US012033464B2

(12) **United States Patent**
Haishima

(10) **Patent No.: US 12,033,464 B2**
(45) **Date of Patent: Jul. 9, 2024**

(54) **INFORMATION PROCESSING DEVICE AND PAYOUT MANAGEMENT SYSTEM**

(71) Applicant: **Universal Entertainment Corporation**, Tokyo (JP)

(72) Inventor: **Jun Haishima**, Tokyo (JP)

(73) Assignee: **Universal Entertainment Corporation**, Tokyo (JP)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 230 days.

(21) Appl. No.: **17/638,330**

(22) PCT Filed: **Jul. 28, 2020**

(86) PCT No.: **PCT/JP2020/028841**
§ 371 (c)(1),
(2) Date: **Feb. 25, 2022**

(87) PCT Pub. No.: **WO2021/039243**
PCT Pub. Date: **Mar. 4, 2021**

(65) **Prior Publication Data**

US 2022/0292921 A1 Sep. 15, 2022

(30) **Foreign Application Priority Data**

Aug. 27, 2019 (JP) 2019-154964

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

(52) **U.S. Cl.**
CPC ***G07F 17/3244*** (2013.01); ***G07F 17/3223*** (2013.01)

(58) **Field of Classification Search**
None
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2012/0115571	A1	5/2012	Kitamura et al.	
2017/0316647	A1	11/2017	Ellis	
2018/0040200	A1*	2/2018	Ellis	G07F 17/3244
2020/0184771	A1*	6/2020	Haishima	G06Q 50/34
2022/0012980	A1*	1/2022	Haishima	G07F 17/3227
2022/0245998	A1*	8/2022	Haishima	A63F 9/00

* cited by examiner

Primary Examiner — Ronald Laneau
(74) *Attorney, Agent, or Firm* — Simpson & Simpson, PLLC; S. Peter Konzel

(57) **ABSTRACT**

The present invention provides an information processing device and a payout management system capable of performing an appropriate operation in accordance with a classification of a game value such as a credit or the like. The information processing device includes an information processing unit that is configured to be able to transmit game value information that can be used for a game to an outside in association with registered information, and an interface that is capable of transmitting and receiving information to and from the gaming machine, in which the information processing unit distinguishes and manages a plurality of types of game values as the game value information.

5 Claims, 15 Drawing Sheets

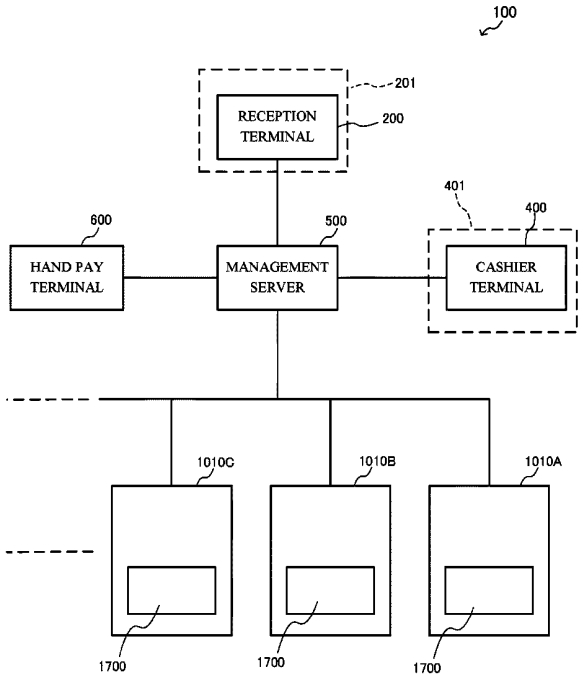


FIG. 1

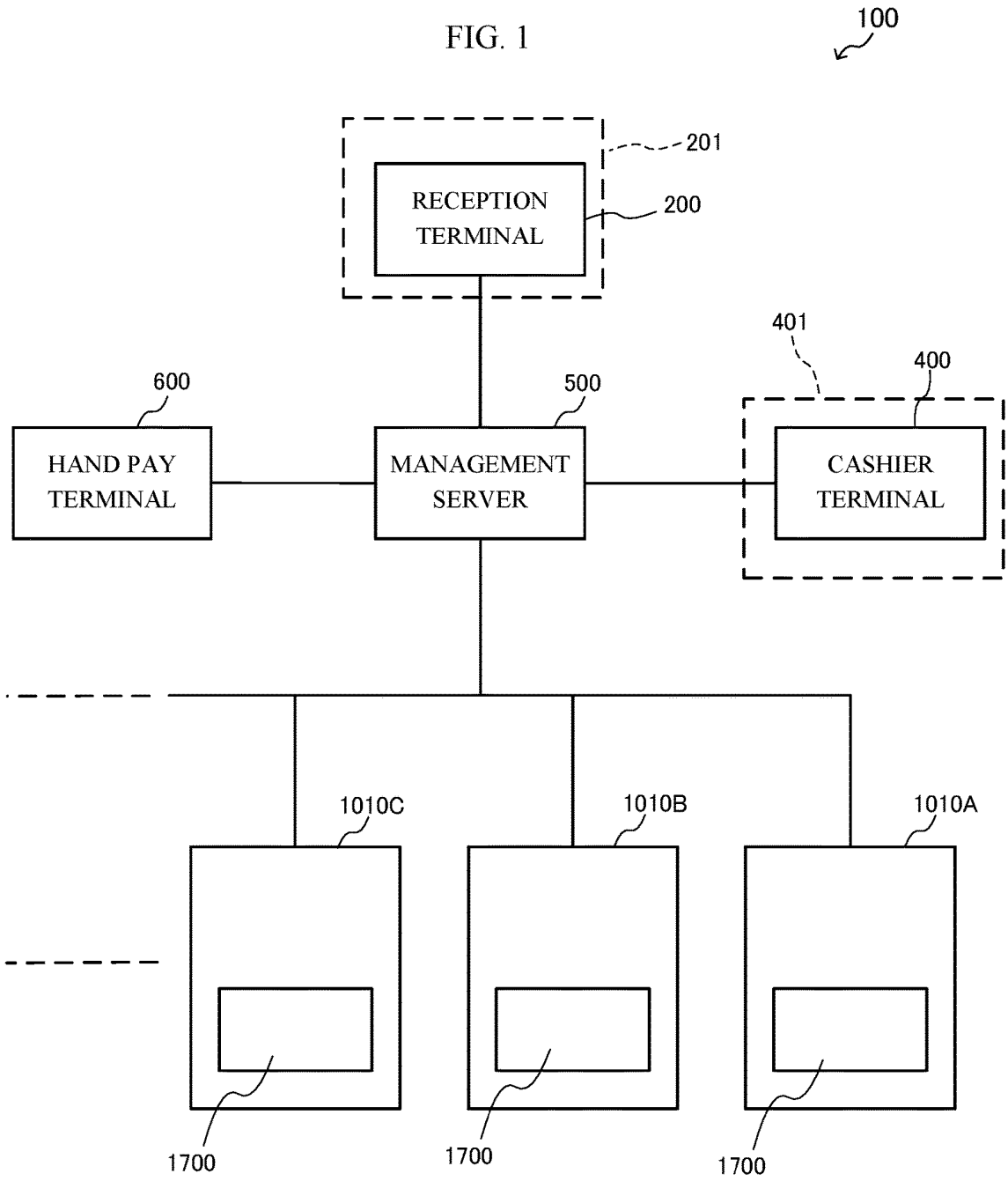

100
201
RECEPTION TERMINAL
200
401
400
600
500
HAND PAY TERMINAL
MANAGEMENT SERVER
CASHIER TERMINAL
1010C
1010B
1010A
1700
1700
1700

FIG. 2

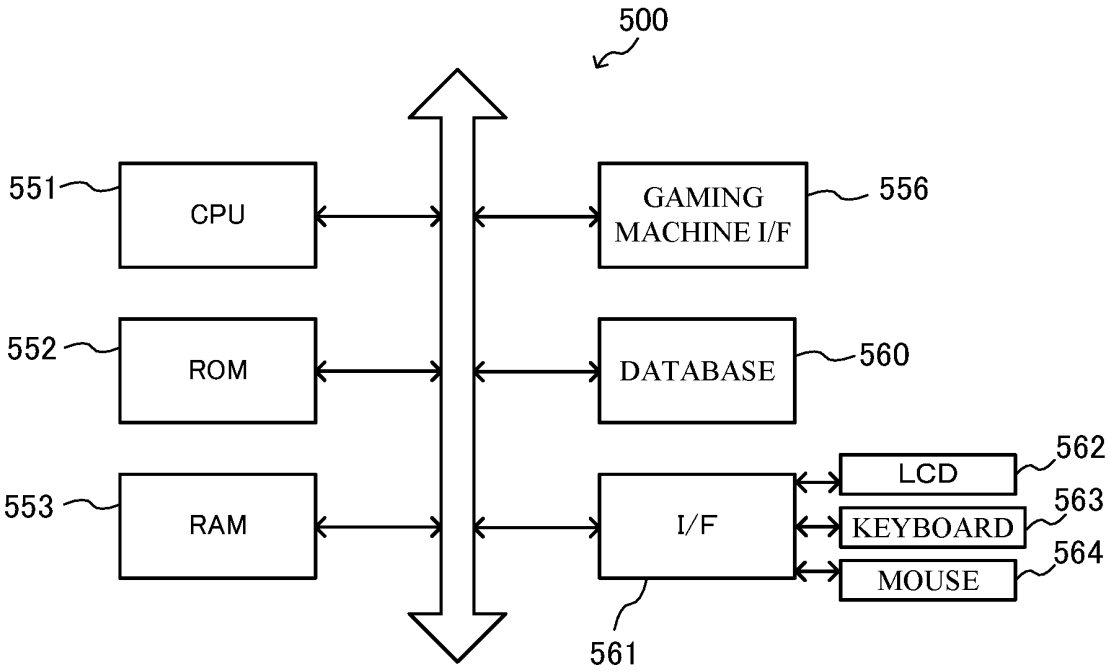

500
551
CPU
552
ROM
553
RAM
GAMING MACHINE I/F
556
DATABASE
560
I/F
561
LCD
562
KEYBOARD
563
MOUSE
564

FIG. 3

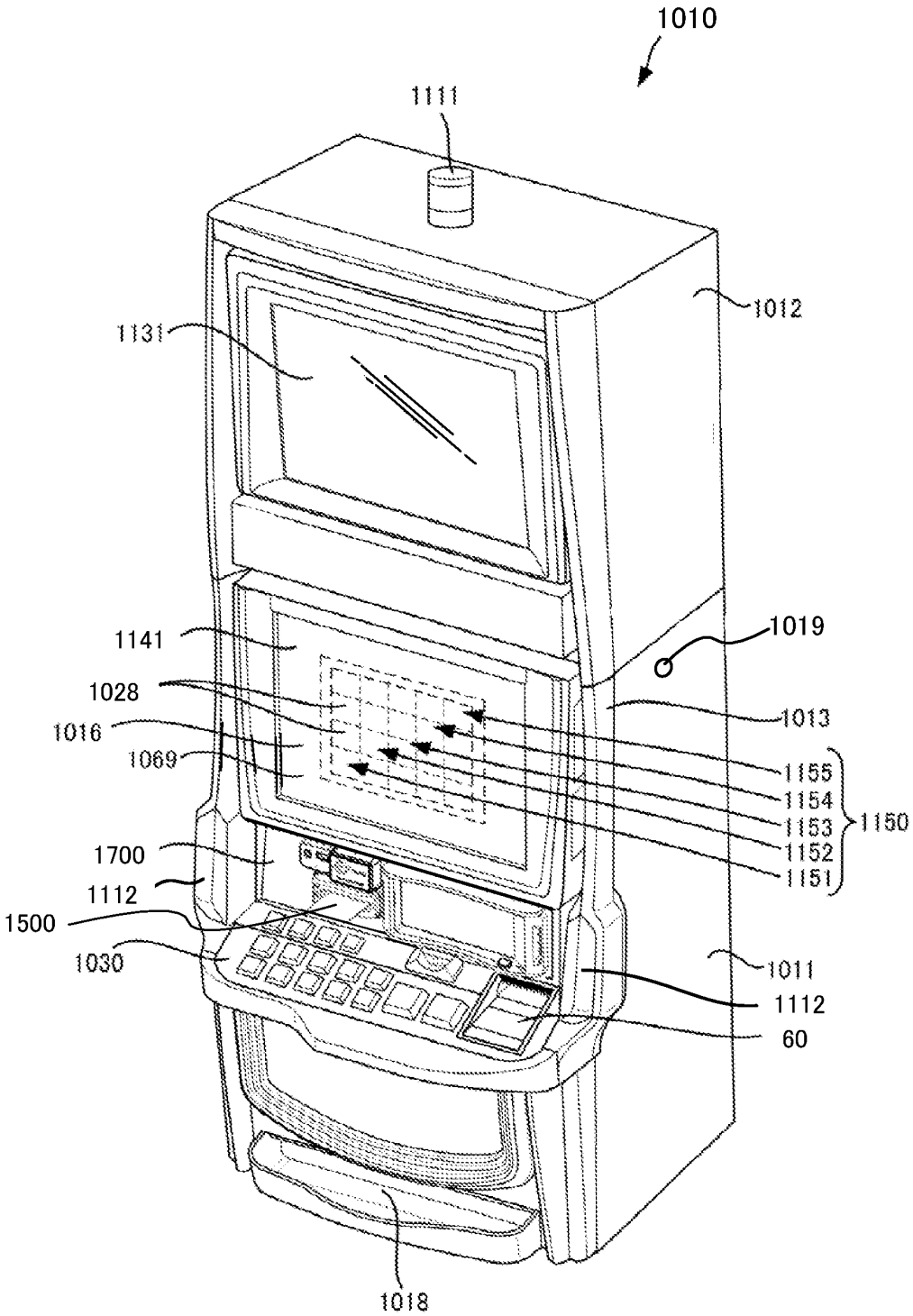

1010
1111
1012
1131
1141
1019
1028
1013
1016
1069
1155
1154
1153
1150
1152
1151
1700
1112
1500
1030
1011
1112
60
1018

FIG. 4

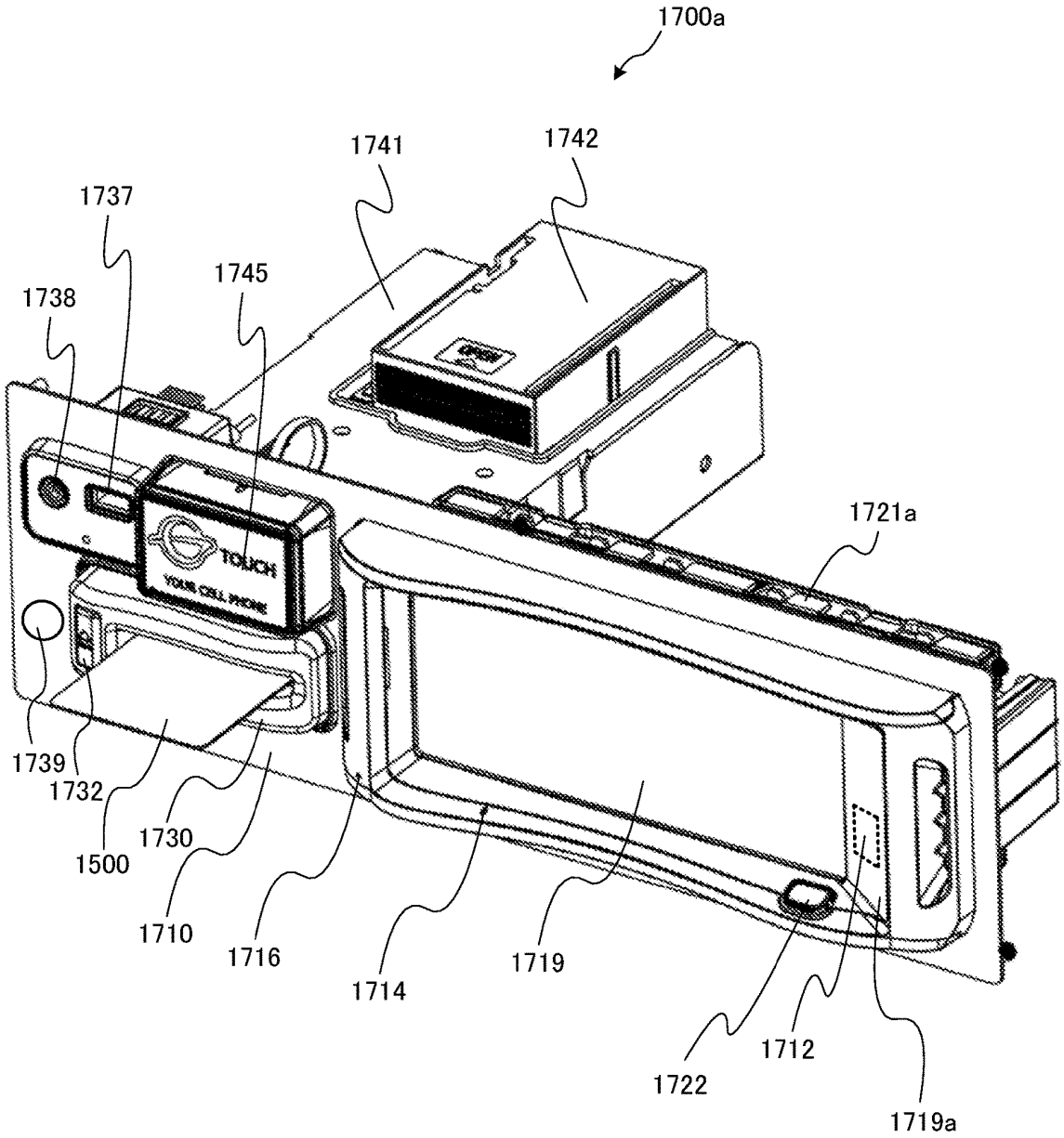

1700a
1741
1742
1737
1745
1738
1721a
1739
1732
1730
1500
1710
1716
1714
1719
1722
1712
1719a

