PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3650923

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MITESH R. MESWANI	12/01/2015
DAVID A. ROBERTS	12/02/2015
DMITRI YUDANOV	12/02/2015
ARKAPRAVA BASU	12/02/2015
SERGEY BLAGODUROV	12/01/2015

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:	14963352

CORRESPONDENCE DATA

Fax Number: (215)568-6499

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: 215-568-6400

Email: Hlannuzzi@vklaw.com

Correspondent Name: VOLPE AND KOENIG, P.C.

Address Line 1: UNITED PLAZA

Address Line 2: 30 SOUTH 17TH STREET

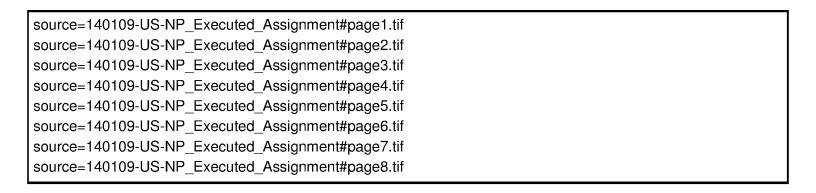
Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103

Tabal Attachmanda 0	
DATE SIGNED:	12/09/2015
SIGNATURE:	/Thomas A. Mattioli/
NAME OF SUBMITTER:	THOMAS A. MATTIOLI
ATTORNEY DOCKET NUMBER:	AMD-140109-US-NP

Total Attachments: 8

PATENT REEL: 037252 FRAME: 0092

503604293



ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) Mitesh R. Meswani, David A. Roberts, Dmitri Yudanov, Arkaprava Basu, and Sergey Blagodurov (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 December 9, 2015 entitled METHOD AND APPARATUS FOR PERFORMING INTER-LANE POWER MANAGEMENT, having application no. 14/963,352 , and having a docket number of AMD-140109-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:

- 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.

3919966-1

AMD Reference No. 140109-US-NP

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

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.

3919966-1

Inventor: Mitesh R. Meswani Mitesh R. Meswani (Print Name) State of: County of: On <u>December 1, Zois</u> before me, (insert date) Karting Escertia, Notary for State of Texas (insert name and title of the notarizing officer) personally appeared Mitesh Meswani 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 でにぬる that the foregoing paragraph is true and correct. WITNESS my hand and official seal. Signature: Kath Scatic (NOTARY SEAL) KATHY ESCUTIA Notary Public, State of Texas My Commission Expires

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

August 05, 2018

Inventor: David A. Roberts	
	gnature) <u>Iz/z/z∘j</u> (Date) int Name)
State of: County of: State of: County of: Santa	nia Cruz)
On <u>December 2, 2015</u> befo	re me,
Aidan M Boling, Notare	Public Public
personally appeared	tisfactory evidence to be the person(s) whose in instrument and acknowledged to me that /her/their authorized capacity(ies), and that by nent the person(s), or the entity upon behalf of
I certify under PENALTY OF PERJURY that the foregoing paragraph is true and	under the laws of the State of <u>California</u> correct.
WITNESS my hand and official seal.	
Notary Public See Attached	
(NOTARY SEAL)	Signature: AIDAMBol

