

## 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>Douglas R. Williams</td> <td>01/02/2013</td> </tr> <tr> <td>Vydhyanathan Kalyansundharam</td> <td>01/02/2013</td> </tr> <tr> <td>Marius Evers</td> <td>01/09/2013</td> </tr> <tr> <td>Michael K. Fertig</td> <td>12/21/2012</td> </tr> </tbody> </table>		Name	Execution Date	Douglas R. Williams	01/02/2013	Vydhyanathan Kalyansundharam	01/02/2013	Marius Evers	01/09/2013	Michael K. Fertig	12/21/2012
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Advanced Micro Devices, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>PO Box 3453, One AMD Place</td> </tr> <tr> <td>City:</td> <td>Sunnyvale</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94088-3453</td> </tr> </table>		Name:	Advanced Micro Devices, Inc.	Street Address:	PO Box 3453, One AMD Place	City:	Sunnyvale	State/Country:	CALIFORNIA	Postal Code:	94088-3453
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: 5123551119  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 5125822455        Email: caitlin.taylor@ds-patent.com</p> <p>Correspondent Name: DAVIDSON SHEEHAN LLP        Address Line 1: 700 Lavaca        Address Line 2: Suite 1400-2323        Address Line 4: Austin, TEXAS 78701</p>											
ATTORNEY DOCKET NUMBER:	1458-120227										
NAME OF SUBMITTER:	Adam D. Sheehan										
Total Attachments: 6											

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## ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **Douglas R. Williams, Vydhyathan Kalyanasundharam, Marius Evers, and Michael K. Fertig** (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 12/27/2012, entitled **RESOURCE MANAGEMENT FOR NORTHBRIDGE USING TOKENS**, having application no. 13/727,808, and having a docket number of **1458-120227** (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:

Douglas R Williams (Signature) 1/2/2013 (Date)

Douglas R. Williams

State of California

County of Santa Clara

On January 2, 2013 before me,  
(insert date)

Rita S. Marquis, Notary Public  
(insert name and title of the notarizing officer)

personally appeared Douglas R. Williams,  
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:

Rita S. Marquis

Inventor:

Vydhyanathan Kalyanasundharam

(Signature)

Jan 2, 2013 (Date)

Vydhyanathan Kalyanasundharam

State of

California

County of

Santa Clara

On

January 2, 2013

before me,

(insert date)

Rita S. Marquis, Notary Public

(insert name and title of the notarizing officer)

personally appeared Vydhyanathan Kalyanasundharam,  
 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  
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WITNESS my hand and official seal.



(NOTARY SEAL)

Signature:

Rita S. Marquis

PATENT

REEL: 029606 FRAME: 0792

DNV 118/07/807 AED 81/21 GDM 6102/20/10

Inventor:

Marius Evers (Signature)1/9/2013 (Date)

Marius Evers

State of CaliforniaCounty of Santa ClaraOn January 9, 2013 before me,  
(insert date)Rita S. Marquis, Notary Public  
(insert name and title of the notarizing officer)

personally appeared MARIUS EVERS,  
 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  
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WITNESS my hand and official seal.



(NOTARY SEAL)

Signature: Rita S. Marquis

Inventor:

Michael K. Fertig (Signature) 12/21/2012 (Date)  
Michael K. Fertig

Witness # 1:

Michael L. Lightstone (Signature) 12/21/2012 (Date)  
Michael L. Lightstone (Print Name)

Witness # 2:

NB Williams (Signature) 12/21/12 (Date)  
NICK BARROW-WILLIAMS (Print Name)