Claims

1. A spinning top scoring system with easy operation, which is characterized by comprising:

a toy spinning top, which is a toy main body that is able to rotate in response to a signal emitted by a supporting signal transmitter, the toy spinning top including a first RFID chip for storing and communicating information;

a function card including a second RFID chip therein for storing and communicating information; and

a cell phone with an NFC function, wherein the cell phone comprises a spinning top scoring software system, which is used for reading and displaying the information stored in the first and second RFID chips of the toy spinning top and function card, and writing information into the first and second RFID chips of the toy spinning top and function card.

2. The spinning top scoring system with easy operation as claimed in claim 1, characterized in that the spinning top scoring software system of the cell phone comprises an activation system, a query system, a modification system and an uploading system, wherein operations of activation, query, modification and uploading to the toy spinning top are implemented through placing an NFC sensing region of the cell phone close to the first RFID chip of the toy spinning top.

3. The spinning top scoring system with easy operation as claimed in claim 1, characterized in that a round cap for installation of the first RFID chip of the toy spinning top is provided in a central upper portion of the toy spinning top, and a corresponding accommodation chamber is also provided in the toy spinning top, wherein the round cap is disposed in the accommodation chamber, so as to allow the first RFID chip to be installed in the toy spinning top in such a way that the first RFID chip can be easily uninstalled from the toy spinning top.

4. The spinning top scoring system with easy operation as claimed in claim 1, wherein information of the function card can include points, medals and footmark.

5. The spinning top scoring system with easy operation as claimed in claim 1, characterized in that it further comprises a battle plate for two toy spinning tops to rotate and compete against each other, the battle plate comprises a plate body and an operator that is located at one end of the plate body, the operator comprises a main control module, a reading and writing module, a displaying module and an information storage and comparison module, which are controlled by the main control module, wherein the reading and writing module is used for communicating with the first RFID chip in the toy spinning top, the displaying module comprises a display screen, an indication light and buttons, wherein the displaying module is used for displaying the scoring data stored in the first RFID chip in the toy spinning top, and the buttons are used for outputting or inputting the scoring data stored in the first RFID chip of the toy spinning top, the information storage and comparison module is connected to the main control module via a specific interface, and through the information storage and comparison module, internal information is outputted to the outside or external information is inputted and stored therein.

6. The spinning top scoring system with easy operation as claimed in claim 1, characterized in that it further comprises a training plate for a single toy spinning top to practice, the training plate comprises a round plate body and a main controller that is located outside the round plate, an impact post with impact sensor is provided in the center of the round plate, the impact sensor communicates with the main controller and is able to transmit the information of the number of the impact post being impacted by the toy spinning top during rotation of the toy spinning top to the main controller, and the main controller comprises a reader and whiter that communicates with the first RFID chip in the toy spinning top, a display screen that is used for displaying time and score, a sensing information receiving and processing module that is used for receiving and then processing the sensing information transmitted from the impact sensor, and operation buttons.

7. A method of reading and writing data information of the spinning top scoring system claimed in claim 1, claim 2 or claim 3, characterized in that it comprises a method for reading and writing the identity information of the toy spinning top and the cell phone, and a method for reading and writing the scoring data, comprising the steps set forth below:

a. inserting the first RFID chip into the toy spinning top and then securing it in the toy spinning top;

b. opening a spinning top scoring software installed in a cell phone, entering a main interface, wherein the main interface comprises five icons, including "activation", "query", "management", "play" and "help";

c. clicking the icon of "activation" to enter a sub-interface of activation, filling or modifying the identity information shown in the sub-interface of activation with a key board of the cell phone, and after completion of the filling or modifying process, clicking the icon of "activation" shown in a dialog box to enter an alerting state of "alert of sensing the toy spinning top";

d. placing an NFC sensing region of the cell phone close to the toy spinning top that is installed with the first RFID chip, in the case that it is sensed that the toy spinning top has already been activated or cannot be activated, making an alert of corresponding information and suggesting to select another toy spinning top, and in the case that it is sensed that the toy spinning top has not been activated, entering an active state and displaying a corresponding alert, following a successful activation, displaying an identity information;

e. clicking the icon of "query" to enter a sub-interface of query, placing the NFC sensing region of the cell phone close to the toy spinning top that is installed with the first RFID chip, reading identity information and score information of the toy spinning top;

f. following a confirmation about the information of the toy spinning tops of two sides, the two sides playing a competition game of toy spinning top, and then determining a result of the competition game;

g. clicking the icon of "play" to enter a sub-interface of play, placing the NFC sensing region of the cell phone close to the toy spinning top of the player who lost the game, conducting a points deduction operation to remove corresponding points from the toy spinning top of the player who lost the game and saving the points temporally in the cell phone;

h. placing the toy spinning top of the player who won the game close to the NFC sensing region of the cell phone, and then transferring the points that have been deducted from the player who lost the game and saved temporally in the cell phone to the toy spinning top of the player who won the game;

i. clicking the icon of "management" to enter a sub-interface of management, placing a toy spinning top close to the NFC sensing region of the cell phone, following a successful sensing, the foregoing toy spinning top can be performed with the operations including network ranking, network scoring and formatting the toy spinning top's information, as well as the operations including visiting its official website, updating software and obtaining version information.

8. A method for reading and writing data of a toy spinning top including a first RFID chip and a function card including a second RFID chip, comprising the steps set forth below:

a. opening a spinning top scoring software of a cell phone having an NFC sensing region, entering a main interface, and then entering a sub-interface of play;

b. placing the function card close to ~~an~~the NFC sensing region of ~~a~~the cell phone, the cell phone receiving information stored on the function card in the second RFID chip and then performing a corresponding operation, ~~and~~ the information received from the function card being temporality saved ~~saving the information~~ in the cell phone; ~~and~~

~~b~~c. after completion of the operation of the function card, the interface showing an alert, then placing the toy spinning top close to the NFC sensing region of the cell phone, after a successful sensing, the information received from ~~of~~ the function card being written from the cell phone into the first RFID chip of the spinning top; ~~from the cell phone.~~and

d. in the case that the information in the first RFID chip in the toy spinning top is not full, then the writing operation being successfully implemented.

9. The method of claim 8, wherein the information of the function card includes points, medals and footmarks.

~~10. The method of claim 8, wherein the cell phone receives the information stored on the function card from an RFID chip of the function card.~~

~~11. The method of claim 10, wherein the information of the function card is written into an RFID chip of the spinning top.~~