

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Andrew Kegel</td> <td>01/24/2012</td> </tr> <tr> <td>Mark Hummel</td> <td>01/30/2012</td> </tr> </tbody> </table>		Name	Execution Date	Andrew Kegel	01/24/2012	Mark Hummel	01/30/2012
Name	Execution Date						
Andrew Kegel	01/24/2012						
Mark Hummel	01/30/2012						
RECEIVING PARTY DATA							
Name:	Advanced Micro Devices, Inc.						
Street Address:	One AMD Place						
City:	Sunnyvale						
State/Country:	CALIFORNIA						
Postal Code:	94088						
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>13308211</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13308211		
Property Type	Number						
Application Number:	13308211						
CORRESPONDENCE DATA							
Fax Number:	(202)371-2540						
Phone:	202.371.2600						
Email:	cshea@skgf.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	Steme, Kessler, Goldstein & Fox P.L.L.C						
Address Line 1:	1100 New York Avenue, N.W.						
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20005						
ATTORNEY DOCKET NUMBER:	1972.1970000						
NAME OF SUBMITTER:	Theodore A. Wood Reg. No. 52,374						
<p>Total Attachments: 9 source=19721970000Assignments#page1.tif source=19721970000Assignments#page2.tif source=19721970000Assignments#page3.tif</p>							

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ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **Andrew KEGEL** and **Mark HUMMEL** (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 **USA** on **November 30, 2011**, entitled **EFFICIENT MEMORY AND RESOURCE MANAGEMENT**, having application no. **13/308,211**, and having a docket number of **1972.1970000** (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: **Andrew KEGEL**

Andrew Kegel (Signature) 1-24-2012 (Date)
ANDREW G KEGEL (Print Name)

State of Washington)
County of King)

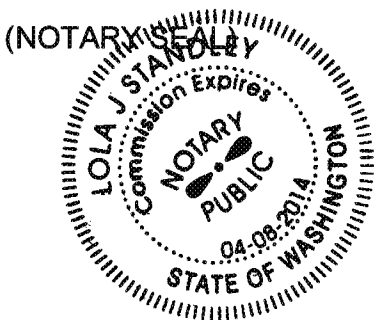
On 01/24/2012 before me,
(insert date)

Lola J. Standley, Administrator Specialist
(insert name and title of the notarizing officer)

personally appeared *Andrew Kegel*,
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
Washington that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature: *Lola J. Standley*

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

Inventor: **Mark HUMMEL**

_____ (Signature) _____ (Date)
_____ (Print Name)

State of _____)

County of _____)

On _____ before me,
(insert date)

(insert name and title of the notarizing officer)

personally appeared _____,
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 _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: _____

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

1471233_1

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This is an assignment of patent rights between inventor(s) **Andrew KEGEL** and **Mark HUMMEL** (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").

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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.

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- 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.

Witness # 1:

(Signature) _____ (Date)

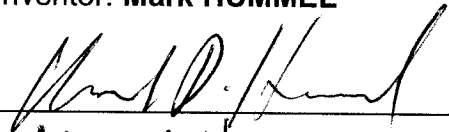
(Print Name)

Witness # 2:

(Signature) _____ (Date)

(Print Name)

Inventor: **Mark HUMMEL**

 (Signature) 1/30/2012 (Date)
MARK HUMMEL (Print Name)

State of Massachusetts)
County of Middlesex)

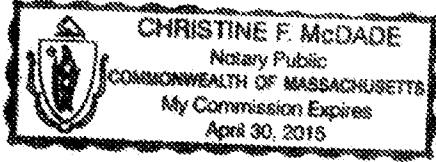
On January 30, 2012 before me,
(insert date)

Christine F. McDade - Notary Public, MA
(insert name and title of the notarizing officer)

personally appeared Mark Hummel,
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 Massachusetts that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



(NOTARY SEAL)

Signature: *Christine F. McDADE*

Witness # 1:

_____ (Signature) _____ (Date)
_____ (Print Name)

Witness # 2:

_____ (Signature) _____ (Date)
_____ (Print Name)

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