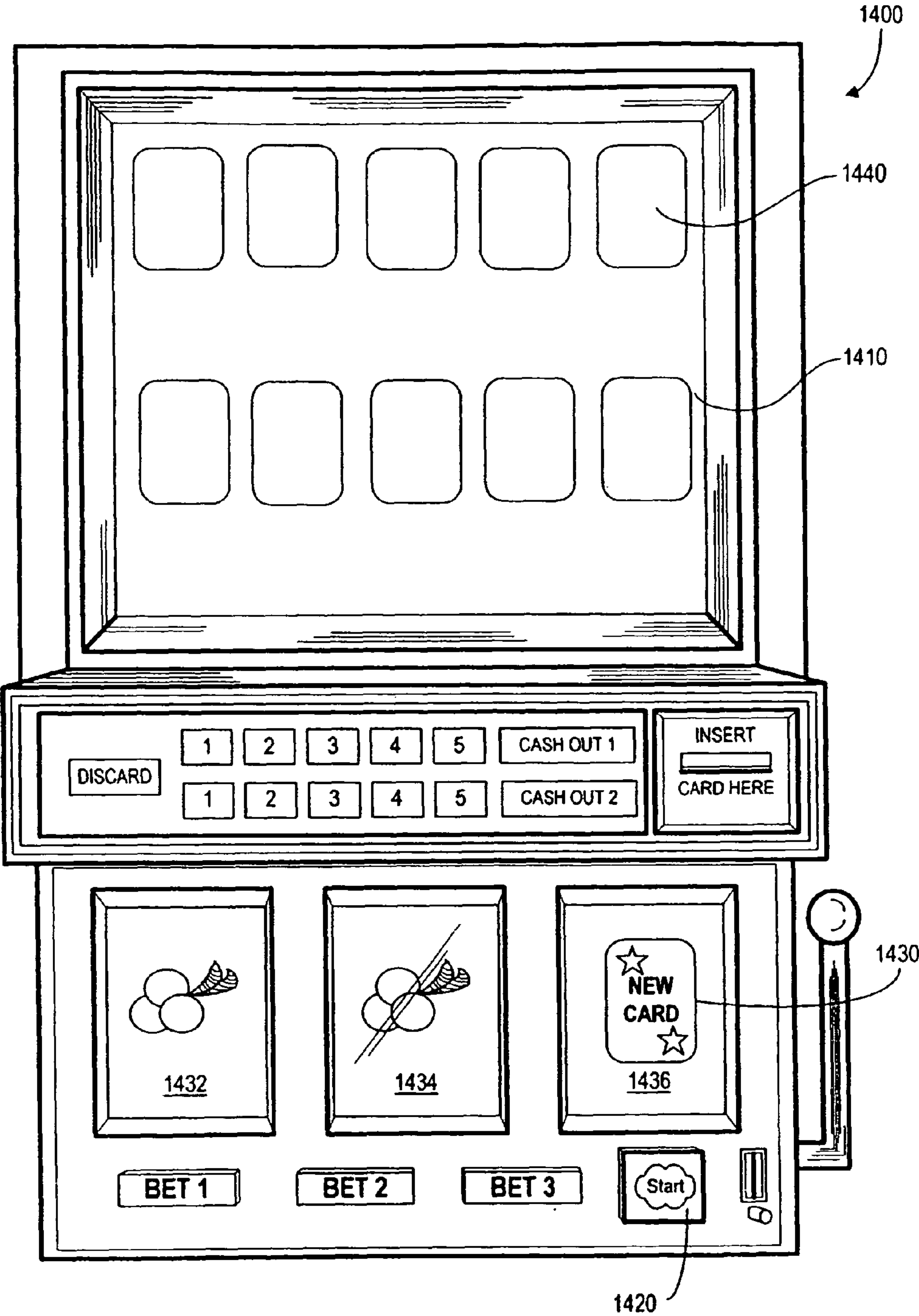


FIG. 14

ELECTRONIC AMUSEMENT DEVICE AND METHOD FOR OPERATING SAME

Matter enclosed in heavy brackets [] appears in the original patent but forms no part of this reissue specification; matter printed in italics indicates the additions made by reissue.

This application is a continuation of U.S. patent application Ser. No. 09/004,885, filed Jan. 9, 1998 now U.S. Pat. No. 6,176,781 for "ELECTRONIC AMUSEMENT DEVICE AND METHOD FOR OPERATING SAME."

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to an electronic amusement device and more particularly to an electronic amusement device such as a slot machine having the ability to display game symbols which change or expire during a game.

2. Description of the Related Art

Slot machines generate greater than ten billion dollars per year in revenue for US casinos, with individual machines typically earning between fifty and one hundred and fifty dollars per day. One of the fastest growing segments of slot machine play is video poker, a game in which various elements of draw poker are represented on a video display. Players draw and hold cards in an effort to attain a hand high enough to qualify for a prize or payment. Starting with "Jacks or Better," video poker quickly expanded into "Deuces Wild" and "Joker Poker" as well as countless variations of the above with different payout schedules. Players are attracted to the relatively high payouts possible for top hands such as a royal flush, as well as the frequent lower-end payouts for hands as low as a pair of jacks. Additionally, many players find that the interactive nature of the game, choosing which cards to draw, provides a more exciting game than the traditional reel-based slot machine, in which the player simply passively watches the outcome.

Although popular with players, video poker has a number of disadvantages from the casino's perspective. First, game speed can be significantly slower than conventional reel machines. Players sometimes agonize over a particular play, taking their time in deciding what the correct play is. With no incentive to accelerate play, players sometimes languish over their decisions. Casinos prefer a faster-paced game since profits rise in direct proportion to the number of hands completed per hour. Additionally, the house edge associated with video poker has consistently deteriorated as casinos have begun to compete more for players. Because full payout tables are provided on the face of the machine, players can easily distinguish between high payout machines and low payout machines. Competition for video poker players has resulted in some video poker machines which pay out in excess of 100% with perfect playing strategy. Although most players are not playing perfectly, the growing availability of books and computer software is resulting in more and more sophisticated players. The slow play and declining house advantage, when combined with the significant cost of player compliments, such as free meals and drinks, has resulted in shrinking casino profits for video poker. Consequently, there is a need to increase the house advantage without appearing to disadvantage the player.

Thus, it would be very desirable to provide a slot machine which offers to players the involvement and excitement of

video poker while offering the casino the speed of play and high house advantage currently associated with traditional reel slot machines. Such a machine could result in significantly enhanced revenues for casino operators and provide more enjoyable play for casino patrons.

SUMMARY OF THE INVENTION

An object of the present invention is to provide a gaming device utilizing game symbols that expire throughout a game.

