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(54) **GAMING MACHINES WITH FREE PLAY BONUS MODE PRESENTING ONLY WINNING OUTCOMES**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

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(51) **Int. Cl.**
G07F 17/32 (2006.01)

(52) **U.S. Cl.**
CPC ***G07F 17/3267*** (2013.01); ***G07F 17/326*** (2013.01); ***G07F 17/3269*** (2013.01)

(58) **Field of Classification Search**
CPC G07F 17/32; G07F 17/326; G07F 17/3267; G07F 17/3269; G07F 17/34
See application file for complete search history.

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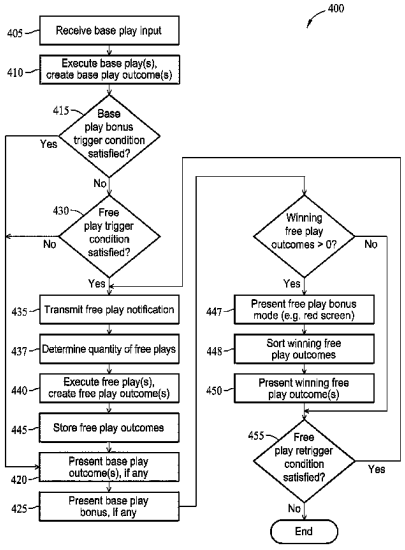
(74) *Attorney, Agent, or Firm* — Armstrong Teasdale LLP

(57) **ABSTRACT**

A gaming machine includes a processor and a presentation device coupled to the processor. The processor is programmed to determine that a free play trigger condition is satisfied, and to execute one or more free plays based on the free play trigger condition to create one or more free play outcomes. Each free play outcome is a winning free play outcome or a non-winning free play outcome. The presentation device is configured to present winning free play outcomes when at least one free play outcome is a winning free play outcome. Non-winning free play outcomes are not presented.

20 Claims, 4 Drawing Sheets



Related U.S. Application Data

continuation of application No. 17/892,674, filed on Aug. 22, 2022, now Pat. No. 11,769,374, which is a continuation of application No. 17/347,279, filed on Jun. 14, 2021, now Pat. No. 11,423,744, which is a continuation of application No. 16/841,337, filed on Apr. 6, 2020, now Pat. No. 11,043,075, which is a continuation of application No. 13/090,859, filed on Apr. 20, 2011, now Pat. No. 10,614,666.

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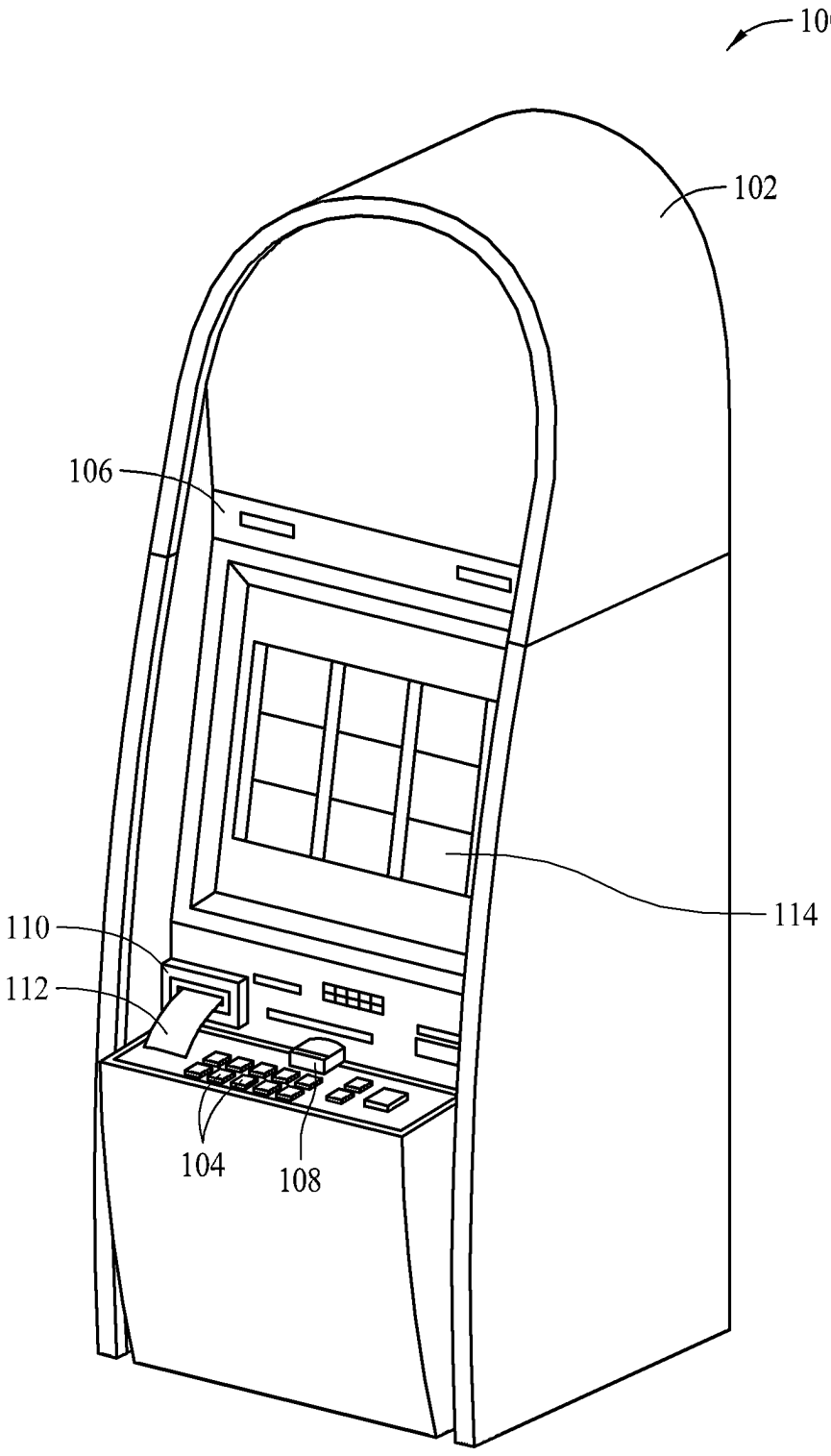
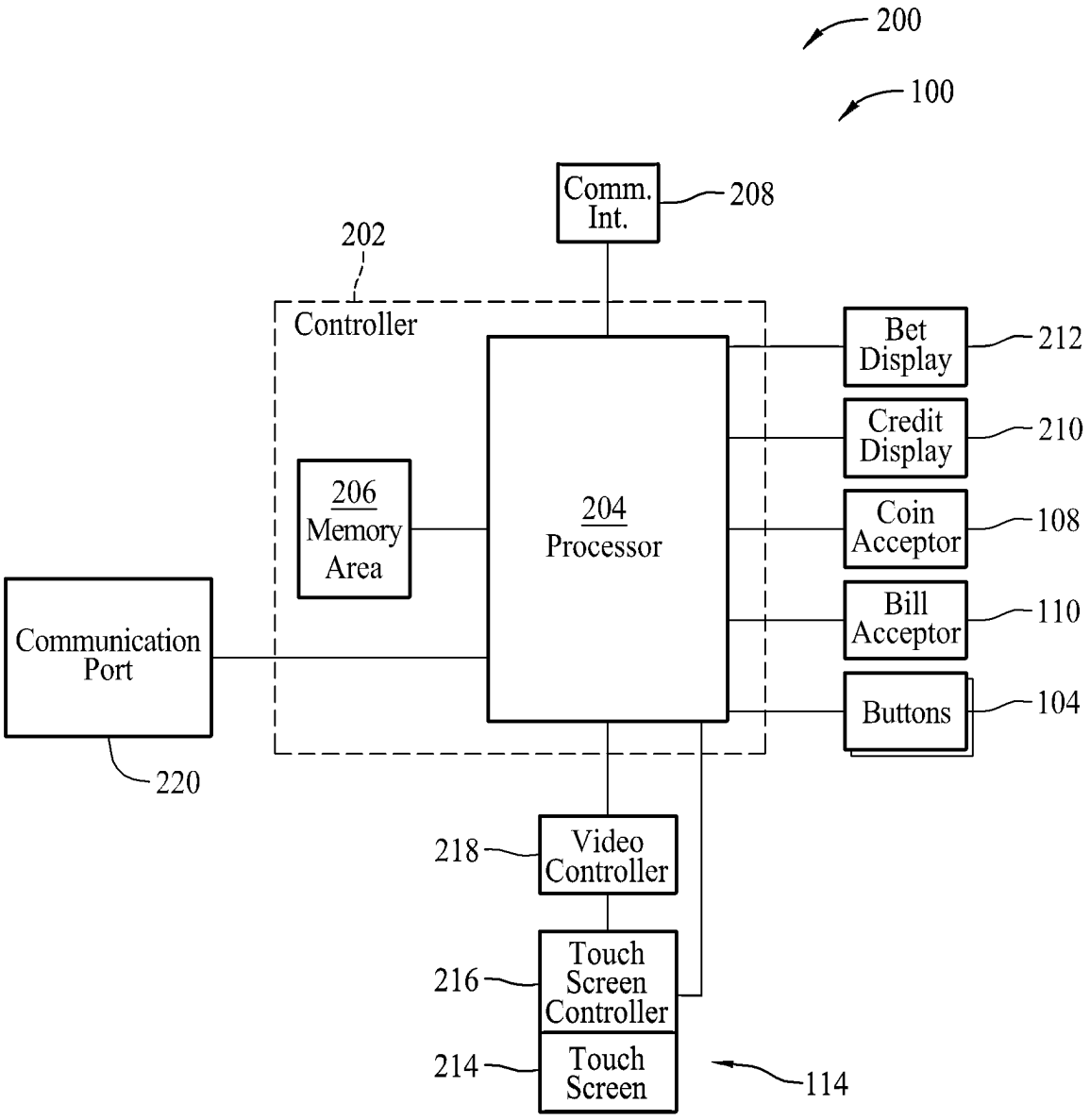