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California	· }
County of Santa Cruz	_ }
On December 2,2015 before me,	Aidan M. Bolina Notary Public.
personally appeared David Roll	perts factory evidence to be the person(s) whose
	instrument and acknowledged to me that
· •	er/their authorized capacity(ies), and that by
	ent the person(s), or the entity upon behalf of
which the person(s) acted, executed the	
I certify under PENALTY OF PERJURY	under the laws of the State of California that
the foregoing paragraph is true and cor	
	AIDAN M. BOLING
WITNESS my hand and official seal.	O COMM. # 2115982
1 45	SANTA CRUZ COUNTYO
ADM BL	Comme Et Incoording 10 2019
Notary Public Signature (No	otary Public Seat)
ADDITIONAL OPTIONAL INFORMATION	INSTRUCTIONS FOR COMPLETING THIS FORM
ADDITIONAL OPTIONAL INFORMATION OF THE ATTACHED DOCUMENT	This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments
DESCRIPTION OF THE ATTACHED DOCUMENT	from other states may be completed for documents being sent to that state so long
Assignment of Patent	as the wording does not require the California notary to violate California notary law.
(Title or description of attached document)	 State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
(Title or description of attached document continued)	Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
Number of Pages 4 Document Date 12/2/20	I . The notary public must print his or her name as it appears within his or her
Number of Fuges Decamen Date	commission followed by a comma and then your title (notary public). • Print the name(s) of document signer(s) who personally appear at the time of
CAPACITY CLAIMED BY THE SIGNER	notarization. • Indicate the correct singular or plural forms by crossing off incorrect forms (i.e.
☐ Individual (s)	he/she/they, is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
☐ Corporate Officer	• The notary seal impression must be clear and photographically reproducible.
(Title)	Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
☐ Partner(s)	 Signature of the notary public must match the signature on file with the office of the county clerk.
☐ Attorney-in-Fact ☐ Trustee(s)	 Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
Other	Indicate title or type of attached document, number of pages and date.
Local Control	Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
2015 Version www.NotaryClasses.com 800-873-9865	 Securely attach this document to the signed document with a staple.

(Signature) 12 /C2 1 (Signature) (Print Name)
State of: <u>Texas</u>)
County of:
On <u>December 2, 2015</u> before me, (insert date)
SHACINI D. SHETTY, NOTARY PUBLIC
(insert name and title of the notarizing officer)
personally appeared Dimits Yudanav 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 <u>Je xa S</u> that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.
SHALINI D. SHETTY MY COMMISSION EXPIRES April 13, 2017 (NOTARY SEAL) Signature:

Inventor: Arkaprava Basu		
Arkaprava Basu (F	ignature) \(\frac{\gamma^2}{2}\) rint Name)	<u>/o ²/Ձ៰៲ಽ</u> (Date)
State of: TEXA County of: TRAV	<u> </u>	
County of: TRAV	(5)	
On <u>December 02, 20/5</u> befo (insert date)	re me,	
JANET T. BOSWELL,	Vottera Publ	We
(insert name and title of the no	tarizing officer)	(
personally appeared <u>Owh appava</u> who proved to me on the basis of sa name(s) is/are subscribed to the wit he/she/they executed the same in his his/her/their signature(s) on the instrurwhich the person(s) acted, executed the	itisfactory evidence hin instrument ar her/their authoriz nent the person(s	nd acknowledged to me that red capacity(ies), and that by
I certify under PENALTY OF PERJURY that the foregoing paragraph is true and	under the laws of correct.	the State of
WITNESS my hand and official seal.		
(NOTARY SEAL) JANET T. BOSWELL MY COMMISSION EXPIRES MARCH 29, 2017	Signature; <u>2</u>	eur o. Brewell

Inventor: Sergey Blagodurov		
	_(Signature)	
Sergey PlagoduroV	_(Print Name)	
State of:	hington_)	
On 12/01/2015 (insert date)	before me,	
Jola Standley (insert name and title of the	<u> Admiristrati</u> ne notarizing offic	ive Specialist per)
name(s) is/are subscribed to the	of Satisfactory e within instrumen his/her/their a strument the pe	vidence to be the person(s) whose ent and acknowledged to me that uthorized capacity(ies), and that by rson(s), or the entity upon behalf of
I certify under PENALTY OF PERJITHER that the foregoing paragraph is true	URY under the la	aws of the State of Washington
WITNESS my hand and official sea		
(NOTARY SEAL)	Signature:	dola J Standley
LOLA J STANDLEY Notary Public State of Washington My Commission Expires April 08, 2018		

3919966-1