(International Application Publication WO 2008/120749).

Citation List

Patent Literature

[0004]

Patent Literature 1: International Application Publication WO 2008/120749

Summary of Invention

Technical Problem

[0005]

Embodiments of the present invention seek to provide a management system or a game token that can prevent the use of false game tokens used in casino or game facilities and that can prevent the use of false game tokens and unfair exchange in casino or game facilities. In recent years, manufacturing techniques of false game tokens are progressed to such an extent that truth-or-falsity determination marks and RFIDs can be copied fully accurately. As a result, truth-or-falsity determination marks and RFIDs that are the same as authentic truth-or-falsity determination marks and RFIDs are provided on false game tokens, making it impossible to distinguish false game tokens from true game tokens and making it substantially impossible to perform truth-or-falsity determination.

Solution to Problem

[0006]

According to an aspect of the present invention, there is provided a game token management system including:

game tokens attached with unique ID that is individually identifiable;

an ID reading device that reads the unique ID attached to the game token;

a storage that holds the game token in a casher in a game place;

a game table chip tray that holds the game token in a game table;

a chip determination device that specifies a type and number of game tokens held in the game table chip tray and the storage, with the ID reading device; and

a management control device that, in the game place, manages the IDs attached to the game tokens on the database, wherein

the management control device has a function that previously registers, on the database, the IDs of the game tokens that are contemplated to be used, manages, using the database,

at least

the IDs of the game tokens present on the game table

chip tray and the storage, together with information about location, on the database, specifies the game token in the game table chip tray and the storage at predetermined timing and further retrieves the database and determines the following events by the retrieval of the database:

1) a fact that ID absent on the database is newly present and

2) a fact that two or more identical IDs are present, and

generates an error signal when status 1) or 2) is noticed.

[0007]

Furthermore, the management control device further includes a function that

when there is a change in presence of the game token in at least the game table chip tray and the storage, records a time or a place at which the change has occurred, on the database in association with the ID,

retrieves the database, and, when two or more identical IDs are present,

extracts and stores the ID and the time or the place recorded in association with the ID on the database from the database, and

specifies the time at which the detected game token attached with the ID goes in or goes out the game table chip tray or the storage, or the place of the game table chip tray or the storage in which the game token has been

According to another aspect of the present invention, there is provided a game token having a construction comprising a unique ID that is provided at at least three places of a white layer on a side face or a side face of a light-color layer, is readable by a ID reading device to identify the type of and information about manufacture of a game token, and can be managed on database.

There is also disclosed a game token having a construction having a multilayer structure including a plurality of laminated plastic layers having respective different colors, at least one layer being a colored layer, a white layer or a light-color layer being laminated on an outer side of the colored layer, the multilayer structure having a striped pattern on a side face thereof in a laminated direction, the type of the game token being identifiable by the colored layer. Further, the game token has a construction including a unique ID that is provided at at least three places of a white layer on a side face or a side face of a light-color layer, is readable by a ID reading device to identify the type of and information about manufacture of a game token, and can be managed on database. The unique ID may be inkjet-printed with an ink viewable in visible light. The unique ID may be inkjet-printed with an ink unviewable in visible light.

[0011]

According to another aspect of the present invention, there is provided a game token including IDs that are each identifiable, wherein

the unique ID provided on the game token is readable with an ID reading device, the ID reading device can read

the game token held in a storage of a casher in a game place and a game table chip tray in the game table, and, further,

a type and number of the game tokens held in the game table chip tray and the storage are specified by a chip determination device through the ID reading device,

the ID of the game token present on the game table chip tray and the storage is managed together with information about location on database,

at least

1) a fact that ID absent on the database is newly present and

2) a fact that two or more identical IDs are present, are examined, and

an occurrence of status 1) or 2) can be determined by the ID.

Brief Description of Drawings

[0012]

Fig. 1 is a schematic view of the whole management system of a game token in an embodiment of the present invention.

Fig. 2 is a side view of the game token in the embodiment of the present invention.

Fig. 3(a) is a plan view of a principal part of a