Summary Of The Invention

The Problem To Be Solved By The Invention

[0006]

Casinos are also required to introduce automatic exchange devices for gaming chip and cash currency that can be operated without human intervention. Since conventional exchange devices cannot identify the person wishing exchange P activity, and it has a problem that cannot obtain information on the exchange activity performed by a customer who is suspected of receiving a large amount of gaming chips as by fraudulent activity.

[0007]

Embodiments of the present invention seek to provide a gaming chip and cash currency exchange device equipped with a function recognizing for the person wishing exchange P activity.

Means For Solving The Problem

[0007a]

An aspect of the present invention provides an exchange device for gaming chips and cash currency, wherein the gaming chips have respective colors or indications on their respective outer surfaces that represent respective values, the exchange device comprising: a cash currency insertion opening; a cash currency reader configured to acquire authenticity information and currency information of the cash currency inserted via the cash currency insertion opening; a display on which an amount of the cash currency as reflected in the currency information acquired by the cash currency reader; a gaming chip storage in which the gaming chips can be stored by type; a gaming chip dispenser via which one or more of the gaming chips, which correspond to the amount of cash currency, can be dispensed; and a take-out section on which the dispensed gaming chips can be placed, and wherein the exchange device is configured to record exchange information that indicates an individual who used the exchange device to performed an exchange of the cash currency for the gaming chips.

[0007b]

Another aspect of the present invention provides an exchange device with which to exchange, for cash currency, gaming chips that include respective wireless tags storing currency information and that have a respective color or indication of value on their respective outside surfaces, the exchange device comprising: an insertion opening through which the gaming chips can pass; a wireless tag reader configured to read currency information from the wireless tags of the gaming chips inserted through the insertion opening; a processor configured to determine whether the currency information of the gaming chips obtained from the wireless tag reader is abnormal; a display on which an amount of the gaming chips that has been determined by the processor to be free of abnormalities can be displayed; a cash currency storage in which the cash currency can be stored by type; and a cash currency dispenser via which an amount of the cash currency that corresponds to the amount of the gaming chips that has been determined by the processor to be free of abnormalities can be dispensed from the cash currency storage, and wherein the exchange device is configured to record exchange information that indicates an individual who used the exchange device to perform an exchange of the gaming chips for the cash currency.

[0007c]

Another aspect of the present invention provides an exchange device for a gaming chip and cash currency, wherein the gaming chip incorporates a wireless tag storing currency information and has a color or indication of value on an outside surface, the exchange device comprising: an insertion opening; a cash currency reader configured to authenticity information and currency information of the cash currency inserted via the insertion opening; a wireless tag reader configured to read currency information from the wireless tags of gaming chips inserted through the insertion opening; a processor configured to determine whether the currency information of the gaming chips obtained from the wireless tag reader is abnormal; a display on which can be displayed an amount of the cash currency as reflected in the currency information acquired by the cash currency reader or an amount of the gaming chips that has been determined by the processor to be free of abnormalities; a gaming chip storage in

which the gaming chips can be stored by type; a cash currency storage in which the cash currency can be stored by type; a gaming chip dispenser via which one or more of the gaming chips, which correspond to the amount of cash currency, can be dispensed from the gaming chip storage; a take-out section on which the dispensed gaming chips can be placed; and a cash currency dispenser via which an amount of the cash currency that corresponds to the amount of the gaming chips that has been determined by the processor to be free of abnormalities can be dispensed from the cash currency storage, and wherein the exchange device is configured to record exchange information that indicates an individual who used the exchange device to performed an exchange between the cash currency and the gaming chips.

[0008]

There is also disclosed an exchange device for gaming chip and cash currency, wherein the gaming chip has a color or indication on the outer surface that represents a value, the exchange device comprising:

a cash currency insertion opening;

a cash currency reading section configured to acquire authenticity information and currency information of the cash currency inserted from the cash currency insertion opening;

an inserted cash currency amount display section configured to display an amount of the cash currency acquired by the cash currency reading section;

a gaming chip storage section configured to store the gaming chip by type;

a gaming chip dispensing section configured to dispense the gaming chip corresponding to the amount of cash currency acquired by the cash currency reading section from the gaming chip storage section; and

a take-out section on which the dispensed gaming chip is placed.

determining, and the door may be opened when the determining section determines that there is no abnormality.