FIG. 5

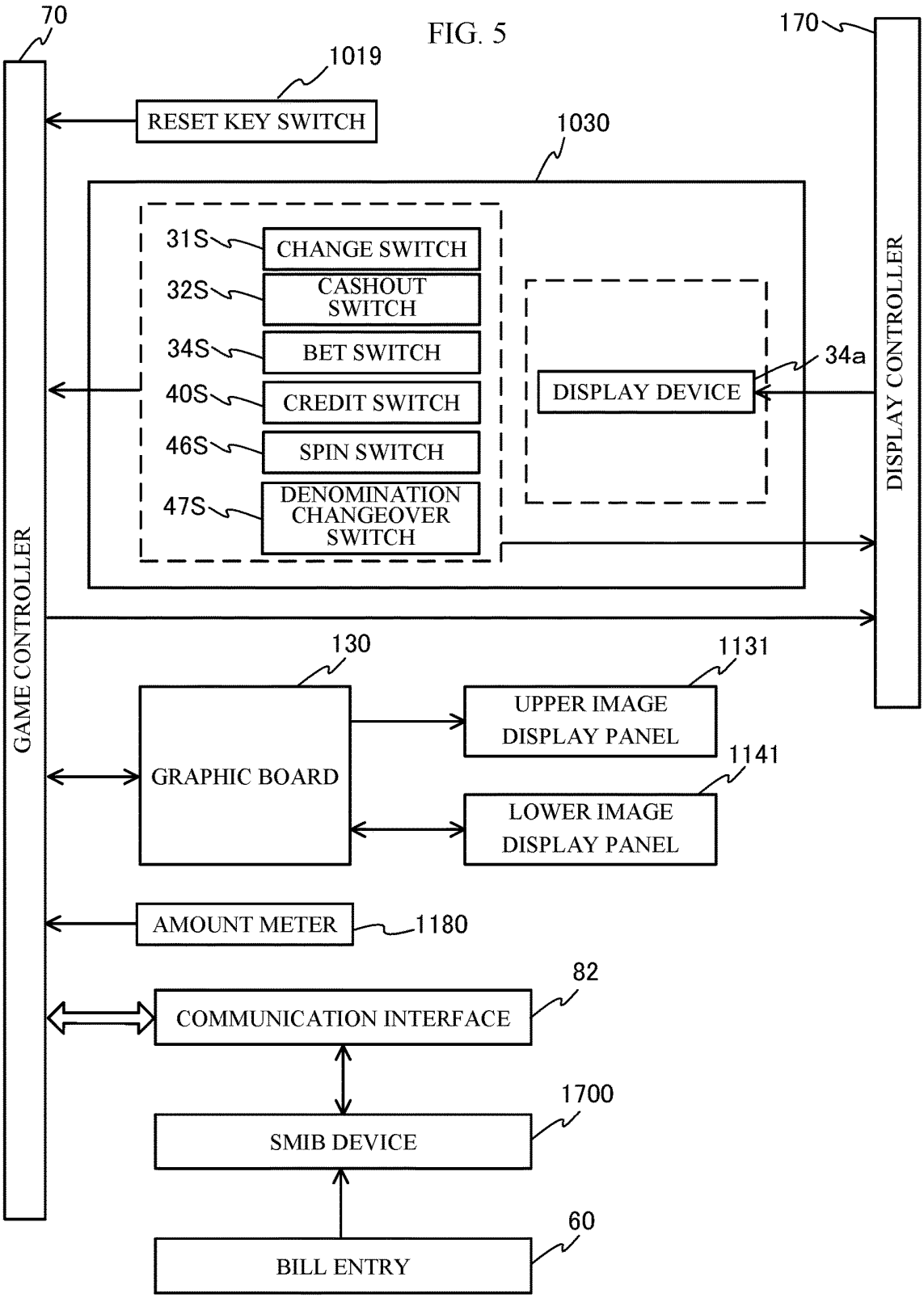

70
170
1019
RESET KEY SWITCH
1030
31S
CHANGE SWITCH
32S
CASHOUT SWITCH
34S
BET SWITCH
40S
CREDIT SWITCH
46S
SPIN SWITCH
47S
DENOMINATION CHANGEOVER SWITCH
34a
DISPLAY DEVICE
DISPLAY CONTROLLER
GAME CONTROLLER
130
GRAPHIC BOARD
1131
UPPER IMAGE DISPLAY PANEL
1141
LOWER IMAGE DISPLAY PANEL
AMOUNT METER
1180
82
COMMUNICATION INTERFACE
1700
SMIB DEVICE
60
BILL ENTRY

FIG. 6

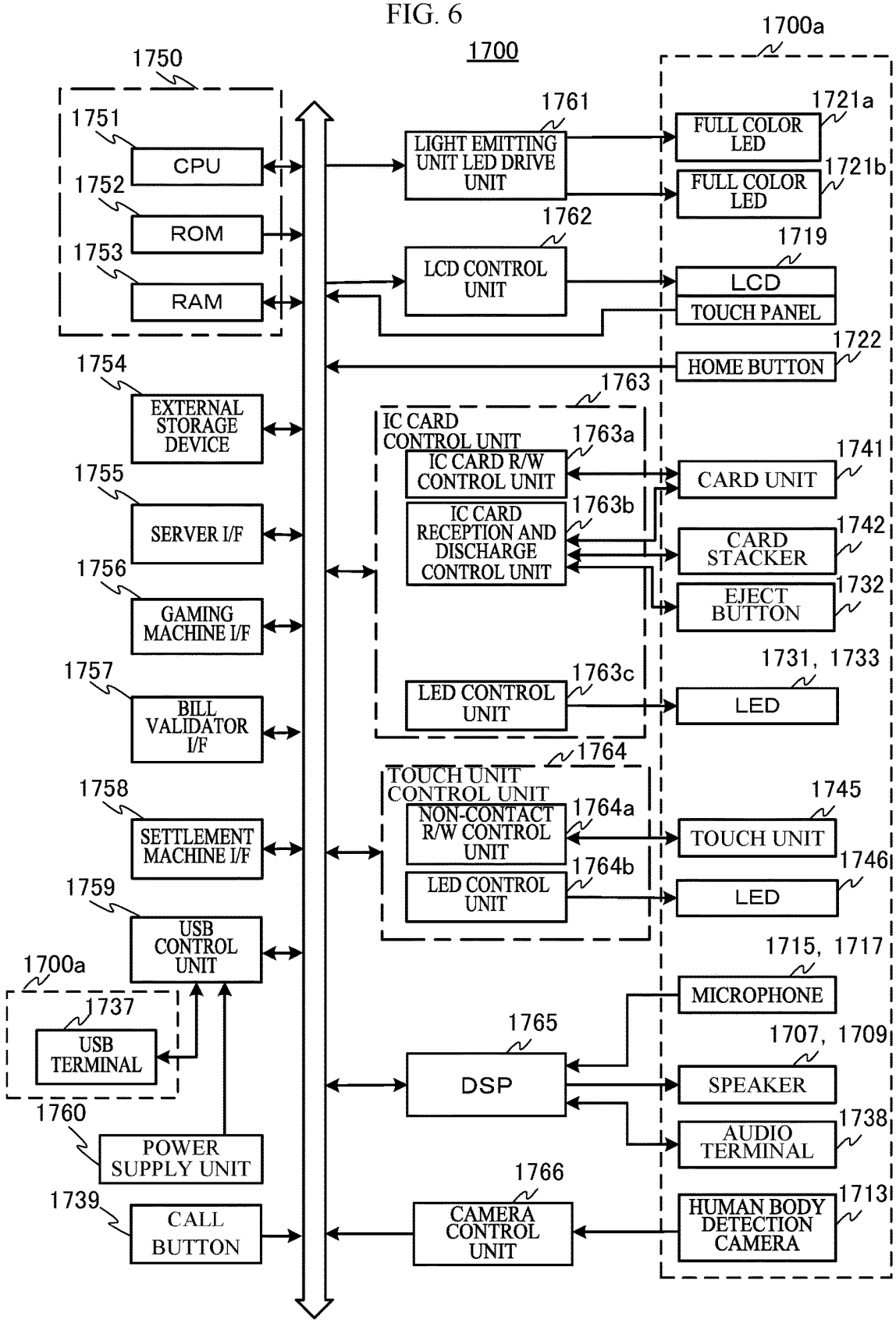

1700
1700a
1750
1751
CPU
1752
ROM
1753
RAM
1754
EXTERNAL STORAGE DEVICE
1755
SERVER I/F
1756
GAMING MACHINE I/F
1757
BILL VALIDATOR I/F
1758
SETTLEMENT MACHINE I/F
1759
USB CONTROL UNIT
1700a
1737
USB TERMINAL
1760
POWER SUPPLY UNIT
1739
CALL BUTTON
1761
LIGHT EMITTING UNIT LED DRIVE UNIT
1762
LCD CONTROL UNIT
1763
IC CARD CONTROL UNIT
1763a
IC CARD R/W CONTROL UNIT
1763b
IC CARD RECEPTION AND DISCHARGE CONTROL UNIT
1763c
LED CONTROL UNIT
1764
TOUCH UNIT CONTROL UNIT
1764a
NON-CONTACT R/W CONTROL UNIT
1764b
LED CONTROL UNIT
1765
DSP
1766
CAMERA CONTROL UNIT
1721a
FULL COLOR LED
1721b
FULL COLOR LED
1719
LCD
TOUCH PANEL
1722
HOME BUTTON
1741
CARD UNIT
1742
CARD STACKER
1732
EJECT BUTTON
1731, 1733
LED
1745
TOUCH UNIT
1746
LED
1715, 1717
MICROPHONE
1707, 1709
SPEAKER
1738
AUDIO TERMINAL
1713
HUMAN BODY DETECTION CAMERA

FIG. 7

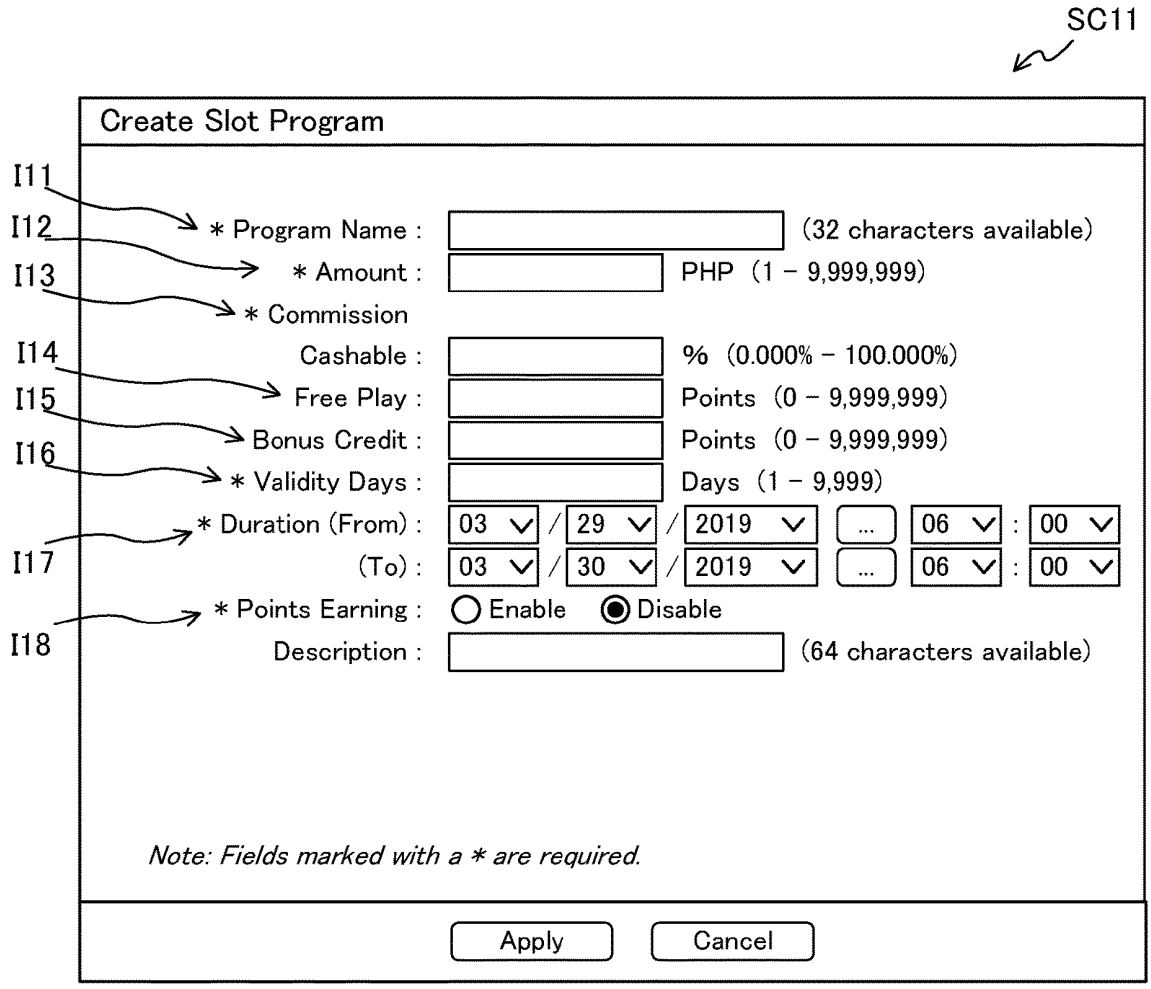

SC11
Create Slot Program
I11
I12
I13
I14
I15
I16
I17
I18
* Program Name :
(32 characters available)
* Amount :
PHP (1 - 9,999,999)
* Commission
Cashable :
% (0.000% - 100.000%)
Free Play :
Points (0 - 9,999,999)
Bonus Credit :
Points (0 - 9,999,999)
* Validity Days :
Days (1 - 9,999)
* Duration (From) :
03 / 29 / 2019 ... 06 : 00
(To) :
03 / 30 / 2019 ... 06 : 00
* Points Earning :
Enable
Disable
Description :
(64 characters available)
Note: Fields marked with a * are required.
Apply
Cancel

FIG. 8

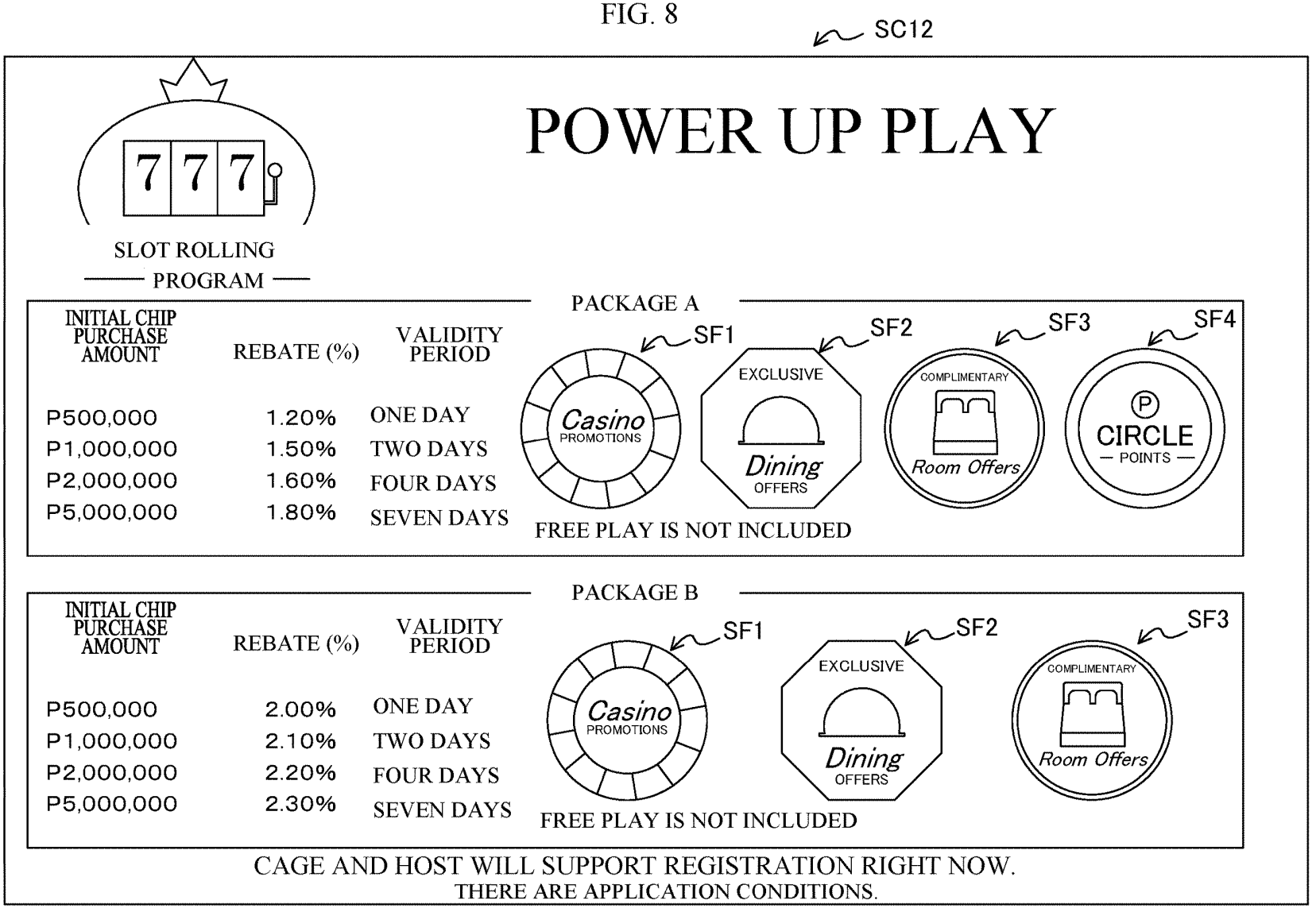

SC12
POWER UP PLAY
7 7 7
SLOT ROLLING
PROGRAM
PACKAGE A
INITIAL CHIP PURCHASE AMOUNT
REBATE (%)
VALIDITY PERIOD
P500,000 1.20% ONE DAY
P1,000,000 1.50% TWO DAYS
P2,000,000 1.60% FOUR DAYS
P5,000,000 1.80% SEVEN DAYS
SF1
Casino PROMOTIONS
SF2
EXCLUSIVE
Dining OFFERS
SF3
COMPLIMENTARY
Room Offers
SF4
CIRCLE
POINTS
FREE PLAY IS NOT INCLUDED
PACKAGE B
INITIAL CHIP PURCHASE AMOUNT
REBATE (%)
VALIDITY PERIOD
P500,000 2.00% ONE DAY
P1,000,000 2.10% TWO DAYS
P2,000,000 2.20% FOUR DAYS
P5,000,000 2.30% SEVEN DAYS
SF1
Casino PROMOTIONS
SF2
EXCLUSIVE
Dining OFFERS
SF3
COMPLIMENTARY
Room Offers
FREE PLAY IS NOT INCLUDED
CAGE AND HOST WILL SUPPORT REGISTRATION RIGHT NOW.
THERE ARE APPLICATION CONDITIONS.