FIG. 1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Comm. Int.
208
202
Controller
Bet Display
212
Credit Display
210
206 Memory Area
204 Processor
Coin Acceptor
108
Bill Acceptor
110
Communication Port
Buttons
104
220
218
Video Controller
216
Touch Screen Controller
214
Touch Screen
114

FIG. 2

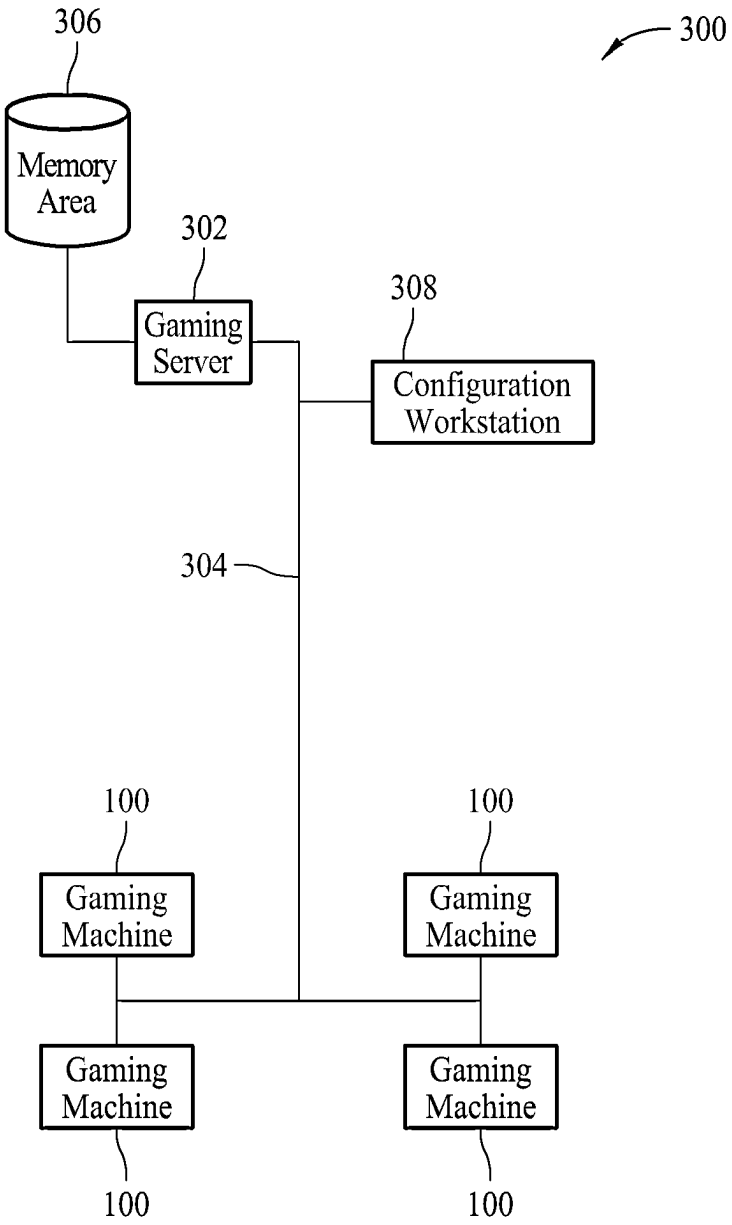
306
300
Memory Area
302
308
Gaming Server
Configuration Workstation
304
100
100
Gaming Machine
Gaming Machine
Gaming Machine
Gaming Machine
100
100

