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

1. Name of conveying party(ies):
   Soichi FURUYA, Kazuo TAKARAGI, Hiroyuki KURUMATANI, Masashi TAKAHASHI, Kunihiko MIYAZAKI, Hisayoshi SATO Dai WATANABE

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

2. Name and address of receiving party(ies):
   Name: Hitachi, Ltd.
   Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku
   City: Tokyo:
   Country: Japan

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

3. Nature of conveyance:
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   ☐ Other
   Execution Date: November 22, 2000

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: November 22, 2000

   A. Patent Application No.(s)
      09/784,254

   Additional numbers attached? ☐ Yes ☑ No

   B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:
   Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP
   Internal Address:

   Street Address: 1300 North Seventeenth Street
   Suite 1800
   City: Arlington  State: VA  Zip: 22209

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) ..................................$40.00
   ☑ Enclosed
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   Carl L. Brundidge
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   Attorney Registration No. 29,621
   Total number of pages including cover sheet, attachments, and document: 2

   OMB No. 0651-0011 (exp. 4/94)

February 16, 2001
Date

PATENT
REEL: 011557 FRAME: 0967
ASSIGNMENT
(譲渡証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar ($1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI, LTD., a corporation organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

METHOD AND APPARATUS FOR SYMMETRIC-KEY ENCRYPTION

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD.

Signed on the date(s) indicated aside signatures:

INVENTOR(S)
(発明者フルネームサイン)

1) Sachi Tanaka
2) Kazu Takahashi
3) Toshiro Kurita
4) Masashi Takahashi
5) Kunihiko Hijiyoshi
6) Hisayoshi Saito
7) Daiki Watanabe
8) ————
9) ————
10) ————

Date Signed
(署名日)

22/11/2000
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RECORDED: 02/16/2001
PATENT
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