

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2664140

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>MARK D. KELLAM</td> <td>06/04/2009</td> </tr> <tr> <td>BRENT STEVEN HAUKNES</td> <td>04/14/2009</td> </tr> <tr> <td>GARY B. BRONNER</td> <td>04/14/2009</td> </tr> <tr> <td>KEVIN DONNELLY</td> <td>04/09/2009</td> </tr> </tbody> </table>		Name	Execution Date	MARK D. KELLAM	06/04/2009	BRENT STEVEN HAUKNES	04/14/2009	GARY B. BRONNER	04/14/2009	KEVIN DONNELLY	04/09/2009
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Rambus Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1050 Enterprise Way, Suite 700</td> </tr> <tr> <td>City:</td> <td>Sunnyvale</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94089</td> </tr> </table>		Name:	Rambus Inc.	Street Address:	1050 Enterprise Way, Suite 700	City:	Sunnyvale	State/Country:	CALIFORNIA	Postal Code:	94089
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: (408)877-3828</p> <p>Phone: 4086556375</p> <p>Email: marc@schuylerlawgroup.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: MARC SCHUYLER</p> <p>Address Line 1: PO BOX 2535</p> <p>Address Line 4: SARATOGA, CALIFORNIA 95070</p>											
NAME OF SUBMITTER:	MARC P. SCHUYLER, REG NO. 35675										
Signature:	/Marc P. Schuyler/										
Date:	01/01/2014										

Total Attachments: 5

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## ASSIGNMENT OF US PATENT APPLICATION AND RELATED APPLICATIONS

We, Mark D. Kellam, Brent Steven Haukness, Gary B. Bronner and Kevin Donnelly (hereafter, "Assignors") hereby assign to Rambus, Inc., a Delaware Corporation having an address at 4440 El Camino Real, Los Altos, CA 94022, USA (hereafter, "Assignee"), the entire right, title and interest, including to right of priority, in, to and under an application for Letters Patent of the United States entitled "Pulse Control For NonVolatile Memory," having a first named inventor of Mark D. Kellam and filed on or about 24 March 2009 as provisional application no. 61/163,001, and the invention(s) and improvement(s) set forth therein, and any and all utility conversions, continuations, continuations in part (CIPs), divisionals, and renewals of and substitutes for said application and/or patent, all utility or other filings which depend for priority from said provisional application whether in the United States or elsewhere (including any Patent Cooperation Treaty application), and any and all Letters Patent of the United States and of countries or organizations foreign thereto which may be granted thereon or therefore; and any reissues, reexaminations or extensions of said Letters Patent and/or applications.

We additionally authorize said Assignee to file applications for the aforesaid in any country or organization, to be held and enjoyed by said Assignee or its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had any assignment and transfer not been made; We authorize said Assignee to secure all rights to said applications in its name to the extent that such applications are currently pending or have already issued as Letters Patent. We also hereby convey any and all right for past damages or other right of action or remedy for infringement of any of the aforesaid to said Assignee.

We hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith. We further covenant and agree that we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title in any of the aforesaid applications and/or Letters Patent to said Assignee, its successors, assigns, nominees or legal representatives, and we agree to communicate to said Assignee, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent and/or applications, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers, to make all rightful oaths and declarations, and generally to do everything possible to aid said Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce, for their own benefit, proper patent protection for said invention(s) or improvement(s), provided the reasonable expenses we incur in lending such cooperation and assistance are paid by said Assignee.

We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries or organization foreign to the United States whose duty it is to issue patents on applications aforesaid, or to examine or otherwise process the same, to issue to said Assignee any and all Letters Patent, including any and all Letters Patent of the United States or any country foreign to the United States, which may be issued and granted on or as result of the applications aforesaid, in accordance with the terms of this assignment, and to otherwise conduct business regarding the aforesaid Letters Patents and/or applications with said Assignee.

IN WITNESS WHEREOF, we hereunto each respectively set our hand and seal:



First inventor's signature (seal)

First inventor's printed name: Mark D. Kellam

Date signed: 06/09/09

North Carolina  
Orange County

I, Cheryl Duff, a Notary Public for Orange County, North Carolina, do hereby certify that Mark D. Kellam personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

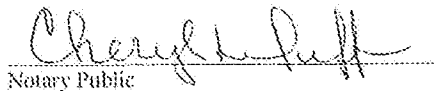
Witnessed my hand and official seal, this 4 day of <sup>June</sup>~~April~~, 2009.



Cheryl L. Duff  
Notary Public  
Orange County, NC

My Commission Expires

01/27/2010



Notary Public

My Commission expires

01/27/ 2010

Brent Haukness

Date signed: 4/14/09

Second Inventor's signature (seal)

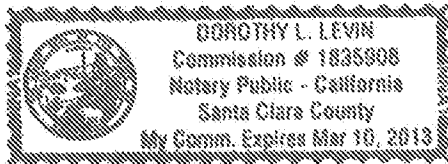
Second Inventor's printed name: Brent Steven Haukness

State of California  
County of Santa Clara

On 4-14-09 before me, Dorothy L. Levin, Notary Public (California, Santa Clara County) personally appeared Brent Steven Haukness, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within written instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument, the person 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: [Signature]  
Notary Public

Gary B Bronner

Third Inventor's signature (seal)

Third Inventor's printed name: Gary B. Bronner

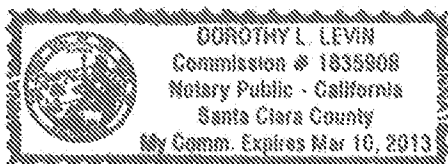
Date signed: April 14, 2009

State of California  
County of Santa Clara

On 4-14-09 before me, Dorothy L. Levin, Notary Public (California, Santa Clara County) personally appeared Gary B. Bronner, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within written instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument, the person 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: Dorothy L. Levin  
Notary Public

Kevin Donnelly

Date signed: April 9, 2009

Fourth Inventor's signature (seal)

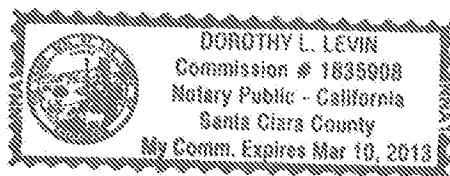
Fourth Inventor's printed name: Kevin Donnelly

State of California  
County of Santa Clara

On 4-9-09 before me, Dorothy L. Levin, Notary Public (California, Santa Clara County) personally appeared Kevin Donnelly, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within written instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument, the person 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: [Signature]  
Notary Public