In accordance with one aspect of the present invention, an electronic amusement device and method is disclosed for conducting a game of chance. The method includes the steps of generating a subject game element having a first class, and displaying the subject game element, thereby displaying an indicia of the first class. The method also includes the step of assigning a second class to the subject game element. The method further includes the step of displaying the subject game element, thereby displaying an indicia of the second class. The disclosed electronic amusement device implements the steps of the described method.

In accordance with a second aspect of the present invention, an electronic amusement device and method is disclosed for conducting a game of chance. The method includes the steps of receiving a game element request signal and generating a game element having a first class. The method also includes the step of displaying the game element, thereby displaying an indicia of the first class. The method further includes the steps of receiving a placement signal and displaying the game element at a location in accordance with the received placement signal. A second class is assigned to the game element, and the game element is redisplayed, thereby displaying an indicia of the second class.

DESCRIPTION OF THE DRAWINGS

These and other objects, features and advantages of the invention will be understood from a consideration of the following description of the invention, in which:

FIG. 1 is a block diagram of a gaming device constructed in accordance with the present invention;

FIG. 2 is a table showing components of the payout database of FIG. 1;

FIG. 3 is a table showing components of the card database of FIG. 1;

FIG. 4 is a plan view of the gaming device of FIG. 1;

FIGS. 5A-5H together comprise sample screens from the video display of FIG. 4;

FIG. 6 is an illustration of the game element of FIG. 4;

FIG. 7 is a flowchart illustrating a method of operating a gaming device in accordance with the present embodiment;

FIG. 8 is a flowchart illustrating the deck initialization process of the present invention;

FIG. 9 is a flowchart illustrating the card dealing process of the present invention;

FIG. 10 is a flowchart illustrating the card placement process of the present invention;

FIGS. 11A-11B together comprise a flowchart illustrating the card monitoring and update process of the present invention;

FIG. 12 is a flowchart illustrating the shuffling process of the present invention;

FIG. 13 is a flowchart illustrating the payout calculation process of the present invention; and

FIG. 14 is a plan view of an alternate embodiment of the gaming device of FIG. 1.

DETAILED DESCRIPTION OF THE INVENTION

Description of the System

In accordance with the present invention there is provided herein a gaming method and apparatus, illustrated by way of a video poker gaming device.

Referring now to FIG. 1, there is shown a block diagram of a gaming device 100 including a central processing unit (CPU) 102 and a data storage device 104 connected to the CPU. Further connected to CPU 102 are: a player card tracking device 114, a random number generator 112, a video display area 500, a hopper controller 122, a clock 106, a starting controller 150, and a coin/bill acceptor 124.

Gaming device 100 comprises conventional components, with the exception of card database 300. For purposes of better illustrating the invention, standard components, well known to those skilled in the art, are described only briefly. Although the present embodiment of the invention is described as implemented with physical components, the invention applies equally well to and includes software embodiments such as would be implemented on the Internet and other computer data networks.

Referring again to CPU 102, the device 100 comprises one of many well known processing units, for example a Pentium class CPU manufactured by Intel Corp. Data storage device 104 comprises an appropriate combination of magnetic and optical memory, such as disk drive memory, and semiconductor memory such as random access memory (RAM) and read only memory (ROM). In addition to payout database 200 and card database 300, data storage device 104 stores appropriate operating system and control software (not shown), functional to operate gaming device 100 in the manner described below. Random number generator 112 comprises one of many well known random or pseudo-random number generators suitable for use in a gaming device.

Coin/Bill acceptor 124 is operative to receive one or more coins or bills, and to transmit an appropriate value signal to CPU 102. Hopper controller 122, and hopper 130 connected thereto, are operative under the control of CPU 102 to dispense and output coins to a player. Video display 500 preferably comprises a touch sensitive screen capable of processing player selections through tactile interaction. Alternatively, video display 500 may comprise any conventional video display apparatus, for example, a cathode ray tube or a liquid crystal display screen.

Starting controller 150 comprises a player-operated device such as a handle or button for initiating the play of a game.

Player card tracking device 114 comprises a player tracking interface including a card reader 138 for receiving a player tracking card, a display 142 for communicating alpha/numeric messages to the player, and a keypad 140 for receiving player input such as a player identifier.

Gaming device 100 may include a conventional network interface (not shown) for communicating with a centrally controlled network server, allowing for the remote monitoring and audit of gaming device 100.

Payout database 200 comprises a conventional payout database such as those found in most video poker machines. The database serves to associate a particular outcome or hand value, such as a full house, with a particular coin payout based on the number of coins wagered. Payout database 200 is shown to include ten records 232 through 250, each of which includes two fields: an outcome field 210 and a payout field 220. The final poker hands represented in outcome 210 illustrate conventional poker rankings typical of a video draw poker game. Record 238, for example, indicates an outcome

of "FULL HOUSE" which includes all hands with both three of a kind and two of a kind. Other hand rankings, such as those incorporating jokers, wild cards, or specific card bonuses are, of course, also within the scope of the present invention.

The profitability of the game for the casino is directly related to the values stored in payout field 220, although player skill levels will also have an impact. Payouts 220 might be set so that the casino retains some advantage, even in the face of expert play. Record 238, for example, indicates a payout of five dollars associated with an outcome of "FULL HOUSE." Although the payouts of payout field 220 represent the wager of a single coin for each card purchased, additional fields could be added to allow multiple coin wagers as illustrated in FIG. 4 below. The values shown in payout field 220 are merely illustrative and are not intended to limit the scope of the invention.

Referring now to FIG. 3, there is described card database 300 shown to include five records 340, 342, 344, 346, and 348, each of which includes seven fields: card identifier 310, rank 312, suit 314, status 316, location 318, time dealt 320, and duration 322. This database serves to monitor and update a deck of fifty-two cards, each card having a unique rank/suit combination, or class, as implemented in the present invention. Card identifier 310 uniquely identifies each card, and may be a number from one to fifty-two for each card of a standard deck of cards. Such a numeric identifier simplifies the card manipulation operations as described in more detail with reference to the figures below. Rank 312 identifies the rank of the card and contains the standard deck values of ace, deuce, three, four, five, six, seven, eight, nine, ten, jack, queen, and king. Rank 312 could of course also store non-standard ranks such as wild card, joker, or other bonus type card values. Instead of storing the rank description, rank 312 could simply store numeric identifiers which were associated with descriptions stored in ROM. The suit of each card is stored in suit 314 and may include conventional suits such as hearts, clubs, spades, and diamonds. Record 344, for example, indicates a card with a rank of "J" (a Jack) and a suit of clubs. Wild cards could include a fixed rank with any suit, or a fixed suit with any rank. A suit-wild Jack, for example, might represent either the jack of clubs, jack of diamonds, jack of hearts, or jack of spades.

