To the Honorable Commissioner of Patent. 1. Name of conveying party(ies): Hidekazu NAKAMOTO Susumu HARADA Norifumi MAEDA Shuji YAMAGUCHI Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance: Assignment ☐ Security Agreement Other_ Execution Date: December 9, 10, 12, 15, 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: A. Patent Application No.(s) Serial No.: 09/642,587 Filed: August 22, 2000 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 01/16/2001 SDUONG 00000068 09642587 02 FC:581 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. William I. Solomon Date Name of Person Signing Signature Attorney Registration No. 28,565 Total number of pages including cover sheet, attachments, and document: 2

FORM PTO-1595

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

1-31-32

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

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*U.S. Serial No. 09/642,587 filed on August 22, 2000

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 fullyand 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:

RECORDED: 01/12/2001

INVENTOR(S)

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PATENT REEL: 011433 FRAME: 0109

Date Signed