

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Shadi M. Barakat</td> <td>05/20/2013</td> </tr> <tr> <td>Bhuvanachandran K. Nair</td> <td>05/20/2013</td> </tr> <tr> <td>Paul-Hugo Lamarche</td> <td>05/20/2013</td> </tr> </tbody> </table>		Name	Execution Date	Shadi M. Barakat	05/20/2013	Bhuvanachandran K. Nair	05/20/2013	Paul-Hugo Lamarche	05/20/2013
Name	Execution Date								
Shadi M. Barakat	05/20/2013								
Bhuvanachandran K. Nair	05/20/2013								
Paul-Hugo Lamarche	05/20/2013								
RECEIVING PARTY DATA									
Name:	Advanced Micro Devices, Inc.								
Street Address:	PO Box 3453, One AMD Place								
City:	Sunnyvale								
State/Country:	CALIFORNIA								
Postal Code:	94088-3453								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13898806</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13898806				
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Application Number:	13898806								
CORRESPONDENCE DATA									
Fax Number:	5123551119								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	(512)582-2455								
Email:	caitlin.taylor@ds-patent.com								
Correspondent Name:	DAVIDSON SHEEHAN LLP								
Address Line 1:	1501 West Avenue								
Address Line 2:	Suite B								
Address Line 4:	Austin, TEXAS 78701								
ATTORNEY DOCKET NUMBER:	1458-130004								
NAME OF SUBMITTER:	Adam D. Sheehan								
Signature:	/Adam D. Sheehan/								

Date:

05/21/2013

Total Attachments: 5

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## ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **Shadi M. Barakat, Bhuvanachandran K. Nair, and Paul-Hugo Lamarche** (hereinafter referred to as the "Inventor(s)") and **Advanced Micro Devices, Inc.**, having a place of business at One AMD Place, Sunnyvale, California, USA (hereinafter referred to as the "Assignee").

WHEREAS, Inventor(s) are named as inventors in the patent application filed in the United States Of America on 05/21/2013, entitled **METHOD AND APPARATUS FOR CLOCK AND DATA RECOVERY**, having application no. 13/898,806 and having a docket number of **1458-130004** (hereinafter referred to as the "Application"); and

WHEREAS, Assignee has a desire to acquire all rights, title, and interest in the invention(s) disclosed in the Application (hereinafter referred to as the "Invention(s)"), including any rights, title, and interest in the Invention(s) not previously transferred to Assignee through prior agreement.

NOW, THEREFORE, the parties agree as follows:

1. To the extent that Inventor(s) are subject to a prior agreement transferring rights, title, and/or interest in the Invention(s) to the Assignee, Inventor(s) hereby confirm such transfer.
2. To the extent that Inventor(s) retain any rights, title, or interest in the Invention(s) not vested in the Assignee on the date(s) of execution of this Assignment, Inventor(s) hereby assign and otherwise transfer to the Assignee their entire right, title, and interest, throughout the world, in and to: the Invention(s), including any patent applications, patents, invention registrations, and equivalents thereof (including any and all provisional, international, regional, and national patents and patent applications, and all divisions, continuations, continuations-in-part, renewals, reissues, reexams, substitutes and extensions thereof), for the Invention(s) and all rights to claim priority thereto. Inventor(s) further assign and otherwise transfer to Assignee all causes of action and remedies arising under any patent or patent application for the Invention(s) prior to, on,

or after the date(s) of execution of this Assignment. Inventor(s) shall not be entitled to an accounting for any causes of action or remedies pursued by Assignee.

3. The transfers set forth in Paragraphs 1 and 2 above are in consideration for the sum of at least one U.S. dollar (US\$1) (or its equivalent) and/or other consideration for which both parties acknowledge to be valuable. Such consideration includes but is not limited to at least one of the following: employment, an independent contractor agreement, monetary payment, or other benefit hereby acknowledged as received.

4. Inventor(s) hereby authorize and request the Commissioner of Patents and Trademarks, or equivalent thereof, to issue the patent for the Invention, and all resulting patents therefrom, insofar as the Inventor(s)' interest is concerned, to the Assignee.

5. Inventor(s) further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect Assignee's rights, title, and interest in the Invention(s).

6. Inventor(s) hereby authorize Assignee, its successors and assigns, its legal representatives, or anyone the Assignee may properly designate, to insert in this Assignment of Patent Rights the filing date and/or application number of the Application when ascertained.

7. Inventor(s) hereby further agree to, with respect to any patent application or patent for the Invention(s), at the expense of the Assignee:

- i) testify in any legal proceedings,
- ii) sign all lawful papers,
- iii) execute all divisional, continuation, continuation-in-part, reissue, reexamination, and substitute applications,
- iv) make all lawful oaths, and assist in vesting title in the Assignee and to aid the Assignee to obtain and enforce proper protection for the subject matter of the Invention(s) in all countries and regions, and
- v) notify Assignee promptly (by facsimile or first class mail) of any subpoena or contact by any person other than Assignee or its agents regarding the Invention or resultant patent(s) issuing therefrom, and in any event at least one week prior to any deposition, legal inquiry or legal proceeding relating to the above identified invention.

This assignment is executed on the date(s) of which the Inventor(s) have signed.

Inventor:

Shadi Barakat (Signature) May 20, 2013 (Date)  
**Shadi M. Barakat**

State of CALIFORNIA

County of SANTA CLARA

On May 20, 2013 before me,  
(insert date)

SUSAN P. FLORES

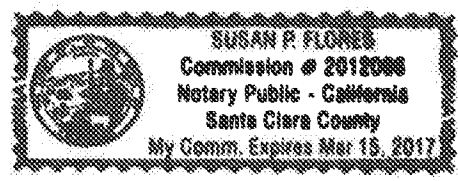
(insert name and title of the notarizing officer)

personally appeared SHADI M. BARAKAT

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of CALIFORNIA that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



(NOTARY SEAL)

Signature: SF Flores

Inventor:

Bhuvan Nair (Signature) 5/20/2013 (Date)

**Bhuvanachandran K. Nair**

State of CALIFORNIA )  
County of SANTA CLARA )

On May 20, 2013 before me,  
(insert date)

Susan P. Flores

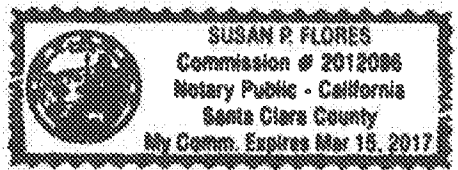
(insert name and title of the notarizing officer)

personally appeared BHUVANACHANDRAN K. NAIR

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of CALIFORNIA that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



(NOTARY SEAL)

Signature: [Handwritten Signature]

Inventor:

Paul-Hugo Lamarche (Signature)

5/20/2013 (Date)

**Paul-Hugo Lamarche**

State of CALIFORNIA )

County of SANTA CLARA )

On MAY 20, 2013 before me,  
(insert date)

SUSAN P. FLORES

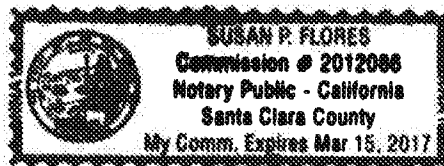
(insert name and title of the notarizing officer)

personally appeared PAUL-HUGO LAMARCHE

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of CALIFORNIA that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



(NOTARY SEAL)

Signature: S. Flores