PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Andrew G. Kegel	07/14/2011
Ronald Perez	09/21/2011
Wei Huang	07/20/2011

RECEIVING PARTY DATA

Name:	Advanced Micro Devices, Inc.
Street Address:	One AMD Place
Internal Address:	P.O. Box 3453
City:	Sunnyvale
State/Country:	CALIFORNIA
Postal Code:	94088

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13244571

CORRESPONDENCE DATA

Fax Number:(512)853-8801Phone:512-853-8800

Email: dbeasley@intprop.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Dean M. Munyon

Address Line 1: Meyertons Hood Kivlin Kowert & Goetzel

Address Line 2: P.O. Box 398

Address Line 4: AUSTIN, TEXAS 78767-0398

ATTORNEY DOCKET NUMBER: 5800-45100

NAME OF SUBMITTER: Dean M. Munyon

PATENT

REEL: 026963 FRAME: 0656

\$40.00 13244

Total Attachments: 15 source=100482_Assignment_5800-45100#page1.tif source=100482_Assignment_5800-45100#page2.tif source=100482_Assignment_5800-45100#page3.tif source=100482_Assignment_5800-45100#page4.tif source=100482_Assignment_5800-45100#page5.tif source=100482_Assignment_5800-45100#page6.tif source=100482_Assignment_5800-45100#page7.tif source=100482_Assignment_5800-45100#page8.tif source=100482_Assignment_5800-45100#page9.tif source=100482 Assignment 5800-45100#page10.tif source=100482_Assignment_5800-45100#page11.tif source=100482_Assignment_5800-45100#page12.tif source=100482 Assignment 5800-45100#page13.tif source=100482_Assignment_5800-45100#page14.tif source=100482_Assignment_5800-45100#page15.tif

5800-45100 AMD Reference No. 100482

ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventors Andrew G. Kegel, Ronald Perez, and

Wei Huang (hereinafter referred to as the "Inventors") and Advanced Micro Devices, Inc.,

having a place of business at One AMD Place, P.O. Box 3453, Sunnyvale, CA 94088-

(hereinafter referred to as the "Assignee").

WHEREAS, Inventors have caused to be prepared a United States Patent Application in the

Inventors' name entitled INPUT/OUTPUT MEMORY MANAGEMENT UNIT WITH

PROTECTION MODE FOR PREVENTING MEMORY ACCESS BY I/O DEVICES.

which has been executed by the undersigned concurrently herewith, and having a docket number

of 5800-45100 (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 Inventors are subject to a prior agreement transferring rights, title,

and/or interest in the Invention(s) to the Assignee, Inventors hereby confirm such transfer.

To the extent that Inventors retain any rights, title, or interest in the Invention(s) not

vested in the Assignee on the date(s) of execution of this Assignment, Inventors 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. Inventors 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. Inventors shall not be entitled to an accounting

for any causes of action or remedies pursued by Assignee.

Page 1 of 5

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

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

Inventor:		
Moles		
/ Now when	(Signature)	14 july 2011 (Date
Andrew G. Kegel .		V

Millenano	\mathcal{M}	1	
Witness	77	3	•

Lola 1 Standler	(Signature)	7/15/20// (Date)
LaLa V Standley	(Print Name)	,

Witness # 2:

mon	(Signature)	7/15/201/ (Date)
Mark D. HILL	(Print Name)	



Inventor:		
	(Signature)	(Date)
Ronald Perez		
State of)	
County of		- -
On(insert date)	before me,	
(insert na	ame and title of the notarizing office	er)
the person(s) whose nat that he/she/they execu	me(s) is/are subscribed to the within sted the same in his/her/their au on the instrument the person(s), on	he basis of satisfactory evidence to be in instrument and acknowledged to me athorized capacity(ies), and that by or the entity upon behalf of which the
I certify under PI	ENALTY OF PERJURY under that the foregoing paragraphs	
WITNESS my hand and	l official seal.	
		f .
(NOTARY SEAL)	Signature:	