Although the present embodiment identifies the use of a standard fifty-two card deck with one card of each rank and suit, it should be noted that some card values may be over or underrepresented. Thus, for example, there may be fewer royal cards (ten, jack, queen, king, and ace) and a correspondingly larger number of low value cards. Such an arrangement has the advantage of decreasing the probability that a player attains a royal flush, allowing the machine to offer a higher payout for such a final hand configuration.

The status of each card is stored in status 316, with values indicating where the particular card is within the game cycle as described more fully with reference to FIGS. 7 to 13 below. Cards are initially assigned a status of "IN DECK" to indicate that they are ready to enter game play. Once a card has been dealt it is described as "DEALT" and is displayed to the player in video display 500. Discarded cards have their status changed to "DISCARDED" while cards placed into play maintain their "DEALT" status. After a predetermined amount of time, "DEALT" cards change to "FIRST ALTERATION WARNING," a status which indicates that the card will soon change into another card value, with a corresponding change in status to "FIRST ALTERATION." Associated with such a status change is a change in rank or suit as described more fully with reference to FIG. 11 below. A "FINAL ALTERATION WARNING" and "FINAL ALTER-

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ATION” status correspond to a second alteration of the card’s rank and/or suit. Finally, the card may have a status of “EXPIRATION WARNING” to indicate that the card is about to expire and return to the discarded cards queue.

Each card has a corresponding location **318** in order to facilitate tracking of cards throughout the operation of the present invention, identifying either where the card is in the queue prior to being dealt, where the card is in the discard pile, or where the card has been placed by the player. Record **340**, for example, indicates that the card is currently scheduled to be the fifth card dealt.

In order to manage the timing requirements of the present invention, card database **300** includes the fields time dealt **320** and duration **322**. As each card is dealt to the player, CPU **102** retrieves the current time from clock **106** and updates the time dealt field to indicate the current time. This allows CPU **102** to calculate how long the card has been exposed to the player so that future alterations may be made. Duration **322** indicates the amount of time that is to elapse before the next card alteration. Record **348**, for example, shows a time dealt of 09:03:22 (hours/minutes/seconds) with a 120 second window before the card changes.

Referring now to FIG. **4**, a plan view is shown of gaming device **100** of the present invention which, for purposes of discussion, is generally divided into three sections: an upper panel **201**, a display panel **202**, an interface panel **204**, and a lower panel **206**. Upper panel **201** includes a pay table comprising, for example, pay amounts corresponding to various draw poker hands. These values correspond to those shown in the payout database **200** of FIG. **2**, and may be printed on glass with a back lighting scheme for maximum player visibility. Display panel **202** contains display area **500** which displays the card values to the player and acts as the player interface through the above described touch screen functionality. The elements of display area **500** will be described more fully with reference to FIG. **5A** below. Interface panel **204** houses starting controller **150**, player tracking device **114** (including card reader **138**, keypad **140**, and display **142** shown set to read “INSERT CARD”) and coin/bill acceptor **124**. Lower panel **206** includes promotional messages which may serve to attract players to the game, or to provide rules/instructions concerning operation of the game.

In order to more fully describe the display area **500** of the present invention, reference is made to FIGS. **5A–H** which illustrate an exemplary game play of the present invention.

FIG. **5A** shows an enlarged view of the display area **500** of FIG. **4**. This area is electronically displayed to the player and changes during the course of the game as described in more detail below. Game element signal request generator **510** labeled “DEAL A CARD” (“deal button”) is used by the player to request another card, and is associated with the payment of one or more credits. Players touch the screen at this location, providing a signal to CPU **102** that another card has been requested. Location **520** is the area of display **500** (“screen”) that displays cards which have been requested via deal button **510**. The requested game element **525** (“card”) in this embodiment is an electronic representation of a conventional playing card, and has a corresponding attribute **530** which identifies the rank and suit of the card. In the example shown in FIG. **5A**, the attribute **530** value is a rank of ace and a suit of hearts.

Players may choose to discard a dealt card by touching the discard button **535** labeled “DISCARD A CARD,” transmitting a signal to CPU **102** to initiate further processing of the card as described more fully in FIG. **10** below. Cards that are not discarded are placed within either game set **540** or game set **550**. Game set **540** incorporates five card locations **560**

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through **568**, each capable of displaying a particular game element **525**. Game set **550** contains five card locations **570** through **578**, with similar display capabilities. Players request to “cash-out” a particular game set **540** or **550** by pressing an evaluation signal generator **580** or **590** (“cash-out button”), respectively. Such a cash-out process is performed after the player has accumulated one or more cards **525** within a particular game set **540** or **550**, with the cards **525** qualifying for a payout as indicated by payout field **220** of payout database **200**.

In the example illustrated in FIG. **5A**, the player is dealt an ace of hearts as card **525**, and must decide what to do with the card. FIG. **5B** illustrates the changes to display **500** which reflect the decision to place card **525** in location **560** of game set **540**. The electronic representation of the ace of hearts is deleted from location **520** and then appears at location **560**, responsive to the player indicating the location by touching the screen at location **560** thereby initiating a placement signal. At this point, the player is ready to request another card be dealt by touching deal button **510**. In an alternative embodiment, some cards **525** may be restricted to certain game sets **540** or **550**. For example, royal cards might be restricted to game set **540**. Cards **525** could also be restricted to an individual location, with the ace of spades restricted to location **560**, for example.

FIG. **5C** shows a later stage of the game in which the player has placed cards **525** in game set **540**, specifically locations **560** (ace of hearts), **562** (jack of spades), **564** (king of spades), and **566** (queen of diamonds). Location **568** shows no card **525** and is thus available to the player for future card placement. With four cards to the straight, the player may request cards **525** to be dealt in an effort to complete the straight with a ten of some suit. Such a hand, if cashed-out via cash-out button **580**, would receive a payout of two coins as shown for record **242** of payout database **200**. Game set **550** has been populated with only two cards **525**—location **570** (five of hearts) and **572** (five of clubs). The remaining three locations are available for additional cards. In this case, the player might be hoping for two more fives to complete a four of a kind, or for one more five to complete a three of a kind.

FIG. **5D** illustrates the time element of one embodiment of the present invention in that one of the cards **525** is indicating that it is about to change. Location **560** is highlighted as a warning to the player that the card is about to change to another rank or suit. The highlighting effect might take the form of a border that flashes, a color change, or a resizing of the card. Any mechanism sufficient to attract the attention of the player is sufficient. In one embodiment, location **560** remains the same visually but is accompanied by an audible warning. FIG. **5E** shows display **500** after the card **525** in location **560** has changed rank. In this example, the ace of hearts has been replaced with the nine of hearts. Various protocols may be used in determining the value of the replacement card. The changed value could be determined in advance, assigned randomly, increased in sequence (e.g. cards always increase in rank and change from clubs to hearts to diamonds to spades and back again), decreased in sequence, etc. Some cards could increase while others decreased. Instead of changing value, the card could simply change location, moving from one game set to another.