FIG. 9

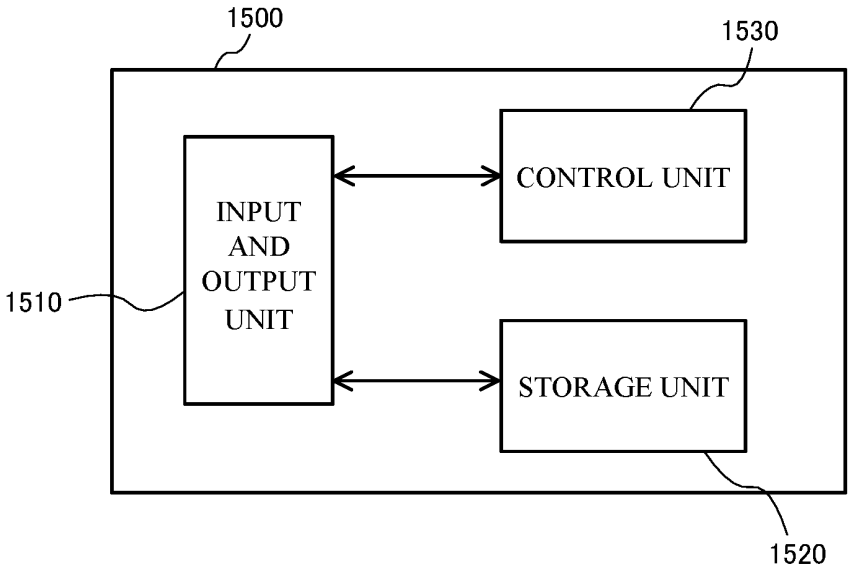
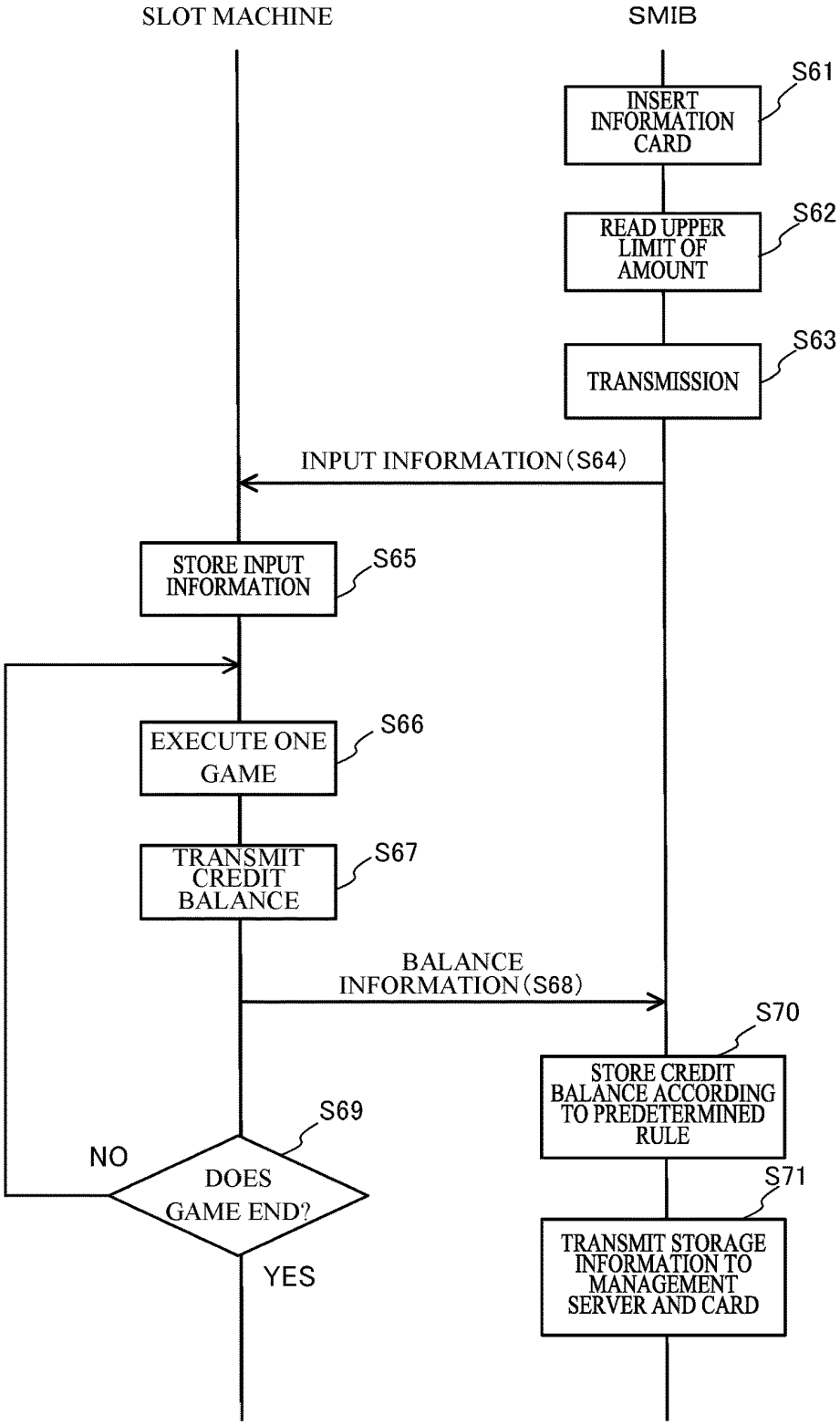

1500
1530
CONTROL UNIT
INPUT AND OUTPUT UNIT
1510
STORAGE UNIT
1520

FIG. 10

1520

	THERE IS RESTRICTION	THERE IS NO RESTRICTION
IN PRINCIPLE, TREATED AS CASH	AR1	AR2
IN PRINCIPLE, NOT TREATED AS CASH	AR3	AR4

FIG. 11


SLOT MACHINE
SMIB
INSERT INFORMATION CARD
S61
READ UPPER LIMIT OF AMOUNT
S62
TRANSMISSION
S63
INPUT INFORMATION (S64)
STORE INPUT INFORMATION
S65
EXECUTE ONE GAME
S66
TRANSMIT CREDIT BALANCE
S67
BALANCE INFORMATION (S68)
S70
STORE CREDIT BALANCE ACCORDING TO PREDETERMINED RULE
S69
NO
DOES GAME END?
YES
S71
TRANSMIT STORAGE INFORMATION TO MANAGEMENT SERVER AND CARD

(SLOT MACHINE No.00001、MEMBER No.00001)

FIG. 12

GAME NUMBER	DEPOSIT (TOTAL / BREAKDOWN) [PHP]	PRIZE (RECEPTION) [PHP]	BET (RECEPTION) [PHP]	BALANCE (RECEPTION) [PHP]	BALANCE BREAKDOWN (CALCULATION) [PHP]	CASHABLE AMOUNT [PHP]	HAND PAY AMOUNT (CALCULATION) [PHP]
1	(1,700,000) V1:1,000,000 V2: 500,000 V3: 100,000 V4: 100,000	—	100,000	1,600,000	V1: 1,000,000 V2: 500,000 V3: 0 V4: 100,000	V1: - V2: 500,000 V3: - V4: -	(1,500,000) V1: 1,000,000 V2: 500,000 V3: - V4: -
2	—	500,000	100,000	2,000,000	V1: 1,000,000 V2: 1,000,000 V3: 0 V4: 0	V1: - V2: 1,000,000 V3: - V4: -	(2,000,000) V1: 1,000,000 V2: 1,000,000 V3: - V4: -
3	—	—	200,000	1,800,000	V1: 800,000 V2: 1,000,000 V3: 0 V4: 0	V1: - V2: 1,000,000 V3: - V4: -	(1,800,000) V1: 800,000 V2: 1,000,000 V3: - V4: -
. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
x	—	1,000,000	100,000	2,200,000	V1: 500,000 V2: 1,700,000 V3: 0 V4: 0	V1: - V2: 1,700,000 V3: - V4: -	(2,200,000) V1: 500,000 V2: 1,700,000 V3: - V4: -

FIG. 13

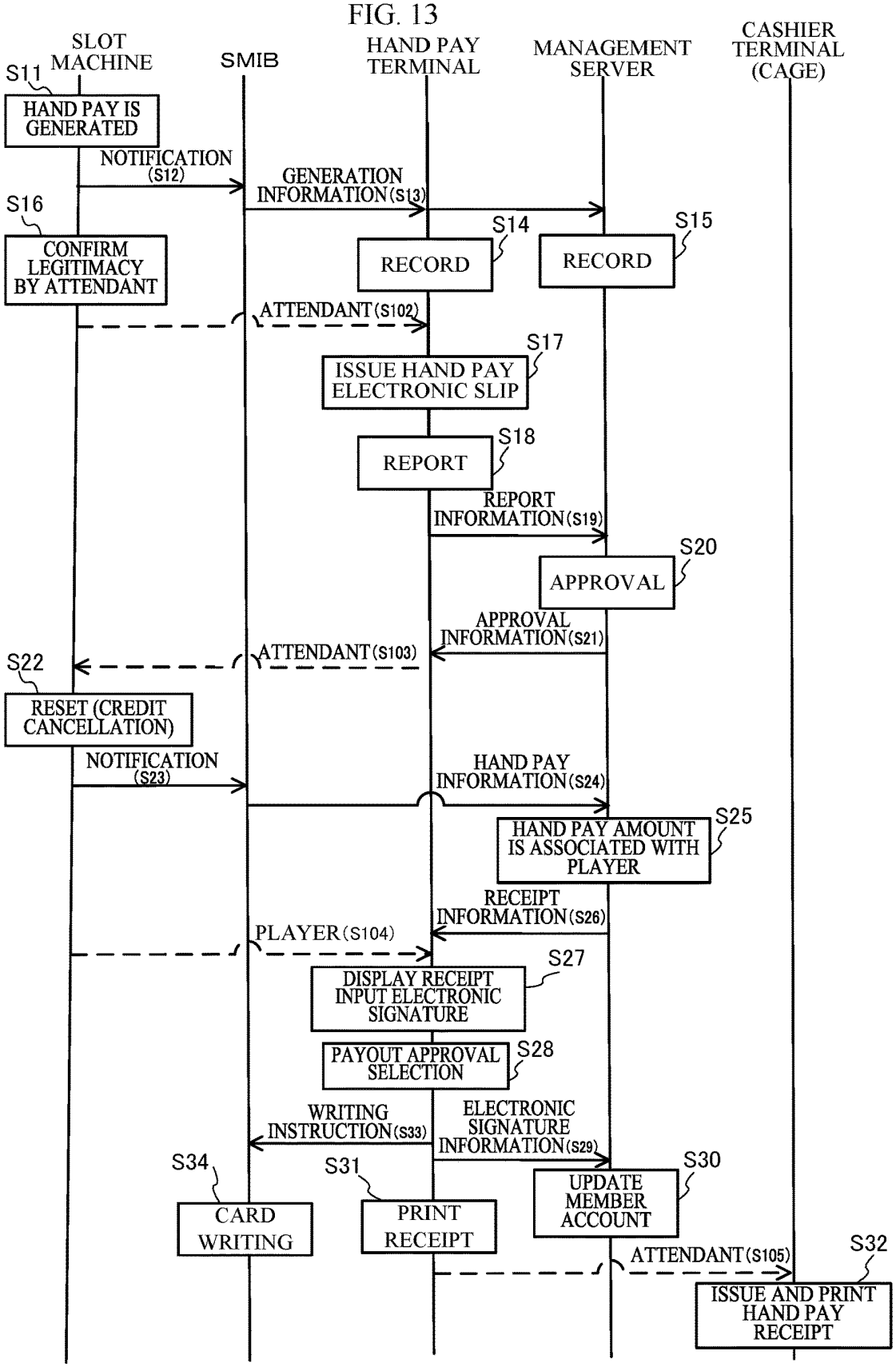

SLOT MACHINE
SMIB
HAND PAY TERMINAL
MANAGEMENT SERVER
CASHIER TERMINAL (CAGE)
S11
HAND PAY IS GENERATED
NOTIFICATION (S12)
GENERATION INFORMATION (S13)
S16
CONFIRM LEGITIMACY BY ATTENDANT
S14
RECORD
S15
RECORD
ATTENDANT (S102)
S17
ISSUE HAND PAY ELECTRONIC SLIP
S18
REPORT
REPORT INFORMATION (S19)
S20
APPROVAL
APPROVAL INFORMATION (S21)
ATTENDANT (S103)
S22
RESET (CREDIT CANCELLATION)
NOTIFICATION (S23)
HAND PAY INFORMATION (S24)
S25
HAND PAY AMOUNT IS ASSOCIATED WITH PLAYER
RECEIPT INFORMATION (S26)
PLAYER (S104)
S27
DISPLAY RECEIPT INPUT ELECTRONIC SIGNATURE
PAYOUT APPROVAL SELECTION
S28
WRITING INSTRUCTION (S33)
ELECTRONIC SIGNATURE INFORMATION (S29)
S34
S31
S30
CARD WRITING
PRINT RECEIPT
UPDATE MEMBER ACCOUNT
ATTENDANT (S105)
S32
ISSUE AND PRINT HAND PAY RECEIPT

FIG. 14

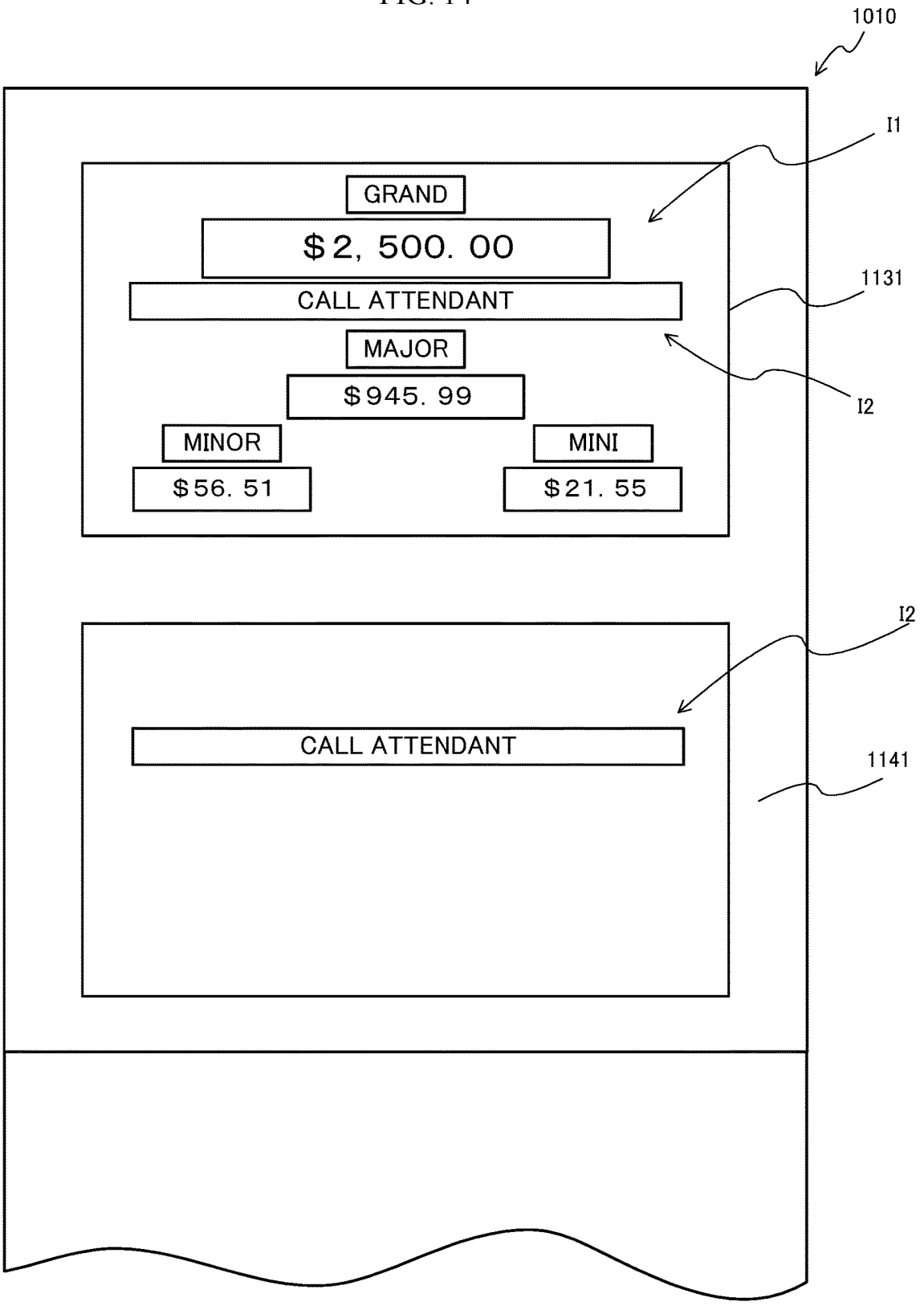
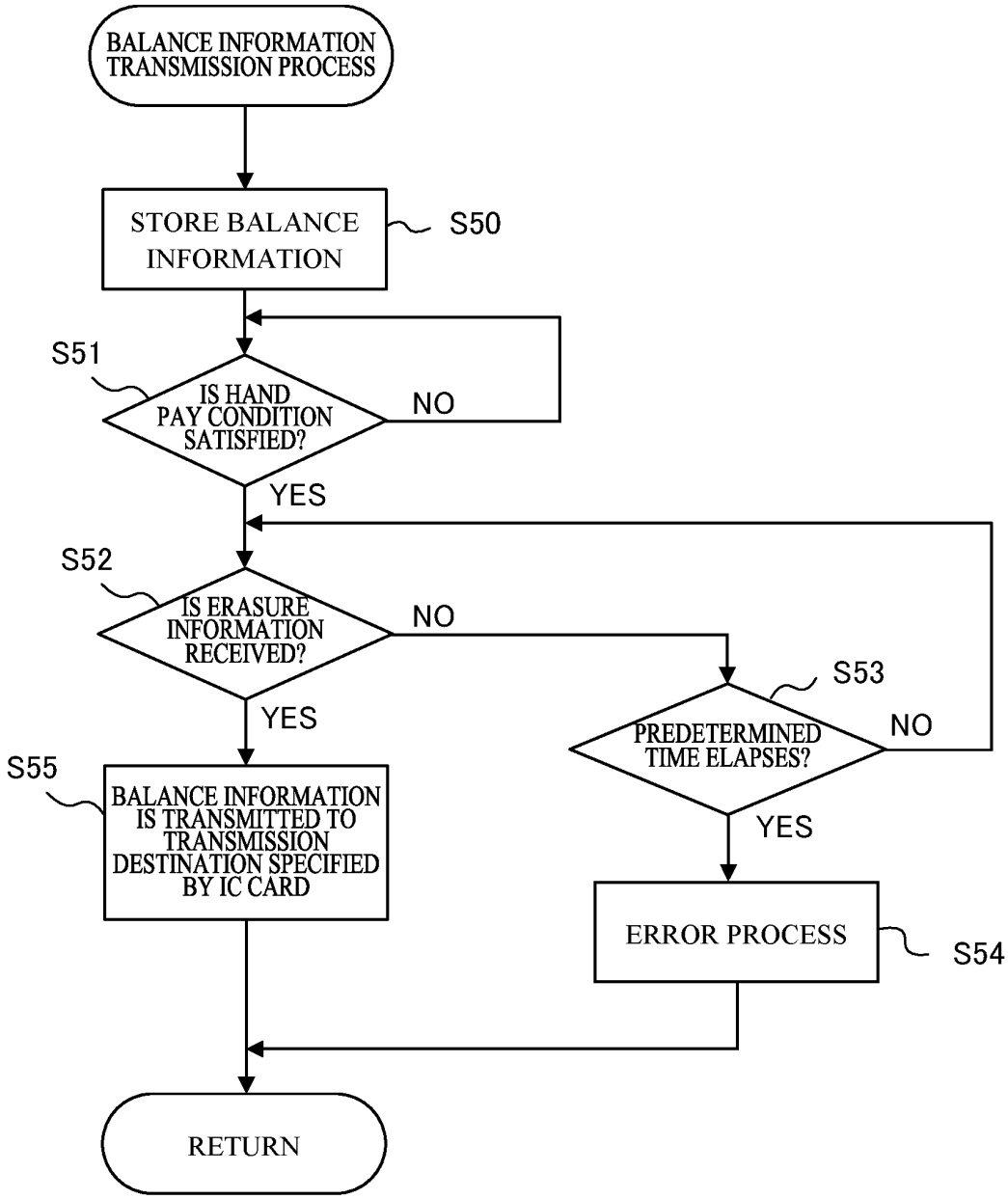

1010
I1
GRAND
$2, 500. 00
CALL ATTENDANT
1131
MAJOR
$945. 99
I2
MINOR
$56. 51
MINI
$21. 55
I2
CALL ATTENDANT
1141

FIG. 15


BALANCE INFORMATION TRANSMISSION PROCESS
STORE BALANCE INFORMATION
S50
S51
IS HAND PAY CONDITION SATISFIED?
NO
YES
S52
IS ERASURE INFORMATION RECEIVED?
NO
YES
S53
PREDETERMINED TIME ELAPSES?
NO
YES
S55
BALANCE INFORMATION IS TRANSMITTED TO TRANSMISSION DESTINATION SPECIFIED BY IC CARD
ERROR PROCESS
S54
RETURN

INFORMATION PROCESSING DEVICE AND PAYOUT MANAGEMENT SYSTEM

TECHNICAL FIELD

The present invention relates to an information processing device provided to be communicable with a gaming machine installed in game facilities such as a casino or the like, and a payout management system including the information processing device.