FIG. 3

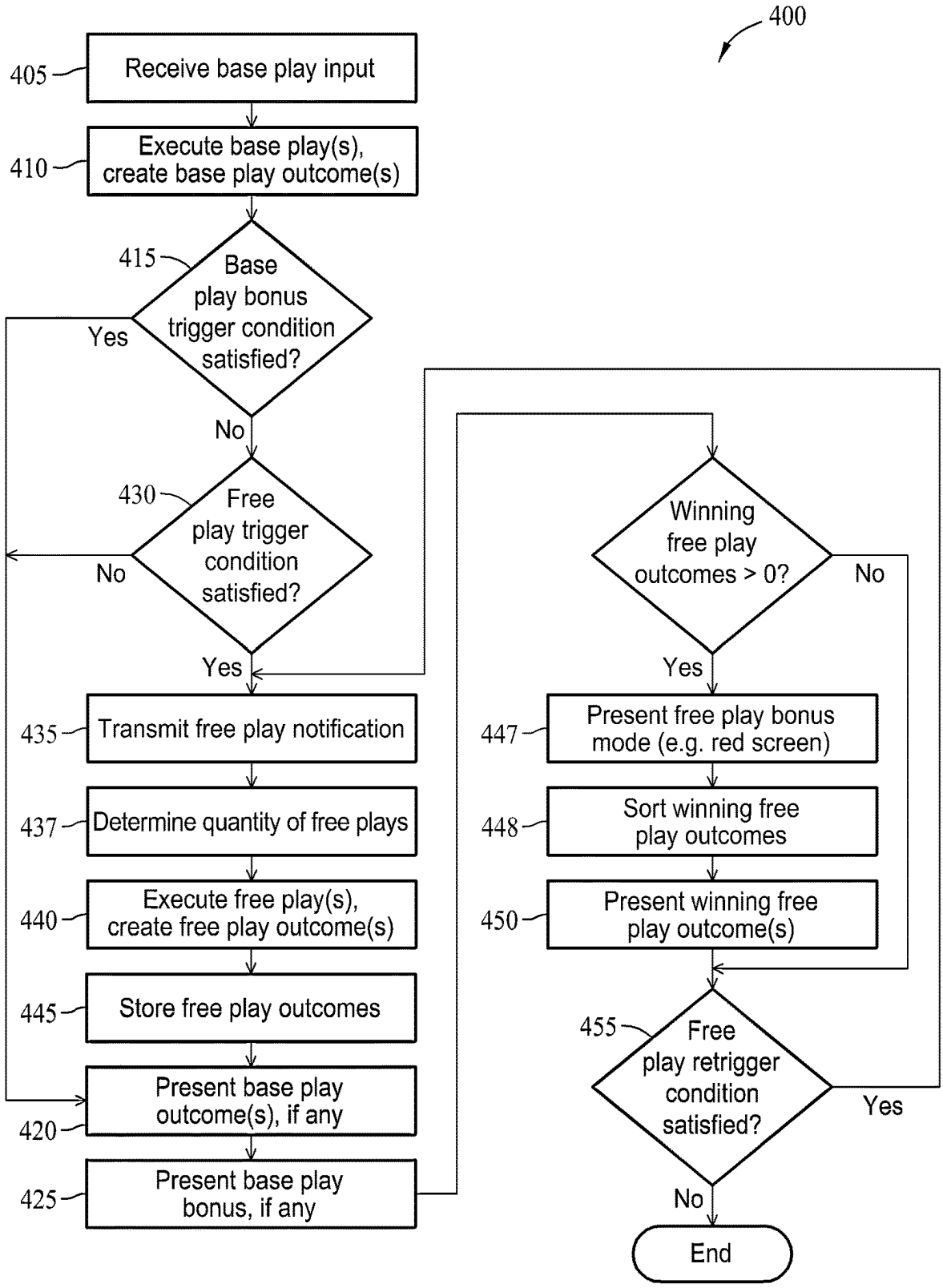
400
405
Receive base play input
410
Execute base play(s), create base play outcome(s)
415
Base play bonus trigger condition satisfied?
Yes
No
430
Free play trigger condition satisfied?
No
Yes
435
Transmit free play notification
437
Determine quantity of free plays
440
Execute free play(s), create free play outcome(s)
445
Store free play outcomes
420
Present base play outcome(s), if any
425
Present base play bonus, if any
Winning free play outcomes > 0?
No
Yes
447
Present free play bonus mode (e.g. red screen)
448
Sort winning free play outcomes
450
Present winning free play outcome(s)
455
Free play retrigger condition satisfied?
Yes
No
End

FIG. 4

GAMING MACHINES WITH FREE PLAY BONUS MODE PRESENTING ONLY WINNING OUTCOMES

CROSS REFERENCE TO RELATED APPLICATIONS

This application is a continuation of and claims priority to U.S. patent application Ser. No. 18/328,068, filed Jun. 2, 2023, which is a continuation of U.S. patent application Ser. No. 17/892,674, now U.S. Pat. No. 11,769,374, filed Aug. 22, 2022, which is a continuation of U.S. patent application Ser. No. 17/347,279, now U.S. Pat. No. 11,423,744, filed Jun. 14, 2021, which is a continuation of U.S. patent application Ser. No. 16/841,337, now U.S. Pat. No. 11,043,075, filed Apr. 6, 2020, which is a continuation of U.S. patent application Ser. No. 13/090,859, now U.S. Pat. No. 10,614,666, filed Apr. 20, 2011, the contents and disclosures of which are incorporated by reference herein in their entireties.

BACKGROUND

The embodiments described herein relate generally to gaming machines and, more particularly, to systems and methods for presenting winning free play outcomes while not presenting non-winning free play outcomes.

At least some known gaming machines provide a base game and a bonus game. For example, a bonus game may include free plays that are associated with a probability of a payout and do not require a player to deposit money or credits to the gaming machine. A bonus game may be triggered by a condition, such as a particular combination of symbols associated with a base play outcome in the base game.

Executing free plays creates free play outcomes, which may be winning (e.g., associated with a payout) or non-winning. At least some known gaming machines present both winning and non-winning free play outcomes to the player. Such gaming machines may further present a free play bonus mode and then create and present each free play outcome in the free play bonus mode. Such gaming machines may create an expectation of a winning free play outcome in the player a sense of disappointment when a free play bonus mode results in no winning free play outcomes, potentially discouraging further play at the gaming machine.