[0020]

Further, the exchange device for gaming chip and cash currency as may further comprise an appearance inspection section which inspects an appearance of the gaming chip placed on the take-out section.

[0021]

Further, the exchange device for gaming chip and cash currency may further comprise an appearance inspection section which inspects an appearance of the gaming chip placed on the take-out section,

the appearance inspection section may be configured to optically ascertain number or value of the gaming chips placed on the take-out section, and

the determining section may compare and determine the chip information of the gaming chip obtained from the wireless tag reading section and number or value of the gaming chips obtained from the appearance inspection section, and if both of them match, the determining section may determine that the gaming chip placed in the take-out section is free of defects.

[0022]

Further, in the exchange device for gaming chip and cash currency, the gaming chip may have a multi-layered structure in which a plurality of plastic layers of different colors are stacked, with a colored layer at least in the middle, and a white layer or a light colored layer on both sides of the colored layer in the middle to form a striped pattern on the sides in the direction of stacking, so that the type of gaming chip can be identified by the colored layer,

the appearance inspection section may be configured to ascertain the number or value of the gaming chip by the colored layer.

[0023]

A device for exchanging gaming chips and cash currency as disclosed is configured as follows:

the gaming chip incorporates a wireless tag storing currency information and has a color or indication of value on the outside surface,

Further, in the device for exchanging gaming chips for cash currency, the appearance inspection section may have a function to optically ascertain the number or value of gaming chips inserted through the insertion opening,

the determining section may be configured to compare and determine the chip information of the gaming chip obtained from the wireless tag reading section and the number or value of the gaming chip obtained from the appearance inspection section, and if both of them match, the gaming chip may be determined to be free of abnormalities.

[0034]

Further, in the device for exchanging gaming chips for cash currency, the gaming chip may have a multi-layered structure in which a plurality of plastic layers of different colors are stacked, with a colored layer at least in the middle, and a white layer or a light colored layer on both sides of the colored layer in the middle to form a striped pattern on the sides in the direction of stacking, so that the type of gaming chip can be identified by the colored layer,

the appearance inspection section may be configured to ascertain the number or value of the gaming chips by the colored layer.

[0035]

An exchange device for a gaming chip and cash currency as disclosed is configured as follows:

the gaming chip incorporates a wireless tag storing currency information and has a color or indication of value on the outside surface,

the exchange device comprises:

an insertion opening through which the cash currency or the gaming chip can pass;

a cash currency reading section configured to acquire authenticity information and currency information of the cash currency inserted from the insertion opening;

a wireless tag reading section configured to read the wireless tag of the gaming chip inserted through the insertion opening and obtains currency information on the gaming chip;

a determining section configured to determine whether or not the currency information of the gaming chip obtained from the wireless tag reading section is abnormal;

an inserted amount display section configured to display the amount of cash currency obtained by the cash currency reading section or the amount of the gaming chip that is determined by the determining section to be free of abnormalities;

a gaming chip storage section configured to store the gaming chips by type;

a cash currency storage section configured to store the cash currency by type;

a gaming chip dispensing section configured to dispense the gaming chips corresponding to the amount of cash currency acquired by the cash currency reading section from the gaming chip storage section;

a take-out section on which the disbursed gaming chips are placed; and

a cash currency dispensing section configured to dispense the cash currency from the cash currency storage section corresponding to the amount of gaming chips that the determining section determines to be free of abnormalities.

Effect Of The Invention

[0036]

According to the exchange device for gaming chip and cash currency as disclosed, it is possible to identify a user who has carried out a gaming chip and cash currency exchange using the device.

Brief Description Of The Drawings

[0037]

FIG. 1 is an oblique view of stacked gaming chips in an embodiment of the present invention;

FIG. 2 is a diagram illustrating an overall configuration of an exchange device for gaming chips and cash currency in a first embodiment of the present invention;