503414773 07/29/2015 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY D	ΑΤΑ		
		Name	Execution Date
THOMAS VOGELSANG			03/18/2011
RECEIVING PARTY DA	ATA		
Name:	Rambus	Rambus Inc.	
Street Address:	1050 Ent	1050 Enterprise Way, Suite 700	
City:	Sunnyvale		
State/Country:	CALIFOR	CALIFORNIA	
Postal Code:	94089		
Property Type Application Number:			
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ASSIGNMENT

WHEREAS, 1, THOMAS VOGELSANG, citizen of the United States of America, residing in Mountain View, California, ASSIGNOR, an the inventor of the invention in MULTI-DIE DRAM BANKS ARRANGEMENT AND WIRING, for which I have executed an application for a Patent of the United States

- which is executed on which is executed on which is executed on
- ☑ which is identified by Morgan, Lewis & Bockius LLP docket no. 60809-5232-PR
- ☑ which was filed on December 14, 2010, Provisional Application No. 61/423,043
- I hereby authorize and request my attorney, Gary S. Williams, of Morgan, Lewis & Bockius, LLP, to insert here in parentheses (Application number ________ filed ______) the filing date and application number of said application when known.

and WHEREAS, RAMBUS INC., ASSIGNEE, having a place of business at 1050 Enterprise Way, Suite 700, Sunnyvale, California, 94089, is desirous of obtaining my entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, be it be known that for and in consideration of the sum of One Dollar (\$1.00) to me paid, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, the said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under the said invention and the said United States provisional application and all United States utility applications that claim priority to said United States provisional application and all divisions, renewals, and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and lexicates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that 1 will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year set opposite my respective signature.

Date

Thomas Vogelsang LS.

California State of) SS.: County of Santa Clara

On <u>VRACE 18,2011</u>, before me, <u>V. Jercha</u>, Notary Public, personally appeared <u>Thomas Vogelsang</u>, who has 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 the she have a whole the basis of satisfactory evidence to be the person of the same in (his)her/their authorized capacity(iss), 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 scal

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RECORDED: 07/29/2015

V. JERCHA COMM. #1860235 Notary Public - California 2027 San Mateo County My Comm. Expires Aug. 6, 2013 🖡

PATENT REEL: 036212 FRAME: 0146