

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT6642186

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MUHAMMAD AMBER HASSAAN	03/19/2020
ANIRUDH MOHAN KAUSHIK	03/12/2020
SOORAJ PUTHOOR	03/19/2020
GOKUL SUBRAMANIAN RAVI	03/13/2020
BRADFORD BECKMANN	03/11/2020
ASHWIN AJI	03/11/2020
RECEIVING PARTY DATA	
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Street Address:	2485 Augustine Drive
City:	Santa Clara
State/Country:	CALIFORNIA
Postal Code:	95054
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16824601
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	190114
NAME OF SUBMITTER:	BRENDA L. THOM
SIGNATURE:	/Brenda L. Thom/
DATE SIGNED:	04/06/2021

Total Attachments: 8

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ASSIGNMENT OF PATENT RIGHTS

This is an assignment of patent rights between inventor(s) **Muhammad Amber HASSAAN, Anirudh Mohan KAUSHIK, Sooraj PUTHOOR, Gokul Subramanian RAVI, Bradford BECKMANN, and Ashwin AJI** (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 inventors in the patent application filed in the United States Of America on March 19, 2020, entitled **HARDWARE ASSISTED FINE-GRAINED DATA MOVEMENT**, having application no. 16/824,601, and having a docket number of **1458-190114** (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).

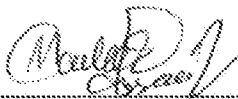
6. Inventor(s) hereby authorize Assignee, its successors and assigns, its legal representatives, or anyone the Assignee may properly designate, to insert in this Assignment of Patent Rights the filing date and/or application number of the Application when ascertained.

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:

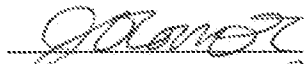


(Signature)

March 19th, 2020 (Date)

Muhammad Amber HASSAAN

Witness # 1:



(Signature)

March 19, 2020 (Date)

Julie O'Connor (Print Name)

Witness # 2:

(Signature)

(Date)

(Print Name)

Inventor:

Anirudh L. M. Karlin (Signature)

12-03-2024 (Date)

Anirudh Mohan KAUSHIK

Witness # 1:

Zhuanhao Wu (Signature)

12-03-2020 (Date)

Zhuanhao Wu (Print Name)

Witness # 2:

MV Mohan (Signature)

12-03-2020 (Date)

M. V. MOHAN (Print Name)

Inventor:

Rathod (Signature)03/19/2020 (Date)Sooraj PUTHOOR

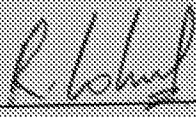
Witness # 1:

Janaki (Signature)03/19/2020 (Date)JANAKY DEVI VAYAYINAT KIZHAKKEPAT (Print Name)
PATHAYATURAIL

Witness # 2:

Sreedas (Signature)03/19/2020 (Date)SREEDHAKUTTY VAYAYINAT (Print Name)
KIZHAKKEPAT PATHAYATURAIL

Inventor:



(Signature)

3/13/20 (Date)Gokul Subramanian RAVI

Witness # 1:



(Signature)

03/13/20 (Date)HENG ZHUO

(Print Name)

Witness # 2:



(Signature)

03/13/20 (Date)Ravi Rajin

(Print Name)

Inventor:

 (Signature)

3/11/2020 (Date)

Bradford BECKMANN

Witness # 1:

 (Signature)

3/11/2020 (Date)

Nicholas Sa (Print Name)

Witness # 2:

 (Signature)

3/11/2020 (Date)

Julian Gutierrez (Print Name)

Inventor: Ashwin AJI (Signature) 11/March/2020 (Date)

Ashwin AJI

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 March 12, 2020 before me,
(insert date)

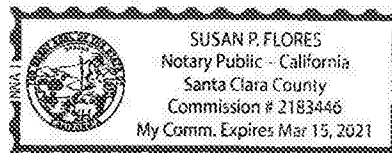
Susan P. Flores, Notary Public

(insert name and title of the notarizing officer)

personally appeared Ashwin AJI,
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: S. Flores