[0007]

Furthermore, fraud on a game table is so sophisticated that it is not possible to find, for example, fraud made in a sophisticated way of betting by, for example, simply detecting that the amount won on a certain game table is large with a camera, thus posing a new problem.

[0008]

Moreover, a dealer needs to collect game tokens and distribute game tokens as a reward placed on a game table according to win-loss results. Assume that this operation is determined by image analysis. In this case, because each game token (chip) has a complex design, it is not possible with any existing practical image analysis technique to determine whether the dealer has performed correct distribution for a reward when distributing chips as a reward corresponding to bet chips, thus resulting in the problem of insufficient prevention of mishandling.

Solution to Problem

[0009]

A first aspect of the present invention provides a table game management system that includes a card distributor that determines and displays a win-loss result on each game on a game table, a measurement device that measures types and number of game tokens

A second aspect of the present invention provides a game token that includes an arrangement having plastic layers with a plurality of different colors stacked on each other, with a colored layer being provided at least intermediately, and white layers or light-colored layers being stacked on two sides of the colored layer, so as to form a striped pattern on a side surface in a stacking direction and allow identification of the type of game token according to the colored layer.

[0012]

In addition, the game token has a print indicating the type of game token provided on a surface of the white layer or the light-colored layer, and a transparent layer is provided on an outermost layer, with the layers being bonded to each other by thermal compression to form at least a five-layer structure.

[0013]

Furthermore, the game token may be configured such that a mark formed by UV ink or carbon black ink is provided on a surface of the white layer or the light-colored layer, that the transparent layer on the outermost layer is embossed, that R chamfering is provided to an edge of the transparent layer on the outermost layer, that the colored layer includes a plurality of layers, or that the colored layer incorporates an RFID.

[0014]

A third aspect of the present invention provides

an inspection apparatus that inspects a game token according to the second aspect, that includes a path including an inlet and an outlet through which a game token is allowed to pass in a radial direction, a chip type determination device that determines the color of a striped pattern on a side surface of a game token in a stacking direction by shooting the game token passing through the path, a mark reader that reads a mark printed by UV ink or carbon black ink and provided on a surface of a passing game token, a print inspection device that reads a print indicating a type, which is provided on a surface of a game token, from a direction perpendicular to the path, and a control device for the overall apparatus, wherein the control device is configured to inspect whether a chip type determined by the chip type determination device matches information of the print indicating the type obtained from the print inspection device.

Advantageous Effects of Invention

[0015]

A system according to embodiments of the present invention may allow determination of the number of game tokens (chips) by image analysis even if a large number of chips are stacked on each other, and can grasp the total amount of game tokens stacked relatively high on the basis of the position and the colors.

Brief Description of Drawings