BACKGROUND ART

Related art discloses a slot machine that displays a plurality of symbols in a stopped state after displaying the plurality of symbols in a scrolled manner, and provides a game value (for example, a coin) based on a combination of the symbols displayed in the stopped state (refer to Patent Literature 1).

Meanwhile, in a casino of related art, when a winning that provides a prize exceeding a maximum amount preset in a slot machine occurs, a player calls an attendant and then the attendant determines a content of the prize and legitimacy thereof by confirming a winning state of the slot machine (for example, a combination of symbols of reels displayed in a stopped state).

When the legitimacy thereof is confirmed, the attendant issues a slip, obtains approval of an administrator, converts the slip into cash at a cash payment office referred to as a so-called cage, hands the cash over to the player, and performs an operation of cancelling a credit of the slot machine.

In this manner, with respect to the payment of a prize exceeding a predetermined amount, the prize amount is paid to the player by a payout method referred to as a so-called hand pay via the attendant.

In addition to the generation of the prize exceeding the predetermined amount, even when a problem occurs in a gaming machine such as a slot machine or the like, cash payment is performed via a credit cancellation operation and issuance of a slip by the attendant.

Here, there are a plurality of types and classifications of credits used in a casino or the like (refer to Patent Literature 2 and FIG. **2**). For example, the credits are roughly divided into "cashable credits" that are treated as having a monetary value and "restricted credits" that are restricted from being treated as having a monetary value, and the credits are further subdivided depending on its characteristic, use, source, or the like.

In the gaming machine such as the slot machine or the like, it is possible to play a game with these credits, but the credits may not be classified into detailed credit categories and may not be handled and managed depending on a manufacturer and a model.

CITATION LIST

Patent Literature

PTL 1: US-A-2012-0115571
PTL 2: US-A-2017-0316647

SUMMARY OF INVENTION

Technical Problem

In related art, for example, at the time of performing a hand pay in which a credit of a gaming machine is cancelled and its payout is made directly to a player, a credit corresponding to "cashable credits" is mainly cancelled. On a gaming machine side, when the credit is cancelled, there are many "cashable credits" that output a total amount of the credits without considering a subclassification of the "cashable credits", such that payment cannot be performed in consideration of the subclassification and thus an operation on a casino side may be hindered.

An object of the present invention is to provide an information processing device and a payout management system capable of performing an appropriate operation in accordance with a classification of a game value such as a credit or the like.

Solution to Problems

An information processing device of the present invention is an information processing device connected to be able to transmit and receive information to and from a gaming machine that can play a game according to an input game value, grant a player a prize according to a result of the game, and store a balance of the game value, the device including:

an information processing unit that is configured to be able to transmit game value information that can be used for the game to an outside in association with registered information; and

an interface that is capable of transmitting and receiving the information to and from the gaming machine, in which the information processing unit distinguishes and manages a plurality of types of game values as the game value information.

According to this configuration, management in accordance with classification of a game value is performed, thereby making it possible to perform an appropriate operation in accordance with the classification of the game value.

In the information processing device of the present invention according to the configuration, when receiving, from the gaming machine, condition satisfaction information indicating that a predetermined condition for granting the prize to the player separately from a process of the gaming machine is satisfied, and receiving, from the gaming machine, erasure information indicating erasure of balance information of the game value stored in the gaming machine, the information processing unit transmits the balance information of the game value to the outside so that the plurality of types of game values can be distinguished.

According to this configuration, in a process such as a hand pay, in which a prize is granted to a player separately from the process of the gaming machine, a plurality of types of game values are transmitted in a distinguishable manner, thereby making it possible to perform an appropriate process in which the plurality of types of game values are distinguished.

The information processing device of the present invention according to the configuration further includes an information medium interface that receives an information media associated with specific information that specifies a player playing a game on the gaming machine, in which the information processing unit transmits the balance information to an account corresponding to the player specified via the received information medium.

According to this configuration, the balance information is transmitted to the player's account associated via the information medium in a distinguishable manner for a plurality of types of game values, thereby making it possible

to more appropriately perform the process of granting the prize to the player separately from the process of the gaming machine.

In the information processing device of the present invention according to the configuration, the plurality of types of game values includes:

- a first game value that can be used for playing the game, and the cash conversion of which is restricted; and
- a second game value that can be directly converted into cash.

According to this configuration, it is possible to distinguish between a game value that can be used for playing the game and the cash conversion of which is restricted and a game value that can be directly converted into cash, and to grant the game value to the player.

A payout management system of the present invention includes:

- an information processing device that is connected to a gaming machine capable of playing a game according to an input game value and capable of storing a balance of the game value, and that can transmit information on the gaming machine to an outside; and an information medium interface that receives an information medium associated with specific information that specifies a player playing a game on the gaming machine, in which
- the information processing device distinguishes and manages a plurality of types of game values as the game value information, and
- when receiving, from the gaming machine, condition satisfaction information indicating that a predetermined condition for granting the prize to the player separately from a process of the gaming machine is satisfied, and receiving, from the gaming machine, erasure information indicating erasure of balance information of the game value stored in the gaming machine, the information processing device transmits the balance information of the game value by distinguishing the plurality of types of game values to an account corresponding to the player specified via the information medium received by the information medium interface.

According to this configuration, balance information of a game value can be associated with a player in a distinguishable manner for each of the plurality of types of game values, such that instead of performing a method of related art in which an attendant hands cash over to the player, it is possible to make payout to the player based on the balance information that can grasp a breakdown of the plurality of types of game values. Accordingly, a hand pay process can be performed smoothly and appropriately.

According to this configuration, processing time can be shortened as compared with a case in which payout to a player is made in cash.

According to this configuration, since cash payments and receipts are eliminated, it is possible to prevent occurrence of a human error related to cash handling.

According to this configuration, it is possible to prevent a fraudulent behavior by an attendant when the attendant hands cash over to a player.

According to this configuration, it is possible to avoid a troublesome labor that a player manually counts cash.

Advantageous Effects of Invention

According to the present invention, it is possible to provide an information processing device and a payout management system capable of performing an appropriate operation in accordance with a classification of a game value such as a credit or the like.

BRIEF DESCRIPTION OF DRAWINGS

FIG. **1** is a diagram illustrating an overall configuration of a casino system according to an embodiment of the present invention;

FIG. **2** is a block diagram illustrating a configuration of a management server of the casino system according to the embodiment of the present invention;

FIG. **3** is a perspective view illustrating a configuration of a slot machine according to an embodiment of the present invention;

FIG. **4** is a perspective view illustrating an SMIB device (an information processing device) incorporated in the slot machine according to the embodiment of the present invention;

FIG. **5** is a block diagram illustrating an internal configuration of the slot machine according to the embodiment of the present invention;

FIG. **6** is a block diagram illustrating a configuration of the SMIB device (the information processing device) according to the embodiment of the present invention;

FIG. **7** is a schematic diagram illustrating an input item displayed on a display screen of a reception terminal device at the time of purchasing participation right of a rolling program of the reception terminal device according to an embodiment of the present invention;

FIG. **8** is a schematic diagram illustrating an introduction screen displayed on the display screen of the reception terminal device at the time of purchasing the participation right of the rolling program of the reception terminal device according to the embodiment of the present invention;

FIG. **9** is a block diagram illustrating a configuration of an IC card according to an embodiment of the present invention;

FIG. **10** is a conceptual diagram illustrating an area for storing four types of game value information by type provided in a storage unit of the IC card according to the embodiment of the present invention;

FIG. **11** is a flowchart illustrating a transmission process of balance information in the slot machine and the SMIB device according to the embodiment of the present invention;

FIG. **12** is a diagram illustrating balance information stored in an SMIB device **1700** according to the embodiment of the present invention and a breakdown thereof;

FIG. **13** is a flowchart illustrating a payout process at the time of generation of a hand pay according to an embodiment of the present invention;

FIG. **14** is a schematic diagram illustrating a display example in the slot machine at the time of the generation of the hand pay according to the embodiment of the present invention; and

FIG. **15** is a flowchart illustrating a balance transmission process by the SMIB device.

DESCRIPTION OF EMBODIMENTS

[Overall Configuration]

FIG. **1** is a block diagram illustrating a casino system **100** including a payout management system according to an embodiment of the present invention. As illustrated in FIG. **1**, the casino system **100** includes, for example, a plurality of gaming machines installed in a game facility such as a

casino or the like (for example, slot machines **1010**A, **1010**B, . . .) and a management server **500** connected thereto such that communication therebetween can be bidirectionally performed.

A reception terminal device **200** provided at a reception counter **201** is connected to the management server **500**, and a membership number is registered in a database of the management server **500** via the reception terminal device **200**, such that a member account corresponding to the membership number can be opened on the database. At the reception counter **201**, the membership number registered in the management server **500** is stored in a newly issued member information card (an IC card **1500**) and the member information card is handed over to a player registered as a member. When member registration is performed, a player who intends to be registered as a member fills out member information (for example, a name, an address, a telephone number, a nationality, a passport number, personal identification information that is issued by a government or the like and identifies an individual, and bank account information of a member and its password as necessary) on a predetermined form at the reception counter **201** and submits the predetermined form thereat. An attendant at the reception counter **201** registers a content described in the submitted form in the database of the management server **500** by inputting the content together with the newly issued membership number via the reception terminal device **200**. Accordingly, the input member information is registered in the database thereof in association with the membership number.

Credit data stored in the member account is used when the member plays a game on the slot machines **1010**A, **1010**B, . . . (hereinafter, simply referred to as a slot machine **1010**), and credit data of an amount corresponding to a prize generated in the slot machine **1010** as a result of the game is configured to be added to credit data of a corresponding member account on the database. As a method for inputting the credit data to the member account, in addition to an input method in which cash is paid at the reception counter **201** and a reception attendant operates the reception terminal device **200** to input the cash, it is also possible to use an input method associated with a credit card of a bank, that is, a method for transmitting cash data from a bank account of the member to the member account of the management server **500**. The slot machine **1010** includes a cash input unit, and a player can also play a game by directly inserting cash into the slot machine **1010**.

In this manner, the IC card **1500** (the member information card) provided with the membership number is issued at the reception counter **201**, and is used when a player registered as a member plays a game on the slot machine **1010**. In the database of the management server **500**, the credit data is stored in association with the membership number (and a card number), and the IC card **1500** (the member information card and a non-member information card) also stores data representing a credit balance of the member (a non-member). The credit data stored on the IC card **1500** side is backup data used in an emergency such as when a system failure occurs.

The management server **500** is connected to a cashier terminal device **400** of a cashier **401** referred to as a cage for performing cash conversion based on the IC card **1500** (the member information card and the non-member information card). When a player who plays a game by using the IC card **1500** as the member information card ends the game, information such as a credit balance of a member account specified by the IC card **1500** is updated by a game termination process executed in the slot machine **1010**.

Accordingly, after the game termination process is performed in the slot machine **1010**, the player inserts the IC card **1500** into a card reading device of the cashier terminal device **400**, such that a balance of the member account of the player associated with the membership number stored in the IC card **1500** is paid out to the member player.

In the slot machine **1010** (a slot machine interface board (SMIB) device **1700**), an amount of a prize generated when a game is played by directly inserting cash without using the IC card **1500** and a remaining balance after a BET are associated with the card number of the new IC card **1500** (the non-member information card) stocked in advance in the slot machine **1010** (the SMIB device **1700**), thereby issuing the IC card **1500**.

When the non-member information card is issued in the slot machine **1010**, the SMIB device **1700** of the slot machine **1010** transmits, to the management server **500**, a fact that the non-member information card is issued together with the card number of the non-member information card (the IC card **1500**) to be issued. By receiving these pieces of information, the management server **500** opens a non-member account associated with the card number on the database of the management server **500**. Prize money given to a player as a result of the game in the slot machine **1010** and a remaining amount of an input amount after a BET are stored in the non-member account on the management server **500** opened in association with the card number of the non-member information card to be newly issued, and are also stored in the non-member information card to be issued for backup. The player inserts the non-member information card (the IC card **1500**) newly issued in the slot machine **1010** (for example, the slot machine **1010**A in FIG. **1**) to other slot machines (the slot machines **1010**B, **1010**C, . . . in FIG. **1**), and uses the number of credits corresponding to balance information associated with the non-member information card in the management server **500** and stored in the non-member information card for backup, thereby making it possible to play a new game.

A hand pay terminal device **600** is connected to the management server **500**. The hand pay terminal device **600** is a terminal operated by an attendant during a hand pay process which will be described later. In the slot machine **1010**, when a prize exceeding a preset amount is generated and when a device malfunction occurs, a player calls an attendant to perform a hand pay process.

Specifically, for example, when a prize exceeding a preset amount is generated as a result of a game executed in the slot machine **1010**, a display showing the generation of the prize and urging a player to call an attendant is performed on a display unit (described later) of the slot machine **1010**.

When a player operates a call button **1739** (FIGS. **4** and **6**) provided in the SAM device **1700** to call an attendant, the attendant operates a reset key switch **1019** (FIG. **3**) provided in the slot machine **1010** by using a predetermined key, such that the credit data (the balance information) of the player stored in the slot machine **1010** is transmitted to the management server **500** and added to an account of the player. Details of the hand pay process will be described later.

FIG. **2** is a block diagram illustrating a configuration of the management server **500**. As illustrated in FIG. **2**, in the management server **500**, a central processing unit (CPU) **551**, a read only memory (ROM) **552**, a random access memory (RAM) **553**, a gaming machine I/F **556**, a database **560**, and an I/F **561** are configured to be connected to a bus, and a liquid crystal display (LCD) **562**, a keyboard **563**, and

a mouse **564** are configured to be connected thereto via the I/F **561**. The database **560** stores an information card number of a member information card, a membership number of a member, member information, balance information (credit data) and game history information associated with the member information card, an information card number of a non-member information card issued to a non-member, and balance information (credit data) and game history information associated with the information card number.

[Overall Configuration of Slot Machine]

Next, an overall configuration of the slot machines **1010**A, **1010**B, . . . (hereinafter referred to as the slot machine **1010**) will be described with reference to FIG. **3**.

In the slot machine **1010**, a member information card (the IC card **1500**), a non-member information card (the IC card **1500**), a banknote, or electronic valuable information equivalent to these game values are used as a game medium. Particularly, in the embodiment, credit-related data such as cash data or the like stored in the member information card or the non-member information card (hereinafter, referred to as the IC card **1500**) is used.

The slot machine **1010** includes a cabinet **1011**, a top box **1012** installed on an upper side of the cabinet **1011**, a main door **1013** provided on a front surface of the cabinet **1011**.

The main door **1013** includes a symbol display device **1016** referred to as a lower image display panel **1141**. The symbol display device **1016** is formed of a transparent liquid crystal panel. A screen displayed by the symbol display device **1016** includes a display window **1150** in the center thereof. The display window **1150** is formed of 20 pieces of display blocks **1028** in five columns and four rows. The four pieces of display blocks **1028** in each column form pseudo reels **1151** to **1155** and are configured to be rotated in response to an operation of a player. Each of the pseudo reels **1151** to **1155** can be rearranged in such a manner that the four pieces of display blocks **1028** are moved and displayed in a downward direction while changing a speed as a whole such that a symbol displayed on each of the display blocks **1028** is rotated in a vertical direction and then is stopped.

Here, the "rearrangement" indicates a state in which the symbols are arranged again after arrangement of the symbols is released. The "arrangement" indicates that the symbols are in a state of being visually confirmable by a player outside. The slot machine **1010** executes a so-called slot game in which a dividend corresponding to a winning combination is provided depending on the arrangement state of the symbols based upon the stop state of the rotating pseudo reels **1151** to **1155**.

The embodiment describes a case in which the slot machine **1010** is a so-called video slot machine, and the slot machine **1010** of the present invention may adopt a so-called mechanical reel, or some of the pseudo reels **1151** to **1155** may be replaced by the mechanical reel.

A touch panel **1069** is provided on a front surface of the symbol display device **1016**, and a player can input various instructions by operating the touch panel **1069**. An input signal is transmitted from the touch panel **1069** to a main CPU **1071**.

An upper image display panel **1131** is provided on a front surface of the top box **1012**. The upper image display panel **1131** is formed of a liquid crystal panel and forms a display. The upper image display panel **1131** displays an image related to a performance, and an image indicating an introduction of a content of a game and a description of a rule thereof. The top box **1012** is provided with a lamp **1111**.

A number-of-credits display unit (not illustrated) is displayed at an upper part of the display window **1150**, and the current number of credits is displayed thereon. Here, the "credit" is a virtual game medium on a game used when a player makes a BET. A total number of credits currently owned by the player is configured to be displayed on the number-of-credits display unit.

A fractional cash display unit (not illustrated) is displayed at a lower part of the number-of-credits display unit. The fractional cash display unit displays fractional cash. The "fractional cash" indicates cash that is not converted into credit because an inserted amount of money is not sufficient.

A reset key switch **1019** is provided on a side surface of the cabinet **1011**. A predetermined key is inserted into the reset key switch **1019** and the predetermined key is turned, such that the reset key switch **1019** can cause a game controller **70** to output an operation signal of the reset key switch **1019**.

The IC card **1500** is inserted into the SMIB device **1700** which will be described later, and the number of credits stored in the IC card **1500** is displayed on the number-of-credits display unit. These numerical values are stored in the management server **500** in association with an identification code of the member card.

The SMIB device **1700** is incorporated in the cabinet **1011** at a lower part of the lower image display panel **1141**. Speakers **1112** are respectively provided on the left and right sides of the SMIB device **1700**, and the lamp **1111** is provided on an upper part of the top box **1012**. In the slot machine **1010**, performance of a unit game is executed by displaying an image on the upper image display panel **1131**, outputting a sound by the speaker **1112**, outputting light by the lamp **1111**, or the like. The SAM device **1700** is provided incidentally or inherently in the slot machine **1010**. A control panel **1030** including various operation buttons operated by the player is provided at a lower part of the SAM device **1700**.