BRIEF DESCRIPTION

In one aspect, a gaming machine includes a processor and a presentation device coupled to the processor. The processor is programmed to determine that a free play trigger condition is satisfied, and to execute one or more free plays based on the free play trigger condition to create one or more free play outcomes. Each free play outcome is a winning free play outcome or a non-winning free play outcome. The presentation device is configured to present the winning free play outcomes when at least one free play outcome is a winning free play outcome. The non-winning free play outcomes are not presented.

In another aspect, a method is provided for use with a gaming machine. The method includes determining, by the gaming machine, that a free play trigger condition is satisfied. One or more free plays are executed by the gaming machine based on the free play trigger condition to create one or more free play outcomes. Each free play outcome is a winning free play outcome or a non-winning free play outcome. The winning free play outcomes are presented by the gaming machine when at least one free play outcome is a winning free play outcome. The non-winning free play outcomes are not presented.

In yet another aspect, a gaming system includes a gaming server and a gaming machine coupled in communication with the gaming server. The gaming server is configured to determine that a free play trigger condition is satisfied, and to transmit a free play notification indicating that the free play trigger condition is satisfied to one or more gaming machines. The gaming machine is configured to execute one or more free plays based on the free play notification to create one or more free play outcomes. Each free play outcome is a winning free play outcome or a non-winning free play outcome. The gaming machine is also configured to present the winning free play outcomes when at least one free play outcome is a winning free play outcome. The non-winning free play outcomes are not presented.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** is a schematic diagram of an exemplary gaming machine;

FIG. **2** is a schematic block diagram of an exemplary electrical architecture that may be used with the gaming machine shown in FIG. **1**;

FIG. **3** is a block schematic diagram of an exemplary gaming system that includes a plurality of gaming machines shown in FIG. **1**; and

FIG. **4** is a flowchart that illustrates an exemplary method for presenting free play outcomes during game play at the gaming machine shown in FIG. **1**.

DETAILED DESCRIPTION

Exemplary embodiments of systems and methods for use in presenting only winning outcomes of free plays on a gaming machine (e.g., free spins on a mechanical or electronic reel game) are described herein. Such embodiments may enhance an entertainment aspect of the game by suppressing the display of non-winning free play outcomes, which may be perceived as a negative experience by the player. Furthermore, when free play outcomes are presented in a free play bonus mode, free plays may be executed prior to displaying the bonus mode, and the free play bonus mode may be entirely suppressed if none of the free plays produce a winning outcome.

Exemplary technical effects of systems and methods described herein include at least one of: (a) determining that a free play trigger condition is satisfied; (b) executing one or more free plays based on the free play trigger condition to create one or more free play outcomes, wherein each free play outcome is a winning free play outcome or a non-winning free play outcome; (c) presenting winning free play outcomes when at least one free play outcome is a winning free play outcome, wherein non-winning free play outcomes are not presented; (d) presenting a free play bonus mode when at least one free play outcome is a winning free play outcome, wherein the winning free play outcomes are presented in the free play bonus mode; and (e) presenting the winning free play outcomes in a sequence that is based on payouts associated with the winning free play outcomes.

FIG. **1** is a schematic diagram of an exemplary gaming machine **100** that facilitates presenting winning free play outcomes and suppressing non-winning free play outcomes. Gaming machine **100** may be any type of gaming machine, and may include, without limitation, different structures than

those shown in FIG. **1**. Moreover, gaming machine **100** may employ different methods of operation than those described below.

In the exemplary embodiment, gaming machine **100** includes a cabinet **102** configured to house a plurality of components, such as a gaming machine controller, peripheral devices, presentation devices, and player interaction devices. For example, in an exemplary embodiment, gaming machine **100** includes a plurality of switches and/or buttons **104** that are coupled to a front **106** of cabinet **102**. Buttons **104** may be used to start play of a primary or secondary game. One button **104** may be a "Bet One" button that enables the player to place a bet or to increase a bet. Another button **104** may be a "Bet Max" button that enables the player to bet a maximum permitted wager. Yet another button **104** may be a "Cash Out" button that enables the player to receive a cash payment or other suitable form of payment, such as a ticket or voucher, which corresponds to a number of remaining credits.

In the exemplary embodiment, gaming machine **100** also includes a coin acceptor **108** for accepting coins and/or tokens, and a bill acceptor **110** for accepting and/or validating cash bills, coupons, and/or ticket vouchers **112**. Bill acceptor **110** may also be capable of printing tickets **112**. Furthermore, in some embodiments, bill acceptor **110** includes a card reader or validator for use with credit cards, debit cards, identification cards, and/or smart cards. The cards accepted by bill acceptor **110** may include a magnetic strip and/or a preprogrammed microchip that includes a player's identification, credit totals, and any other relevant information that may be used. Moreover, in the exemplary embodiment, gaming machine **100** includes one or more presentation devices **114**. Presentation devices **114** are mounted to cabinet **102**, and may include a primary presentation device for displaying a primary game and a secondary presentation device for displaying a secondary or bonus game. Presentation devices **114** may include, without limitation, a plasma display, a liquid crystal display (LCD), a display based on light emitting diodes (LEDs), organic light emitting diodes (OLEDs), polymer light emitting diodes (PLEDs), and/or surface-conduction electron emitters (SEDs), a speaker, an alarm, and/or any other device capable of presenting information to a user.

In an exemplary embodiment, presentation device **114** is used to display one or more game image, symbols and indicia such as a visual representation or exhibition of movement of an object such as a mechanical, virtual, or video reel, dynamic lighting, video images, and the like. In an alternative embodiment, presentation device **114** displays images and indicia using mechanical means. For example, presentation device **114** may include an electromechanical device, such as one or more rotatable reels, to display a plurality of game or other suitable images, symbols, or indicia.

In one embodiment, gaming machine **100** randomly generates game outcomes using probability data. For example, each game outcome is associated with one or more probability values that are used by gaming machine **100** to determine the game output to be displayed. Such a random calculation may be provided by a random number generator, such as a true random number generator (RNG), a pseudo-random number generator (PNG), or any other suitable randomization process.

FIG. **2** is a schematic block diagram of an exemplary electrical architecture **200** that may be used with gaming machine **100**. In the exemplary embodiment, gaming machine **100** includes a gaming machine controller **202** having a processor **204** communicatively coupled a memory area **206**. Moreover, in the exemplary embodiment, processor **204** and memory area **206** reside within cabinet **102** (shown in FIG. **1**) and may be collectively referred to herein as a "computer" or "controller." Gaming machine **100** is configurable and/or programmable to perform one or more operations described herein by programming processor **204**. For example, processor **204** may be programmed by encoding an operation as one or more executable instructions and providing the executable instructions in memory area **206**.

