U.S. PTO 12/585140 09/04/2009

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09-17-2009 B/O FORM PTO 1595 (1/31/92) repartment of Commerce Patent and Trademark Office RECORDATION FORM COVER SHEET PATENTS ONLY SUNN.0009 103574218 To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof. Name of Conveying Party(ies): 2. Name and Address of Receiving Party(ies): (1) KOUSUKE KOMIKADO Name: Hitachi, Ltd. Address: 6-6, Marunouchi 1-chome, Chiyoda-ku (2) KOJI IWAMITSU City: Tokyo (3) TETSUYA SHIROGANE Japan (4) ATSUSHI ISHIKAWA (5) TAKAHIDE OKUNO (6) MITSUHIDE SATO (7) Toshiaki MINAMI (8) HIROAKI YUASA ⊠ No Nature of Conveyance: ★ Assignment Merger Security Agreement ☐ Change of Name Other: 12585140 Execution Dates: January 12, 2007 (a) Patent Application Number(s): 4. (b) Patent Numbers: If this document is being filed together with a new application, the execution date of the application is: ☐ Additional Numbers Attached. Name and Address of Party to whom Correspondence Total Number of Applications and Patents Involved: Concerning this Document Should be Mailed: Name: Juan Carlos A. Marquez Total Fee Paid on ☑ Payment by credit card. Form PTO-2038 is attached. Address: STITES & HARBISON, PLLC 1199 North Fairfax Street ☐ Authorized to be charged to deposit account. Suite 900 Alexandria, VA 22314 Deposit Account Number 12-0555 ATTACH DUPLICATE COPY OF THIS PAGE IF PAYING BY DEPOSIT ACCOUNT DO NOT USE THIS SPACE Statement and Signature: To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document. Juan Carlos A. Marquez, Registration No. 34,077 September 4, 2009 Total number of pages comprising cover sheet.

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PATENT REEL: 023249 FRAME: 0812 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 6-6, Marunouchi 1-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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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 our signatures:

RECORDED: 09/04/2009

| INVENTOR(S) (発明者フルネームサイン) | Date Signed (署名日) |
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| 3) Totoriza Phirogane. | Jan. 12, 267 |
| Telsuya SHIROGANE Abuli Shahilawa 4) Lelsaya Hirogane | Jan. 12, 2007 |
| Atsushi ISHIKAWA | Jan. 12, 2017 |
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| 6) Mitsupide Sato | January 12. 2007 |
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PATENT REEL: 023249 FRAME: 0813