CLAIMS

【Claim 1】

An empty card device comprising:

a first module configured to store empty card data of an empty card, the empty card data including a card number and a serial number of the empty card;

a second module configured to communicate with a user terminal through wireless communication; and

a processor configured to transmit the empty card data to the user terminal through the second module and to allow the user terminal to make a request for registration of the empty card to a server, via a service application installed in the user terminal, when communication between the empty card and the user terminal is detected,

wherein, during registration, a real card number sent via the user terminal to the server is stored in a real card number storage location in the server that is associated with a user ID (UID),

wherein the UID is provided by the server to the user terminal and is used by the service application whenever the empty card is used for performing a financial transaction to generate a virtual card number that is used by the server to locate the real card number storage location to obtain the real card number stored therein for use in the financial transaction.

【Claim 2】

The empty card device of claim 1, wherein the card number and the serial number are given when the empty card is produced.

【Claim 3】

The empty card device of claim 1, wherein the first module includes an integrated circuit (IC) module, and

wherein the second module includes a near field communication (NFC) module.

【Claim 4】

A computer-readable recording medium including a program for executing a method for executing a service of registration of an empty card in combination with a computer that is a piece of hardware, the program performing:

receiving empty card data of the empty card from a device of the empty card, the empty card data including a card number and a serial number of the empty card; and

while transmitting the empty card data to a server, requesting the server to register the empty card,

wherein, during registration, sending a real card number to the server for storing in a real card number storage location in the server, the real card number storage location being associated with a user ID (UID),

wherein the UID is provided by the server for use, whenever the empty card is used for performing a financial transaction, to generate a virtual card number that is used by the server to locate the real card number storage location to obtain the real card number stored therein for use in the financial transaction.

【Claim 5】

The computer-readable recording medium of claim 4,

wherein generating the virtual card number is based further on the empty card data.

【Claim 6】

The computer-readable recording medium of claim 5, wherein the virtual card number includes at least one detailed code,

wherein the detailed code is changed and generated for each unit count, and

wherein the unit count is set to a specific time interval and is changed as the time interval elapses.

【Claim 7】

A server for providing a registration service by using an empty card, the server comprising:

a communication unit configured to communicate with a user terminal;

a memory; and

a processor configured to

receive empty card data of the empty card from the user terminal for registering the empty card with the server, the empty card data including a card number and a serial number of the empty card, and

receive a real card number for storing in a real card number storage location in the memory, the real card number storage location being associated with a user ID (UID),

wherein the UID is provided by the server to the user terminal, whenever the empty card is used for performing a financial transaction, to generate a virtual card number that is received by the server and used by the server to locate the real card

number storage location to obtain the real card number stored therein for use in the financial transaction.