[Configuration of SAM Device]

FIG. **4** is a diagram illustrating a structural unit **1770***a* including an LCD **1719** provided on a surface of a panel **1710**, a card unit **1741** provided on a back side of the panel **1710**, or the like in the SMIB device **1700** (FIG. **3**) incorporated in the slot machine **1010**. The SAM device **1700** can be incorporated into various types of gaming machines from various manufacturers by performing data exchange between gaming machines by using a common data interface.

The SMIB device **1700** includes the panel **1710**, each unit disposed on a front surface of the panel **1710** is visually recognized by a player, and a member disposed on a back surface of the panel **1710** is housed inside the slot machine **1010** such that the member cannot be seen by the player.

The LCD **1719** having a touch panel function is provided on a right side of the front surface of the panel **1710**. The LCD **1719** displays, for example, information on the member and information for the member, and a screen size is 6.2 inches (about 15.7 cm). An LCD cover **1719***a* is provided around a periphery of the LCD **1719**. In this example, the LCD **1719** is configured to have the touch panel function, and an instruction of the player may be input by another input device such as a keyboard and a mouse.

A full color LED **1721***a* and a full color LED **1721***b* (FIG. **6**) are configured to be capable of performing light emission contributing to a warning of a fraudulent behavior.

An image capturing window **1712** is provided on a right side of the LCD **1719**, and a human body detection camera disposed inside the LCD cover **1719***a* captures an image of the player or the like through the image capturing window **1712**. The image capturing window **1712** may be, for

example, a half mirror material to which a shield process such as smoke or the like is applied.

A card insertion slot **1730** into and from which the IC card **1500** can be inserted and removed is provided at a lower left side of the front surface of the panel **1710**. A card insertion unit of the card insertion slot **1730** is provided with a full color LED **1731** (refer to FIG. **5**), and it is possible to notify the remaining number of IC cards **1500** collected and stacked in a card stacker **1742** which will be described later by lighting the full color LED **1731** with a plurality of colors. The card insertion slot **1730** includes an eject button **1732**, and a red LED **1733** (refer to FIG. **5**) provided near the eject button **1732** is configured to be turned on so that a position of the eject button **1732** and a process of an eject operation can be understood.

The card unit **1741** and the card stacker **1742** are provided at a position on the back side of the panel **1710** corresponding to the card insertion slot **1730**, and the card insertion slot **1730** is configured as a part of the card unit **1741**. About 30 pieces of IC cards **1500** can be stored in the card stacker **1742**, and when a non-member player who newly plays a unit game performs settlement of a credit, the IC card **1500** stored in the card stacker **1742** is taken out and discharged to the card insertion slot **1730** as a non-member information card. That is, when the game is played with a currency inserted into a bill entry **60** without inserting the IC card **1500** from the card insertion slot **1730**, the IC card **1500** is discharged from the card insertion slot **1730** as the non-member information card in a state of being not associated with personal information of a member database.

On the other hand, when the member information card (the IC card **1500**) associated with the personal information of the player in advance is inserted into the card insertion slot **1730**, or when the non-member information card (the IC card **1500**) that is not associated with the personal information is inserted into the card insertion slot **1730**, the inserted IC card **1500** is retained in the card unit **1741**, and information such as balance information which is a result of the game in the slot machine **1010** is written to the IC card **1500** retained therein when the card is discharged.

The member information card or the non-member information card (the IC card **1500**) retained in the card unit **1741** updates credit information (storage information in first to fourth storage areas) by NFC or the like at the time of the settlement of the credit when a CASHOUT button is operated, and then the IC card **1500** is discharged from the card insertion slot **1730**. The IC card **1500** is completely stored inside the card unit **1741** while the player plays the unit game.

When absence of the player is detected by the human body detection camera or the like even though the IC card **1500** remains at the time of the settlement of the credit, the IC card **1500** can also be configured to be stored in the card stacker **1742**. Accordingly, for example, when the IC card **1500** is left behind and the player leaves his or her seat in a state where the player knows that the remaining credit is low, and even when the player simply forgets to take the IC card **1500** and leaves his or her seat, the IC card **1500** does not remain retained in the card unit **1741** for a long time.

A USB terminal **1737** and an audio terminal **1738** are provided on an upper left side of the front surface of the panel **1710**. The USB terminal **1737** is configured to perform charging or the like by connecting a USB device to the USB terminal **1737**. The audio terminal **1738** is, for example, a four-pole terminal, and a headset is inserted thereinto, such that a user can talk to the other party with a headphone and a microphone. The audio terminal **1738** can be configured as a two-pole or a three-pole terminal such that the user also can listen to a voice with the headphone.

A touch unit **1745** is provided on the front surface of the panel **1710** and on the left side of the LCD **1719**. The touch unit **1745** includes, as an information medium, a writer that writes data by data communication with respect to an IC device including an IC chip (for example, a non-contact IC card, and a mobile phone, a smart phone, or the like provided with a communication function by NFC); and a radio frequency identification (RFID) module that can function as a reader that reads the data from the IC device by the data communication. LEDs **1746** (not illustrated) are respectively disposed at four corners of a front surface of the touch unit **1745**. In addition to the touch unit **1745**, or in place of the touch unit **1745**, an information recording medium reading device for reading information stored in an information recording medium such as a magnetic card may be provided. In this case, the magnetic card can be used as the member card instead of the IC card **1500**.

As described above, in the SMIB device **1700** according to the embodiment of the present invention, various devices having a microphone function, a camera function, a speaker function, a display function, or the like are integrated to form one unit, thereby achieving space saving. Accordingly, for example, when the LCD is directed toward the player in a state where each of the functions is installed as a single part, there is no inconvenience that the speaker cannot be installed toward the player.

In the SMIB device **1700** according to the embodiment of the present invention, when the IC card **1500** is inserted into the card insertion slot **1730**, the content of the IC card **1500** is configured to be read by the card unit **1741** and the entire IC card **1500** is configured to be taken in and retained (inside the SMIB device **1700**). In addition thereto, the touch unit **1745** is provided, thereby making it possible to further perform the data communication with another IC card, the mobile phone, and the smart phone.

[Internal Configuration Provided in Slot Machine]

Next, an internal configuration of the slot machine **1010** and the control panel **1030** provided in the slot machine **1010** will be described with reference to FIG. **5**.

A game controller **70** is provided on a circuit substrate for a game inside the slot machine **1010**. A display controller **170** is provided on a circuit substrate for a control panel different from the circuit substrate for the game of the game controller **70** inside the control panel. The game controller **70** and the display controller **170** respectively include: a central processing unit (CPU) provided on the circuit substrate for the game and the circuit substrate for the control panel; an electrically erasable and programmable read only memory (EEPROM) for storing programs executed by the CPU and data used for these programs in a rewritable manner; and a random access memory (RAM) for temporarily storing data when the program is executed. The game controller **70** and the display controller **170** are configured in cooperation with these hardware and software in the storage device described above. The display controller **170** is not limited to being provided separately from the game controller **70**, and the game controller **70** may have the function of the display controller **170**.

For example, the storage device of the game controller **70** stores the data and the programs used when the CPU operates. For example, when the above-described game program, a game system program, and an authentication program are taken in from an external storage device, the game controller **70** can store these programs. The storage device of the game controller **70** is provided with a work

area used when the program is executed. For example, an area for storing the number of times of playing a game, the number of BETs, the number of payouts, the number of credits, or the like, and an area for storing symbols (code numbers) determined by lottery are provided.

As described above, the game controller **70** executes the game and controls the symbol display device **1016** so as to rearrange the symbols corresponding to the game. As described above, the game controller **70** validates a valid line of the number corresponding to a credit button (not illustrated) that receives an input in a display frame of three rows and five columns formed of a plurality of blocks, and when the same type of symbols of a predetermined number or more are rearranged in the validated valid line, a line dividend corresponding to the type of symbols is granted. That is, the game controller **70** is configured to control the slot machine by causing the CPU to execute the game program and the game system program in the storage device. The display controller **170** includes a graphic board and displays a BET amount required for a display device (not illustrated) of the credit button.

The control panel **1030** includes a CHANGE switch **31**S, a CASHOUT switch **32**S, a BET switch **34**S, a credit switch **40**S, a spin switch **46**S, and a denomination changeover switch **47**S corresponding to the above-described respective buttons. Each switch detects that the corresponding button is pressed by a player and outputs a signal to the game controller **70** and the display controller **170**. The game controller **70** controls the BET based on the signals from the respective switches. The display controller **170** transmits the signals from the respective switches to the game controller **70**, and the game controller **70** determines, based on the signals, contents to be displayed on the display device provided with the button, and transmits a determination result to the display controller **170**, such that the contents are displayed on the respective buttons.

The game controller **70** is connected to a graphic board **130**, a power supply unit **81**, and a communication interface **82** in addition to the speaker, the touch panel, or the like.

The graphic board **130** controls, based upon a control signal output from the game controller **70**, the display of the images respectively performed by the upper image display panel **1131** and the lower image display panel **1141**. The graphic board **130** includes a VDP for generating image data, a video RAM for storing the image data generated by the VDP, or the like.

The graphic board **130** includes the video display processor (VDP) for generating the image data based upon the control signal output from the game controller **70** and the video RAM for temporarily storing the image data generated by the VDP. The image data used when generating the image data by the VDP is stored in the game program of the storage device. The graphic board **130** has a function of outputting operation results of various touch icons provided on the lower image display panel **141** to the game controller **70**.

The communication interface **82** is a unit for performing communication with the SMIB device **1700** and an external control device. When receiving an input signal from the bill entry **60**, the SMIB device **1700** transmits input currency information in the input signal to the game controller **70** via the communication interface **82**. When the IC card is inserted into the card insertion slot, the SMIB device **1700** transmits the balance information stored in the IC card to the game controller **70** via the communication interface **82**. The SMIB device **1700** writes credit data to the IC card inserted into the card insertion slot based upon the control signal received from the game controller **70** via the communication interface **82**.

An amount meter **1180** is connected to the game controller **70**. The amount meter **1180** stores an integrated value of a BET game value (cash, a first game value, and a second game value) after each game and an integrated value of a prize amount at the time of each game, and, as necessary, can transmit the stored integrated values to the SMIB device **1700** and other devices via the communication interface **82**. The amount meter **1180** also stores an amount of a game value canceled by an operation of the reset key switch **1019** and transmits the amount thereof to the SMIB device **1700** via the communication interface **82**.

The game controller **70** can transmit a signal to the display controller **170** by using a well-known communication protocol and communication connection. For example, the game controller **70** transmits, to the display controller **170**, a signal indicating whether or not a current state is a reception permission state of various buttons.

In the game controller **70**, credit data input by a player can be stored in, for example, an internal RAM, and the credit data can be input to a game play by a BET operation of the player. The credit data stored in the RAM increases or decreases depending on a result of the game.

When the player operates the CASHOUT button provided on the slot machine **1010** after the game, the game controller **70** transmits, to the SMIB device **1700**, payout information including information representing a credit balance stored in the RAM at this time (information representing a payout amount).

The SMIB device **1700** receiving the payout information transmits the payout information to the management server **500**, and stores the payout information in a member account (or a non-member account) in association with the player (a member or a non-member), thereby updating the member account.

In this manner, in a normal payout process, the credit balance is transmitted to the management server **500** as the payout information, and the member (or the non-member) account is updated.

On the other hand, as a result of a game of a gaming machine, when a prize amount exceeding a preset amount is generated, or when malfunction occurs in the gaming machine, an attendant inserts a predetermined key into the reset key switch **1019** of the slot machine **1010** and turns the predetermined key, such that the operation result is input to the game controller **70**. The game controller **70** forcibly pays out the credit balance stored in the RAM of the game controller **70** at this time, and performs a process of erasing the forcibly paid out credit balance from the RAM.

When the reset key switch **1019** is operated, the credit balance is once stored in the RAM **1753** (FIG. **6**) of the SMIB device **1700**, and then the credit balance is transmitted to the management server **500** together with information identifying the player playing the game at this time. When a player inserts the member information card (the IC card **1500**) into the gaming machine **1010** (the SMIB device **1700**) and plays a game, member information read from the member information card is used as the information for identifying the player. This member information is read from the member information card (the IC card **1500**) inserted into the card unit **1741** and stored in the RAM **1753**.

[Internal Configuration of SMIB Device]

Next, a configuration of a circuit provided in the SMIB device **1700** will be described with reference to FIG. **6**. In

FIG. **6**, a structure unit **1700***a* of the SMIB device **1700** illustrated in FIG. **4** is shown by being surrounded by a broken line.

An SMIB controller **1750** that controls the SMIB device **1700** includes a CPU **1751**, a ROM **1752**, and a RAM **1753**.

The CPU **1751** performs execution control of each component of the SMIB device **1700**, and executes or computes various programs stored in the ROM **1752**. For example, the CPU **1751** executes a credit update program to update credit related data stored in the IC card **1500**.

The ROM **1752** is formed of a memory device such as a flash memory or the like, and stores permanent data to be executed by the CPU **1751**. For example, the ROM **1752** stores the credit update program that rewrites the credit related data stored in the IC card **1500**, an interlocking performance control program to be executed in response to a request from a bonus server (not illustrated), and a program to be executed in response to a request from the management server **500**.

The RAM **1753** temporarily stores data necessary when various programs stored in the ROM **1752** are executed.

An external storage device **1754** is, for example, a storage device such as a hard disk device, and stores a program to be executed by the CPU **1751** and data used by the program to be executed by the CPU **1751**.

A server interface (I/F) **1755** implements data communication between a server such as the management server **500** or the like and the SMIB device **1700**. A gaming machine interface (I/F) **1756** implements data communication between the game controller **70** of the slot machine **1010** and the SMIB device **1700**, and a prescribed protocol may be used for the data communication therebetween.

The SMIB device **1700** is connected to the bill entry **60** via a bill validator interface (I/F) **1757** and connected to a settlement machine (not illustrated) via a settlement machine interface (I/F) **1758**, and can transmit and receive data as necessary.

A USB control unit **1759** determines whether to supply power from a power supply unit **1760** to the USB terminal **1737** and can charge the USB terminal **1737** when a predetermined condition is satisfied. A player can charge an electronic device by connecting the electronic device to the USB terminal **1737** when the predetermined condition is satisfied.

In order to cause a light emitting plate **1720***a* on an upper side of the LCD **1719** to emit light in response to a report request from the management server **500**, an interlocking performance start request from the bonus server (not illustrated), or the like, a light emitting unit LED drive unit **1761** controls the full color LED **1721***a* to be turned on at a predetermined timing, and in order to cause a light emitting plate on a lower side of the LCD **1719** to emit light, the light emitting unit LED drive unit **1761** controls the full color LED **1721***b* to be turned on at a predetermined timing.

An LCD control unit **1762** performs control so that information contributing to a fraudulent behavior such as money laundering, member information, information for a member, or the like are displayed on the LCD **1719**, and data read from the IC card **1500** and data input by a player are displayed. The LCD **1719** has a touch panel function, and when the touch panel is operated by the player, a predetermined signal is transmitted to the CPU **1751**.

A home button **1722** is provided near the LCD **1719** and is a button for shifting a screen displayed on the LCD **1719** to a predetermined higher-level screen. When the home button **1722** is pressed by a player, an operation of the player is transmitted to the CPU **1751**, and the CPU **1751** transmits a command to the LCD control unit **1762** so as to update the display of the LCD **1719** in response to the operation.

An IC card control unit **1763** controls insertion and discharge of the IC card **1500**, and writing of the credit data. The IC card control unit **1763** includes an IC card reader and writer (R/W) control unit **1763***a*, an IC card reception and discharge control unit **1763***b*, and an LED control unit **1763***c*. The IC card **1500** can use a so-called contact type card including a module terminal that makes contact with the IC card reader and writer (R/W), and a so-called non-contact type card including an antenna that transmits and receives information in a non-contact manner with the IC card reader and writer (R/W). The IC card reader and writer (R/W) can also adopt a configuration corresponding thereto.

The IC card R/W control unit **1763***a* controls the card unit **1741**, thereby updating credit related data (game value information) stored in the IC card **1500**. When the IC card **1500** is newly issued, the credit related data corresponding to a settled amount is stored therein. The card unit **1741** includes an antenna unit for reading or writing data from or to the IC card **1500** by NFC or the like.

The card unit **1741** has a function of an IC card reader for reading the information stored in the IC card **1500** and a function of an IC card writer for writing the information to the IC card **1500**, and may have any one of the above-described functions as necessary.

The IC card reception and discharge control unit **1763***b* controls reception and discharge of the IC card **1500**. When the IC card **1500** is inserted into the card insertion slot **1730** by a player, the IC card is controlled to be retained in the card unit **1741** while the player executes a game. After the credit related data is written to the IC card **1500** at the time of settlement, the IC card **1500** is controlled to be discharged therefrom. When the eject button **1732** is pressed, the IC card **1500** is also discharged.

When the IC card **1500** is newly issued, the IC card **1500** is newly taken out of the card stacker **1742**, and then the IC card **1500** is supplied to the card unit **1741** in order to store the credit related data.

The LED control unit **1763***c* performs control so that the LED (the full color LED **1731**) provided near the card insertion slot **1730** of the card unit **1741** is turned on and the LED (the red LED **1733**) provided near the eject button **1732** is turned on.

A touch unit control unit **1764** controls data transmission and reception associated with a touch operation of the IC card **1500**, a mobile phone, a smart phone, or the like. The touch unit control unit **1764** includes a non-contact reader and writer (R/W) control unit **1764***a* and an LED control unit **1764***b*.

The non-contact R/W control unit **1764***a* determines whether the IC card **1500** and the mobile phone approaches a predetermined distance (for example, a touch operation is performed) with the touch unit **1745**, and when the IC card **1500** and the mobile phone approaches the predetermined distance, the non-contact R/W control unit **1764***a* acquires a reading result or the like from the touch unit **1745**. The touch unit **1745** includes an antenna unit for transmitting and receiving data to and from the IC card **1500** and the mobile phone by NFC or the like.

The touch unit **1745** has a function of an IC card reader for reading information stored in the IC card **1500** and the mobile phone, and a function of an IC card writer for writing information to the IC card **1500** and the mobile phone, and may have any one of the above-described functions as necessary.

The LED control unit **1764***b* controls the LEDs **1746** disposed at four corners of the front surface of the touch unit **1745** and lights the LEDs **1746** at a predetermined timing.

A DSP **1765** receives voice data acquired from microphones **1715** and **1717**, performs a predetermined voice process thereon, and transmits the processed voice data to the CPU **1751**. The DSP **1765** transmits the received voice data to speakers **1707** and **1709**. The DSP **1765** further outputs the received voice to a headphone with respect to an audio terminal connected to a headset, processes the voice received from the microphone, and transmits the processed voice to the CPU **1751**. Here, a schematic configuration is illustrated, and illustration of an A/D converter, a D/A converter, an amplifier, or the like is omitted.

A camera control unit **1766** acquires an image of a player or the like captured by the human body detection camera **1713**, performs a predetermined image process as necessary, and transmits the processed data to the CPU **1751**. The data is transmitted to, for example, the management server **500**, a member management server **13**, or the like via the server I/F **1755**.

