

WHAT IS CLAIMED IS:

1. A method for providing a virtual code, the method comprising:

receiving, by a virtual code verifying means, the virtual code generated by a
5 virtual code generating means;

extracting, by the virtual code verifying means, a plurality of detailed codes
included in the virtual code; and

searching for, by the virtual code verifying means, a storage location of a real
code based on a correlation between the plurality of detailed codes,

10 wherein the plurality of detailed codes are changed per unit count set at a
specific time interval.

2. The method of claim 1, wherein the plurality of detailed codes includes a first
code and a second code, and

15 wherein the first code and the second code are used in a storage location search
algorithm of the virtual code verifying means as a search start point and a search path
respectively.

3. The method of claim 2, wherein the virtual code generating means generates a
20 virtual code by an embedded or installed virtual code generation function, and

wherein the virtual code generation function includes a first function or a
second function for providing different M^N codes as the first code or the second code
sequentially changed per unit count, when generating the first code or the second code
of 'N' ('N' is a natural number) digits with 'M' ('M' is a natural number) characters.

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4. The method of claim 3, wherein the virtual code generation function includes a detailed code combination function corresponding to a rule of sorting the plurality of detailed codes.

5 5. The method of claim 3, wherein the virtual code generation function includes a plurality of detailed code generation functions that respectively generate the plurality of detailed codes,

wherein a specific sorting rule of sorting 'M' characters in an ascending order is applied to the detailed code generation functions, and

10 wherein the 'M' characters include at least one of an uppercase alphabet, a lowercase alphabet, a numeral, and a special character.

6. The method of claim 1, wherein the virtual code further includes a fixed code for determining a group including the virtual code generation means,

15 wherein the extracting further includes:

extracting the fixed code from the virtual code, and

wherein the searching includes:

determining, by the virtual code verifying means, a group to which a specific virtual code generating means generating the virtual code belongs, based on the fixed

20 code extracted from the virtual code to determine a storage location search algorithm for the group.

7. The method of claim 2, wherein the first code is a code corresponding to the number of unit counts that elapse from a point in time when an operation of a specific
25 storage location search algorithm is started,

wherein the second code is a code corresponding to the number of unit counts that elapse from a point in time when the real code for the virtual code generating means is generated newly, and

wherein the storage location search algorithm stores each real code in different
5 unit counts.

8. The method of claim 2, wherein the virtual code further includes a secure code of a specific-digit number, and

wherein the secure code is generated using an eigen identification value and
10 generation time data of the virtual code generating means as a function value, and

wherein the virtual code verifying means receives and stores the eigen identification value when a real code for the virtual code generating means is generated.

15 9. The method of claim 2, further comprising:

comparing a first reception code generated by the virtual code generating means with a first generation code generated depending on a first function included in the virtual code verifying means;

when the first reception code is included in an allowable error range from the
20 first generation code, setting the first reception code to the first code corresponding to the search start point; and

when the first reception code departs from the allowable error range from the first generation code, determining the first reception code as an abnormal code,

wherein the virtual code verifying means includes a first function the same as
25 the virtual code generating means.

10. A program for providing a virtual code, the program being stored in a medium to be combined with a computer which is hardware and perform the method of any one of claims 1 to 9.

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11. A virtual code generating device, comprising:
a detailed code generating unit configured to generate a plurality of detailed codes;

a virtual code generating unit configured to generate a virtual code by
10 combining the plurality of detailed codes; and

a virtual code providing unit configured to output the virtual code to the outside to provide the virtual code to a virtual code verifying device,

wherein the plurality of detailed codes are changed per unit count set at a specific time interval and extracted from the virtual code by the virtual code verifying
15 device for searching for a storage location of a real code based on a correlation between the plurality of detailed codes.

12. The virtual code generating device of claim 11, wherein the plurality of detailed codes includes a first code and a second code, and

20 wherein the first code and the second code are used in a storage location search algorithm of the virtual code verifying device as a search start point and a search path respectively.

13. The virtual code generating device of claim 12, wherein the first code is a code corresponding to the number of unit counts that elapse from a point in time when an operation of a specific storage location search algorithm is started,

wherein the second code is a code corresponding to the number of unit counts
5 that elapse from a point in time when the real code for the virtual code generating device is generated newly, and

wherein the storage location search algorithm stores each real code in different unit counts.

10 14. The virtual code generating device of claim 11, wherein the virtual code generating device is a card-type device in which direct communication with the virtual code verifying device is interrupted after a virtual code generation function is mounted.

15 15. A virtual code verifying device for searching for a real code based on a virtual code, comprising:

a receiving unit configured to receive the virtual code generated by a virtual code generating device;

a detailed code extracting unit configured to extract a plurality of detailed codes included in the virtual code; and

20 a real code search unit configured to search for a storage location of the real code based on a correlation between the plurality of detailed codes,

wherein the plurality of detailed codes are changed per unit count set at a specific time interval.