CASINO SYSTEM, CASINO ITEM, AND METHOD OF PROVIDING CASINO ITEMS

CROSS REFERENCE TO RELATED APPLICATION

[0001]

This nonprovisional application is based on Japanese Patent Application No. 2020-128075 filed with the Japan Patent Office on July 29, 2020, the entire contents of which are hereby incorporated by reference.

FIELD

[0002]

The present disclosure relates to a casino system applied to casinos that use casino items, casino item that can be used in casino, and a method for providing casino items.

BACKGROUND

[0003]

Casino items used in casinos requires high security, and casino items should be strictly controlled. For example, casino items is manufactured in a manufacturing factory, but there is a risk of theft by malicious persons during the process of transporting the equipment from the manufacturing factory to the casino and using it on the floor. There is also a risk of counterfeit casino items being used on the casino floor to help players win games unfairly.

SUMMARY

[0004]

One of the purposes of the present disclosure is to enhance the security management of casino items.

[0004a]

According to an aspect, there is provided a casino system in a casino that uses a gaming chip with an RFID tag that stores identification information, the casino system comprising:

a determination device configured to determine whether or not the identification information read from the RFID tag matches the identification information prepared by a manufacturer of the gaming chip, for the gaming chip delivered from the manufacturer of the gaming chip to the casino;

a registration device that is installed in the casino and is configured to register, in a database, the gaming chip whose identification information is determined to match, with at least one predetermined status indicating that the gaming chip is usable as a bet chip in the casino;

a verification device that is installed at a gaming chip handling location in the casino and is configured to read the identification information from the RFID tag of the gaming chip and verify whether or not the gaming chip whose identification information is read is registered in the database with the at least one predetermined status by the registration device.

[0005]

The casino system of one aspect of the present disclosure is a casino system in a casino that uses casino items to which RFID tags storing identification information are attached, and has a first reading device installed in the casino and configured to read the identification information from the RFID tags of the

Claims:

1. A casino system in a casino that uses a gaming chip with an RFID tag that stores identification information, the casino system comprising:

a determination device configured to determine whether or not the identification information read from the RFID tag matches the identification information prepared by a manufacturer of the gaming chip, for the gaming chip delivered from the manufacturer of the gaming chip to the casino;

a registration device that is installed in the casino and is configured to register, in a database, the gaming chip whose identification information is determined to match, with at least one predetermined status indicating that the gaming chip is usable as a bet chip in the casino;

a verification device that is installed at a gaming chips handling location in the casino and is configured to read the identification information from the RFID tag of the gaming chip and verify whether or not the gaming chip whose identification information is read is registered in the database with the at least one predetermined status by the registration device.

2. The casino system according to claim 1, wherein the database is configured to store the identification information that is determined to match by the verification device.

3. The casino system according to claim 2, wherein the verification device is configured to verify whether or not the read identification information is stored in the database.

4. The casino system according to claim 1, wherein the determination device is configured to perform the determination when a registration is performed by the registration device.

5. The casino system according to claim 1, wherein the determination device is installed in a factory that manufactures the gaming chip and is configured to perform determination about gaming chips that

are manufactured and to be shipped at the factory.

6. The casino system according to claim 1, wherein the registration device is configured to update the database so as to invalidate the at least one predetermined status of the gaming chip registered in the database under predetermined conditions.

7. The casino system according to claim 6, wherein the verification device is configured to, even if the identification information read from the RFID tag of the gaming chip matches the identification information prepared by the manufacturer of the gaming chip, in the case where the casino item is not registered in the database with the at least one predetermined status by the registration device, determine that the gaming chip is unusable.

8. The casino system according to claim 1, wherein the registration device is configured to update the database so as to delete from the database the gaming chip that meet the predetermined conditions.

9. The casino system according to claim 1, wherein the gaming chip carries information for identifying the gaming chip in a manner other than the RFID tag, and

the registration device is configured to update the database so as to disable or remove from the database the gaming chip that cannot read the identification information but is identified by the way other than the RFID tag.

