

07-27-2007

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

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To the Director of the U.S. Pat.

103430809

/ documents or the new address(es) below.

1. Name of conveying party(ies):

Shinsaku Kiyomoto (07/10/2007) and Toshiaki Tanaka (07/10/2007)

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

2. Name and address of receiving party(ies)

Name: KDDI Corporation

Internal Address:

Street Address:

3-2, Nishi-Shinjuku 2-chome
Shinjuku-Ku, Tokyo
JAPAN

City:

State:

Country: Zip:

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

- ☒ Assignment ☐ Merger ☐ Change of Name
☐ Security Agreement ☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other

4. Application or patent number(s):

A. Patent Application No.(s)

☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached?

☐ Yes ☒ No

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

Name: David G. Conlin
EDWARDS ANGELL PALMER & DODGE
LLP

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6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers Expiration Date

b. Deposit Account Number 04-1105
Authorized User Name Peter J. Manus

9. Signature:

Signature

July 20, 2007

Date

Peter J. Manus - 26,766

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service as Express Mail, Label No. EM054396895US, on the date shown below in an envelope addressed to:
 Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: July 20, 2007

Signature: (Laurie Brown)

PATENT

REEL: 019644 FRAME: 0360

ASSIGNMENT

WHEREAS, the following inventor(s):
hereinafter designated as the undersigned) has (have) invented certain new and useful improvements
in KEYSTREAM ENCRYPTION DEVICE, METHOD, AND PROGRAM , for which application for Letters Patent of the United
States has been filed ~~on~~ herewith _____, Serial No. _____; and

WHEREAS, KDDI CORPORATION, a Japan _____, corporation, having its principal place of
business at 3-2, Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo, Japan _____, its heirs, successors, legal
representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire
right, title and interest in and to said invention and to any Letters Patent(s) that may be granted
therefor in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and
valuable consideration to the undersigned, the receipt of which is hereby acknowledged, the
undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and
transfer unto said Assignee the full and exclusive right to the said invention in the United States of
America and its territories, dependencies and possessions and the entire right, title and interest in and
to any and all Letters Patent(s) which may be granted therefor in the United States of America and its
territories, dependencies and possessions, and in and to any and all divisions, reissues, continuations
and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application
and any continuing, divisional or reissue applications thereof and also to execute separate
assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to furnish all pertinent facts and documents relating to said
application, said invention and said patent(s) as may be known and accessible to the undersigned, and
will testify as to the same in any interference or litigation related thereto, and will promptly execute
and deliver to Assignee any and all papers, instruments or affidavits necessary or desirable to apply for,
obtain, maintain or enforce said application or said patent(s) in connection with any interference which
may be declared, and any litigation concerning this application or any continuation, division or
reissue thereof or Patent(s) or reissue patent(s) issued thereon, and to cooperate with the Assignee in
every way possible in obtaining and producing evidence and proceeding with such interference or
litigation.

The undersigned agree(s) to execute all papers and documents and to perform any act which
may be necessary in connection with claims or provisions of the International Convention for the
Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a
grant of a valid United States patent(s) to the Assignee and to vest all rights therein hereby conveyed to
said Assignee as fully and entirely as the same would have been held by the undersigned if this
Assignment and sale had not been made.

The undersigned hereby grant(s) the law firm of Edwards & Angell, LLP, of P.O. Box 9169, Boston, Massachusetts 02209, U.S.A. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he or she has the full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute any agreement in conflict herewith.

In witness whereof, signed by the undersigned on the date(s) opposite the undersigned names.

Date: July 10, 2007

Signature of Inventor: Shinsaku Kiyomoto

Name: Shinsaku KIYOMOTO

Date: July 10, 2007

Signature of Inventor: Toshiaki Tanaka

Name: Toshiaki TANAKA

Date: _____

Signature of Inventor: _____

Name: _____

Date: _____

Signature of Inventor: _____

Name: _____

Date: _____

Signature of Inventor: _____

Name: _____

Date: _____

Signature of Inventor: _____

Name: _____