Inventor:			
	(Signature)	(Date)	
Wei Huang			
State of)		
County of			
Onbef	ore me,		
(insert name and title	of the notarizing off	cer)	. R. AND ADDRESS OF THE PARTY T
personally appeared Wei Huang, we the person(s) whose name(s) is/are that he/she/they executed the san his/her/their signature(s) on the instead person(s) acted, executed the instruments of the person has been been been been been been been bee	subscribed to the with ne in his/her/their rument the person(s)	nin instrument and authorized capaci	acknowledged to me ty(ies), and that by
I certify under PENALTY tha	OF PERJURY ur t the foregoing parag		
WITNESS my hand and official sea	1.		
(NOTARY SEAL)	Signature:		

Customer Number 53806

Dean M. Munyon Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. P.O. Box 398 Austin, TX 78767-0398

Page 5 of 5

5800-45100 AMD Reference No. 100482

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and otherwise transfer to the Assignee their entire right, title, and interest, throughout the world,

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priority thereto. Inventors 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

그리는 이 물리를 보고 하면 하면 하셨다는 해 하셨다는 사람들이 하는 사람들이 하는 사람들이 가장 하셨다는 것이 되었다. 그 사람들이 살아 나는 사람들이 살아 하셨다는 것이다.

after the date(s) of execution of this Assignment. Inventors shall not be entitled to an accounting

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Page 1 of 5

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inventor:		
	(Signature)	(Date)
Andrew G. Kegel		
Witness # 1:		
	(Signature)	(Date)
	(Print Name)	
Witness # 2:		
	(Signature)	(Date)
	(Print Niama)	

Inventor:
(Signature) 9-21-1/ (Date)
Ronald Perez
State of Texas
County of Travis
On September 21, Zoll before me, (insert date)
Joan Schuster Senior Administrator (insert name and title of the notarizing officer)
personally appeared Ronald Perez, 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.



Signature:

inventor:		
	(Signature)	(Date)
Wei Huang		· · · · · · · · · · · · · · · · · · ·
State of	<u> </u>	
County of)	
On(insert date)	before me,	
(insert nan	ne and title of the notarizing off	icer)
the person(s) whose name that he/she/they execute	e(s) is/are subscribed to the wited the same in his/her/their on the instrument the person(s)	the basis of satisfactory evidence to be thin instrument and acknowledged to me authorized capacity(ies), and that by), or the entity upon behalf of which the
I certify under PEN	IALTY OF PERJURY until that the foregoing parag	nder the laws of the State of graph is true and correct.
WITNESS my hand and o	official seal.	
(NOTARY SEAL)	Signature:	

Customer Number 53806

Dean M. Munyon Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. P.O. Box 398 Austin, TX 78767-0398

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Page 1 of 5

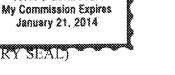
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Inventor:		
	(Signature)	(Date)
Andrew G. Kegel		
Witness # 1:		
	(Signature)	(Date)
	(Print Name)	
Witness # 2:		
	(Signature)	(Date)
	(Print Name)	

Inventor:
(Signature) (Date)
Ronald Perez
State of
County of)
On before me, (insert date)
(insert name and title of the notarizing officer) personally appeared Ronald Perez, 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:

Inventor:
07/20/2011 (Signature) (Date)
Wei Huang
State of T-EXAS
County of Travis
County of 1100 to
On July ZO, ZOII before me, (insert date)
Joan D. Schuster, Senior Administrative Vassistant (insert name and title of the notarizing officer)
personally appeared Wei Huang, 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.
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WITNESS my hand and official seal.



JOAN D SCHUSTER

Signature:

Customer Number 53806

Dean M. Munyon Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. P.O. Box 398 Austin, TX 78767-0398

Page 5 of 5

PATENT REEL: 026963 FRAME: 0672

RECORDED: 09/25/2011