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To the Honorable Commissioner of Patents and Trademarks: Please record the date of the original documents or copy thereof.

1. Name of conveying party(ies):

Hiroyasu YAMAMOTO, Takakuni SHIMIZU

Ananda VITHANAGE, Misako KOIBUCHI

Ryuji SOGA and Takaaki SHIGA

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other

July 7, 2003 (for all six inventors)

Execution Date: _____

2. Name and address of receiving party(ies)

Name: FDK CORPORATION

Internal Address: _____

Street Address: 36-11, Shinbashi 5-chome,

Minato-ku

Country: JAPAN

City: Tokyo

Zip: 105-0004

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) _____

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: MARTIN FLEIT

FLEIT, KAIN, GIBBONS, GUTMAN & BONGINI P.L.

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6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00



Enclosed



Authorized to be charged to deposit account

8. Deposit account number:

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9. Signature.

MARTIN FLEIT, REG. NO. 16,900

Name of Person Signing

Signature

JULY 23, 2003

Date

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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto: FDK CORPORATION of 36-11, Shinbashi 5-chome, Minato-ku, Tokyo 105-0004, Japan (hereinafter ASSIGNEE) all right; title and interest for the United States, territories and possessions in and to his invention relating to:

RANDOM NUMBER GENERATOR AND PROBABILITY GENERATOR
as set forth in his United States Patent Application (check one)
executed concurrently herewith,
executed on
Serial No. filed

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States, which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made.

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters patent to said ASSIGNEE, its successors or assigns in accordance herewith.

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith.

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention.

Each of the undersigned hereby grants to the firm of **FLEIT KAIN GIBBONS GUTMAN & BONGINI P.L.** the power to insert into this Assignment any further identification, which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark office for recordation of this Assignment.

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(date) *July 7. 2003* (signature of 6th inventor) *T. Shiga*

Note: If signed abroad, prima facie evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul. If signed domestically, do so before a Notary Public. Otherwise the execution by the inventors should be witnessed by at least two witnesses who sign here:

WITNESSES:

Signature: *Shuu Yamada*

Date: *July 7, 2003*

Signature: *Sumio Kuroya*

Date: *July 7, 2003*

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