Controller **202** communicates with one or more other gaming machines **100** or other suitable devices via a communication interface **208**. Processor **204** may be a microprocessor, a microcontroller-based platform, a suitable integrated circuit, and/or one or more application-specific integrated circuits (ASICs). However, the above examples are exemplary only, and thus are not intended to limit in any way the definition and/or meaning of the term "processor."

Memory area **206** stores program code and instructions, executable by processor **204**, for controlling gaming machine **100**. For example, memory area **206** stores data such as image data, event data, player input data, random or pseudo-random number generation software, pay table data, and/or other information or applicable game rules that relate to game play on gaming machine **100**. Moreover, memory area **206** may include one or more forms of memory. For example, memory area **206** can include random access memory (RAM), read-only memory (ROM), flash memory, and/or electrically erasable programmable read-only memory (EEPROM). In some embodiments, other suitable magnetic, optical, and/or semiconductor-based memory may be included in memory area **206** by itself or in combination.

In the exemplary embodiment, gaming machine **100** includes a credit display **210**, which displays a player's current number of credits, cash, account balance or the equivalent. Gaming machine **100** also includes a bet display **212** which displays a player's amount wagered. Credit display **210** and bet display **212** may be standalone displays independent of presentation device **114**, or credit display **210** and bet display **212** may be incorporated into presentation device **114**.

Moreover, in an exemplary embodiment, presentation device **114** is controlled by controller **202**. In some embodiments, presentation device **114** includes a touch screen **214** and an associated touch screen controller **216**. A video controller **218** is communicatively coupled to controller **202** and touch screen controller **216** to enable a player to input game play decisions into gaming machine **100** via touch screen **214**. Furthermore, gaming machine **100** includes one or more communication ports **220** that enable controller **202** to communicate with external peripheral devices (not shown) such as, but not limited to, external video sources, expansion buses, game or other displays, a SCSI port, or a key pad.

Furthermore, and in the exemplary embodiment, controller **202** is programmed to execute one or more free plays when one or more free play trigger conditions are satisfied, and to present winning free play outcomes while suppressing non-winning free play outcomes. For example, when at least one free play outcome is associated with a payout, controller **202** may cause presentation device **114** to present a free play bonus mode (e.g., a red screen) and to present each winning free play outcome in the free play bonus mode. Conversely, if all free play outcomes are non-winning, controller **202** may suppress display of the free play bonus mode.

FIG. **3** is a block schematic diagram of an exemplary gaming system **300** that includes a plurality of gaming machines **100**. Each gaming machine **100** is coupled via communication interface **208** to one or more servers, such as a gaming server **302**, using a network **304**. Gaming server **302** includes a processor (not shown) that facilitates data communication between each gaming machine **100** and other components of gaming system **300**. Such data is stored in, for example, a memory area **306**, such as a database, that is coupled to gaming server **302**.

As described above, gaming machines **100** may include video bingo machines, video poker machines, video slot machines, and/or other similar gaming machines that implement alternative games. Moreover, gaming machines **100** may be terminal-based machines, wherein the actual games, including random number generation and/or outcome determination, are performed at gaming server **302**. In such an embodiment, gaming machine **100** displays results of the game via presentation device **114** (shown in FIGS. **1** and **2**).

Moreover, in the exemplary embodiment, gaming system **300** includes a configuration workstation **308** that includes a user interface that enables an administrator to set up and/or to modify portions of gaming system **300** and/or gaming server **302**. Gaming server **302** may perform a plurality of functions including, for example, game outcome generation, player tracking functions, and/or accounting functions. However, in alternative embodiments, gaming system **300** may include a plurality of servers that separately perform these functions and/or any suitable function for use in a network-based gaming system. In some embodiments, gaming server **302** controls bonus applications or bonus systems that award bonus (e.g., base play bonuses and/or free plays) opportunities on gaming system **300**. Moreover, gaming server **302** may include a set of rules for awarding jackpots in excess of those established by winning pay tables (not shown) of each gaming machine **100**. Some bonus awards may be awarded randomly, while other bonus awards may be made to groups of gaming machines **100** operating in a progressive jackpot mode.

Moreover, in some embodiments, gaming server **302** tracks data of players using gaming machines **100**, and also controls elements (e.g., messages and/or bonus modes) that appear on presentation device **114** of gaming machines **100**. For example, gaming server **302** can store physical characteristics of players, such as, but not limited to, the player age. Gaming server **302** can also store data related to the players and tracked using player tracking identification, such as a player card. Moreover, gaming server **302** can store information and data about the player such as loyalty points, player address, phone number, and/or any information that may be retrieved and transmitted to gaming machines **100**. In some embodiments, gaming server **302** stores and tracks information such as, but not limited to, the average amount of wager played at gaming machine **100**. Moreover, gaming server **302** can track an average amount of wagers by the player, any funds the player may have in an account, and data relating to reportable events. Such data is associated with individual players and logged using a taxable accrual log.

FIG. **4** is a flowchart **400** that illustrates an exemplary method for presenting free play outcomes during game play at gaming machine **100** (shown in FIGS. **1** and **2**). Referring to FIGS. **2** and **4**, in the exemplary embodiment, while presenting a non-bonus, or "base," game, controller **202** receives **405** a base play input (e.g., via a button **104** and/or presentation device **114**). For example, the base play input may include a bet and/or a start play action.

Controller **202** executes **410** one or more base plays, creating base play outcomes that each correspond to an executed base play. In exemplary embodiments, executing **410** a base play includes selecting a combination of game symbols (e.g., using an RNG or a PNG) and determining whether the selected combination is associated with a payout based on a base play pay table.

In the exemplary embodiment, controller **202** determines **415** whether a base play bonus trigger condition is satisfied. If so, controller **202** presents **420** the base play outcome(s) and presents **425** the base play bonus.

Otherwise, based on determining **415** that no base play bonus trigger condition is satisfied, controller **202** determines **430** whether one or more free play trigger conditions are satisfied. In some embodiments, a free play trigger condition is satisfied whenever controller **202** determines **415** that no base play bonus trigger condition is satisfied. In addition, or alternative to, controller **202** may determine **430** that a free play trigger condition is satisfied by generating a random number (e.g., using an RNG or a PNG) and determining that the random number is within a predetermined range. As another example, controller **202** may determine **430** that a free play trigger condition is satisfied by determining that a base play outcome is associated with a predetermined symbol combination. As a further example, controller **202** may determine **430** that a free play trigger condition is satisfied by determining that the quantity of credits (e.g., money) deposited in gaming machine **100** exceeds a predetermined "coin-in" threshold value. The coin-in threshold value may be defined as a quantity of credits, as a quantity of credits within a predetermined amount of time (e.g., thirty minutes), and/or as a quantity of credits within a single session of game play (e.g., by one player at one gaming machine **100**). Any quantity of free play trigger conditions may be defined and stored in memory area **206**.

