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PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5158333

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ARUNACHALAM ANNAMALAI	09/12/2018
MARIUS EVERS	09/12/2018
APARNA THYAGARAJAN	09/12/2018

RECEIVING PARTY DATA

Name:	Advanced Micro Devices, Inc.	
Street Address:	2485 Augustine Drive	
City:	Santa Clara	
State/Country:	CALIFORNIA	
Postal Code:	95054	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16134440

CORRESPONDENCE DATA

Fax Number: (512)355-1119

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: (512)582-2455

Email: AMD@ds-patent.com

DAVIDSON SHEEHAN LLP **Correspondent Name:** Address Line 1: 6836 AUSTIN CENTER BLVD.

Address Line 2: **SUITE 320**

Address Line 4: AUSTIN, TEXAS 78731

ATTORNEY DOCKET NUMBER:	1458-180062
NAME OF SUBMITTER:	EMILY STALDER
SIGNATURE:	/Emily Stalder/
DATE SIGNED:	09/25/2018

Total Attachments: 5

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ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) Arunachalam ANNAMALAI, Marius EVERS, and Aparna THYAGARAJAN (hereinafter referred to as the "Inventor(s)") and Advanced Micro Devices, Inc., having a place of business at 2485 Augustine Drive, Santa Clara, California, USA (hereinafter referred to as the "Assignee").

WHEREAS, Inventor(s) are named as in	nventors in the patent application—filed in the
United States Of America on	entitled USING LOOP EXIT
PREDICTION TO ACCELERATE OR SU	JPPRESS LOOP MODE OF A PROCESSOR
having application no	, and having a docket number of 1458-180062
(hereinafter referred to as the "Application	i"); 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. 180062

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.

12/20/20	(Signature) 9/12/18 (Date)
Marius EVERS	
,	completing this certificate verifies only the identity of ocument to which this certificate is attached, and not lidity of that document.
State of California)	
County of <u>Santa Clara</u>	
On 9/12/18 (insert date)	before me,
Laura Priscilla Law	rendra, Notary Public
(insert name and title personally appeared \(\frac{\gamma \alpha \alpha \tau}{\alpha}	le of the notarizing officer)
who proved to me on the basis name(s) is/are subscribed to the	of satisfactory evidence to be the person(s) whose ne within instrument and acknowledged to me that
	in his/her/their authorized capacity(ies), and that by instrument the person(s), or the entity upon behalf of ted the instrument.
I certify under PENALTY O	F PERJURY under the laws of the State of the that the foregoing paragraph is true and correct.
WITNESS my hand and official se	eal.
LAURA PRISCILLA LAWRENDRA Notary Public - California Santa Clars County Commission # 2197637 My Comm. Expires May 18, 2021	DA.
(NOTARY SEAL)	Signature:

Inventor: 9/12/2018(Date)
Aparna THYAGARAJAN
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 Clara
On 9/12/18 before me, (insert date)
Laura Priscilla Lawrendra, Notary Public (insert name and title of the notarizing officer)
personally appeared APATNA Thya darajan
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 o
which the person(s) acted, executed the instrument.
I certify under PENALTY OF PERJURY under the laws of the State o
WITNESS my hand and official seals
LAURA PRISCILLA LAWRENDRA Notary Public – Celifornia Santa Clara County Commission # 2197637 My Comm. Expires May 18, 2021
(NOTARY SEAL) Signature:

PATENT REEL: 046968 FRAME: 0425

RECORDED: 09/25/2018