not easily extracted is disclosed in JP 2008-246103 A. Accordingly, a structure in which the radio tag hardly has a defect is implemented.

[0005]

However, when the number of gaming chips disclosed in JP 2008-246103 A is read by the radio tag, since the number of gaming chips is calculated on the basis of the read radio tag information, gaming chip information is unable to be acquired when the radio tag installed in the gaming chip is broken or when no radio tag is installed, and there is a problem in that there is a difference between the actual number of gaming chips and the number of gaming chips calculated by reading the radio tag.

[0006]

Embodiments of the present invention seek to provide an inspection system and an inspecting device which may be capable of detecting whether or not the radio tag is broken.

[0006a]

An aspect of the present invention provides an inspection system configured to inspect gaming chips with built-in RFID tags, the inspection system comprising: an inspection table on which a plurality of gaming chips are placed side by side; a plurality of sensors configured to detect a presence of each of the plurality of gaming chips placed on the inspection table in a manner other than by an RFID reading operation; one or more RFID antennas configured to be used to detect the presence of the gaming chips by reading the RFID tags of the plurality of gaming chips placed on the inspection table; a controller configured to detect a presence of an abnormal gaming chip which is fake or damaged by comparing results of detections by the

plurality of sensors with results of detections using the one or more RFID antennas; and an output device configured to output a result of the comparison or detection of the presence of the abnormal gaming chip by the controller.

[0007]

There is also disclosed an inspection system that inspects gaming chips each having a color or a display indicating a value on an outer surface in a state where the gaming chips are stored in a case in which a maximum of the number of gaming chips to be stored is limited, a radio tag storing gaming chip information being embedded in each of the gaming chips, the gaming chips being stored in the case capable of containing a row of gaming chips stacked in a thickness direction, the inspection system including: a reading device

that reads the radio tag of the gaming chip in the case and acquires gaming chip information of the gaming chip; and a determining unit that compares the gaming chip information acquired by the reading device with a maximum of the number of gaming chips storable in the case and determines an abnormality of the gaming chip in the case when the number of gaming chips obtained from the gaming chip information acquired by the reading device is different from a maximum of the number of storable gaming chips.

[0008]

As disclosed, the determining unit has a function of comparing a physical characteristic of the case or physical information of the gaming chip obtained from a physical measurement means other than the reading device with the number of physical information of the gaming chip obtained from the gaming chip information acquired by the reading device, determining that there is an abnormal gaming chip among the gaming chips contained in the case when both pieces of information do not coincide with each other, and outputting a determination result.

[0009]

As disclosed, the physical information is a number or height which is obtained optically or a weight which is obtained by measurement.

[0010]

The inspection system as disclosed may further include a radio tag information database which is able to refer to information of the radio tag embedded in the gaming chip, wherein the determining unit is configured to compare the gaming chip information of the gaming chip read by the reading device with the information of the radio tag information database and detect an abnormality of a gaming chip of an inspection target.

[0011]

As disclosed, the determining unit has a function of comparing, when it is determined that there is an abnormal gaming chip among the gaming chips in the case, the information of the radio tags of all the gaming chips in the case with the radio tag information database registered in advance and specifying the presence of an abnormal radio tag which is not stored in the radio tag information database.

[0012]

As disclosed, the determining unit has a function of specifying, when it is determined that there is an abnormal gaming chip among the gaming chips in the case, the presence of an abnormal gaming chip in which information from the radio tag is unable to be obtained among the gaming chips in the case.

[0013]

As disclosed, the determining unit has a function of analyzing the information of the radio tag acquired by the reading device and issuing a signal when two or more gaming chips having the same information obtained from the radio tag are contained in the case.

[0014]

As disclosed, the radio tag information database is an information database of radio tags of gaming chips being stored or used in a game hall, and the determining unit has a function of analyzing the information of the radio tag acquired by the reading device and issuing a signal when information obtained from the radio tag coincides with information of a radio tag of a gaming chip placed in a different place in the game hall.

[0015]

There is also disclosed an inspecting device that inspects gaming chips each having a color or a display indicating a value on an outer surface, a radio tag storing gaming chip information being embedded in each of the gaming chips, the inspecting device including: an inspection table capable of inspecting the gaming chips in a state where the gaming chips are stacked in a row in a thickness direction, and a maximum of the number of stackable gaming chips is limited; a reading device that reads the radio tags of the row of gaming

chips and acquires the gaming chip information of the row of gaming chips; and a determining unit that compares the gaming chip information acquired by the reading device with a maximum of the number of stackable gaming chips of the inspection table and determines an abnormality of the gaming chip placed on the inspection table when the number of gaming chips obtained from the gaming chip information acquired by the reading device is different from a maximum of the number of stackable gaming chips.

[0016]

As disclosed, the determining unit has a function of determining, when the gaming chip information of the gaming chip acquired by the reading device does not coincide with physical information of the gaming chip, the presence of an abnormal gaming chip among the gaming chips placed on the inspection table and outputting a determination result.

[0017]

As disclosed the physical information is a number or height which is obtained optically or a weight which is obtained by measurement.

[0018]

The inspecting device as disclosed may further include a radio tag information database which is able

to refer to information of the radio tag embedded in the gaming chip, wherein the determining unit is configured to compare the gaming chip information of the gaming chip read by the reading device with the information of the radio tag information database and detect an abnormality of a gaming chip of an inspection target placed on the inspection table.

[0019]

As disclosed, the determining unit has a function of comparing, when it is determined that there is an abnormal gaming chip among the gaming chips on the inspection table, the information of the radio tags of all the gaming chips on the inspection table with the radio tag information database registered in advance and specifying the presence of an abnormal radio tag which is not stored in the radio tag information database.

[0020]

As disclosed, the determining unit has a function of specifying, when it is determined that there is an abnormal gaming chip among the gaming chips in the case, the presence of an abnormal gaming chip in which information from the radio tag is unable to be obtained among the gaming chips in the case.

[0021]

As disclosed, the determining unit has a function of analyzing the information of the radio tag acquired by the reading device and issuing a signal when two or more gaming chips having the same information obtained from the radio tag are contained in the case.

[0022]

As disclosed, the radio tag information database is an information database of radio tags of gaming chips being stored or used in a game hall, and the determining unit has a function of analyzing the information of the radio tag acquired by the reading device and issuing a signal when information obtained from the radio tag coincides with information of a radio tag of a gaming chip placed in a different place in the game hall.

[0023]

There is also disclosed a gaming chip that is inspectable by the inspection system according to any one of the first to eighth aspects in a state where the gaming chip is stored in a case in which a maximum of the number of gaming chips is limited, a radio tag storing gaming chip information embedded in the gaming chip, a color or a display indicating a value being arranged on an outer surface of the gaming chip.

[0024]

The foregoing and other objects, features, aspects and advantages of the exemplary embodiments will become more