U.S. DEPARTMENT OF COMMERCE REC ET 06-11-2007 U.S. Patent and Trademark Office (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) Express Mail Label No. EV879 351 484 US Marvell Docket No. MP1099 103415199 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) Shafiq M. Jamal Name: Marvell Semiconductor, Inc. Additional name of conveying party(ies) attached?

Yes

No Internal Address: 3. Nature of conveyance: Street Address: 5488 Marvell Lane Assignment Merger \boxtimes **Security Agreement** Change of Name City: Santa Clara State: CA Zip: 95054 Other Additional Name(s) & address(es) attached? ☐ Yes ☑ No Execution Date: 05/30/2007 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: May 9, 2007 B. Patent No.(s) A. Patent Application No.(s) Unassigned, filed herewith. Additional numbers attached?

Yes

No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Michael D. Wiggins 7. Total fee (37 CFR 3.41) \$ 40.00 (via attached credit card authorization) Internal Address: Harness, Dickey & Pierce, P.L.C. 06/04/40<u>07 SSESHE1 00000077 11809373</u> Authorized to be charged to deposit account 1 FC:0021 40.00 DP 8. 8. The Commissioner is hereby authorized to charge any Street Address: P.O. Box 828 additional fees that may be required or credit any overpayments to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed. City: Bloomfield Hills State: MI Zip: 48303 (Attach duplicate copy of this page if paying by deposit account)

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Michael D. Wiggins

Name of Person Signing

June 1, 2007

Date

REEL: 019425 FRAME: 0750

Docket#: MP1099 PATENT

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned,

Shafiq M. Jamal

who have created a certain invention for which an application for United States Letters Patent was executed by me concurrently herewith and entitled:

CHARGE-PUMP FOR PHASE-LOCKED LOOP

Do hereby sell, assign and transfer to Marvell Semiconductor, Inc., a corporation of California, having a place of business at 5488 Marvell Lane, Santa Clara, CA 95054, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefore in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Do hereby further sell, assign and transfer to Marvell Semiconductor, Inc., its successors, assigns, and legal representatives, the full and exclusive right to United States Provisional Patent Applications(s) No(s). _______, filed _______, and to any and all inventions described in said provisional patent application(s) for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be entitled to the benefit thereof in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agree that Marvell Semiconductor, Inc., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN TESTIMONY WHEREOF I have hereunto set MY signature on the date indicated below.

| Full Name of Sole/First Inventor: | |
|-----------------------------------|----------------------|
| Shafiq M. Jamal | |
| Inventor's Signature: | Date: Month/Day/Year |
| Stal | 5/30/2007 |
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