Accordingly, a structure in which the radio tag hardly has a defect is implemented.

SUMMARY OF THE INVENTION

PROBLEM TO BE SOLVED BY THE INVENTION

[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.

SOLUTION TO RESOLVE THE PROBLEM

[0007]

An aspect of the present invention provides an inspection system of an item, the inspection system comprising a reading device, wherein the reading device is configured to acquire item information by reading a respective radio tag of each of one or more of a plurality of items; and a determining unit,

wherein the determining unit is configured to obtain a physical number of the plurality of items; compare a count of the plurality of items obtained based on the item information acquired by the reading device with the obtained physical number; determine a presence of one or more abnormal items among the plurality of items based on a determination that the count does not match the obtained physical number; and output a result associated with an indication of the one or more abnormal items.

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]

According to the disclosure, 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]

According to the disclosure, the physical information is a number or height which is obtained optically or a weight which is obtained by measurement.

[0010]

The inspection system according to the disclosure 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]

According to the disclosure, 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]

According to the disclosure, 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]

According to the disclosure, 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]

According to the disclosure, 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]

According to the disclosure, 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]

According to the disclosure, the physical information is a number or height which is obtained optically or a weight which is obtained by measurement.

[0018]

The inspecting device according to the disclosure 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]

According to the disclosure, 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]

According to the disclosure, 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]

According to the disclosure, 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]

According to the disclosure, 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

What is claimed is:

1. An inspection system of an item, the inspection system comprising:

a reading device, wherein the reading device is configured to acquire item information by reading a respective radio tag of each of one or more of a plurality of items; and

a determining unit, wherein the determining unit is configured to:

obtain a physical number of the plurality of items;

compare a count of the plurality of items obtained based on the item information acquired by the reading device with the obtained physical number;

determine a presence of one or more abnormal items among the plurality of items based on a determination that the count does not match the obtained physical number; and

output a result associated with an indication of the one or more abnormal items.

2. The inspection system according to claim 1, wherein the physical number of the plurality of items is associated with physical information.

3. The inspection system according to claim 2, wherein the physical information indicates a number or height

obtained optically.

4. The inspection system according to claim 2, wherein the physical information indicates a height obtained optically.

5. The inspection system according to claim 2, wherein the physical information indicates a weight obtained by measurement.

6. The inspection system according to claim 1, wherein the determination of the presence of the one or more abnormal items includes determining presence of an item from which information cannot be obtained via radio tag as one of the one or more abnormal items.

7. The inspection system according to claim 1, wherein the determination, in response to which the result is output, includes determining that the item information of the radio tags of two or more of the plurality of items is the same as each other.

8. The inspection system according to claim 1, further comprising:

a radio tag information database configured to store information associated with the respective radio tags of the one or more of the plurality of items;

wherein the determining unit is further configured

to:

compare the item information of the item acquired by the reading device with the information of the radio tag information database; and

based on a result of the comparison with the information of the radio tag information database, detect an abnormality of one or more of the plurality of items.

9. The inspection system according to claim 1, further comprising:

a radio tag information database configured to store information associated with the respective radio tags of the one or more of the plurality of items;

wherein the determining unit is configured to, based on the determination of the presence of the one or more abnormal items:

compare all of the item information obtained by the reading device reading the respective radio tags of the plurality of items with the information of the radio tag information database; and

based on a result of the comparison of all of the item information obtained by the reading device reading the respective radio tags of the plurality of items with the information of the radio tag information database, determine presence of an abnormal radio tag whose information is not stored in the radio tag information database.