CLAIMS:

1. A fraudulence monitoring system of a table game, the fraudulence monitoring system comprising:

a win or lose determination device configured to determine win or lose results for each game at a game table;

a bet chip measuring device configured to determine, for each game, an amount of bet chips bet by at least one game participants on the game table and a bet target to which the at least one game participants bet the game chips; and

a management control device configured to:

determine a win or lose result of the bet chip based on the win or lose result determined by the win or lose determination device and the bet target determined by the bet chip measuring device, and calculate a winning rate of each game participant or each player position at the game table based on the win or lose result of the bet chip,

inspect the winning rates during a period from an exchange of a shuffled playing card set to a next exchange of the shuffled playing card set, and when there is a significant difference between an actual winning rate obtained by the inspection and a winning rate obtained by a probability statistics calculation determine that the shuffled playing card set is abnormal.

2. The fraudulence monitoring system of a table game according to claim 1, wherein:

the management control device is further configured to:

specify a dealer in each game; and

specify at least one of a game participant, a dealer, a player position, a game table, or a room in which the game table is located, in which the significant difference has occurred in a series of games.

3. The fraudulence monitoring system of a table game according to claim 1 or 2, wherein the management control device is configured to:

factorize a total return amount in a series of games in which the significant difference occurs; and

specify whether an occurrence cause of the significant difference in the series of games in which the significant difference occurs is due to the winning rates or due to a magnitude of a bet amount of the bet chips.

4. The fraudulence monitoring system of a table game according to claim 1 or 2, wherein:

the management control device is configured to:

store a bet amount for each game at bet positions having different return rates; and

specify whether an occurrence cause of the significant difference in a series of games in which the significant difference has occurred is related to a bet position having different return rates.

5. The fraudulence monitoring system of a table game according

to claim 1 or 2, wherein:

the management control device is configured to:

have a plurality of criteria to determine whether there is the significant difference; and

issue a different kind of warnings for each criterion.

6. The fraudulence monitoring system of a table game according to claim 1 or 2, wherein:

the management control device is configured to:

have different criteria to determine the significant difference for each number of games divided by a predetermined rule or for each of a predetermined number of games; and

issue a different kind of warnings for each criterion.

7. The fraudulence monitoring system of a table game according to claim 1, wherein:

the management control device is configured to:

determine whether the significant difference exists either for each game individually or at intervals of a predetermined number of games is progressed in accordance with a progress of a plurality of games; and

issue a warning when the significant difference exceeds a determination criterion.

8. The fraudulence monitoring system of a table game according to claim 1, wherein:

the management control device is configured to:

have a plurality of criteria to determine whether the significant difference exists; and

specify the game participant or the player position having a fraudulence possibility for each criterion;

score the fraudulence possibility for each different criteria; and

display a warning as a score or rank.

9. The fraudulence monitoring system of a table game according to claim 1, wherein:

the management control device is configured to:

obtain the number on a probability statistical calculation used to determine whether the significant difference exists, using a conditional probability calculation when certain elements are fixed values.

10. The fraudulence monitoring system of a table game according to claim 1, wherein:

the management control device is configured to:

sequentially determine ranks of playing cards or a roll of a dice in a series of games; and

estimate a fraudulence cause in a case in which it is determined that the significant difference exists based on data of the ranks or the rolls in a series of games; and

enumerate the fraudulence cause with possibility.

11. The fraudulence monitoring system of a table game

according to claim 1, wherein:

the management control device is configured to:

estimate a fraudulence cause determined that the significant difference exists using big data of past games or past fraudulent data, or a combination thereof, and enumerate the fraudulence cause with a fraudulence possibility.