shuffling devices, the cards are shuffled using the set of random numerical values selected from the sets of random numerical values output for each multiple sets from the random generator based on a command from the CPU (processor), and therefore even if the information about the multiple sets of random numerical values in the random generator is stolen due to an unauthorized access to the CPU (processor), or the like, it becomes difficult to identify the selected and used set of random numerical values by which the cards have been shuffled, and therefore the possibility that the arrangement of the shuffled cards is recognized is further reduced.

SUMMARY OF THE INVENTION

[0008]

An aspect of the present invention provides a shuffling system for shuffling cards made up of one or more decks, comprising multiple shuffling devices which shuffle the cards; multiple sequencers or controllers which control operations of the multiple shuffling devices; and a processor which controls the multiple sequencers or controllers, wherein the processor has a random generator, and the multiple shuffling devices are controlled by the multiple sequencers or controllers which are independent from one another, the multiple sequencers or controllers are configured to control the multiple shuffling devices using a set of random

numerical values commanded by the random generator, the processor outputs the multiple sets of random numerical values from the random generator, and each of the multiple sequencers or controllers is configured to select and use one out of the multiple sets of random numerical values, so that one set of cards made up of one or more decks is shuffled.

~~To solve the above-described problems of the conventional art, a~~ A shuffling system ~~of~~ according to the present ~~invention~~ disclosure comprises:

a playing card set made up of a predetermined number of decks;

multiple shuffling devices which shuffle the playing card set;

multiple sequencers or controllers which are independent from one another and control operations of the multiple shuffling devices, respectively; and

select and use one out of the multiple sets of random numerical values to control the corresponding shuffling device.

[0011]

A final shuffling device which finally shuffles the cards of the card set among the multiple shuffling devices further includes gathering means which mechanically gathers the cards sorted by the final shuffling device, and

the shuffled playing cards may be completely manufactured by gathering the sorted cards by the gathering means as a single stack and packing the shuffled card set into a package by an automatic packaging machine.

[0012]

A unique ID may be generated for each of the individual shuffled card sets, and may be associated with the shuffled card set.

[0013]

The present ~~invention includes~~disclosure also provides shuffled playing cards manufactured using the above-described shuffling system.

[0014]

The shuffled playing cards may be double packed into the package by the automatic packaging machine.

[0015]

~~To solve the above-described problems of the conventional art, a~~A shuffling system ~~of~~ according to the present ~~invention~~ disclosure is a system for shuffling cards made up of one or more decks, which comprises:

multiple shuffling devices which shuffle the cards;

multiple sequencers or controllers which control operations of the multiple shuffling devices, respectively; and

multiple processors which control the multiple sequencers or controllers,

wherein the multiple processors have random generators, respectively, and

the multiple shuffling devices are configured to shuffle one set of cards made up of one or more decks using sets of numerical values commanded by random generators of at least different processors.

[0016]

~~To solve the above-described problems of the conventional art, a~~A shuffling system ~~of~~ according to the present ~~invention~~ disclosure is a system for shuffling cards made up of one or more decks comprises:

multiple shuffling devices which shuffle the cards;

multiple sequencers or controllers which independently control operations of the multiple shuffling devices, respectively; and

a processor which controls the multiple sequencers or controllers,

[0019]

A final shuffling device which finally shuffles the cards of the card set among the multiple shuffling devices further includes gathering means which mechanically gathers the cards sorted by the final shuffling device, and

the shuffled playing cards may be completely manufactured by gathering the sorted cards by the gathering means as a single stack and packing the shuffled card set into a package by an automatic packaging machine.

[0020]

A unique ID may be generated for each of the individual shuffled card sets, and may be associated with the shuffled card set.

[0021]

The present ~~invention includes~~disclosure also provides shuffled playing cards manufactured using the above-described shuffling system.

[0022]

The shuffled playing cards may be double packed into the package by an automatic packaging machine.

BRIEF DESCRIPTION OF THE DRAWINGS

[0023]

FIG. 1(A) is a diagram illustrating a mechanism in which cards are arranged randomly by shuffling (when the

~~What is claimed is:~~CLAIMS

~~1. A shuffling system comprising:~~

~~a playing card set made up of a predetermined number of decks;~~

~~multiple shuffling devices which shuffle the playing card set;~~

~~multiple sequencers or controllers which are independent from one another and control operations of the multiple shuffling devices, respectively; and~~

~~multiple processors which are independent from one another and control the multiple sequencers or controllers,~~

~~wherein the multiple processors have one or more random generators which are independent from one another,~~

~~each of the sequencers or controllers is configured to control the corresponding shuffling device using a set of numerical values output from the corresponding random generator based on a command from the corresponding processor;~~

~~each of the sequencers or controllers controls the operations of the corresponding shuffling device so that cards of the card set are sorted one by one in a random order using the set of numerical values output from the corresponding random generator;~~

~~the shuffling system is configured to shuffle the card set using the multiple shuffling devices so that the cards of the card set are arranged randomly.~~

~~2. The shuffling system according to claim 1, wherein an integrated product of the number of sorting by each shuffling devices is equal to or larger than the total number of cards of the card set.~~

~~3. The shuffling system according to claim 1, wherein the processor outputs multiple sets of random numerical values from the corresponding random generator, and the sequencer or controller is configured to select and use one out of the multiple sets of random numerical values to control the corresponding shuffling device.~~

~~4. The shuffling system according to claim 1, wherein a final shuffling device which finally shuffles the cards of the card set among the multiple shuffling devices further includes gathering means which mechanically gathers the cards sorted by the final shuffling device, and~~