After requesting another card by touching deal button **510**, the player receives a ten of clubs as shown in FIG. **5F**. Although this card could be discarded or placed within game set **550**, the player has noticed that the four existing cards **525** of game set **540** are missing only a ten in order to complete a straight, so the player selects this location by touching location **568** of game set **540**. The ten of clubs is then deleted from

location **520** and placed into location **568**, with the result shown in FIG. **5G**. Having achieved a straight in game set **540**, the player decides to receive payment by touching the cash-out button **580**, which transmits a signal to CPU **102** to initiate the payment process as described in more detail with reference to FIG. **13** below. Note that the player is encouraged to act quickly as the remaining cards **525** in locations **562** through **568** may change to other ranks or suits, either eliminating the straight or reducing the hand to a lower payout outcome such as a pair of kings. In rare cases, correct strategy might in fact be to wait for cards to change. A player with a game set including the ace, king, queen, and jack of spades along with a ten of clubs would have a straight and could cash-out for the value of a straight. If the ten of clubs were the next card to change, however, the player might wait in the hopes that the card changed suit to spades—completing the royal flush.

After receiving appropriate credit, all of the locations in game set **540** are cleared so that new cards **525** can be placed into them, as illustrated in FIG. **5H**. The player has requested another card **525** and has received the three of hearts as shown in location **520**. Once again, the player faces the choice of discarding this card or placing it into one of the two game sets.

Referring now to FIG. **6**, there are shown several alternate embodiments of a card **525** in location **520**, with a rank **610** of ace and a suit **615** of hearts. In one embodiment, the card has a lock button **620** and an unlock button **630**. Lock button **620** is engaged by a touch from the player and serves to prevent the card from changing values. Such a lock might apply to either the rank **610** or the suit **615**, or to a combination of both. A limit of one locked card per game set could be imposed, or the player could be charged one or more credits for the privilege of locking the card. In another embodiment, the locking process only serves to extend the duration of the card, or merely prevents the card from disappearing entirely. In embodiments where the number of locked cards is limited, unlock button **630** would allow players to switch the selection of which card is to be locked. In an alternative embodiment, the player is able to lock a series of one or more cards at the same time, such as by specifying a column of cards (e.g. the third location of each game set).

Card display **640** enables players to view the rank and suit that the card is scheduled to change into. In the example illustrated, the ace of hearts will turn into the king of clubs, the queen of hearts, the three of clubs, and finally into the four of spades. Such advance warning would allow players to more appropriately place their cards, although it would require relatively skillful play to coordinate the timing of the changes. In order to improve the player's timing efforts, a countdown display **650** could be located on each card **525** to show the number of seconds before the next scheduled card change.

Although the embodiment described above receives player input via touch screen capability, those of ordinary skill will appreciate that such player requests may be made via physical buttons as well. In particular, each location **560** through **568** and **570** through **578** could be identified with the numerals 1 through 5 and 6 through 10, corresponding to ten like numbered buttons of gaming device **100**. A player who wanted to place a card **525** in location **576** would thus depress the physical button labeled nine. Such buttons could also be associated with a particular row, such as by labeling the button "FIRST ROW SECOND POSITION," for example. Similar physical representations could be made for deal button **510**, discard button **535**, cash-out button **580**, and cash-out button **590**.

Description of the Operation

Having thus described the architecture of the gaming apparatus and components of the present embodiment, the opera-

tion of the apparatus will now be described in greater detail with reference to FIGS. **7–13** and continuing reference to FIGS. **1–6**. It is to be understood that the software instructions necessary to provide the functionality described herein are preferably stored in storage device **104** of gaming device **100**.

Referring now to FIG. **7**, a flowchart is depicted illustrating the major routines or processes executed by gaming device **100** during a typical game. At the beginning of a game, CPU **102** processes a deck initialization routine **800**. Deck initialization routine **800** randomly arranges the cards of a standard deck of fifty-two playing cards. This process simulates the shuffling of a standard deck of fifty-two playing cards.

CPU **102** processes routines **900**, **1000**, **1100**, **1200** and **1300** in an iterative fashion throughout the game. Deal card routine **900** deals a new card to the player upon request. Place card routine **1000** allows a player to place a dealt card in a location within display area **500**. Place card routine **1000** also processes a player request to discard a card. Monitor/update card status routine **1100** instructs CPU **102** to maintain the cards that have been placed by or dealt to the player. The instructions of monitor/update card status routine **1100** determine when and how to alter the cards on the playing field.

Shuffle discards routine **1200** instructs CPU **102** when and how to shuffle the cards that have been discarded either explicitly by the player or automatically through the alteration of placed cards. Calculate payout routine **1300** instructs CPU **102** how to evaluate a hand upon the player's request. Calculate payout routine **1300** includes instructions for evaluating an identified hand, determining a corresponding payout amount and delivering the payout amount to the player.

Referring now to FIG. **8**, a flowchart is presented depicting the process steps of deck initialization routine **800**. Deck initialization routine **800** initializes the records of card database **300** to simulate the shuffling of a standard deck of fifty-two playing cards. At step **810**, CPU **102** is instructed to assign a unique card rank and suit combination to each record. This is accomplished by initializing card rank field **312** and suit field **314** of every record so that every record is defined to represent a different card in a standard fifty-two card deck. At step **812**, CPU **102** is instructed to populate status field **316** of every record with data indicating that every card is "IN DECK." At step **814**, CPU **102** is instructed to populate card identifier field **310** of each record with a randomly generated, unique card identifier. Preferably, card identifiers are numbers between 1 and 52. At step **816**, deck initialization process **800** instructs CPU **102** to populate each location field **318** with the contents of the corresponding card identifier field **310**. This indicates each card's relative location within the shuffled deck of cards.

Referring now to FIG. **9**, a flowchart is presented depicting the process steps of deal card routine **900**. Generally, deal card routine **900** determines when to deal a card to the player, selects a record from card database **300** representing the card to be dealt, and displays the card to the player. At step **910**, CPU **102** is instructed to check for a card request signal from the player. The card request signal is generated by a player touching deal button **510** on video display **500**, and may be checked by polling for an input or receiving a hardware interrupt. At decision step **912**, CPU **102** is instructed to end the routine if a card request signal is not received. In the event a card request signal is received, CPU **102** processes step **914** and identifies the record representing the next card to be dealt. Step **914** may be accomplished by maintaining a pointer to the next card to be dealt. Alternatively, step **914** may be accomplished by searching location field **318** of card database **300** for the record having the lowest value and a status of "IN DECK." At steps **916** and **918**, CPU **102** is instructed to

update the identified card record to indicate that it has been dealt. This is accomplished by updating the contents of status field 316 to "DEALT," and populating time dealt field 320 and duration field 322 with data representing the current system time and a display duration, respectively. The display duration may be a fixed value, such as 120 seconds, or it may be randomly assigned within a range of values, depending on the implementation. At step 920, the card is displayed on the video display by CPU 102.