As described above, in exemplary embodiments, controller **202** enables a base play bonus or a free play bonus, but not both. Alternatively, controller **202** may allow both a base play bonus and a free play bonus. In some embodiments, controller **202** determines **430** whether any free play trigger condition is satisfied even after determining **415** that a base play bonus trigger condition is satisfied.

Some embodiments facilitate providing a free play bonus to a group of gaming machines **100**. In such embodiments, controller **202** may determine **430** that a free play trigger condition is satisfied by receiving (e.g., via communication interface **208**) a free play notification from another gaming machine **100** and/or from a gaming server **302** (shown in FIG. **3**), as described in more detail below. Further, controller **202** may transmit **435** a free play notification, indicating that the free play trigger condition is satisfied, to another gaming machine **100** and/or to a gaming server **302**.

Controller **202** executes **440** one or more free plays based on a free play trigger condition being satisfied to create one or more free play outcomes. Each free play outcome is a winning free play outcome or a non-winning free play outcome. In exemplary embodiments, controller **202** determines whether each free play outcome is associated with a payout based on a free play pay table. The free play pay table may be the same as or different from the base play pay table. Free play outcomes associated with a payout are considered winning free play outcomes, whereas free play outcomes that are not associated with a payout are considered non-winning free play outcomes.

In some embodiments, controller **202** executes **410** base plays using a base play pay table and executes **440** free plays

based using a free play pay table that is different from the base play pay table. For example, the base play table may associate payouts with one set of symbol combinations, and the free play table may associate payouts with a different set of symbol combinations. As another example, base play execution **410** and the corresponding base play pay table may be associated with a set of base play symbols, whereas free play execution **440** and the corresponding free play pay table may be associated a set of free play symbols. In addition, or alternative to, the free play pay table may include a proportion of winning play outcomes that is higher than the proportion of winning play outcomes in the base play pay table. Further, the free play pay table may include winning play outcomes that have an average payout that is lower than or higher than the average payout of winning play outcomes in the base play pay table.

In some embodiments, when any free play trigger condition is satisfied, controller **202** executes **440** a predetermined quantity (e.g., three, five, or seven) of free plays. In other embodiments, controller **202** determines **437** the quantity of free plays to execute **440** based on a minimum quantity of free plays, a maximum quantity of free plays, and a random number (e.g., generated using an RNG or a PNG). In the exemplary embodiment, controller **202** stores (e.g., in memory area **206**) a weighted table that includes a plurality of free play quantities, each of which is associated with a weight. For example, quantities of 3, 4, 5, 6, and 7 may be associated with weights 97%, 93%, 87%, 75%, and 50%, respectively. Controller **202** generates a random number (e.g., between 0 and 1) and converts the random number into a percentage, such as by multiplying the random number by 100 and discarding the non-integral portion of the product (e.g., by calculating the product modulo 100). Such an embodiment enables a non-uniform occurrence rate for the available free play quantities. For example, as illustrated above, a quantity of three free plays may be selected more frequently as a quantity of four free plays is selected.

In the exemplary embodiment, controller **202** stores **445** winning and/or non-winning free play outcomes (e.g., in memory area **206**). Stored free play outcomes may be later included in a report created by controller **202**. For example, controller **202** may create an audit report that includes events (e.g., plays and play outcomes) that have occurred at gaming machine **100** over a period of time.

Controller **202** presents **420** any base play outcomes and also presents **425** any base play bonuses. If controller **202** has executed **440** free plays based on a free play retrigger condition being satisfied, as described below, it is possible that no base play outcomes or base play bonuses will exist for presentation **420** and **425**.

When a winning free play outcome exists (i.e., at least one free play outcome is a winning free play outcome), controller **202** presents **450** (e.g., via presentation device **114**) the winning free play outcomes. In the exemplary embodiment, non-winning free play outcomes are suppressed (e.g., not presented). If no free plays have been executed **440** (e.g., due to no free play trigger condition being satisfied), it follows that no winning free play outcomes exist.

In some embodiments, controller **202** presents **447** (e.g., via presentation device **114**) a free play bonus mode when at least one free play outcome is a winning free play outcome and presents **450** the winning free play outcomes in the free play bonus mode. For example, the free play bonus mode may include a graphical distinction from the base play mode and/or a predetermined free play bonus sound. In the exemplary embodiment, controller **202** presents **447** the free play bonus mode by displaying a red screen (e.g., a red background) via presentation device **114**. Free play information, such as symbols selected by controller **202** during execution **440** of a free play, may be overlaid on the red screen. In the exemplary embodiment, if no winning free play outcomes exist, controller **202** does not present **447** the free play bonus mode.

Some embodiments facilitate presenting **450** winning free play outcomes according to a predetermined sequence. In such embodiments, prior to presenting **450** winning free play outcomes, controller **202** sorts **448** the winning free play outcomes. For example, controller **202** may sort **448** the winning free play outcomes in a sequence that is based on the associated payouts (e.g., increasing payout amounts). In the exemplary embodiment, such sorting **448** is possible because free plays are executed **440** prior to presentation **450**.

As described above, free plays may be executed **440** based on one or more free play trigger conditions being satisfied during base play. Optionally, free plays may be "retriggered" during free play. In some embodiments, after presentation **450** of any winning free play outcomes, controller **202** determines **455** whether one or more free play retrigger conditions are satisfied.

Free play retrigger conditions may be similar to free play trigger conditions. For example, free play retrigger conditions may be based on a random number, one or more predetermined symbols or symbol combinations, and/or the quantity of credits deposited in gaming machine **100** (also known as "coin-in"), as described above with reference to determining **430** whether a free play trigger condition is satisfied during base play. In addition, or alternative to, free play retrigger conditions may be specific to free play. For example, the probability of retrigger free play based on a random number may be lower or higher than the probability of triggering free play based on a random number. Similarly, a free play retrigger condition and a free play trigger condition may be associated with different coin-in threshold values. Further, free play retrigger symbol combinations may be different from free play trigger conditions.

When controller **202** determines **455** that a free play retrigger condition is satisfied, controller **202** proceeds as if a free play trigger condition was determined **430** to be satisfied. For example, controller **202** executes **440** one or more free plays, as described above, optionally transmitting **435** a free play notification and/or determining **437** the quantity of free plays. The quantity of free plays for a free play retrigger may be determined **437** using a set of available quantities and/or a weighted table that are different from those used in response to a free play trigger during base play.

