505250258 12/21/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JING LI	12/20/2018
JIALIANG ZHANG	03/16/2018

RECEIVING PARTY DATA

Name:	Wisconsin Alumni Research Foundation	
Street Address:	614 Walnut Street	
City:	Madison	
State/Country:	WISCONSIN	
Postal Code:	53726	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15901376	

CORRESPONDENCE DATA

Fax Number: (608)263-1064

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: 608-265-7938
Email: mnoriega@warf.org
Correspondent Name: MEREDITH NORIEGA
Address Line 1: 614 WALNUT STREET

Address Line 2: 13TH FLOOR

Address Line 4: MADISON, WISCONSIN 53726

ATTORNEY DOCKET NUMBER:	P180181US01	
NAME OF SUBMITTER: MEREDITH NORIEGA		
SIGNATURE:	/MEREDITH NORIEGA/	
DATE SIGNED:	12/21/2018	

Total Attachments: 3

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PATENT 505250258 REEL: 047843 FRAME: 0494

ASSIGNMENT (Joint Inventors)

I am one of the persons identified as an inventor and who has contributed to a new and useful invention (the "Invention") described in the provisional or utility United States patent application and/or the patent application filed under the Patent Cooperation Treaty, as identified below. These patent application(s) are identified as follows:

Filing Type Filing Country		Serial Number	Filing Date			
COMPUTER ARCHITECTURE FOR HIGH SPEED, GRAPH-TRAVEL						
PAT	UNITED STATES	15/901376	February 21, 2018			

For good and valuable consideration, the receipt of which I hereby acknowledge, I do hereby sell, assign, and transfer to the Wisconsin Alumni Research Foundation ("WARF"), a non-stock, non-profit, Wisconsin corporation, and to its legal representatives, successors and assigns, my entire right, title and interest in and to the Invention and to all United States provisional and utility applications as well as foreign patents or patent applications any of which cover all or part of the Invention. WARF shall hold such right, title and interest as fully and completely as they would have been held by me had this assignment and sale not been made.

I further agree, upon WARF's request, to execute any documents, including any separate assignments, declarations or other legal documents, that WARF may find necessary or desirable in its exercise of the right, title and interest assigned above. I further agree to communicate to WARF any facts relating either to the Invention or to any of the patent or patent applications based on the Invention that might be useful to WARF and to testify about any such facts in any interferences or litigation, if requested by WARF to do so. I shall do the above acts without additional compensation but at no expense to me.

Should the application number of any of the patent applications referenced above be unavailable the date that I execute this document, WARF is authorized by me to insert the application number and filing dates of these patent applications into this document. WARF is also specifically authorized to record this document as evidence of my assignment to WARF of any subsequent United States patent application claiming priority from any of the above identified patent applications.

Ref: P180181US01

Wisconsin Alumni Research Foundation

PATENT REEL: 047843 FRAME: 0495

App.#: 15/901376, Filed: February 21, 2018 Date: 12/20/20 () Jing Li 1137 Amherst Drive Madison, WI 53705 State of Wisconsin County of Dane On this 20 day of December 20 18 before me personally appeared Jing Li, known to me to be the person identified above as the "Inventor," who executed the above instrument and acknowledged to me that he or she executed the same for the uses and purposes therein set forth. Suphanie M. Whithorse Notary Publid My Commission expires: September 5,7021

ASSIGNMENT

SEAL

Ref: P180181US01

Wisconsin Alumni Research Foundation

PATENT REEL: 047843 FRAME: 0496

Jialiang Zhang 2128 Allen Blvd #3 Middleton, WI 53562 State of Wisconsin)ss. County of Dane On this ______day of ______, 20 _____ before me personally appeared Jialiang Zhang, known to me to be the person identified above as the "Inventor," who executed the above instrument and acknowledged to me that he or she executed the same for the uses and purposes therein set forth. **SEAL** AOTARY PUBLIC My Commission expires:

> PATENT REEL: 047843 FRAME: 0497

RECORDED: 12/21/2018

ASSIGNMENT

Ref: P180181US01

Wisconsin Alumni Research Foundation

App.#: 15/901376, Filed: February 21, 2018