Referring now to FIG. 10, a flowchart is presented depicting the process steps of card placement routine 1000. Generally, card placement routine 1000 processes a user request to place or discard a dealt card. At step 1010, CPU 102 is instructed to determine whether a card discard signal has been received indicating that the player has requested the dealt card to be discarded. If a card discard signal is received, decision step 1012 directs CPU 102 to process steps 1014 and 1016. At step 1014, CPU 102 updates status field 316 of the record representing the most recently dealt card. The status field is changed to reflect a status of "DISCARDED." At step 1016, CPU 102 removes the card from video display 500.

If a card discard signal is not received, CPU 102 determines whether a card placement signal has been received at step 1018. If a card placement signal has not been received, decision block 1020 directs CPU 102 to end card placement process 1000. Otherwise, CPU 102 processes step 1022, 1024 and 1026 to complete a card placement. At step 1022, CPU 102 receives the location selection of the player identifying the location to which the dealt card is to be placed. At step 1024, the contents of location field 318 of the record representing the dealt card is updated to reflect the placement of the card. Card placement routine concludes with step 1026 which instructs CPU 102 to display the card at the selected location. Although step 1026 may simply entail erasing the card from the dealt location and redisplaying it at the selected location, step 1026 may be performed using animation.

The card status monitor/update routine 1100 will now be described with reference to FIGS. 11A and 11B. Routine 1100 is performed for every record representing a displayed card and begins with step 1110, wherein CPU 102 is instructed to determine whether to display a warning indicia. Typically, a warning indicia will be displayed for a short time prior to the time that a card changes or expires. The determination of step 1112 can be accomplished by comparing the system time to the contents of time dealt field 320 plus the contents of duration field 322 less some predetermined constant representing a warning duration. If a warning is required, decision step 1112 directs CPU 102 to process steps 1114 and 1116. Step 1114 directs CPU 102 to update status field 316 of the record corresponding to the card that is about to change or expire. Depending on the contents of status field 316, step 1114 causes the status to change from "DEALT" to "FIRST ALTERATION WARNING," from "FIRST ALTERATION" to "FINAL ALTERATION WARNING," or from "FINAL ALTERATION" to "EXPIRATION WARNING." The appropriate warning indicia, such as a flashing border or highlighted card, is displayed on video display 500 at step 1116.

If no warning is required, step 1112 directs CPU 102 to determine whether the display duration of the card has elapsed, as shown by step 1118. If the display duration has not elapsed, decision block 1120 terminates routine 1100. Otherwise, it determines whether the card is expiring or changing its value at step 1122. If the card is not changing its value, decision step 1124 instructs CPU 102 to continue processing at step 1130. If the card is expiring, CPU 102 processes step 1126 and updates status field 316 of the record with data

indicating that the card is "DISCARDED." At step 1128, CPU 102 removes the card from the field of play on video display 500.

Process steps 1130–1138 describe the steps required to change the attributes of a card. At step 1130, CPU 102 identifies a replacement record in card database 300. The replacement record may be selected in any number of manners including randomly selecting the replacement record from all records representing the cards in the deck or selecting the record representing the next available card from the deck. At step 1132, CPU 102 updates status field 316, location field 318, time dealt field 320 and duration field 322 of the replacement card record. Step 1132 initializes the replacement record to take the place of the displayed record. Status field 316 of the replacement record is changed to "DEALT." Location field 318 of the replacement record is set equal to location field 318 of the displayed record. Time dealt field 320 is populated with the system time. Duration field 322 may be populated with a fixed time or a randomly generated time from within a range of possible durations.

At step 1134, CPU 102 updates status field 316 of the record representing the displayed card to indicate that the card has been "DISCARDED." At step 1136, CPU 102 removes the displayed card from the field of play on video display 500. At step 1138, CPU 102 displays the card represented by the replacement record.

Referring now to FIG. 12, a flowchart is presented depicting the process steps of shuffle discard routine 1200. Generally, shuffle discard routine 1200 simulates the shuffling of the discarded cards. At step 1210, CPU 102 determines whether the discarded cards should be shuffled. Such a determination may be based on the number of records representing cards in the deck, or the number of records representing discarded cards. If the discarded cards should be shuffled, decision step 1212 directs CPU 102 to continue processing at step 1214. Otherwise, CPU 102 is directed to terminate the routine.

At step 1214, CPU 102 randomly reassigns all of the card identifiers to the records having a status of "DISCARDED." Step 1214 essentially shuffles the card identifiers of the records representing discarded cards. At step 1216, CPU 102 changes the contents of status field 316 to "IN DECK" for all records having status field 316 containing "DISCARDED." At step 1218, CPU 102 populates location field 318 of the shuffled records with the corresponding card identifier to indicate the position within the deck. Although the preferred embodiment envisions placing the shuffled cards at the end of the deck, other variations are possible. Note that for embodiments in which an infinite deck is used, there is no need to shuffle the discards as there is an inexhaustible supply of new cards to be dealt.

Referring now to FIG. 13, a flowchart is presented depicting the process steps of payout calculation routine 1300. At step 1310, CPU 102 determines whether a payout request signal has been received from the player. At decision step 1312, if no payout request signal has been received, the routine terminates. Otherwise, CPU 102 identifies the hand that the player has requested to cash out at step 1314. At step 1316, CPU 102 determines the outcome of the hand based on the records corresponding to the displayed cards of the identified hand. Determining the outcome of step 1316 is essentially determining the strength of the hand (e.g. three of a kind or a straight). For those hands in which fewer than five cards are required (e.g. three of a kind) the remaining cards may have an assigned class of a null game element so as to allow analysis of hands without five cards placed. At step 1318, CPU 102 retrieves a payout corresponding to the determined

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outcome, and awards the payout at step 1320. Awarding the payout may include activating hopper 130 to dispense the awarded payout or updating credit data (not shown) stored by data storage device 104. Payout levels may depend on the number of coins wagered per card dealt.

Referring now to FIG. 14, there is shown a plan view of gaming device 1400, a slot machine for conducting a game of chance in accordance with an alternate embodiment of the present invention. Gaming device 1400 not only includes conventional components of a traditional three reel slot machine, but also many of the components of gaming device 100 described with respect to the video poker embodiment illustrated by FIGS. 1–13.

As shown, gaming device 1400 includes a conventional three reel slot machine mechanism on the lower portion of the device. After placing a wager, a player begins a slot machine game by pulling the traditional slot handle or by pressing start button 1420. Beginning a game initiates the rotation of the three slot reels, reel 1432, reel 1434 and reel 1436. At least one slot reel includes a reel stop 1430 bearing a new card symbol representing a new card.