The camera control unit **1766** transmits image capturing information captured by the human body detection camera **1713** to the management server **500** or the like in response to an instruction from the management server **500**.

[Rolling Program Purchase Process]

In the casino system **100** according to the embodiment, rolling program candidates that can be selected by a member are prepared in advance at a casino side, and the member can select a desired program from the prepared candidates thereof.

When the rolling program candidates are generated in advance, in the management server **500**, a setting screen SC**11** illustrated in FIG. **7** is displayed on a display device (an LCD **562** (FIG. **2**)), and an attendant inputs a necessary item via the setting screen SC**11**, thereby making it possible to generate the rolling program candidates in advance in the database of the management server **500**.

FIG. **7** is a diagram illustrating a display example of a display screen of a terminal device used when the casino side generates the rolling program in advance. As illustrated in FIG. **7**, a plurality of items (I**11** to I**18**) are configured to be filled out on the setting screen SC**11** for setting the rolling program. The input item I**11** (Program Name) is an item for setting a name of the rolling program (Slot program name); the input item I**12** (Amount) is an item for setting a purchase amount (Slot program amount) of a dedicated game value (a first game value V**1** which is a credit for a rolling program equivalent to a non-negotiation chip used in a table game) to be purchased for starting a program to be set; the input item I**13** (Commission Cashable) is an item for setting a ratio (Rebate) with respect to the purchase amount of the game value (the credit) that is returned to the member when the dedicated game value (the first game value V**1**) is completely used up within a predetermined period (Validity Days) after the start of the rolling program; the input item I**14** (Commission Free Play) is an item for setting the number of points for a free play (Free Play Commission Amount) (a third game value V**3** which is the number of points that can be used only in the slot machine **1010**) to be granted to the member as a privilege when the dedicated game value (the first game value V**1**) is completely used up within the predetermined period (Validity Days) after the start of the rolling program; the input item I**15** (Commission Bonus Credit) is an item for specifying the number of bonus credit points (Bonus Credit Commission Amount) (a fourth game value V**4** which is the number of points that can also be used in other services such as eating and drinking at the casino in addition to the slot machine **1010**) to be granted to the member when the dedicated game value (the first game value V**1**) is completely used up within the predetermined period (Validity Days) after the start of the rolling program; the input item I**16** (Validity Days) is an item for setting the time when the predetermined period elapses after the start of the rolling program as a validity period of the rolling program (Validity days after program credit is activated); the input item I**17** (Duration) is an item for setting a holding period (slot program duration date and time) during which the selected rolling program is held; and the input item I**18** (Points Earning) is an item for setting whether or not to grant a separately set point (Enable/Disable).

In the management server **500**, a plurality of rolling program candidates (packages) can be generated in advance via the above-described setting screen SC**11**. The reception terminal device **200** of the reception counter **201** displays information on the plurality of rolling program candidates generated in the management server **500**, and can select any one of the candidates in response to a request of a member.

FIG. **8** is a diagram illustrating a display example in a display device of the reception terminal device **200**. As illustrated in FIG. **8**, the display device of the reception terminal device **200** displays an introduction screen SC**12** for displaying the plurality of rolling program candidates generated in the management server **500** as a package A, a package B, or the like.

An attendant can select and operate one rolling program in response to the member's desire. At the time of performing the selection operation, the attendant inputs member information such as a membership number or the like into the reception terminal device **200** by using a member information card shown by the member, whereby it is possible to perform use registration of the rolling program associated with the member. This registration information is transmitted from the reception terminal device **200** to the management server **500**, and stored in the management server **500**.

Specifically, the introduction screen SC**12** as illustrated in FIG. **8** is displayed on the display device of the reception counter **201**. That is, as illustrated in FIG. **8**, the introduction screen SC**12** visually displays the programs (the package A, the package B, . . .) registered in advance in the management server **500** as the rolling program candidates, and a plurality of privileges SF**1**, SF**2**, . . . are set in each package. The privilege is granted to a member when the member purchases the game value dedicated to the rolling program (the first game value V**1**) and the purchased game value is used up within the predetermined period (Validity Days) after the start of the rolling program. For example, four privileges SF**1**, SF**2**, SF**3**, and SF**4** are set in the package A, and three privileges SF**1**, SF**2**, and SF**3** are set in the package B. These privileges are set according to setting contents of the input items I**13** to I**15** on the setting screen SC**11** illustrated in FIG. **7** (setting items of the privilege to be granted to the member when the first game value is used up within the period). The packages (the package A, the package B, or the like) are configured to be classified according to a combination of the privileges SF**1** to SF**4**.

A plurality of selection options of an initial chip purchase amount (a purchase amount for purchasing the game value for the rolling program) are prepared in each package. For example, in the package A illustrated in FIG. **8**, purchase amounts of 500,000 PHP (Philippine Peso), 1,000,000 PHP, 2,000,000 PHP, and 5,000,000 PHP are prepared as the selection options. The validity period (Validity Days) is

determined for each purchase amount. A ratio (a rebate) of a credit amount, which is to be returned to the member as the privilege when the purchase amount is used up in the slot machine **1010** within the validity period (Validity Days) set for each purchase amount, is determined.

For example, in the package B illustrated in FIG. **8**, purchase amounts of 500,000 PHP, 1,000,000 PHP, 2,000,000 PHP, and 5,000,000 PHP are prepared as the selection options, and the validity period (Validity Days) is determined for each purchase amount. A ratio (a rebate) of a credit amount, which is to be returned to the member as the privilege when the purchase amount is used up in the slot machine **1010** within the validity period (Validity Days) set for each purchase amount, is determined.

The member can determine a package to be selected and a purchase amount of the selected package based upon the validity period (Validity Days) associated with each purchase amount and the rebate information by checking the introduction screen SC**12** illustrated in FIG. **8**. When the member informs the attendant about the package name and the purchase amount of the desired rolling program at the reception counter **201**, the attendant selects any one of the plurality of candidates registered in advance by operating the reception terminal device **200**, and performs registration in association with the information (the membership number or the like) stored in the member information card shown by the member. The registration information is transmitted from the reception terminal device **200** to the management server **500** (described later in FIG. **11**), and then stored in the management server **500**.

In the embodiment, while the setting screen SC**11** illustrated in FIG. **7** is configured to set the holding period (Slot program duration date and time) during which the rolling program is held, and the rolling program outside this period is configured not to be displayed on the introduction screen SC**12** illustrated in FIG. **9**, for example, the rolling program candidates within the period and the rolling program candidates outside the period may be displayed to be distinguished therebetween by changing a display color and luminance of a package display of the rolling programs to be the candidates.

[Circuit Configuration of IC Card]

Hereinafter, a circuit configuration of the IC card **1500** will be described with reference to FIG. **7** of the attached drawing. FIG. **9** is a block diagram illustrating the circuit configuration of the IC card **1500** according to the embodiment of the present invention. The IC card **1500** includes: an input and output unit **1510** used as an interface for transmitting and receiving information to and from an information card reading unit in a non-contact manner; a non-volatile storage unit **1520** having a function as a storage unit; and a control unit **1530** having a function as a control unit for controlling the input and output unit **1510** and the non-volatile storage unit **1520**.

[Type of Game Value]

FIG. **10** is a conceptual diagram illustrating an area for storing four types of game value information provided in a storage unit **1520** of the IC card **1500** by type. A first area is a first storage area AR**1** for storing a game value (credit data for a rolling program) purchased by a player to participate in the rolling program, and the game value stored in the first storage area AR**1** (the first game value) cannot be converted into cash by the cashier **401** in principle and is only permitted to be used in a game by the slot machine **1010** (there is a restriction on the use of the game value information). Prize money, which is generated in the game by reading out first game value information from the first storage area AR**1** and providing the read first game value information to a BET of the game, is stored in a second storage area AR**2**. Information representing a type and amount of the game value (the first game value V**1**) stored in the first storage area AR**1** is referred to as the first game value information.

A second area is the second storage area AR**2** in which a game value corresponding to any amount of money deposited by a player with cash can be stored and further cash conversion can be performed by a cashier (no restriction on the use of the game value information). The second storage area AR**2** can write a game value (credit data) corresponding to a dividend obtained by playing a game in the slot machine **1010**. Information representing a type and amount of a game value (a second game value V**2**) stored in the second storage area AR**2** is referred to as second game value information. In principle, both the first game value information and the second game value information are treated as a cash equivalent.

A third area is a third storage area AR**3** in which depositing cannot be performed by a player, and a game value (credit data) granted by promotion by game facilities such as a casino or the like, use of facilities, game playing, or the like can be stored. The game value (a third game value) stored in the third storage area AR**3** cannot be converted into cash by the cashier **401** in principle, and is only permitted to be used in a game by the slot machine **1010** (a so-called free play). Information representing a type and amount of the game value (the third game value V**3**) stored in the third storage area AR**3** is referred to as third game value information.

When the game value is read out from the third storage area AR**3** and a fourth storage area AR**4** which will be described later and used for a BET of a game, a prize generated in the game is stored in the second storage area AR**2**. That is, the third game value V**3** and the fourth game value V**4**, which cannot be directly converted into cash, are stored in the storage area AR**2** as the second game value V**2** after being provided to the game, and then can be converted into cash thereafter.

A fourth area is the fourth storage area AR**4** in which depositing cannot be performed by a player, and a game value (credit data) granted by promotion by game facilities such as a casino or the like, use of facilities, game playing, or the like can be stored (no restriction on the use of the game value information). The game value (the fourth game value V**4**) stored in the fourth storage area AR**4** cannot be converted into cash by the cashier **600** in principle, and is also permitted to be used for various services in facilities in addition to the use in the game (a so-called bonus credit). It is stored in the fourth storage area AR**4**. Information representing an amount of the game value stored in the fourth storage area AR**4** is referred to as fourth game value information.

In principle, both the third game value information and the fourth game value information are not treated as a cash equivalent.

In the casino system **100** of the embodiment, these four types of game values are used, and according thereto, the management server **500** is also configured to be able to store the game values for each type. That is, when the management server **500** stores the game value (the credit data) in the storage unit (the RAM **553** and the database **560**), the management server **500** is configured to store the game value in the storage area corresponding to each type of the first game value, the second game value, the third game value, and the fourth game value.

[Credit Insertion Process]

A credit insertion process with respect to the slot machine **1010** will be described with reference to FIG. **11**.

First, when a player inserts a member information card (the IC card **1500**) into the card insertion slot **1730** of the SMIB device **1700** (FIG. **4**) (S**61**), the IC card control unit **1763** of the SMIB device **1700** (FIG. **6**) reads an entire amount of credit data (that is, credit data owned by a member) stored in the member information card, stores the read entire amount thereof in the RAM **1753** (FIG. **6**) (S**62**), and transmits the credit data as input information (S**64**) to the slot machine **1010** (S**63**). As a method for reading the credit data from the member information card, instead of reading the credit data stored in the member information card (the IC card **1500**), the credit data owned by the member stored in a member account of the management server **500** in association with member information of the member information card may be acquired from the management server **500**. When the credit data stored in the member information card exceeds an upper limit of an amount of money that can be stored therein, which is set in the slot machine **1010** in advance, the credit data corresponding to the upper limit thereof is configured to be read from the member information card. The credit data read by the SMIB device **1700** is erased from the member information card.

Here, as described above in FIG. **10**, the storage unit **1520** (FIG. **9**) of the member information card (the IC card **1500**) includes the storage areas AR**1** to AR**4** that individually correspond to four types of game values (the credit data), and the first game value to the fourth game value are respectively stored in the corresponding storage areas. The storage unit of the management server **500** (the member account) is also configured in the same manner. Therefore, the credit data read out from the member information card (or the storage unit of the management server **500**) in step S**62** may include all four types of game values. When reading out the credit data from the member information card or the management server **500**, the SMIB device **1700** determines, from the storage area, the type of credit data (any one of the first game value to the fourth game value) stored in the storage area, associates information (game value type information) representing the determined type thereof with the read credit data, and stores the information associated therewith in the RAM **1753** of the SMIB device **1700** as the first to fourth game value information.

The slot machine **1010** receiving the input information including the first to fourth game value information (S**64**) stores the credit data (the inserted amount of money) in the received input information (S**64**) in a storage area (described later) corresponding to each of the first to fourth game values of the storage unit in the game controller **70** (S**65**).

Next, in the slot machine **1010**, an amount of money, which is specified by a player using the credit data stored in the storage unit, is BET on a game, and one game is executed (S**66**). In the slot machine **1010**, when the player obtains an advantageous game result in this game, credit data of an amount corresponding to a prize acquired by the player is added to a credit balance stored in the storage unit of the slot machine **1010** according to a predetermined rule which will be described later, and on the other hand, when the player does not obtain the advantageous game result in this game, a process of subtracting an amount of BET from the stored credit balance is performed.

In this manner, the credit balance of the player changes for each game, and every time one game is completed, the slot machine **1010** transmits, to the SMIB device **1700**, a game value (the first game value and the second game value) that can be treated as cash in the credit balance stored in the storage unit as balance information (S**68**) (S**67**). When transmitting the credit balance (the balance information (S**68**)) thereto, the slot machine **1010** determines whether or not the game ends (S**69**).

Next, when the player operates the CASHOUT button, the slot machine **1010** ends the game (S**69**: YES). On the other hand, when the player does not operate the CASHOUT button, the slot machine **1010** does not end the game (S**69**: NO) and executes the next game.

In the SMIB device **1700**, the balance information (S**68**) transmitted from the slot machine **1010** every time one game ends is stored in the RAM **1753** according to a predetermined rule (S**70**). Specifically, as described above, in the SMIB device **1700**, the entire credit balance of the member is read from the member information card (or the management server **500**) and transmitted to the slot machine **1010**, and in the slot machine **1010**, the transmitted read amount is stored in a storage area corresponding to each type of credit data.

Since the read credit data transmitted to the slot machine **1010** is stored in the storage area corresponding to each type thereof (the first to fourth game values), the credit data is provided to a BET for each type according to a predetermined usage rule (for example, a rule regarding the order of using game values in which game values (credits) are provided to a BET in the order of the third game value, the fourth game value, the first game value, and the second game value) in the game controller **70** of the slot machine **1010**. Specifically, for example, when credit data remains in the storage area of the game controller **70** in which the third game value is stored, the credit data is preferentially read out and provided to the BET. On the other hand, when the credit data (the third game value) does not remain in the storage area, it is determined whether or not the credit data remains in the storage area of the game controller **70** in which the fourth game value is stored, and when the credit data remains therein, the credit data (the fourth game value) is preferentially read out and provided to the BET. On the other hand, when the credit data (the fourth game value) does not remain in the storage area, it is determined whether or not the credit data remains in the storage area in the game controller **70** in which the first game value is stored, and when the credit data remains therein, the credit data (the first game value) is preferentially read out and provided to the BET. On the other hand, when the credit data (the first game value) does not remain in the storage area, it is determined whether or not the credit data remains in the storage area in the game controller **70** in which the second game value is stored, and when the credit data remains therein, the credit data (second game value) is preferentially read out and provided to the BET.

A credit balance corresponding to a result of the game is stored in a storage area determined according to a storage rule predetermined in the game controller **70**. Specifically, when the credit data used for the BET is the first game value, a prize generated as a result of the game by the BET is stored in the storage area of the corresponding game controller **70** as the second game value. Since a prize generated in the game in which the third and fourth game values are provided to the BET is a type of game value in which the third and fourth game values are not treated as cash, the prize generated therein is stored in the storage area of the corresponding game controller **70** as the game values (the third and fourth game values) similar to the read game values.

Next, the first to fourth game values (the credit data) stored in the game controller **70** of the slot machine **1010** are added up and transmitted to the SMIB device **1700** every time one game ends. Therefore, it is difficult for the SMIB device **1700** receiving the credit balance (the balance information (S**68**)) to individually grasp a type of the credit balance. Therefore, in the embodiment, the balance information (S**68**) includes a BET amount of each game and a prize amount generated as a result of the game, and then the balance information (S**68**) is transmitted from the slot machine **1010** to the SMIB device **1700**. Further, the SMIB device **1700** is configured to store the usage rule of the game value (the credit data) in the slot machine **1010** in the RAM **1753** in advance, grasp a type of credit used (one of the first to fourth game values) or a type of credit amount granted by the generation of the prize (one of the first to fourth game values) based on a difference between the balance information (S**68**) transmitted from the slot machine **1010** for each game and the balance information (S**68**) transmitted one game before and stored in the RAM **1753**, and determine a breakdown of the balance (each amount of the first to fourth game values) based on the grasped result.

That is, the slot machine **1010** determines which type of credit data in a credit balance is first provided to a BET according to a usage rule, and the game controller **70** uses the credit balance for the BET according to the usage rule. Specifically, in the storage unit provided in the game controller **70**, in the same manner as that of the storage unit **1520** of the IC card **1500** (FIGS. **9** and **10**), the storage area is divided for each type of credits (the first game value to the fourth game value), and the credit data read from the IC card **1500** (the member information card or the non-member information card) in the SAM device **1700** is transmitted to the slot machine **1010** together with information (the first game value information to the fourth game value information) representing the type thereof (the first game value to the fourth game value). The game controller **70** of the slot machine **1010** stores the game value information (the first game value information to the fourth game value information) received from the SAM device **1700** in the corresponding storage area. Accordingly, the game controller **70** can read the game value information (the credit data) for each type stored in each storage area from the corresponding storage area and can provide the read game value information to the BET of the game according to the predetermined rule.

For example, as described above in FIG. **10**, the first game value V**1** (the credit data stored in the first storage area AR**1** of the IC card **1500**) is the credit for the rolling program purchased by the player to participate in the rolling program (the first game value), and this first game value cannot be converted into cash by the cashier **401** in principle, and is only permitted to be used in the game by the slot machine **1010**. That is, there is the restriction on the use of the game value. The prize money, which is generated in the game by reading the first game value information representing the first game value and providing the first game value information to the BET of the game, is treated as the second game value V**2**. That is, the prize money is stored as the second game value V**2** (the credit data) in the second storage area **2**, in which the second game value is to be stored, of the first to fourth storage areas provided in the game controller **70**.

As described above, the game controller **70** reads out a credit balance according to the predetermined usage rule and provides the read credit balance to a BET, and stores a prize (a credit) generated as a result of the game in a determined storage area according to the determined storage rule. Next, the game controller **70** transmits a result of adding up these processing results for all the storage areas to the SMIB device **1700** for each game as the balance information (S**68**).

The SMIB device **1700** can store the credit balance that changes for each game in the slot machine **1010** for each type thereof (S**70**), based on the balance information (S**68**) transmitted from the slot machine **1010** (the game controller **70**).

In this manner, when a player performs a card discharge operation after a balance storage process is completed in the SMIB device **1700**, the SMIB device **1700** transmits information stored in the RAM **1753** to the management server **500**, writes the information to the member information card, and then discharges the member information card (S**71**).

[Balance Storage Process]

Hereinafter, the embodiment describes a process of storing the balance information (S**68**) in the RAM **1753** of the SMIB device **1700**.

