

05-26-1998

ARK OFFICE

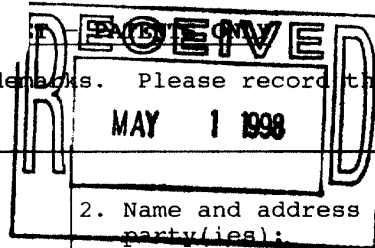
Form PTO-1595



U.S. Department of Commerce

100718737

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



1. Name of conveying party(ies):

a) Masayuki Numao g) _____
 b) _____ h) _____
 c) _____ i) _____
 d) _____ j) _____
 e) _____ k) _____
 f) _____ l) _____

More names attached? ___Y___x___N

2. Name and address of receiving party(ies):

Name: INTERNATIONAL BUSINESS
 MACHINES CORPORATION
 Address: Old Orchard Road
 Armonk, NY 10504

More names attached? ___Y___x___N

3. Nature of Conveyance: x Assignment

4. Application number: 09/001,874 Filed: December 31, 1997
 Filed with new application: ___yes___x___no

Execution date(s):

a) April 20, 1998 g) _____
 b) _____ h) _____
 c) _____ i) _____
 d) _____ j) _____
 e) _____ k) _____
 f) _____ l) _____

Additional numbers attached? ___Y___x___N

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

Name: William A. Kinnaman, Jr.
 IBM Corporation - MS P386
 Intellectual Property Law
 522 South Road,
 Poughkeepsie NY 12601-5400

6. Total # of applications and patents involved: 017. Total fee (37 CFR 3.41):
\$ 40.008. Charge to Deposit Account
09-0463. A duplicate copy
is enclosed.

05/21/1998 SSMITH 00000024 090463 09001874

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9. Statement and Signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Sandra L. Kilmer

Signature

4/27/98
DateTotal number of pages including cover sheet, attachments, and document: 2

Express Mail Label No. (if applicable): _____

Docket No.: JA997055

PATENT

REEL: 9181 FRAME: 0029

A S S I G N M E N T

Whereas, I

(1) MASAYUKI NUMAO of Kanagawa-ken
County of and State of JAPAN

have invented certain improvements in CRYPTOGRAPHIC COMMUNICATION METHOD AND SYSTEMS,

and executed a United States Patent Application therefor on

(1) 04/20/1998.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York, 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and the invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patents granted upon the invention set forth in said application to IBM, its successors and assigns; and I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed

(1) at Yamato
on Apr. 20, 1998


MASAYUKI NUMAO