In some embodiments, controller **202** determines **455** that a free play retrigger condition is satisfied based on first free play outcomes and then executes **440** one or more free plays based on the free play retrigger condition to create one or more second free play outcomes. If another retrigger occurs, controller **202** may create third free play outcomes, and so on.

Some embodiments facilitate game play among a plurality of gaming machines **100**. For example, referring to FIGS. **3** and **4**, gaming server **302** may be configured to determine **430** that a free play trigger condition is satisfied and to transmit **435** a free play notification to one or more gaming machines **100**. The free play notification indicates that the free play trigger condition is satisfied.

Gaming server **302** may determine **430** that the free play trigger condition is satisfied as described above (e.g., based on a random number, a random time, a predetermined symbol combination, and/or coin-in). For example, gaming

server **302** may generate a random number and determine **430** that the free play trigger condition is satisfied when the random number is within a predetermined range. As another example, gaming server **302** may calculate a total quantity of credits deposited (e.g., coin-in) among gaming machines **100** (e.g., a quantity of credits, a quantity of credits within a predetermined amount of time, and/or a quantity of credits within a single session of game play).

In addition, or alternative to, a gaming machine **100** may transmit **435** a free play notification to gaming server **302**. Gaming server **302** determines **430** that a free play trigger condition is satisfied based on the received free play notification and transmits **435** (e.g., forwards) the free play trigger condition to one or more other gaming machines **100**. In some embodiments, a gaming machine **100** transmits **435** a free play notification directly to at least one other gaming machine **100**.

In such embodiments, gaming machines **100** receive a free play notification from gaming server **302** and/or from another gaming machine **100**. Gaming machines **100** determine **430** that a free play trigger condition is satisfied based on the received free play notification, execute **440** free plays and present **450** winning free play outcomes, as described above, optionally in a free play bonus mode.

The quantity of free plays may be determined **437** by gaming server **302** and/or by one or more gaming machines **100** (e.g., based on a minimum quantity of free plays, a maximum quantity of free plays, and a random number). Further, where gaming server **302** determines **437** the quantity of free plays or received the quantity of free plays from a gaming machine **100**, gaming server **302** may transmit the determined quantity to one or more other gaming machines **100**, which execute **440** the determined quantity of free plays to create the determined quantity of free play outcomes.

Exemplary embodiments of systems and methods for presenting winning free play outcomes are described herein. The systems and methods are not limited to the specific embodiments described herein but, rather, operations of the methods and/or components of the system and/or apparatus may be utilized independently and separately from other operations and/or components described herein. Further, the described operations and/or components may also be defined in, or used in combination with, other systems, methods, and/or apparatus, and are not limited to practice with only the systems, methods, and storage media as described herein.

A computer, controller, or server, such as those described herein, includes at least one processor or processing unit and a system memory. The computer, controller, or server typically has at least some form of computer readable media. By way of example and not limitation, computer readable media include computer storage media and communication media. Computer storage media include volatile and nonvolatile, removable and non-removable media implemented in any method or technology for storage of information such as computer readable instructions, data structures, program modules, or other data. Communication media typically embody computer readable instructions, data structures, program modules, or other data in a modulated data signal such as a carrier wave or other transport mechanism and include any information delivery media. Those skilled in the art are familiar with the modulated data signal, which has one or more of its characteristics set or changed in such a manner as to encode information in the signal. Combinations of any of the above are also included within the scope of computer readable media.

Although the present invention is described in connection with an exemplary gaming system environment, embodiments of the invention are operational with numerous other general purpose or special purpose gaming system environments or configurations. The gaming system environment is not intended to suggest any limitation as to the scope of use or functionality of any aspect of the invention. Moreover, the gaming system environment should not be interpreted as having any dependency or requirement relating to any one or combination of components illustrated in the exemplary operating environment.

Embodiments of the invention may be described in the general context of computer-executable instructions, such as program components or modules, executed by one or more computers or other devices. Aspects of the invention may be implemented with any number and organization of components or modules. For example, aspects of the invention are not limited to the specific computer-executable instructions or the specific components or modules illustrated in the figures and described herein. Alternative embodiments of the invention may include different computer-executable instructions or components having more or less functionality than illustrated and described herein.

The order of execution or performance of the operations in the embodiments of the invention illustrated and described herein is not essential, unless otherwise specified. That is, the operations may be performed in any order, unless otherwise specified, and embodiments of the invention may include additional or fewer operations than those disclosed herein. For example, it is contemplated that executing or performing a particular operation before, contemporaneously with, or after another operation is within the scope of aspects of the invention.

In some embodiments, the term "database" refers generally to any collection of data including hierarchical databases, relational databases, flat file databases, object-relational databases, object oriented databases, and any other structured collection of records or data that is stored in a computer system. The above examples are exemplary only, and thus are not intended to limit in any way the definition and/or meaning of the term database. Examples of databases include, but are not limited to only including, Oracle® Database, MySQL, IBM® DB2, Microsoft® SQL Server, Sybase®, and PostgreSQL. However, any database may be used that enables the systems and methods described herein. (Oracle is a registered trademark of Oracle Corporation, Redwood Shores, California; IBM is a registered trademark of International Business Machines Corporation, Armonk, New York; Microsoft is a registered trademark of Microsoft Corporation, Redmond, Washington; and Sybase is a registered trademark of Sybase, Dublin, California.)

When introducing elements of aspects of the invention or embodiments thereof, the articles "a," "an," "the," and "said" are intended to mean that there are one or more of the elements. The terms "comprising," including," and "having" are intended to be inclusive and mean that there may be additional elements other than the listed elements.

This written description uses examples to disclose the invention, including the best mode, and also to enable any person skilled in the art to practice the invention, including making and using any devices or systems and performing any incorporated methods. The patentable scope of the invention is defined by the claims, and may include other examples that occur to those skilled in the art. Such other examples are intended to be within the scope of the claims if they have structural elements that do not differ from the literal language of the claims, or if they include equivalent

structural elements with insubstantial differences from the literal language of the claims.

What is claimed is:

1. An electronic gaming device comprising:

at least one memory with instructions stored thereon; and

at least one processor in communication with the at least one memory, wherein the instructions, when executed by the at least one processor, cause the at least one processor to:

cause display of an electronic bingo game;

cause a bonus mode to be triggered within the electronic bingo game; and

following the bonus mode being triggered, cause a plurality of bonus mode outcomes to be provided based upon data associated with the plurality of bonus mode outcomes that is received from a server, wherein the instructions further cause the at least one processor to:

in response to the plurality of bonus mode outcomes satisfying a first condition, cause display of at least one winning bonus mode outcome, wherein the at least one winning bonus mode outcome is displayed with a colored screen overlaid upon a winning symbol combination, wherein a graphical representation of the bonus mode is distinguished by the colored screen, and wherein the colored screen is associated with and indicative of the bonus mode; or

in response to the plurality of bonus mode outcomes satisfying a second condition, cause display of a game mode different from the bonus mode, wherein during the game mode different from the bonus mode, the colored screen is not displayed.