As illustrated in FIG. **12**, the RAM **1753** of the SMIB device **1700** stores: a deposit amount (a total and a breakdown) deposited by inserting the member information card into the SMIB device **1700** at the end of each game specified by a game number; a prize amount, a BET amount, and a total balance (the sum of all types of game values (the first to fourth game values) stored in the game controller **70**) transmitted from the slot machine **1010** and provided in the balance information (S**68**); a breakdown of the balance calculated based on the balance transmitted from slot machine **1010** (a breakdown of the (that is, current) first to fourth game values after a game this time calculated from a total balance received this time and a breakdown of the first to fourth game values after a previous game calculated from a total balance received the previous time); a game value that can be converted into cash and an amount thereof in the calculated current balance breakdown; and a game value that can be paid out by a hand pay process (described later) and an amount thereof in the calculated current balance breakdown.

Specifically, in FIG. **12**, when a player inserts the member information card into the SAM device **1700**, the SAM device **1700** reads out an entire amount (total 1,700,000 PHP) of all types of game values (for example, the first game value V**1** is 1,000,000 PHP (Philippine peso), the second game value V**2** is 500,000 PHP, the third game value V**3** is 100,000 PHP, and the fourth game value V**4** is 100,000 PHP) stored in the management server **500** in association with the member information card and a member who owns the member information card, and stores the entire amount thereof in the RAM **1753**.

When the deposit amount includes the first game value V**1** which is the credit for the rolling program, the SMIB device **1700** stores contents of the rolling program (a program ID, a period thereof, or the like) stored in the management server **500** in association with a member information card and a member who owns the member information card in the RAM **1753** in association with the deposit amount.

In this state, the SMIB device **1700** transmits all the deposit amounts stored in the RAM **1753** to the slot machine **1010**. In this state, in the slot machine **1010**, one game (a game number "1") is executed by allowing the player to perform a BET operation. A BET amount in this game is 100,000 PHP, a prize is not generated, a total balance that reflects a result of the game (a total of all the game values (the first to fourth game values) after the game) is 1,600,000 PHP, and these pieces of information are transmitted from the slot machine **1010** to the SMIB device **1700** as the

balance information (S68), and are stored in the RAM 1753 of the SMIB device 1700 in association with the game number "1" (FIG. 12).

The SMIB device 1700 further calculates, based on these pieces of information obtained from the slot machine 1010, a breakdown of the total balance (each amount of the first game value V1, the second game value V2, the third game value V3, and the fourth game value V4 in the total balance), and stores the calculated breakdown thereof in the RAM 1753 in association with the game number "1". Specifically, as a breakdown of a deposit amount deposited through the member information card before the game specified by the game number "1", the first game value V1 is 1,000,000 PHP, the second game value V2 is 500,000 PHP, the third game value V3 is 100,000 PHP, and the fourth game value V4 is 100,000 PHP, which are stored in the RAM 1753 at the time of depositing each amount, and a breakdown of each game value is calculated based on these pieces of information and the total balance of 1,600,000 PHP obtained from the slot machine 1010 after the game. This calculation process uses the above-described credit usage rule and storage rule in the slot machine 1010, which are stored in advance in the RAM 1753. That is, the SAM device 1700 can determine that only the third game value V3 is reduced by a BET amount as the breakdown of the total balance of 1,600,000 PHP after the game specified by the game number "1", based on the BET amount (100,000 PHP) of the game specified by the game number "1" and the usage rule indicating that the credits in the slot machine 1010 are used for the BET in descending order of priority from the third game value V3.

That is, the SMIB device 1700 stores each amount of the game values in the RAM 1753 as a balance breakdown based on information indicating that the total balance at the start of the game specified by the game number "1" (the deposit amount deposited through the member information card) is 1,700,000 PHP, the BET amount (100,000 PHP) can be used within the amount of the third game value (100,000 PHP) such that 0 PHP is obtained by subtracting the BET amount from only the third game value, and other game values (the first game value V1 is 1,000,000 PHP, the second game value V2 is 500,000 PHP, and the fourth game value is 100,000 PHP) do not change.

The SMIB device 1700 can determine that only the second game value V2 (500,000 PHP), which has no restriction on the use thereof and can be directly treated as cash, in the balance breakdown is a game value that can be converted into cash. The SMIB device 1700 determines, as a hand pay amount that can be paid out by the hand pay, the game values excluding the third game value V3 and the fourth game value V4 that cannot be treated as cash (the first game value V1 (1,000,000 PHP) and the second game value V2 (500,000 PHP)) in this balance breakdown. The first game value V1 is a game value acquired by purchasing the rolling program, and the amount of the first game value V1 is determined by the SMIB device 1700, such that a balance of the first game value V1 can be transmitted to the management server 500 as a breakdown of the hand pay amount in the hand pay process.

In this state, the player further performs the BET operation to play the next game (a game number "2"), and when this game ends, the balance information (S68) is transmitted from the slot machine 1010 to the SMIB device 1700.

A BET amount in this game is 100,000 PHP, a prize of 500,000 PHP is generated, a total balance that reflects a result of the game (a total of all the game values (the first to fourth game values) after the game) is 2,000,000 PHP, and these pieces of information are transmitted from the slot machine 1010 to the SMIB device 1700 as the balance information (S68), and are stored in the RAM 1753 of the SMIB device 1700 in association with the game number "2" (FIG. 12).

The SMIB device 1700 calculates a breakdown of the total balance (each amount of the second game value V1, the second game value V2, the third game value V3, and the fourth game value V4 in the total balance) based on these pieces of information obtained from the slot machine 1010, and stores the calculated breakdown thereof in the RAM 1753 in association with the game number "2". Specifically, since there is no new deposit from the information card or the like in the game specified by the game number "2", the breakdown of each game value is calculated based on the amount of each game value after the game specified by the game number "1" stored in the RAM 1753 (that is, before the start of the game specified by the game number "2"), the total balance thereof, and the total balance of 2,000,000 PHP earned from the slot machine 1010 after this game. This calculation process uses the above-described credit usage rule and storage rule in the slot machine 1010, which are stored in advance in the RAM 1753. That is, the SMIB device 1700 can determine, as a breakdown of the total balance of 2,000,000 PHP after the game specified by the game number "2", that the fourth game value V4 decreases by the BET amount (100,000 PHP) and the second game value V2 increases by the amount of the generated prize (500,000 PHP), based on the BET amount (100,000 PHP) of the game specified by the game number "2" and the usage rule indicating that the credits in the slot machine 1010 are used for the BET in descending order of priority from the third game value V3. In the embodiment, when the third game value V3 or the fourth game value V4 provided for promotion is used for a BET on a game of the slot machine 1010, a prize generated in the game is treated as the second game value V2.

That is, the SMIB device 1700 stores each amount of the game values in the RAM 1753 as a balance breakdown based on information indicating that the total balance at the start of the game specified by the game number "2" (the balance of the previous game) is 1,600,000 PHP, the BET amount (100,000 PHP) cannot be used within the amount of the third game value (0 PHP) such that 0 PHP is obtained by subtracting the BET amount from the fourth game value V4 having the second highest usage priority after the third game value V3, the second game value V2 becomes 1,000,000 PHP by adding the prize amount (500,000 PHP) obtained by the generation of the prize, and other game values (the first game value V1 is 1,000,000 PHP and the third game value is 0 PHP) do not change.

The SMIB device 1700 can determine that only the second game value V2 (1,000,000 PHP), which has no restriction on the use thereof and can be directly treated as cash, in the balance breakdown is a game value that can be converted into cash. The SMIB device 1700 can determine, as a hand pay amount that can be paid out by the hand pay, the game values excluding the third game value V3 and the fourth game value V4 that cannot be treated as cash (the first game value V1 (1,000,000 PHP) and the second game value V2 (1,000,000 PHP)) in this balance breakdown.

In this state, the player further performs the BET operation to play the next game (a game number "3"), and when this game ends, the balance information (S68) is transmitted from the slot machine 1010 to the SMIB device 1700.

A BET amount in this game is 200,000 PHP, a prize is not generated, a total balance that reflects a result of the game (a total of all the game values (the first to fourth game

values) after the game) is 1,800,000 PHP, and these pieces of information are transmitted from the slot machine **1010** to the SMIB device **1700** as the balance information (S**68**), and are stored in the RAM **1753** of the SMIB device **1700** in association with the game number "2" (FIG. **12**).

The SMIB device **1700** calculates a breakdown of the total balance (each amount of the second game value V**1**, the second game value V**2**, the third game value V**3**, and the fourth game value V**4** in the total balance) based on these pieces of information obtained from the slot machine **1010**, and stores the calculated breakdown thereof in the RAM **1753** in association with the game number "3". Specifically, since there is no new deposit from the information card or the like in the game specified by the game number "3", a breakdown of each game value is calculated based on the amount of each game value after the game specified by the game number "2" stored in the RAM **1753** (that is, before the start of the game specified by the game number "3"), the total balance thereof, and the total balance of 1,800,000 PHP earned from the slot machine **1010** after this game. This calculation process uses the above-described the credit usage rule and storage rule in the slot machine **1010**, which are stored in advance in the RAM **1753**. That is, the SAM device **1700** can determine, as a breakdown of the total balance of 1,800,000 PHP after the game specified by the game number "3", that the first game value V**1** decreases by the BET amount (200,000 PHP) and becomes 800,000 PHP, based on the BET amount (200,000 PHP) of the game specified by the game number "3" and the usage rule indicating that the credits in the slot machine **1010** are used for the BET in descending order of priority from the third game value V**3**.

That is, the SAM device **1700** stores each amount of the game values in the RAM **1753** as a balance breakdown based on information indicating that the total balance at the start of the game specified by the game number "3" (the balance of the previous game) is 2,000,000 PHP, the BET amount (200,000 PHP) cannot be used within the amount of the third game value (0 PHP) and cannot be used within the amount of the fourth game value having the second highest priority (0 PHP), 800,000 PHP is obtained by subtracting the BET amount from the first game value V**1** having the third highest priority, and the rest of game values (the second game value V**2** is 1,000,000 PHP) does not change.

The SAM device **1700** can determine that only the second game value V**2** (1,000,000 PHP), which has no restriction on the use thereof and can be directly treated as cash, in the balance breakdown is a game value that can be converted into cash. The SAM device **1700** can determine, as a hand pay amount that can be paid out by the hand pay, the game values excluding the third game value V**3** and the fourth game value V**4** that cannot be treated as cash (the first game value V**1** (800,000 PHP) and the second game value V**2** (1,000,000 PHP)) in this balance breakdown.

As described above, in the game specified by the game number "3", the first game value V**1** having the highest priority following the third game value V**3** and the fourth game value V**4** is used for the BET in a state where the third game value V**3** and the fourth game value V**4** are completely used. As described above, the first game value V**1** is the credit granted by the casino in exchange for the purchase of the right to participate in the rolling program, and when a type of rolling program selected by the member is, for example, a rolling program purchased with a purchase amount of 1,000,000 PHP of the package A illustrated in FIG. **8**, the amount of credit to be granted (the amount of the first game value V**1**) is 1,000,000 PHP, such that when the first game value V**1** is used up by a deadline of the rolling program, predetermined privileges SF**1** to SF**4** (FIG. **8**) are granted to the member.

Specifically, contents of the participation right of the purchased rolling program are stored in the member information card (the IC card **1500**) owned by a member and a member account on the management server **500** associated with the member. Next, when the member inserts the member information card into the slot machine **1010** (the SAM device **1700**), the SAM device **1700** reads the contents of the purchased rolling program as well as the credit data (the first game value V**1** to the fourth game value V**4**), and stores the read contents thereof and credit data in the RAM **1753** (S**61** (FIG. **11**)).

While referring to an expiration date (Validity Days) of the first game value V**1** purchased as the participation right of the rolling program based on the contents of the rolling program stored in the RAM **1753**, the SAM device **1700** subtracts an amount corresponding to a BET from the first game value V**1** based on a usage rule predetermined each time the BET is performed. Next, when the first game value V**1** is completely used before the expiration date (Validity Days), achievement information of the rolling program is transmitted to the management server **500** together with the member information, and information indicating that the first game value V**1** is completely used is written to the inserted member information card. The management server **500** grants a predetermined privilege to the member.

After playing the game a plurality of times, the player further performs the BET operation to play the next game (a game number "x"), and when this game ends, the balance information (S**68** (FIG. **11**)) is transmitted from the slot machine **1010** to the SAM device **1700**.

A BET amount in this game is 100,000 PHP, a generated prize is 1,000,000 PHP, a total balance that reflects a result of the game (a total of all the game values (the first to fourth game values) after the game) is 2,200,000 PHP, and these pieces of information are transmitted from the slot machine **1010** to the SMIB device **1700** as the balance information (S**68** (FIG. **11**)), and are stored in the RAM **1753** of the SMIB device **1700** in association with the game number "x" (FIG. **11**).

The SMIB device **1700** calculates a breakdown of the total balance (each amount of the second game value V**1**, the second game value V**2**, the third game value V**3**, and the fourth game value V**4** in the total balance) based on these pieces of information obtained from the slot machine **1010**, and stores the calculated breakdown thereof in the RAM **1753** in association with the game number "x". Specifically, since there is no new deposit from the information card or the like in the game specified by the game number "x", a breakdown of each game value after the game specified by the game number "x" is calculated in the same manner as those of the above-described game numbers "1" to "3" based on the amount of each game value after the game specified by the game number "x−1" stored in the RAM **1753** (that is, before the start of the game specified by the game number "x"), the total balance thereof, and the total balance of 2,200,000 PHP earned from the slot machine **1010** after this game.

As a result of this calculation, when the first game value V**1** becomes 500,000 PHP, the second game value V**2** becomes 1,700,000 PHP, the third game value V**3** becomes 0 PHP, and the fourth game value V**4** becomes 0 PHP, the SMIB device **1700** stores the results of this calculation in the RAM **1753** as a "balance breakdown (calculation)" as the amount of each game value corresponding to the game

number "x". The second game value V2 of these game values is stored in the RAM **1753** as a cashable amount. In these game values, an amount of the first game value V1, an amount of the second game value V2, and a total amount (2,200,000 PHP) thereof are stored in the RAM **1753** as a hand pay amount. The hand pay amount (the total amount) including this breakdown (the amount of the first game value V1 and the amount of the second game value V2) is included in hand pay information S24 (described later in FIG. **13**) and transmitted to the management server **500** in response to a reset operation of the slot machine **1010** by an attendant in the casino. As described above, in preparation for the case in which the slot machine **1010** is reset by the hand pay process, the amount of the first game value V1 is stored in the RAM **1753** as the hand pay amount, and the amount of the first game value V1 is transmitted to the management server **500** in the hand pay process (at the time of resetting the slot machine **1010**), such that the management server **500** can update the amount of the first game value V1 at the time of the reset operation thereof as a member balance. That is, as a balance when the hand pay is generated, the amount of the first game value V1, which is used in the rolling program and has the restriction on the use thereof such that cash conversion cannot be directly performed, is also grasped by the management server **500** and reflected in the member account. Accordingly, for example, it is possible to prevent occurrence of errors in which when the reset operation of the slot machine **1010** is performed, the first game value V1 is determined as 0 PHP on the side of the management server **500** even though the first game value V1 remains such that it is mistakenly determined that the rolling program is achieved, or the sum of the first game value V1 and the second game value V2 is transmitted to the management server **500** such that the amount of the first game value V1 becomes unknown.

[Hand Pay Process]

The hand pay process in the casino system **100** will be described with reference to FIG. **13**.

First, when a prize of a predetermined amount or more such as a jackpot or the like is generated in the slot machine **1010** (S11), the slot machine **1010** causes a display unit thereof (for example, the upper image display panel **1131** and the lower image display panel **1141**) to perform a display for urging an attendant to be called (S12). A display example in this case is illustrated in FIG. **14**. As illustrated in FIG. **14**, a prize amount Il is displayed on the upper image display panel **1131**, and the upper image display panel **1131** and the lower image display panel **1141** include a display **12** formed of characters or the like that urges the attendant to be called.

At this time, the slot machine **1010** notifies the SMIB device **1700** that a hand pay is generated (S12). The SMIB device **1700** receiving the notification transmits, to the hand pay terminal device **600** and the management server **500**, hand pay generation information including a generation cause of the hand pay (for example, a prize of a predetermined amount or more is generated), identification information of the slot machine **1010**, and member information of a player playing a game in the slot machine **1010** at this time (S13). When a member player plays a game on the slot machine **1010**, the member information card is inserted into the card insertion slot **1730** (FIG. **4**) of the slot machine **1010** (the SMIB device **1700**), and the slot machine **1010** (the SMIB device **1700**) reads member information of the player recorded on the inserted member information card, such that the hand pay generation information can include the member information of the member who is playing the game.

The hand pay terminal device **600** and the management server **500** store the received hand pay generation information (S14 and S15).

When the player calls an attendant in response to the display of the slot machine **1010**, the attendant goes to the slot machine **1010** and confirms the generation cause of the hand pay. For example, when a prize of a predetermined amount or more is generated, the attendant confirms legitimacy of the generation of the hand pay by confirming a stop mode (a symbol arrangement state) of the pseudo reels **1151** to **1155** of the slot machine **1010** (S16).

When the legitimacy thereof is confirmed, the attendant moves from the slot machine **1010** to the hand pay terminal device **600** (S102), and issues a hand pay electronic slip by operating the hand pay terminal device **600** (S17). In this case, the hand pay terminal device **600** already receives the hand pay generation information (S13) from the SMIB device **1700** of the slot machine **1010**, such that the hand pay electronic slip can be displayed on the display device of the hand pay terminal device **600** based on amount information in the hand pay generation information (S13).

Specifically, when the identification information (for example, a unit number) of the slot machine **1010** in which the hand pay is generated is input to the hand pay terminal device **600**, the hand pay terminal device **600** reads out the hand pay generation information (S13) received from the slot machine **1010** corresponding to the input identification information, and displays the electronic slip displaying the amount on the display device based on the generation information. At this time, the hand pay terminal device **600** assigns an electronic slip number unique to the electronic slip and issues an electronic slip associated with the number. The member information in the hand pay generation information (S13) is associated with this electronic slip. After confirming contents of the displayed electronic slip, the attendant performs a report process S18 to a manager by operating the hand pay terminal device **600**. In the embodiment, the generation information (S13) transmitted from the SMIB device **1700** to the hand pay terminal device **600** includes the credit balance of the slot machine **1010** in which the hand pay is generated and the amount paid to the player by the hand pay process (the hand pay amount). Alternatively, the generation information (S13) may not include the hand pay amount. In this case, when issuing the hand pay electronic slip in the hand pay terminal device **600** (S17), the attendant may visually check the credit balance of the slot machine **1010** and input the credit balance thereof into the hand pay terminal device **600**.

In the report process S18, when the attendant operates the hand pay terminal device **600** and inputs a report instruction, the hand pay terminal device **600** transmits report information to the management server **500** (S19). This report information includes the identification information of the slot machine **1010** in which the hand pay is generated, the member information of the player playing the game in the slot machine **1010** when the hand pay is generated, the hand pay amount, and the electronic slip number. These pieces of information are transmitted from the SMIB device **1700** to the hand pay terminal device **600** as the generation information (S13) when the hand pay is generated.

