### PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
James O'Connor	12/13/2011
Aaron Nygren	12/13/2011
Anwar Kashem	12/13/2011
Warren Kruger	12/13/2011
Bryan Black	12/13/2011

#### **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

Property Type	Number
Application Number:	13325648

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	1972.2750000
NAME OF SUBMITTER:	Robert W. Molitors

REEL: 027379 FRAME: 0211

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PATENT

## Total Attachments: 7 source=19722750000Assign#page1.tif source=19722750000Assign#page2.tif source=19722750000Assign#page3.tif source=19722750000Assign#page4.tif source=19722750000Assign#page5.tif source=19722750000Assign#page6.tif

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AMD Reference No. 110135

#### ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) James O'CONNOR, Aaron NYGREN, Anwar KASHEM, Warren KRUGER and Bryan BLACK (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 \_\_\_\_\_\_, entitled Unified Data Masking, Data Poisoning, and Data Bus Inversion Signaling, having application no. to be assigned, and having a docket number of 1972.2750000 (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,

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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.

Inventor: (Signature) 13 Dec2011 (Date) ames O'Connor (Print Name) State of Texas County of Travis On <u>December 13, 2011</u> before me, (insert date) Joan D. Schuster, Senior Admin's Strator (insert name and title of the notarizing officer) personally appeared <u>James O'Connor</u> 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 Texas that the foregoing paragraph is true and correct.

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

JOAN D SCHUSTER
My Commission Expires
January 21, 2014

WITNESS my hand and official seal.

Signature:

Inventor: (Signature) <u>12//3///</u> (Date) Aaron Nygren (Print Name) State of <u>California</u>)
County of <u>(CALF) SONTA CEALA</u>) On \_\_\_\_\_\_\_before me, (insert date) SUSAN FLORES (insert name and title of the notarizing officer) 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 CARLIFORNIA that the foregoing paragraph is true and correct. WITNESS my hand and official seal. Sents Clers County Comm. Expires Dec. 30, 2012 Signature: (NOTARY SEAL)

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

Inventor. Anwar Kashem	(Signature) (Print Name)	13. DFC. 2011	_ (Date)
State of Courts  County of Source County	RN19 )		
County of SOUTOP C	CERRA )		
On <u>Θec. /2, 2///</u> (insert date)	_before me,		
	SUMMI FLOR	E-5	
	tle of the notarizing		
personally appeared who proved to me on the basi	is of satisfactory ev	ridence to be the	person(s) whose
name(s) is/are subscribed to he/she/they executed the same his/her/their signature(s) on the which the person(s) acted, execu-	e in his/her/their au instrument the per	thorized capacity	(ies), and that by
COCIFORNIA	OF PERJURY ungthat the foregoing p	der the laws c paragraph is true a	of the State of and correct.
WITNESS my hand and official s	seal.		
		COMM 8; COMM 818 Matery Public - Serris Clars My Comm Expires	28774 California Corney
(NOTARY SEAL)	Signature:	Sterr	

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

This assignment is executed on the date(s) of which the Inventor(s) have signed. Inventor: (Signature) D£C (3, 20/1) (Print Name) Warren Kruger State of CA County of SANTA CLARA On \_\_\_\_\_\_before me, (insert date) SUSPIN FLORES (insert name and title of the notarizing officer) personally appeared WARREN KRUGER 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. SUSAN P. FLORES Votary Public - California Santa Clara County Comm. Exercise Dec. 30, 2012

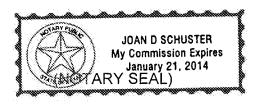
Signature:

(NOTARY SEAL)

Inventor: (Signature) / Z - /3 - /(Date) Bryan Black (Print Name) State of Texas

County of Travis On <u>Occumber 13, 2011</u> before me, (insert date) Joan D. Schuster, Smior Admin istrator (insert name and title of the notarizing officer) personally appeared  $\underline{Bryan}$   $\underline{Black}$ , 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.

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



RECORDED: 12/14/2011

Signature: