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U.S. Department of COMMERCE United States Patent and Trademark Office

Express Mail Label No. EV 522 879 338 US Marvell Docket No. MP1581

To the Director of the U.S. Patents and Trademain Office. 1. June 1997	documents or the new address(es) below.
Name of conveying party(ies)/Execution Date(s): Marvell Semiconductor, Inc. Execution Date(s) 11/26/2007 Additional name of conveying party(ies) attached? ☐ Yes ☑ No	Name and address of receiving party(ies) Name: Marvell International Ltd. Internal Address: Argyle House
3. Nature of conveyance: ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Government Interest Assignment ☐ Executive Order 9424, Confirmatory License Execution Date: 11/26/2007	Street Address: 41A Cedar Avenue City: Hamilton State: Country: Bermuda Zip: Hm12 Additional Name(s) & address(es) attached? Yes No
 4. Application number(s) or patent number(s): the execution date of the application is: November 27, 2007. A. Patent Application No.(s) Unassigned, filed herewith. Additional numbers atta	B. Patent No.(s)
Name and address of party to whom correspondence concerning this document should be mailed:	6. Total number of applications and patents involved: 1
Name: Michael D. Wiggins Internal Address: Harness, Dickey & Pierce, P.L.C.	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 (via attached credit card authorization) Authorized to be charged by credit card
Street Address: P.O. Box 828	☐ Authorized to be charged to deposit account ☐ Enclosed
City: Bloomfield Hills	☐ None required (government interest not affecting title)
State: Michigan Zip: 48303 Phone Number: 248-641-1600 Fax Number: 248-641-0270 Email Address: mdwiggins@hdp.com	8. The Commissioner is hereby authorized to charge any additional fees that may be required or credit any overpayments to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.
9. Signature: Mult Dhux	November 27, 2007
Michael D. Wiggins Name of Person Signing	Total number of pages including cover sheet, attachments, and documents

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT Corporate

Marvell Semiconductor, Inc., a California corporation, having a principal place of business at 5488 Marvell Lane, Santa Clara, CA 95054 (hereafter the "Assignor"), is the owner by respective Assignment of United States Patent Application(s) identified below (hereafter sometimes called the "Patent Application(s)").

Marvell International Ltd., a corporation of Bermuda, having a place of business at Argyle House, 41A Cedar Avenue, Hamilton, Hm12, Bermuda (hereafter the "Assignee"), desires to acquire all of the rights to the Patent Application(s) and all inventions described and claimed therein or entitled to the benefit thereof.

THEREFORE, in consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to it, Assignor hereby sells and assigns to the Assignee the entire right, title and interest in and to the Patent Application(s) identified below, and all inventions described and claimed therein or entitled to the benefit thereof, in any and all Letters Patent therefor, and in any and all reissues, extensions, renewals, reexaminations, divisions and continuations of such applications or Letters Patent to the full end of the term or terms for which such Letters Patent issue, such entire right, title and interest to be held and enjoyed by the above-named Assignee the same as they would have been held and enjoyed by the Assignor had this Assignment and sale not been made.

Marvell Semiconductor, Inc. Case No.	U. S. Serial No.	U. S. Filing Date	<u>Title</u>
MP1581	To Be Assigned	Herewith	SYSTEM AND METHOD FOR USING PILOT SIGNALS IN NON- VOLATILE MEMORY DEVICES
MP1581PR	60/867,492	11/28/2006	PILOT SIGNALS IN FLASH MEMORY DEVICES

By its undersigned representative, the Assignor agrees

- a. to execute all papers necessary in connection with the Patent Application(s) and any continuing, divisional, reissue, reexamination or corresponding application thereof and also to execute separate Assignment in connection with such application as the Assignee may deem necessary or expedient;
- b. to execute all papers necessary in connection with any interference which may be declared concerning the Patent Application(s) or any continuation, division, reissue or reexamination thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference; and
- c. to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee on any of the Patent Application(s) and on any continuation, division, reissue or reexamination of any of the Patent Application.

page 1/2
PATENT TRADEMARK OFFICE

PATENT REEL: 020290 FRAME: 0009

The Assignor hereby covenants that it has the full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict therewith.

Marvell Semiconductor, Inc., a California corporation, certifies that it is the Assignee of the entire right, title and interest in the Patent Application(s) identified above by virtue of Assignment from the inventors of the Patent Application(s) identified above. Assignment to be recorded in the Patent and Trademark Office as identified below.

Marvell Semiconductor, Inc. Case No.	U. S. Serial No.	Assignment Execution Date
MP1581	To Be Assigned	November 26, 2007
MP1581PR	60/867,492	November 26, 2007

The undersigned has reviewed the documents in the Patent Application(s) identified above and, to the best of undersigned's knowledge and belief, title is in the Assignor identified above.

The undersigned is empowered to sign this certificate on behalf of the Assignor.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

IN WITNESS WHEREOF, executed by the Assignor's undersigned representative on the date following the undersigned's name.

Ву:	apple
Title:	Vice President Intellectual Property and General Patent Counsel
Date	November 26, 2007

Marvell Semiconductor, Inc.

RECORDED: 11/27/2007

PATENT REEL: 020290 FRAME: 0010