When the management server **500** receives the report information (S13), an administrator (a manager) confirms report contents and performs an approval process (S20). In this approval process (S20), the administrator determines legitimacy of the report information (S19) based on the hand pay generation information (S13 and S15) recorded at the time of receiving the hand pay generation information (S13)

and the report information (S19) transmitted from the hand pay terminal device **600** by the attendant, and when the report contents match, the administrator determines that the report information is legitimate and performs approval thereof. The approved report information (S19) is recorded in the management server **500** as approved information together with the already received generation information (S13). When the approval process (S20) is performed in this manner, approval information (S21) is transmitted from the management server **500** to the hand pay terminal device **600**.

When confirming an approval result on the display device of the hand pay terminal device **600**, the attendant moves to the slot machine **1010** in which the hand pay is generated (S103), and operates the reset key switch **1019** of the slot machine **1010** to reset credit amount data stored in the game controller **70** of the slot machine **1010** (S22). When a credit cancellation process is performed by operating the reset key switch **1019**, the slot machine **1010** notifies the SMIB device **1700** of the credit cancellation process and a cancellation amount (a credit balance when the reset key switch **1019** is operated) as erasure information (S23). The SMIB device **1700** receiving the notification from the slot machine **1010** transmits, to the management server **500**, hand pay information S24 including the cancellation amount, the identification number of the slot machine **1010** on which the reset key switch **1019** is operated, the member information of the player playing the game in the slot machine **1010** at this time (the member information read from the member information card being inserted into the card insertion slot **1730** (FIG. **4**)), and the hand pay amount described in FIG. **12** (the amount of the first game value V**1**, the amount of the second game value V**2**, and the total amount thereof). The hand pay amount includes a total amount of the hand pay and a breakdown thereof (the amount of the first game value V**1** and the amount of the second game value V**2**).

In this manner, the hand pay information (S**24**) includes the total amount of the hand pay ((the total amount of the first game value V**1** and the second game value V**2**) as a payout amount, the hand pay information (S**24**) includes the information representing the breakdown (each amount of the first game value V**1** and the second game value V**2**), and the hand pay information (S**24**) is transmitted from the SMIB device **1700** to the management server **500**, such that the management server **500** can grasp the amount of the first game value V**1** in the hand pay amount. That is, the member information card is inserted into the slot machine **1010** (the SMIB device **1700**), and the credit balance of the member (the first game value V**1**, the second game value V**2**, the third game value V**3**, and the fourth game value V**4**) is transmitted to the slot machine **1010**, such that the management server **500** can grasp the amount of the first game value V**1** in the payout amount paid out to the member by the hand pay out of the balance after the game in a state where a part thereof is used for the game. Accordingly, when the hand pay is performed and the balance is paid out to the member, the management server **500** can perform management in consideration of subclassification of the amount paid out thereto (that is, the credit canceled by the hand pay in the slot machine **1010**). Specifically, the first game value V**1** is the game value for the rolling program, and in the rolling program, by completely using the first game value V**1** by the expiration date (Validity Days), a privilege is granted to a member who is a purchaser of the rolling program. Therefore, when the game value paid out in the hand pay process is not subdivided, the management server **500** may make an erroneous determination in which, for example, the first game value V**1** is determined to be used and the member acquires the right of a specific grant even though the first game value V**1** is not used yet, whereas in the embodiment, the first game value V**1** that is not actually used in the slot machine **1010** can be refunded to the member account in a state where the first game value V**1** is not used, and the management server **500** can prevent the erroneous determination. That is, in a casino where the rolling program is executed, an appropriate operation in accordance with the classification of the game value can be performed.

The management server **500** receiving the hand pay information (S**24**) from the SMIB device **1700** compares the hand pay amount in the hand pay information S**24** and the member information of the player with the approved information recorded in the approval process (S**20**), and determines legitimacy thereof, and when determining that the comparison therebetween is legitimate, the management server **500** updates the credit data of the member account by temporarily adding the hand pay amount to the member account. That is, by this update process, the hand pay amount and the player (the member) are temporarily associated with each other (S**25**). The temporary association indicates that since there is no evidence showing that the player receives the hand pay amount until the player inputs an electronic signature to a receipt, which will be described later, the temporary association is performed until then.

When the management server **500** completes the association between the hand pay information and the player (the member), the management server **500** generates receipt data relating to the hand pay of which association is completed at this time, and transmits the receipt data to the hand pay terminal device **600** as receipt information (S**26**). This receipt information is data in which pieces of information such as the hand pay amount, member information (a name and a membership number), or the like are described in a receipt form.

The hand pay terminal device **600** receiving the receipt information (S**26**) displays the receipt including the hand pay amount on a display device provided in the hand pay terminal device **600**, and urges the player to perform an electronic signature on this receipt display (S**27**). The electronic signature is a signature that is input by the hand on an input panel and then the handwritten signature is converted into data and stored.

The player moves from the slot machine **1010** to the hand pay terminal device **600** according to an instruction of the attendant (S**104**), and when the player performs the electric signature on the hand pay terminal device **600**, the hand pay terminal device **600** continuously displays a screen for selecting a method for receiving the hand pay amount on the display device, and urges the player to select the method for receiving the hand pay amount (S**28**). A first selection method is a cashless process that only performs the process (S**24** and S**25** described above) of transmitting credit data equivalent to the hand pay amount to the member account of the player (the member) opened in the management server **500**, and of adding the credit data equivalent to the hand pay amount to the member account of the player, and a second selection method is a cash process in which the hand pay amount is paid out in cash. In the cash process, the game value to be paid out in cash is limited to the second game value V**2** in principle.

When the method for receiving the hand pay amount is selected, the hand pay terminal device **600** transmits, to the management server **500**, electronic signature information including input electronic signature data, an electronic slip number corresponding thereto, and information on specifying the receiving method (S**29**). The management server **500**

receiving the electronic signature information officially updates the member account specified by the member information in the electronic signature information (S30). Specifically, when the cashless process, which is the first selection method, is selected, the member account of which temporary association is performed for the hand pay amount in step S25 is officially updated so as to become the balance in which the hand pay amount is added. On the other hand, when the cash payment (the cash process), which is the second selection method, is selected, the update process of the member account is performed by subtracting the hand pay amount temporarily added to the member account. The management server **500** updates the member account, such that the current credit balance is updated, and the balance before the update is stored as history information in the past.

When the cashless process, which is the first selection method, is selected, the hand pay terminal device **600** transmits, to the SMIB device **1700**, a writing instruction (S33) to the member information card, such that in the SMIB device **1700**, the hand pay amount stored in the RAM **1753** is written to the member information card (the IC card **1500**) inserted into the SMIB device **1700** at this time (S34).

When the player selects the cash process which is the second selection method, the hand pay terminal device **600** prints a hand pay receipt in which the hand pay amount or the like is described by a barcode (S31). When the hand pay receipt is printed, the attendant takes the hand pay receipt to the cage (the cashier terminal device **400**) (S105) and receives cash and a receipt in exchange for the hand pay receipt (S32). Specifically, in the cage (the cashier terminal device **400**), when the hand pay receipt is received from the attendant, a pair of receipts (a receipt for an attendant signature and a receipt for a player signature) are issued, and these receipts are handed over to the attendant. The attendant fills in his or her (the attendant) signature on the receipt for the attendant signature and returns the signed receipt to the cage. The cage receiving the receipt on which the attendant signature is written hands over cash corresponding to a face value (the hand pay amount) of the receipt in exchange for the receipt for the attendant signature to the attendant.

The attendant gives the player the receipt for the player signature, and the player fills in his or her signature on the receipt and returns the signed receipt to the attendant. The attendant gives the cash to the player in exchange for the receipt on which the player signature is written and returns the receipt to the cage. The cage keeps the receipt on which the attendant signature is written and the receipt on which the player signature is written. When the player wishes to receive a copy of the receipt on which the player signature is written, the copy of the receipt is given to the player.

As described above, in the hand pay process of the embodiment, when the hand pay is generated in the slot machine **1010**, the information on the cancellation amount of the slot machine **1010** is stored in the member account of the management server **500**, that as the hand pay process when the hand pay is generated, the cashless process can be performed without actually handing cash over to the player.

Processing time required for the hand pay process can be shortened by making it possible to perform the hand pay process without cash in this manner. It is also possible to prevent occurrence of a human error by eliminating cash receipts and payments. It becomes unnecessary that cash is handed over to an attendant in the cage and the attendant hands cash over to the player as in related art, thereby making it possible to provide a system in which it is difficult for the attendant to perform a fraudulent behavior related to the handling of cash. Since the player can transmit the amount of money related to the hand pay to the member account simply by checking the face value of the receipt displayed on the display device of the hand pay terminal device **600** and filling in the electronic signature, the player can receive the amount of money related to the hand pay without a troublesome labor of manually counting the amount of cash as in related art.

FIG. **15** is a flowchart illustrating a process (a credit balance transmission process) in which the reset key switch **1019** is operated from the process (S11) when the hand pay is generated (S22) among the processes of the SMIB device in FIG. **13**, and credit balance information adds the credit data corresponding to the hand pay amount to the member account of the player of the management server **500** from the SMIB device **1700**.

In this process, the SMIB device **1700** stores credit balance information transmitted from the slot machine **1010** in the RAM **1753** (FIG. **6**) in association with member information (information acquired from a member information card) of a player who is playing a game at this time (S50). When a hand pay is validated in the slot machine **1010**, this process may be performed by any one of a method in which the credit balance information stored in the game controller **70** of the slot machine **1010** is transmitted from the slot machine **1010** to the SMIB device **1700**, and an update method in which every time a credit balance is updated as the game progresses in the slot machine **1010**, the updated credit balance is transmitted from the slot machine **1010** to the SMIB device **1700**, and stored in the RAM **1753** of the SMIB device **1700** (described above with reference to FIG. **11**).

Next, in step S51, the SMIB device **1700** determines whether or not a hand pay condition is satisfied in the slot machine **1010**. When the hand pay is validated in the slot machine **1010**, the notification (S12) is transmitted from the slot machine **1010** to the SMIB device **1700**, thereby making it possible to recognize that the hand pay is validated in the SMIB device **1700**.

The SMIB device **1700** repeats the process of step S51 until receiving the notification from the slot machine **1010** that the hand pay is validated. When receiving the notification indicating that the hand pay is validated, the SMIB device **1700** obtains a positive result in step S51, shifts the process from step S51 to step S52, and determines whether or not erasure information is received from the slot machine **1010**.

The erasure information is information transmitted to the SMIB device **1700** under the control of the game controller **70** when an attendant operates the reset key switch **1019** in the slot machine **1010** and the credit cancellation process is performed (S23 (FIG. **13**)).

When the SMIB device **1700** determines that the erasure information is not received, the SMIB device **1700** obtains a negative result in step S52, shifts the process from step S52 to step S53, and determines whether or not a predetermined time elapses. When receiving the notification from the slot machine **1010** indicating that the hand pay condition is validated (S51: YES), the SMIB device **1700** starts an internal timer and measures an elapsed time from the start time. When a preset processing time does not elapse, the SMIB device **1700** obtains a negative result in step S53, shifts the process from step S53 to step S52 described above, and repeats the same process.

On the other hand, when the positive result is obtained in step S53, this indicates that the SMIB device **1700** does not receive the erasure information from the slot machine **1010** even after a predetermined time elapses after receiving the

information indicating that the hand pay is validated from the slot machine **1010**, such that the SMIB device **1700** shifts the process from step S**53** to step S**54** and executes an error process to display that an error occurs on the LCD **1719** of the SMIB device **1700** and to transmit error occurrence information to the management server **500**.

On the other hand, when the positive result is obtained in step S**52**, this indicates that the SMIB device **1700** receives the erasure information from the slot machine **1010** within a predetermined time after the hand pay is validated in the slot machine **1010**, that is, this indicates that the attendant operates the reset key switch **1019** of the slot machine **1010**, such that the SMIB device **1700** shifts the process from step S**52** to step S**55**, and transmits the hand pay information S**24** (FIG. **13**) including a hand pay amount representing a credit balance at this time to the member account on the management server **500** specified by the member information obtained from the IC card **1500** being inserted into the card unit **1741** at this time (FIG. **6**).

Accordingly, in the member account opened in the management server **500**, the credit balance (the hand pay amount) of the player in the slot machine **1010** when the reset key switch **1019** of the slot machine **1010** is operated and the credit cancellation process is performed is transmitted to the member account of the management server **500**. That is, the credit balance (the hand pay amount) is paid out to the player by a method of transmitting data representing the amount of money by a process (a process by the SMIB device **1700**) different from the payout process in the slot machine **1010**.

Other Embodiments

While the above-described embodiment describes a case in which the hand pay terminal device **600** is installed at a fixed position in a casino hall, the embodiment is not limited thereto and may use a portable terminal device as the hand pay terminal device **600**. In this case, when a hand pay is generated, an attendant takes a portable hand pay terminal device and goes to the slot machine **1010**, such that the process of issuing the electronic slip (S**17**) and the process of causing a player to input an electronic signature into the hand pay terminal device (S**27**) can be performed while the attendant and the player are in the slot machine **1010**. That is, the hand pay process can be performed more smoothly.

While the above-described embodiment describes a case in which the hand pay process is performed when a prize of a predetermined amount or more such as a jackpot or the like is generated, the embodiment is not limited thereto. For example, even when inconvenience occurs in the slot machine **1010**, the same process as the hand pay process according to the embodiment can be performed. Accordingly, for example, even when the credit data stored in the slot machine **1010** cannot be paid out due to the inconvenience of the slot machine **1010**, the credit data remaining in the slot machine **1010** can be manually paid out to the player by the hand pay process together with the operation of the reset key switch **1019**, such that cashless and smooth process can be performed by executing the process of the embodiment as this hand pay process.

While the above-described embodiment describes a case in which the hand pay amount is officially associated with the member account of the management server **500** when the player inputs the electronic signature in the hand pay terminal device **600**, the embodiment is not limited thereto. When the attendant operates the reset key switch **1019** of the slot machine **1010** (S**22**), the player and the hand pay amount may be immediately associated with each other.

While the above-described embodiment describes a case in which the player inputs the electronic signature via the hand pay terminal device **600** after the reset key switch **1019** is operated (S**22**), the embodiment is not limited thereto. The operation of the reset key switch **1019** may be performed (the operation becomes possible) after the player inputs the electronic signature.

While the above-described embodiment describes a case in which the IC card **1500**, which is a card-shaped medium, is used as the member information card associated with the member information or the non-member information card used by the non-member, the embodiment is not limited thereto. For example, various other portable information media such as a portable terminal device or the like can be widely applied. When the portable terminal device is used, instead of the IC card control unit **1763** (FIG. **6**), the SMIB device **1700** may include an RFID module for performing, for example, near field communication with the portable terminal device.

While the above-described embodiment describes a case in which the player inputs the electronic signature in the hand pay terminal device **600** (FIG. **7**), instead of the electronic signature, for example, the player can operate a predetermined confirmation input button of the hand pay terminal device **600**, that is, the point is that various other configurations can be used as long as a result confirmed by the player can be input.

While the embodiments of the present invention are described above, the embodiments only describe specific examples and do not particularly limit the present invention, and a specific configuration of each unit or the like can be appropriately modified. The effects described in the embodiments of the present invention are only a list of the most desirable effects obtained from the present invention, and the effects of the present invention are not limited to those described in the embodiments of the present invention.

In the above-described detailed descriptions, a characteristic part is mainly described so as to more easily understand the present invention. The present invention is not limited to the embodiments described in the detailed descriptions, but can be also applied to other embodiments and the scope of application thereof is varied. The terminology and the phase used in the present specification are used to accurately describe the present invention, and are not used to limit the interpretation of the present invention. It may be easy for those skilled in the art to reconsider other configurations, systems, methods, or the like in the concept of the present invention from the concept of the present invention described in the present specification. Therefore, the description of the scope of the claims shall be deemed to include an equivalent configuration without departing from the scope of the technical ideas of the present invention. An object of the abstract is to enable the patent office, a general public institution, and an engineer belonging to the technical field who is not familiar with patents, legal terms, or technical terms to quickly determine the technical content of the present application and nature thereof with a simple investigation. Therefore, the abstract is not intended to limit the scope of the invention to be evaluated by the descriptions of the scope of the claims. In order to fully understand the object of the present invention and the specific effect thereof, it is desirable that the pieces of literature already disclosed are interpreted with due consideration.

The above-described detailed descriptions include a process executed by a computer. The above descriptions and

expressions are intended to help those skilled in the art to understand most efficiently. In the present specification, each step used to derive one result should be understood as a process that is not self-contradictory. In each step, transmission and reception, recording, or the like of an electrical or magnetic signal are performed. In the process in each step, while such a signal is represented with bits, values, symbols, characters, terms, numbers, or the like, it should be noted that these are only used for the convenience of the descriptions. While the process in each step may be described with expressions common to a human behavior, the process described in the present specification is basically performed by various devices. Other configurations required for performing each step become obvious from the above descriptions.

REFERENCE SIGNS LIST

100: casino system
500: management server
400: cashier terminal device
600: hand pay terminal device
1010A, **1010**B: slot machine
1019: reset key switch
1500: IC card
1700: SMIB device

The invention claimed is:

1. An information processing device connected to be able to transmit and receive information to and from a gaming machine that can play a game according to an input game value, grant a player a prize according to a result of the game, and store a balance of the game value, the device comprising:

an information processing unit that is configured to be able to transmit game value information that can be used for the game to an outside in association with registered information; and

an interface that is capable of transmitting and receiving the information to and from the gaming machine,

wherein the information processing unit distinguishes and manages a plurality of types of game values as the game value information; and,

wherein when receiving, from the gaming machine, condition satisfaction information indicating that a predetermined condition for granting the prize to the player separately from a process of the gaming machine is satisfied, and receiving, from the gaming machine, erasure information indicating erasure of balance information of the game value stored in the gaming machine, the information processing unit transmits the balance information of the game value to the outside so that the plurality of types of game values can be distinguished.

2. The information processing device according to claim **1**, further comprising:

an information medium interface that receives an information media associated with specific information that specifies a player playing a game on the gaming machine,

wherein the information processing unit transmits the balance information to an account corresponding to the player specified via the received information medium.

3. The information processing device according to claim **2**,

wherein the plurality of types of game values includes:

a first game value that can be used for playing the game, and the cash conversion of which is restricted; and

a second game value that can be directly converted into cash.

4. A payout management system, comprising:

an information processing device that is connected to a gaming machine capable of playing a game according to an input game value and capable of storing a balance of the game value, and that can transmit information on the gaming machine to an outside; and

an information medium interface that receives an information medium associated with specific information that specifies a player playing a game on the gaming machine,

wherein the information processing device distinguishes and manages a plurality of types of game values as the game value information, and

when receiving, from the gaming machine, condition satisfaction information indicating that a predetermined condition for granting the prize to the player separately from a process of the gaming machine is satisfied, and receiving, from the gaming machine, erasure information indicating erasure of balance information of the game value stored in the gaming machine, the information processing device transmits the balance information of the game value by distinguishing the plurality of types of game values to an account corresponding to the player specified via the information medium received by the information medium interface.

5. The payout management system according to claim **4**, wherein the plurality of types of game values includes:

a first game value that can be used for playing the game, and the cash conversion of which is restricted; and

a second game value that can be directly converted into cash.

* * * * *