10. The casino system according to claim 1, wherein the identification information includes tag identification information assigned by a manufacturer of the RFID tag and item identification information assigned by the manufacturer of the gaming chip.

11. The casino system according to claim 10, wherein the verification device is configured to, usually, match the item identification information read from the gaming chip at the gaming chips handling location in the casino with the item identification information read in the past, and at a predetermined timing and/or under a predetermined

condition, match the tag identification information read from the gaming chip at the gaming chips handling location with the tag identification information of the gaming chip registered in the database.

12. The casino system according to claim 1, wherein the identification information prepared by the manufacturer of the gaming chip is encrypted,

the registration device has a function to decrypt the encrypted identification information.

13. The casino system according to claim 1, wherein the registration device registers a plurality of gaming chips simultaneously.

14. The casino system according to claim 13, wherein the plurality of gaming chips received from the manufacturer of the gaming chips are contained in a single case,

the case is provided with case identification information,

the casino system further comprises a reading device configured to read the case identification information, and

the determination device is configured to determine whether or not the case identification information given by the manufacturer of the gaming chips matches the case identification information read by the reading device.

15. The casino system according to claim 13, wherein the plurality of gaming chips received from the manufacturer of the gaming chips are contained in a single case that can hold a predetermined number of the gaming chips, and

the determination device is configured to determine whether the number of the gaming chips based on the number of the identification information read from the RFID tag matches the predetermined number of the gaming chips that can be accommodated in the case.

16. The casino system according to claim 13, wherein the plurality of gaming chips accepted from the manufacturer of the gaming chips are contained in a single case,

the case is provided with case identification information.

the casino system further comprises a reading device configured to read the case identification information, and

the determination device is configured to identify the identification information of the plurality of gaming chips contained in the case based on the case identification information read by the reader and determine whether or not the identified identification information matches the identification information read from the RFID tag.

17. The casino system according to claim 1, wherein the RFID tag stores manufacturing information indicating the manufacturing status of the gaming chip, type information indicating the type of the gaming chip, and/or information on the casino where the gaming chip is used, and

the manufacturing information, the type information, and/or the casino information corresponding to the identification information is given to the registration device by the manufacturer of the gaming chip, along with the identification information.

18. The casino system according to claim 1, wherein the type information as well as the identification information is prepared by the manufacturer of the gaming chip, and the type of the gaming chip for determination is specified by an operator of the determination device,

the determination device is configured to determine whether or not the type information prepared by the manufacturer of the gaming chip corresponding to the identification information read from the RFID tag matches the type information specified by the operator.

19. The casino system according to claim 1, wherein the RFID tag stores type information indicating the type of the gaming chip,

a type of the gaming chips to be determined is specified to the determination device by an operator of the registration device, and

the determination device is configured to determine whether or not the type information read from the RFID tag matches the type information specified by the operator.

20. The casino system according to claim 1, further comprising an identification device configured to capture an image of the gaming chip and identify type information of the gaming chip based on the image, wherein

the determination device is configured to be provided with the type information along with the identification information from the manufacturer of the gaming chip and be provided with the type information identified by the identification device,

the determination device is configured to determine whether or not the type information given by the manufacturer of the gaming chip corresponding to the identification information read from the RFID tag matches the type information identified by the identification device.

21. The casino system according to claim 1, further comprising an identification device that configured to capture an image of the gaming chip and identify type information of the gaming chip based on the image, wherein

the RFID tag stores type information indicating the type of the gaming chip,

the determination device is configured to determine whether or not the type information read from the RFID tag matches the type information identified by the identification device.

22. The casino system according to any of claims 15 to 19, wherein the type information is information representing the value of the gaming chip.

23. The casino system according to claim 1, wherein the gaming chip further has the identification information by means other than the RFID tag.

24. The casino system according to claim 1, wherein the identification information prepared by the manufacturer of the gaming chip has date information, and

the determination device is configured to determine whether or

not the difference between the date information provided by the manufacturer of the gaming chip and the current date exceeds a predetermined threshold.

25. The casino system according to any of claims 1 to 24, wherein the gaming chip can be used by the player in the casino to bet in the game and can be redeemed for cash.