Unlike gaming device 100, a player may not simply purchase a new card to play the video poker game displayed on the upper portion of gaming device 1400. A new card is provided to a player only upon spinning the slot reels and achieving a result including new card symbol 1430. Upon achieving a result including new card symbol 1430, a game element request signal is generated based on the slot result and the player is provided a new card for the video poker game, the player proceeding with the video poker game as previously described with reference to FIGS. 1–13.

Gaming device 1400 allows a player to participate in two games simultaneously, thereby enhancing the gaming experience. Gaming device 1400 further encourages a player to initiate more plays per hour in order to achieve as many new card symbols 1430 as possible to complete or improve poker hand 1440 or 1410, displayed in the upper display area of the device.

While the best mode for carrying out the invention has been described in detail, those familiar with the art to which the invention relates will recognize various alternative designs and embodiments for practicing the invention. These alternative embodiments are within the scope of the present invention. Accordingly, the scope of the present invention embodies the scope of the claims appended hereto.

What is claimed is:

1. A method for directing a computing device to conduct a game of chance, the method comprising [the steps of]:

- (a) [generating] causing a processor to generate a representation of a card having a first [class] rank and a first suit;
- (b) [displaying] causing the processor to operate with a display device to display the representation of the card at a game set location, thereby displaying an indicia of the first [class] rank at the game set location and an indicia of the first suit at the game set location; [and]
- (c) causing the processor to determine a forthcoming expiration of at least one of (1) the indicia of the first suit at the game set location separately from the indicia of the first rank at the game set location, and (2) the indicia of the first rank at the game set location separately from the indicia of the first suit at the game set location;
- (d) [displaying] if the determination is the forthcoming expiration of the indicia of the first suit at the game set location, cause the processor to operate with the display

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device to display an indicia representing the forthcoming expiration of the indicia of the first suit at the game set location; and

[the first class corresponding to the representation of the card.]

- (e) if the determination is the forthcoming expiration of the indicia of the first rank at the game set location, cause the processor to operate with display device to display an indicia representing the forthcoming expiration of the indicia of the first rank at the game set location.

2. The method of claim 1, wherein [the step of displaying an] causing the processor to operate with the display device to display the indicia representing the forthcoming expiration of [the first class] the indicia of the first suit at the game set location or the indicia of the first rank at the game set location includes displaying a countdown display.

3. An apparatus[,] comprising:

a storage device; and

a processor in communication with the storage device, the storage device storing a program for controlling the processor; and the processor operative with the program to: [perform the method of claim 1]

- (i) generate a representation of a card having a first rank and a first suit;
- (ii) display the representation of the card at a game set location, thereby displaying an indicia of the first rank at the game set location and an indicia of the first suit at the game set location;
- (iii) determine a forthcoming expiration of at least one of (1) the indicia of the first suit at the game set location separately from the indicia of the first rank at the game set location, and (2) the indicia of the first rank at the game set location separately from the indicia of the first suit at the game set location;
- (iv) if the determination is the forthcoming expiration of the indicia of the first suit at the game set location, display an indicia representing the forthcoming expiration of the indicia of the first suit at the game set location; and
- (v) if the determination is the forthcoming expiration of the indicia of the first rank at the game set location, display an indicia representing the forthcoming expiration of the first rank at the game set location.

4. A non-transitory computer readable medium encoded with a program [for implementing a method], said program for directing a device to [perform the steps of: the method of claim 1]:

- (i) generate a representation of a card having a first rank and a first suit;
- (ii) display the representation of the card at a game set location, thereby displaying an indicia of the first class at the game set location and the indicia of the first rank at the game set location;
- (iii) determine a forthcoming expiration of at least one of (1) the indicia of the first suit at the game set location separately from the indicia of the first rank at the game set location, and (2) the indicia of the first rank at the game set location separately from the indicia of the first suit at the game set location;
- (iv) if the determination is the forthcoming expiration of the first suit at the game set location, display an indicia representing the forthcoming expiration of the indicia of the first suit at the game set location; and
- (v) if the determination is the forthcoming expiration of the indicia of the first rank at the game set location, display an indicia representing the forthcoming expiration of the first rank at the game set location.

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5. A method comprising:

- (a) [receiving] causing a processor to operate with an input device to receive a first request for a card;
- (b) [generating] causing the processor to generate a first representation of a card having a first rank and a first suit;
- (c) [displaying] causing the processor to operate with a display device to display the first representation at a location for new cards, thereby displaying an indicia of the first rank at the location for new cards and an indicia of the first suit at the location for new cards;
- (d) [receiving] causing the processor to operate with the input device to receive a placement signal, the placement signal indicating a card location of a game set that comprises a plurality of card locations;
- (e) [displaying] causing the processor to operate with the display device to display the first representation at the card location of the game set, thereby displaying the indicia of the first rank at the card location of the game set and the indicia of the first suit at the card location of the game set;
- (f) causing the processor to, in response to expiration of a period of time, [assigning] assign to the first representation at the card location of the game set at least one of (1) a second rank [and a second suit] separately from a second suit, and (2) a second suit separately from a second rank;
- (g) [displaying] if the assignment to the first representation is a second rank, causing the processor to operate with the display device to display the first representation at the card location of the game set, thereby displaying [at least one of] an indicia of the assigned second rank at the card location of the game set;
- (h) [receiving at least one of] if the assignment to the first representation is a second suit, causing the processor to operate with the display device to display the first representation at the card location of the game set, thereby displaying an indicia of the assigned second [suit] rank at the card location of the game set;
- (i) [receiving] causing the processor to operate with the input device to receive a second request for a card;
- (j) [generating] causing the processor to generate a second representation of a card having a third rank and a third suit; and
- (k) causing the processor to operate with the display device to, before the expiration of the period of time, [displaying] display the second representation of the card at the location for new cards, thereby displaying an indicia of the third rank at the card location for new cards and an indicia of the third suit at the card location for new cards.

6. A method comprising:

- (a) [generating] causing a processor to generate a first subject game element having a [first class] first rank and a first suit;
- (b) [displaying] causing the processor to operate with a display device to display the first subject game element at a [first location] new card location, thereby displaying an indicia of the first [class] rank and an indicia of the first suit;
- (c) causing the processor to, in response to expiration of a period of time, [assigning a second class to the first subject game element] assign to the first subject game element at least one of (1) a second rank separately from a second suit, and (2) a second suit separately from a second rank;
- (d) [displaying] if the assignment to the first subject game element is a second rank, causing the processor to oper-

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ate with the display device to display the first subject game element at [a second location] a game set location, thereby displaying an indicia of [the second class] the assigned second rank at the game set location;

- (e) if the assignment to the first subject game element is a second suit, causing the processor to operate with the display device to display the first subject game element at the game set location, thereby displaying an indicia of the assigned second suit at the game set location;
- (f) [generating] causing the processor to generate a second subject game element having a [third class] third rank and a third suit; and
- (g) causing the processor to operate with the display device to, before the expiration of the period of time, [displaying] display the second subject game element at the [first] new card location, thereby displaying an indicia of the third [class] rank at the new card location and an indicia of the third suit at the new card location.

