# 503208746 03/06/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3255362

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
PETER BAILEY	01/27/2015
MANISH ARORA	03/02/2015
INDRANI PAUL	03/06/2015

### **RECEIVING PARTY DATA**

Name:	ADVANCED MICRO DEVICES, INC.	
Street Address:	ONE AMD PLACE	
City:	SUNNYVALE	
State/Country:	CALIFORNIA	
Postal Code:	94085	

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14641220

### **CORRESPONDENCE DATA**

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 650-468-1401

**Email:** kerryliang@lcpatent.com

Correspondent Name: ADVANCED MICRO DEVICES C/O LIANG & CHENG

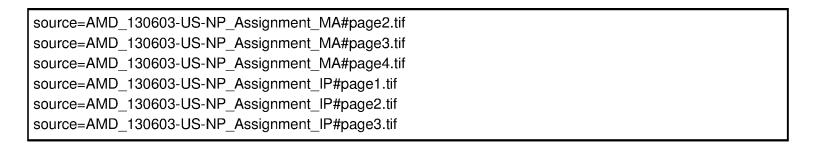
Address Line 1: 1400 COLEMAN AVE STE D26

Address Line 4: SANTA CLARA, CALIFORNIA 95050

ATTORNEY DOCKET NUMBER:	130603-US-NP
NAME OF SUBMITTER:	KERRY LIANG
SIGNATURE:	/Kerry Liang/
DATE SIGNED:	03/06/2015

**Total Attachments: 10** 

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### ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **Peter Bailey** (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 March 6, 2015, entitled **HARDWARE/RUNTIME COORDINATED LOAD BALANCING FOR PARALLEL APPLICATIONS**, having application no. 14/641,220, and having a docket number of **130603-US-NP** (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,

AMD Reference No. 130603-US-NP

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) 1/27/15 (Date)

Peter Bailey (Print Name)

Witness # 1:

(Signature) 1/27/15 (Date)

(Print Name)

Witness # 2:

Witness # 2:

(Signature) 27 Jan Zoj5 (Date)

(Print Name)

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

AMD Reference No. 130603-US-NP

### ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **Manish Arora** (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 March 6, 2015, entitled **HARDWARE/RUNTIME COORDINATED LOAD BALANCING FOR PARALLEL APPLICATIONS**, having application no. 14/641,220, and having a docket number of **130603-US-NP** (hereinafter referred to as the "Application"); and

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AMD Reference No. 130603-US-NP

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  - 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:	
Walighsi	(Signature) 3 2 2015 (Date)
Manish Arora	?
	(Print Name)
State of	
County of	- Joseph Jan
On(insert date)	
(insert name a	nd title of the notarizing officer)
name(s) is/are subscribed he/she/they executed the s	basis of satisfactory evidence to be the person(s) whose to the within instrument and acknowledged to me that same in his/her/their authorized capacity(ies), and that by the instrument the person(s), or the entity upon behalf of
	OF PERJURY under the laws of the State of that the foregoing paragraph is true and correct.
WITNESS my hand and office	cial seal.
(NOTARY SEAL)	Signature:

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

¥.

A notary public or other officer completing this certificat document to which this certificate is attached, and not the	e verifies only the identity of the individual who signed the etruthfulness, accuracy, or validity of that document.
State of California County of Sanda Clara On March 3, 2015 before me, K  Date  Dersonally appeared MAMISH A	Here Insert Name and Title of the Officer    COLA     Name(s) of Signer(s)
subscribed to the within instrument and acknowle his/ <del>her/their</del> authorized capacity( <del>les),</del> and that by his or the entity upon behalf of which the person(s) act	evidence to be the person(s) whose name(s) is/are edged to me that he/she/they-executed the same in s/her/their signature(s) on the instrument the person(s); ted, executed the instrument.  certify under PENALTY OF PERJURY under the laws
	of the State of California that the foregoing paragraph is true and correct.
RITA S. MARQUIS Commission # 2054591	WITNESS my hand and official seal.
	Signature of Notary Public
Notary Public - California Santa Clara County Ny Comm. Expites Feb 5, 2018  Place Notary Seal Above	Signature of Notary Public
Notary Public - California Santa Clara County My Comm. Expires Feb 5, 2018  Place Notary Seal Above  OP7  Though this section is optional, completing this is	Signature Signature of Notary Public  Signature of Notary Public  FIONAL information can deter alteration of the document or form to an unintended document.
Notary Public - California Santa Clara County My Comm. Expires Feb 5, 2018  Place Notary Seal Above  OP7  Though this section is optional, completing this is	Signature of Notary Public  TONAL  Information can deter alteration of the document or form to an unintended document.  Document Date:

### ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **Indrani Paul** (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 March 6, 2015, entitled **HARDWARE/RUNTIME COORDINATED LOAD BALANCING FOR PARALLEL APPLICATIONS**, having application no. 14/641,220, and having a docket number of **130603-US-NP** (hereinafter referred to as the "Application"); and

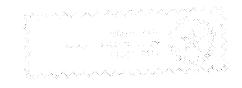
WHEREAS, Assignee has a desire to acquire all rights, title, and interest in the invention(s) disclosed in the Application (hereinafter referred to as the "Invention(s)"), including any rights, title, and interest in the Invention(s) not previously transferred to Assignee through prior agreement.

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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.

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

Inventor:			
Intravi Paul	(Signature)	3/6/2015	(Date)
Indrani Paul	(Print Name	∍).	
State of Texas	)		
County of Travis	)		
On 3/6/2015 (insert date)	_before me,		
June	Harris	notary publi	Έ.
(insert name and to personally appeared		włary publi ing officer)	***************************************
who proved to me on the bas name(s) is/are subscribed to he/she/they executed the same his/her/their signature(s) on the which the person(s) acted, exec	is of satisfactory the within instrue in his/her/their instrument the	<ul> <li>evidence to be the sument and acknowed authorized capacities</li> <li>person(s), or the expression</li> </ul>	rledged to me that ty(ies), and that by
I certify under PENALTY (			
WITNESS my hand and official :	seal.		
		······································	
(NOTARY SEAL)	Signature:		
June Harris Wy Commission Expires	3		

**RECORDED: 03/06/2015**