2. The electronic gaming device of claim 1, wherein the bonus mode comprises one or more free spins.

3. The electronic gaming device of claim 1, wherein the electronic gaming device comprises a bingo gaming machine.

4. The electronic gaming device of claim 1, wherein the data that is received from the server is further associated with at least one bingo card and at least one bingo call.

5. The electronic gaming device of claim 1, wherein when the colored screen is overlaid upon the winning symbol combination the bonus mode appears to be displayed with a red foreground.

6. The electronic gaming device of claim 1, wherein the instructions further cause the at least one processor to cause a sound associated with the bonus mode to be outputted based upon the plurality of bonus mode outcomes satisfying the first condition.

7. The electronic gaming device of claim 1, wherein the instructions further cause the at least one processor to:

select a subset of bonus mode outcomes to be displayed from the plurality of bonus mode outcomes, the plurality of bonus mode outcomes each having a payout associated therewith;

sort the subset of bonus mode outcomes into a sequence based on the respective payout associated with each bonus mode outcome of the subset of bonus mode outcomes; and

cause display of the subset of bonus mode outcomes in the sequence during the bonus mode.

8. The electronic gaming device of claim 1, wherein the instructions, when executed by the at least one processor, further cause the at least one processor to:

determine that a bonus mode retrigger condition is satisfied based on the plurality of bonus mode outcomes;

execute a plurality of bonus mode plays based on the bonus mode retrigger condition being satisfied to generate second bonus mode outcomes, the second bonus mode outcomes including at least one non-winning bonus mode outcome and at least one winning bonus mode outcome;

suppress the at least one non-winning bonus mode outcome of the second bonus mode outcomes, such that the non-winning bonus mode outcome is not displayed; and

cause display of the at least one winning bonus mode outcome of the second bonus mode outcomes.

9. The electronic gaming device of claim 1, wherein the instructions further cause the at least one processor to, based upon the plurality of bonus mode outcomes satisfying the second condition, control a display device such that no indication is provided to a player that the bonus mode was initiated.

10. At least one non-transitory computer-readable storage medium with instructions stored thereon that, in response to execution by at least one processor, cause the at least one processor to:

cause display of an electronic bingo game;

cause a bonus mode to be triggered within the electronic bingo game; and

following the bonus mode being triggered, cause a plurality of bonus mode outcomes to be provided based upon data associated with the plurality of bonus mode outcomes that is received from a server, wherein the instructions further cause the at least one processor to:

in response to the plurality of bonus mode outcomes satisfying a first condition, cause display of at least one winning bonus mode outcome, wherein the at least one winning bonus mode outcome is displayed with a colored screen overlaid upon a winning symbol combination, wherein a graphical representation of the bonus mode is distinguished by the colored screen, and wherein the colored screen is associated with and indicative of the bonus mode; or

in response to the plurality of bonus mode outcomes satisfying a second condition, cause display of a game mode different from the bonus mode, wherein during the game mode different from the bonus mode, the colored screen is not displayed.

11. The at least one non-transitory computer-readable storage medium of claim 10, wherein the bonus mode comprises one or more free spins.

12. The at least one non-transitory computer-readable storage medium of claim 10, wherein a bingo gaming machine comprises the at least one processor and the at least one non-transitory computer-readable storage medium.

13. The at least one non-transitory computer-readable storage medium of claim 10, wherein the data that is received from the server is further associated with at least one bingo card and at least one bingo call.

14. The at least one non-transitory computer-readable storage medium of claim 10, wherein when the colored screen is overlaid upon the winning symbol combination the bonus mode appears to be displayed with a red foreground.

15. The at least one non-transitory computer-readable storage medium of claim 10, wherein the instructions further cause the at least one processor to cause a sound associated with the bonus mode to be outputted based upon the plurality of bonus mode outcomes satisfying the first condition.

16. The at least one non-transitory computer-readable storage medium of claim 10, wherein the instructions further cause the at least one processor to:

select a subset of bonus mode outcomes to be displayed from the plurality of bonus mode outcomes, the plurality of bonus mode outcomes each having a payout associated therewith;

sort the subset of bonus mode outcomes into a sequence based on the respective payout associated with each bonus mode outcome of the subset of bonus mode outcomes; and

cause display of the subset of bonus mode outcomes in the sequence during the bonus mode.

17. The at least one non-transitory computer-readable storage medium of claim **10**, wherein the instructions, when executed by the at least one processor, further cause the at least one processor to:

determine that a bonus mode retrigger condition is satisfied based on the plurality of bonus mode outcomes;

execute a plurality of bonus mode plays based on the bonus mode retrigger condition being satisfied to generate second bonus mode outcomes, the second bonus mode outcomes including at least one non-winning bonus mode outcome and at least one winning bonus mode outcome;

suppress the at least one non-winning bonus mode outcome of the second bonus mode outcomes, such that the non-winning bonus mode outcome is not displayed; and

cause display of the at least one winning bonus mode outcome of the second bonus mode outcomes.

18. The at least one non-transitory computer-readable storage medium of claim **10**, wherein the instructions further cause the at least one processor to, based upon the plurality of bonus mode outcomes satisfying the second condition, control a display device such that no indication is provided to a player that the bonus mode was initiated.

19. A method of electronic gaming implemented by at least one processor in communication with at least one memory, the method comprising:

causing display of an electronic bingo game;

causing a bonus mode to be triggered within the electronic bingo game; and

following the bonus mode being triggered, causing a plurality of bonus mode outcomes to be provided based upon data associated with the plurality of bonus mode outcomes that is received from a server, wherein the method further comprises:

in response to the plurality of bonus mode outcomes satisfying a first condition, causing display of at least one winning bonus mode outcome, wherein the at least one winning bonus mode outcome is displayed with a colored screen overlaid upon a winning symbol combination, wherein a graphical representation of the bonus mode is distinguished by the colored screen, and wherein the colored screen is associated with and indicative of the bonus mode; or

in response to the plurality of bonus mode outcomes satisfying a second condition, causing display of a game mode different from the bonus mode, wherein during the game mode different from the bonus mode, the colored screen is not displayed.

20. The method of claim **19**, further comprising at least one of causing display of the electronic bingo game, causing the bonus mode to be triggered, or causing the plurality of bonus mode outcomes to be provided by transmitting one or more messages to an electronic gaming device where the electronic bingo game is displayed.

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