7. The method of claim 6, further comprising: [receiving]

causing the processor to operate with the display device and an input device to, receive a placement signal[:]; in which [displaying] the display of the first subject game element at the [second] game set location comprises[:]; displaying the first subject game element at the [second] game set location based on the placement signal.

8. The method of claim 7, in which [displaying] causing the processor to operate with the display device to, display the first subject game element at the [second] game set location comprises[:]; displaying the first subject game element at the [second] game set location before the expiration of the period of time.

9. A method comprising:

- (a) [displaying] causing a processor to operate with a display device to display a first representation of a card at a [first location] new card location, the first representation including an indicia of a first [class] rank and an indicia of a first suit;
- (b) [determining] causing the processor to determine expiration of a period of time;
- (c) [receiving] causing the processor to operate with the input device to receive a placement signal from a player, the placement signal indicating a [second] game set location;
- (d) causing the processor to operate with the display device to, before the expiration of the period of time, [displaying] display the first representation at the [second] game set location;
- (e) causing the processor to operate with the display device to, before the expiration of the period of time, [displaying] display a second representation of a card at the [first location] new card location, the second representation including an indicia of a second [class] rank and an indicia of a second suit;
- (f) causing the processor to, in response to the expiration of the period of time, [assigning] assign to the first representation at least one of (1) a third [class to the first representation] rank separately from a third suit and (2) a third suit separately from a third rank; [and]
- (g) [displaying] if the assignment to the first representation is the third rank, causing the processor to operate with the display device to display the first representation at the game set location, the first representation at the game set location including [an indicia of] a display of an indicia of the assigned third [class] rank; and
- (h) if the assignment to the first representation is the third suit, causing the processor to operate with the display device to display the first representation at the game set

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location, the first representation at the game set location including a display of an indicia of the assigned third suit.

10. A method comprising:

- (a) [generating] causing a processor to generate a subject game element having [a first class] a first rank and a first suit;
- (b) [displaying] causing the processor to operate with a display device to display the subject game element at a [first location] new card location, thereby displaying an indicia of the first [class] rank and an indicia of the first suit;
- (c) [receiving] causing the processor to operate with an input device to receive from a player a placement signal that indicates a [second location] game set location;
- (d) [displaying] causing the processor to operate with the display device to display the subject game element at the [second location:] game set location,
- (e) causing the processor to determine a forthcoming expiration of at least one of (1) the indicia of the first suit at the game set location separately from the indicia of the first rank at the game set location, and (2) the indicia of the first rank at the game set location separately from the indicia of the first suit at the game set location;
- (f) [displaying] if the determination is the forthcoming expiration of the indicia of the first suit at the game set location, causing the processor to operate with the display device to display an indicia representing the forthcoming expiration of the indicia of the first suit at the game set location,
- (g) [subject game element] if the determination is the forthcoming expiration of the indicia of the first rank at the game set location, causing the processor to operate with the display device to display an indicia representing the forthcoming expiration of the indicia of the first rank at the game set location; and
- (h) [receiving] causing the processor to operate with the input device to receive a signal via a lock button, the signal effective to prevent the [subject game element from expiring] expiration of at least one of (1) the indicia of the first suit at the game set location or the indicia of the first rank at the game set location, and (2) the indicia of the first rank at the game set location or the indicia of the first suit at the game set location.

[11. A method comprising:

generating a subject game element having a first class;
displaying the subject game element at a first location, thereby displaying an indicia of the first class;
receiving from a player a placement signal that indicates a second location;
displaying the subject game element at the second location;
displaying an indicia representing forthcoming expiration of the first class; and
receiving a signal via a lock button, the signal effective to prevent the first class from expiring.]

[12. A method comprising:

generating a subject game element having a first class;
displaying the subject game element at a first location, thereby displaying an indicia of the first class;
receiving from a player a placement signal that indicates a second location;
displaying the subject game element at the second location;
displaying an indicia representing forthcoming change of the subject game element; and
receiving a signal via a lock button, the signal effective to prevent the subject game element from changing.]

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13. A method comprising:

- (a) [generating] causing a processor to generate a subject game element having [a first class] first rank and a first suit;
- (b) [displaying] causing the processor to operate with a display device to display the subject game element at a [first location] new card location, thereby displaying an indicia of the first [class] rank and an indicia of the first suit;
- (c) [receiving] causing the processor to operate with an input device to receive from a player a placement signal that indicates a [second location] game set location; and
- (d) [displaying] causing the processor to operate with the display device to display the subject game element at the [second location] game set location; [and]
- (e) [displaying an indicia representing forthcoming expiration of the first class] causing the processor to determine a forthcoming expiration of at least one of (1) the indicia of the first suit at the game set location separately from the indicia of the first rank at the game set location, and (2) the indicia of the first rank at the game set location separately from the indicia of the first suit at the game set location;
- (f) if the determination is the forthcoming expiration of the first suit at the game set location, causing the processor to operate with the display device to display an indicia representing the forthcoming expiration of the indicia of the first suit at the game set location; and
- (g) if the determination is the forthcoming expiration of the first rank at the game set location, causing the processor to operate with the display device to display an indicia representing the forthcoming expiration of the indicia of the first rank at the game set location.

[14. A method comprising:

generating a subject game element having a first class;
displaying the subject game element at a first location, thereby displaying an indicia of the first class;
receiving from a player a placement signal that indicates a second location;
displaying the subject game element at the second location; and
displaying an indicia representing forthcoming expiration of the subject game element.]

15. A method comprising:

- (a) [generating] causing a processor to generate a subject game element having a first [class] rank and a first suit;
- (b) [displaying] causing the processor to operate with the display device to display the subject game element at a [first location] new card location, thereby displaying an indicia of the first [class] rank and an indicia of the first suit;
- (c) causing the processor to, in response to expiration of a period of time, [assigning a second class] assign to the subject game element at least one of (1) a second rank separately from a second suit, and (2) a second suit separately from a second rank;
- (d) [receiving] causing the processor to operate with an input device to receive from a player a placement signal that indicates a [second] game set location; [and]
- (e) [displaying] if the assignment to the subject game element is the second rank, causing the processor to operate with the display device to display the subject game element at the [second] game set location, thereby displaying an indicia of the [second class] second rank at the game set location; and
- (f) if the assignment to the subject game element is the second suit, causing the processor to operate with the

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display device to display the subject game element at the game set location, thereby displaying an indicia of the second suit at the game set location.

