### 503078730 11/26/2014

## 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	07/07/2009
BRENT HAUKNESS	07/07/2009

### **RECEIVING PARTY DATA**

Name:	Rambus Inc.	
Street Address:	t Address: 1050 Enterprise Way, Suite 700	
City:	Sunnyvale	
State/Country:	State/Country: CALIFORNIA	
Postal Code: 94089		

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14554904

#### **CORRESPONDENCE DATA**

**Fax Number:** (408)877-3828

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:** 4086556375

Email: marc@schuylerlawgroup.com

Correspondent Name: MARC SCHUYLER
Address Line 1: PO BOX 2535

Address Line 4: SARATOGA, CALIFORNIA 95070

ATTORNEY DOCKET NUMBER:	2014073 / RA672PCTC1US
NAME OF SUBMITTER:	MARC P. SCHUYLER, REG. NO. 35675
IGNATURE: /Marc P. Schuyler/	
DATE SIGNED:	11/26/2014

### **Total Attachments: 3**

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PATENT 503078730 REEL: 034273 FRAME: 0392

# CORPORATE ASSIGNMENT

WHEREAS, the undersigned.

Frederick A. Ware Brent Haukness

13961 Fremont Pines, Los Altos Hills, CA 94022 17650 Eaton Lane, Monte Sereno, CA 95030

hereinafter termed "Inventor(s)", have invented certain new and useful improvements in

PROTOCOL FOR REFRESH BETWEEN A MEMORY CONTROLLER AND A MEMORY DEVICE

and hav	ve executed a declaration or oath for an application for a United States patent disclosing and identifying the on:
NAME OF THE OWNER, WHEN THE OW	On the, 20;
	Or
<u>X</u>	Said application having Application Number 61/171,576 and filed on 22 April 2009; and
ano inic inventic hereina	WHEREAS, RAMBUS INC. a corporation of the State of Delaware, having a place of business at 4440 Electric Press in and to said application and the invention disclosed therein, and in and to all embodiments of the on, heretofore conceived, made or discovered jointly or severally by said Inventor(s) (all collectively fter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of on (hereinafter termed "patents") thereon granted in the United States and foreign countries.
	NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor/

lged by said Inventor(s) to have been received in full from said Assignee:

- Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.
- Said Inventor(s) hereby jointly and severally covenant and agree to cooperate with said Assignee to 2. enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted

thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.

- 3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.
- 4. Said Inventor(s) hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below.

Frederick A. Ware

7-7-29

Date

DOROTHY L. LEVIN
Commission # 1835908
Notary Public - California
Santa Clara County
My Comm. Expires Mar 10, 2013

State of CAN-FORMICE

County of South CLARA

On July 7, 2009 before me, Donothy L. Lewis, No pray Roblic personally appeared Frederick A. Ware,

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.

(Signature of Notary Public)

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4	State of CACIFORNICE ) County of Sancta CLANA )
Bart-Haule	County of Sanda Classes
rent Haukness	On July 7, 2009, before me, Dono 44, C. Corrie, No try Rebe
	who proved to me on the basis of satisfactory evidence to be the
2/2/22	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
as v	signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
DOROTHY L. LEVIN	I certify under PENALTY OF PERJURY under the laws of the
Commission # 1835908 Notary Public - California	State of California that the foregoing paragraph is true and correct.
Sents Clars County My Comm. Expires Mar 10, 2013	WITNESS my hand and official seal.
	$4 \times 0^{\circ}$
	(Signature of Notary Public)
	State of
	County of
	County of )
	On, before me,, personally appeared ,
	who proved to me on the basis of satisfactory evidence to be the
Date	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 of Notary Public)

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PATENT REEL: 034273 FRAME: 0395