~~the shuffled playing cards are completely manufactured by gathering the sorted cards by the gathering means as a single stack and packing the shuffled card set into a package by an automatic packaging machine.~~

~~5. The shuffling system according to claim 4, wherein~~

~~a unique ID is generated for each of the individual shuffled card sets, and is associated with the shuffled card set.~~

~~6. Shuffled playing cards manufactured using the shuffling system according to claim 4.~~

~~7. The shuffled playing cards according to claim 6, wherein~~

~~the shuffled playing cards are double packed into the package by the automatic packaging machine.~~

~~8. A shuffling system for shuffling cards made up of one or more decks, comprising:~~

~~multiple shuffling devices which shuffle the cards;~~

~~multiple sequencers or controllers which control operations of the multiple shuffling devices, respectively; and~~

~~multiple processors which control the multiple sequencers or controllers,~~

~~wherein the multiple processors have random generators, respectively, and~~

~~the multiple shuffling devices are configured to shuffle one set of cards made up of one or more decks using sets of numerical values commanded by the random generators of at least different processors.~~

~~9. A shuffling system for shuffling cards made up of one or more decks, comprising:~~

~~multiple shuffling devices which shuffle the cards;~~

~~multiple sequencers or controllers which independently control operations of the multiple shuffling devices, respectively; and~~

~~a processor which controls the multiple sequencers or controllers,~~

~~wherein the processor has a random generator, and~~

~~the multiple shuffling devices are controlled by the multiple sequencers or controllers which are independent from one another,~~

~~the multiple sequencers or controllers are configured to control the multiple shuffling devices using a set of random numerical values commanded by the random generator,~~

~~the processor outputs the multiple sets of random numerical values from the random generator, and~~

~~each of the multiple sequencers or controllers is configured to select and use one out of the multiple sets of random numerical values, so that one set of cards made up of one or more decks is shuffled.~~

~~10. The shuffling system according to claim 8 or 9, wherein~~

~~an integrated product of the number of pockets during shuffling by each of the multiple shuffling~~

~~devices and the number of the multiple shuffling devices is equal to or larger than the total number of cards of the card set.~~

~~11. The shuffling system according to claim 8 or 9, wherein~~

~~the processor outputs multiple sets of random numerical values from the corresponding random generator, and the sequencer or controller is configured to select and use one out of the multiple sets of random numerical values to control the corresponding shuffling device.~~

~~12. The shuffling system according to claim 8 or 9, wherein~~

~~a final shuffling device which finally shuffles the cards of the card set among the multiple shuffling devices further includes gathering means which mechanically gathers the cards sorted by the final shuffling device, and~~

~~the shuffled playing cards are completely manufactured by gathering the sorted cards by the gathering means as a single stack and packing the shuffled card set into a package by an automatic packaging machine.~~

~~13. The shuffling system according to claim 12, wherein~~

~~a unique ID is generated for each of the individual shuffled card sets, and is associated with the shuffled card set.~~

~~14. Shuffled playing cards manufactured using the shuffling system according to claim 12.~~

~~15. The shuffled playing cards according to claim 14, wherein~~

~~the shuffled playing cards are double packed into the package by the automatic packaging machine.~~

~~16. A shuffling method of playing cards, comprising:~~

~~a first shuffling step of shuffling a playing card set made up of a predetermined numbed of decks by a shuffling device controlled using a first processor or random generator;~~

~~a switching step of switching the first processor or random generator used for the shuffling device to a second processor or random generator which is independent from the first processor or random generator; and~~

~~a second shuffling step of setting the playing card set shuffled in the first shuffling step on the shuffling device, and shuffling the playing card set by a shuffling device controlled using the second processor or random generator.~~

1. A shuffling system for shuffling cards made up of one or more decks, comprising:

multiple shuffling devices which shuffle the cards;

multiple sequencers or controllers which control operations of the multiple shuffling devices; and

a processor which controls the multiple sequencers or controllers,

wherein the processor has a random generator, and

the multiple shuffling devices are controlled by the multiple sequencers or controllers which are independent from one another,

the multiple sequencers or controllers are configured to control the multiple shuffling devices using a set of random numerical values commanded by the random generator, the processor outputs the multiple sets of random numerical values from the random generator, and

each of the multiple sequencers or controllers is configured to select and use one out of the multiple sets of random numerical values, so that one set of cards made up of one or more decks is shuffled.

2. The shuffling system according to claim 1, wherein an integrated product of the number of pockets during shuffling by each of the multiple shuffling devices and the number of the multiple shuffling devices is equal to or larger than the total number of cards of the card set.

3. The shuffling system according to claim 1, wherein the processor outputs multiple sets of random numerical values from the corresponding random generator, and the sequencer or controller is configured to select and use one out of the multiple sets of random numerical values to control the corresponding shuffling device.

4. The shuffling system according to claim 1, wherein

a final shuffling device which finally shuffles the cards of the card set among the multiple shuffling devices further includes gathering means which mechanically gathers the cards sorted by the final shuffling device, and

the shuffled playing cards are completely manufactured by gathering the sorted cards by the gathering means as a single stack and packing the shuffled card set into a package by an automatic packaging machine.

5. The shuffling system according to claim 4, wherein a unique ID is generated for each of the individual shuffled card sets, and is associated with the shuffled card set.

6. The shuffling system according to claim 4, wherein the shuffled playing cards are double packed into the package by the automatic packaging machine.