

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
FREDERICK A WARE	02/03/2009
ROBERT E PALMER	01/27/2009
JOHN W POULTON	01/27/2009
RECEIVING PARTY DATA	
Name:	Rambus Inc.
Street Address:	1050 Enterprise Way, Suite 700
City:	Sunnyvale
State/Country:	CALIFORNIA
Postal Code:	94089
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15253736
CORRESPONDENCE DATA	
Fax Number:	
<i>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.</i>	
Phone:	408-462-8000
Email:	annw@rambus.com
Correspondent Name:	ANN WILLIAMS
Address Line 1:	1050 ENTERPRISE WAY #700
Address Line 4:	SUNNYVALE, CALIFORNIA 94089
ATTORNEY DOCKET NUMBER:	RA633.PCT.C1C1C1C1.US
NAME OF SUBMITTER:	ANN WILLIAMS
SIGNATURE:	/ann williams/
DATE SIGNED:	10/17/2016
Total Attachments: 2	
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source=RA633_Assignment#page2.tif	

JOINT

ASSIGNMENT

WHEREAS, WE, FREDERICK A. WARE, citizen of the United States, residing in Los Altos Hills, California; ROBERT E. PALMER, citizen of United States, residing in Carrboro, North Carolina, and JOHN W. POULTON, citizen of United States, residing in Chapel Hill, North Carolina ASSIGNORS, are the inventors of the invention in MAINTENANCE OPERATIONS IN A DRAM, for which we have executed an application for a Patent of the United States

- which is executed on even date herewith
- which is identified by Morgan, Lewis & Bockius LLP docket no. 60809-5188-PR
- which was filed on January 22, 2009, Application No. 61/146,612
- I hereby authorize and request my attorney, Gary S. Williams, of Morgan, Lewis & Bockius LLP, to insert here in parenthesis (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 4440 El Camino Real, Los Altos, California 94022, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer, and set over, unto said ASSIGNEE, its successors, legal representatives, and assigns, our entire right, title, and interest in, to, and under said invention, and said United States application and all divisions, renewals, and continuations thereof, and all Patents of the United States that 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 that 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, 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 that may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals, and reissues thereof;

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

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us 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, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 2/3, 2009, [Signature] L.S.
Frederick A. Ware

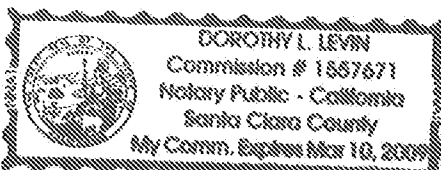
State of California)
County of Santa Clara) SS.:

On Feb. 3, 2009, before me, [Signature], Notary Public, personally appeared Frederick A. Ware, 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 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

[Signature]
Notary Public
DB2/20984270.1



Date 27 January, 2009

Robert E. Palmer
Robert E. Palmer

L.S.


State of North Carolina
County of Orange } SS.:

On Jan 27, 2009, before me, Cheryl L. Duff, Notary Public, personally appeared _____, 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 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

Cheryl L. Duff


Cheryl L. Duff
Notary Public
ORANGE COUNTY, NC
My Commission Expires
01/27/2010

Date Jan 27, 2009

John W. Poulton
John W. Poulton

L.S.


State of North Carolina
County of Orange } SS.:

On Jan 27, 2009, before me, Cheryl L. Duff, Notary Public, personally appeared _____, 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 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

Cheryl L. Duff


Cheryl L. Duff
Notary Public
ORANGE COUNTY, NC
My Commission Expires
01/27/2010