

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3969082

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JIASHENG CHEN	06/17/2016
QINGCHENG WANG	06/20/2016
YUNXIAO ZOU	06/20/2016
MICHAEL MANTOR	06/20/2016
BIN HE	06/17/2016
TIMOUR T. PALTASHEV	06/17/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ADVANCED MICRO DEVICES, INC.
<b>Street Address:</b>	ONE AMD PLACE
<b>City:</b>	SUNNYVALE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94085
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15189054
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(215)568-6499
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<b>Phone:</b>	215-568-6400
<b>Email:</b>	Hlannuzzi@vklaw.com
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<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19103
<b>ATTORNEY DOCKET NUMBER:</b>	AMDATI-150197-US-NP
<b>NAME OF SUBMITTER:</b>	ABHIK A. HUQ
<b>SIGNATURE:</b>	/Abhik A. Huq/
<b>DATE SIGNED:</b>	07/19/2016

**Total Attachments: 8**

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**ASSIGNMENT OF PATENT RIGHTS**

This is an assignment of patent rights between inventor(s) Jiasheng Chen, QingCheng Wang, YunXiao Zou, Michael Mantor, Bin He, and Timour T. Paltashev (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 June 22, 2016, entitled METHOD AND PROCESSING APPARATUS FOR GATING REDUNDANT THREADS, having application no. 15/189,054, and having a docket number of AMDATI-150197-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,

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: Jiasheng Chen

Jiasheng Chen (Signature)  
Jiasheng Chen (Print Name)

Jan 17, 2016 (Date)

State of: Florida

County of: Orange

On June 17, 2016 before me,  
(insert date)

Jennie L. Wilson, Receptionist  
(insert name and title of the notarizing officer)

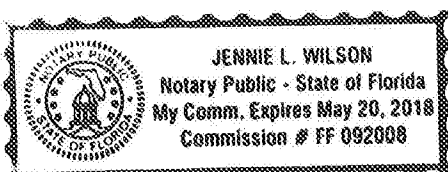
personally appeared Jiasheng Chen,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose  
name(s) is/are subscribed to the within instrument and acknowledged to me that  
he/she/they executed the same in his/her/their authorized capacity(ies), and that by  
his/her/their 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 Florida  
that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: Jennie L. Wilson



Inventor: QingCheng Wang

QingCheng Wang (Signature)  
QingCheng Wang (Print Name)

06/20/2016 (Date)

Witness # 1:

Weiliang Li (Signature)  
Weiliang Li (Print Name)

06/20/2016 (Date)

Witness # 2:

Jiwei Zhou (Signature)  
JiWei Zhou (Print Name)

06/20/2016 (Date)

AMD Reference No. 150197-US-NP

Inventor: YunXiao Zou

YunXiao Zou (Signature)  
YunXiao Zou (Print Name)

June 20, 2016 (Date)

Witness # 1:

Weiliang Li (Signature)  
Weiliang Li (Print Name)

June 20, 2016 (Date)

Witness # 2:

Jiwei Zhou (Signature)  
Jiwei Zhou (Print Name)

June 20, 2016 (Date)

Inventor: Michael Mantor

Michael Mantor (Signature) 6/20/2016 (Date)  
Michael Mantor (Print Name)

State of: FloridaCounty of: Orange

On June 20, 2016 before me,  
 (insert date)

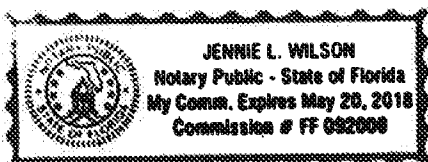
Jennie L. Wilson, Receptionist  
 (insert name and title of the notarizing officer)

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 Florida  
 that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(NOTARY SEAL)

Signature: Jennie L. Wilson

Inventor: Bin He

*Bin He* (Signature) 06/17/2016 (Date)  
Bin He (Print Name)

State of:

Florida

County of:

Orange

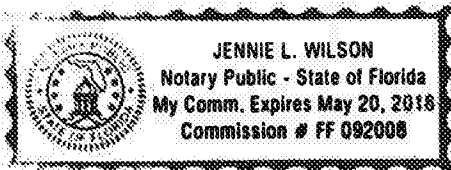
On June 17, 2016 before me,  
 (insert date)

Jennie L. Wilson, Receptionist  
 (insert name and title of the notarizing officer)

personally appeared Bin He  
 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 Florida  
 that the foregoing paragraph is true and correct.

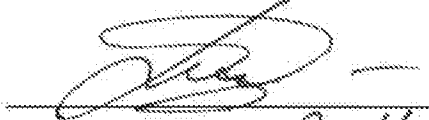
WITNESS my hand and official seal.



(NOTARY SEAL)

Signature: *Jennie L. Wilson*

Inventor: Timour T. Paltashev

 (Signature)  
Timour Paltashev (Print Name)

06/17/16 (Date)

State of: CALIFORNIA

County of: SANTA CLARA

On JUNE 17, 2016 before me,  
 (insert date)

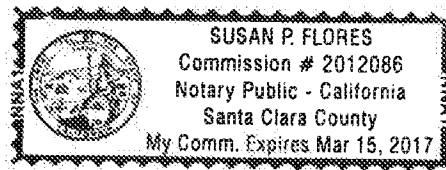
SUSAN P. FLORES

(insert name and title of the notarizing officer)

personally appeared TIMOUR T. PALTASHEV,  
 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: 