16. A method comprising:

- (a) **[generating]** *causing a processor to generate a subject game element having [a first class] a first rank and a first suit;*
- (b) **[displaying]** *causing the processor to operate with the display device to display the subject game element at a [first location] new card location, thereby displaying an indicia of the [first class] first rank and an indicia of the first suit;*
- (c) **[receiving]** *causing the processor to operate with an input device to receive from a player a placement signal that indicates a [second location] game set location;*
- (d) **[displaying]** *causing the processor to operate with the display device to display the subject game element at the [second location] game set location, thereby displaying the indicia of the first [class] rank at the game set location and the indicia of the first suit at the game set location;*
- (e) *causing the processor to, in response to expiration of a period of time, [assigning a second class to the subject game element] assign to the subject game element at the game set location at least one of (1) a second rank separately from a second suit, and (2) a second suit separately from a second rank; and*
- (f) **[displaying]** *causing the processor to operate with the display device to display the subject game element at the [second location] game set location, thereby displaying at least one of an indicia of the [second class] assigned second rank at the game set location and an indicia of the assigned second suit at the game set location.*

[17. A method comprising:

generating a subject game element having a first class;
displaying the subject game element at a first location, thereby displaying an indicia of the first class;
receiving from a player a placement signal that indicates a second location;
displaying the subject game element at the second location;
displaying an indicia representing forthcoming expiration of the subject game element; and
in response to expiration of a period of time, erasing the subject game element.]

18. An apparatus comprising:

a storage device; and
a processor in communication with the storage device, the storage device storing a program for controlling the processor; and

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the processor operative with the program to:

- (i) *generate a subject game element having a first rank and a first suit;*
- (ii) *display the subject game element at a new card location, thereby displaying an indicia of the first rank and an indicia of the first suit;*
- (iii) *receive from a player a placement signal that indicates a game set location;*
- (iv) *display the subject game element at the game set location;*
- (v) *determine a forthcoming expiration of at least one of (1) the indicia of the first suit at the game set location separately from the indicia of the first rank at the game set location, and (2) the indicia of the first rank at the game set location separately from the indicia of the first suit at the game set location;*
- (vi) *if the determination is the forthcoming expiration of the indicia of the first suit at the game set location, display an indicia representing the forthcoming expiration of the indicia of the first suit at the game set location; and*
- (vii) *if the determination is the forthcoming expiration of the indicia of the first rank at the game set location, display an indicia of the forthcoming expiration of the indicia of the first rank at the game set location.*

19. A non-transitory computer readable medium encoded with a program, said program for directing a device to:

- (i) *generate a subject game element having a first rank and a first suit;*
- (ii) *display the subject game element at a location for new cards, thereby displaying an indicia of the first rank and an indicia of the first suit;*
- (iii) *receive from a player a placement signal that indicates a game set location;*
- (iv) *display the subject game element at the game set location;*
- (v) *determine a forthcoming expiration of at least one of (1) the indicia of the first suit at the game set location separately from the indicia of the first rank at the game set location, and (2) the indicia of the first rank at the game set location separately from the indicia of the first suit at the game set location;*
- (vi) *if the determination is the forthcoming expiration of the first suit at the game set location, display an indicia representing the forthcoming expiration of the indicia of the first suit at the game set location; and*
- (vii) *if the determination is the forthcoming expiration of the first rank at the game set location, display an indicia representing the forthcoming expiration of the indicia of the first rank at the game set location.*

* * * * *

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : RE43,114 E
APPLICATION NO. : 11/084872
DATED : January 17, 2012
INVENTOR(S) : Jay S. Walker et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE CLAIMS:

In Claim 1, column 11, lines 59 to 64, italicize all text between “(c)” and “(d)” to denote that it was added during reissue prosecution.

In Claim 3, column 12, line 22, replace “;” with --,--.

In Claim 4, column 12, line 52, before “*indicia*” replace “*the*” with --*an*--.

In Claim 5, column 13, line 37, replace “*rank*” with --*suit*--.

In Claim 8, column 14, line 27, after “*device to*” delete “;”.

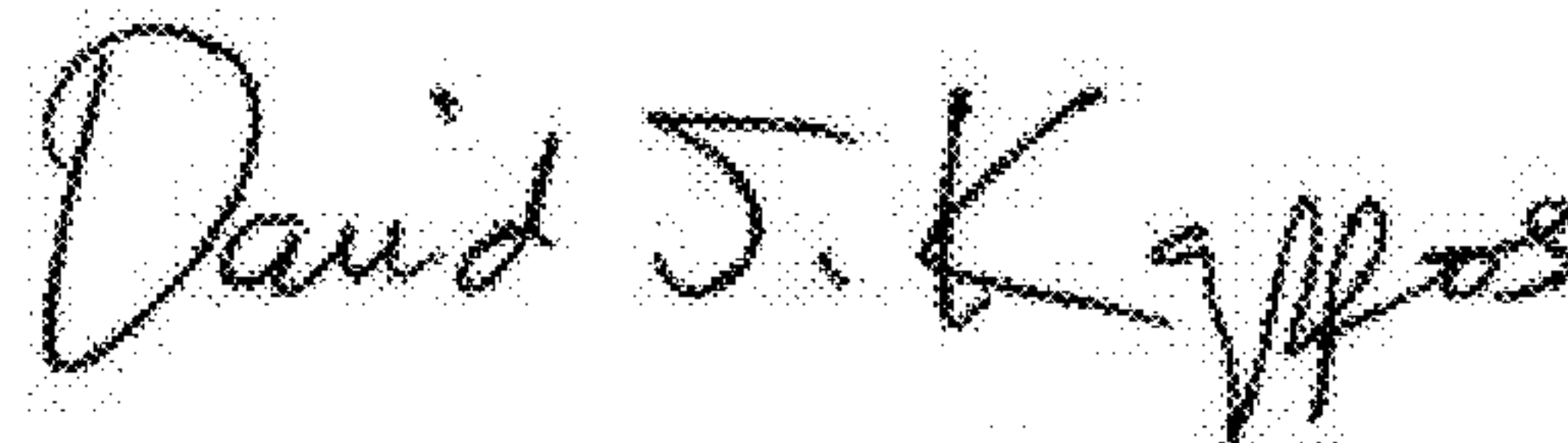
In Claim 9, column 14, line 38, after “*determine*” add --*an*--.

In Claim 10, column 15, line 19, replace “,” with --;--.

In Claim 10, column 15, line 31, replace “,” with --;--.

In Claim 13, column 16, line 12, delete “*and*”.

Signed and Sealed this
Tenth Day of July, 2012

A handwritten signature in black ink, reading "David J. Kappos". The signature is written in a cursive, flowing style with a large initial "D" and a stylized "K".

David J. Kappos
Director of the United States Patent and Trademark Office