

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3474981

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
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TAKESHI WADA	02/17/1998
TADASHI MUTO	02/18/1998
KAZUYOSHI SHOJI	02/18/1998
YASUROU KUBOTA	02/18/1998
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PROPERTY NUMBERS Total: 2	
Property Type	Number
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Patent Number:	5991200
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NAME OF SUBMITTER:	JOHN R. MATTINGLY
SIGNATURE:	/John R. Mattingly/
DATE SIGNED:	08/07/2015
Total Attachments: 2 source=Con04and06Assignment-Inv to HitLtd-HitULSI#page1.tif source=Con04and06Assignment-Inv to HitLtd-HitULSI#page2.tif	

ASSIGNMENT

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, as a below named inventor, I hereby sell and assign to Hitachi, Ltd. & Hitachi ULSI Engineering Corp. of Chiyoda-ku, Tokyo, Japan & Kodaira-shi, Tokyo, Japan its successors and assigns or other legal representatives all my rights, title and interest, in and for the United States of America, in and to

NONVOLATILE SEMICONDUCTOR MEMORY DEVICE

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, Serial No. 08/249,899 filed May 26, 1994, 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. & Hitachi ULSI Engineering Corp., 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. & Hitachi ULSI Engineering Corp.

- | | (Full Name) | (Signature) |
|--|------------------------|--------------------------|
| 1) Date <u>February 13, 1998</u> Inventor <u>Koichi Seki</u> | <u>Koichi Seki</u> | <u>[Signature]</u> |
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| 3) Date <u>Feb. 18, 1998</u> Inventor <u>Tadashi Muto</u> | <u>Tadashi Muto</u> | <u>[Signature]</u> |
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PATENT

REEL: 9185 FRAME: 0693
(Continued on page 1)

PATENT

REEL: 036280 FRAME: 0461

- 7) Date _____ Inventor _____
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 Post Office Address _____
- 8) Date _____ Inventor _____
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 Post Office Address _____
- 9) Date _____ Inventor _____
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 Post Office Address _____
- 10) Date _____ Inventor _____
 Residence _____ Citizenship _____
 Post Office Address _____
- 11) Date _____ Inventor _____
 Residence _____ Citizenship _____
 Post Office Address _____
- 12) Date _____ Inventor _____
 Residence _____ Citizenship _____
 Post Office Address _____
- 13) Date _____ Inventor _____
 Residence _____ Citizenship _____
 Post Office Address _____
- 14) Date _____ Inventor _____
 Residence _____ Citizenship _____
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 3) Masaki Shirai 8) _____ 13) _____
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RECORDED: 04/16/1998

PATENT
 REEL: 9185 FRAME: 0694 2

RECORDED: 08/07/2015

PATENT
 REEL: 036280 FRAME: 0462