

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3488320

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
VLADIMIR M. STOJANOVIC	03/17/2004
MARK A. HOROWITZ	03/12/2004
JARED L. ZERBE	03/17/2004
ANTHONY BESSIOS	02/26/2004
ANDREW C.C. HO	03/04/2004
JASON C. WEI	03/04/2004
GRACE TSANG	03/09/2004
BRUNO W. GARLEPP	03/04/2004
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Rambus Inc.
<b>Street Address:</b>	1050 Enterprise Way, Suite 700
<b>City:</b>	Sunnyvale
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94089
<b>PROPERTY NUMBERS Total: 7</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	7715501
<b>Patent Number:</b>	7715509
<b>Patent Number:</b>	7706480
<b>Patent Number:</b>	8170163
<b>Patent Number:</b>	9025678
<b>Patent Number:</b>	8428196
<b>Application Number:</b>	14683081
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Phone:</b>	408-462-8000
<b>Email:</b>	twain@rambus.com

**Correspondent Name:** TARISA WAIN  
**Address Line 1:** 1050 ENTERPRISE WAY #700  
**Address Line 4:** SUNNYVALE, CALIFORNIA 94089

**ATTORNEY DOCKET NUMBER:** RA296.C1C1C1C2.US +6

**NAME OF SUBMITTER:** TARISA WAIN

**SIGNATURE:** /Tarisa Wain/

**DATE SIGNED:** 08/18/2015

**Total Attachments: 11**

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**ASSIGNMENT**

WHEREAS, the undersigned, to wit:

- (1) Vladimir M. Stojanovic;
- (2) Mark A. Horowitz;
- (3) Jared L. Zerbe;
- (4) Anthony Bessios;
- (5) Andrew C.C. Ho;
- (6) Jason C. Wei;
- (7) Grace Tsang; and
- (8) Bruno W. Garlepp

(hereinafter collectively ASSIGNOR), has/have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

**"PARTIAL RESPONSE RECEIVER"**

- (X only one) (a) \_\_\_ which was executed concurrently herewith and is being filed herewith in the United States Patent and Trademark Office;
- (b) \_\_\_ which was executed on \_\_\_\_\_, 20\_\_\_, and is being filed herewith in the United States Patent and Trademark Office;
- (c) X which was filed as U.S. Patent Application No. 10/662,872 on September 16, 2003;

AND WHEREAS, Rambus Inc. (hereinafter ASSIGNEE), a corporation organized and existing under the laws of the State of Delaware, and having its principal place of business at 4440 El Camino Road, Los Altos, CA 94022, is desirous of acquiring the entire right, title, and interest in and to said invention and any and all patents that may be obtained therefor, and in and to said application and any and all patents that may issue therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer, and set over unto said ASSIGNEE, its successors, assigns, and legal representatives, all right, title, and interest in and to said invention throughout the world, and any and all patents of the

United States and foreign countries that may be obtained therefor, and in and to said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom, such right, title, and interest including the right to file applications and obtain patents, utility models, industrial models, and designs for said invention in the name of said ASSIGNEE, its successors, assigns, and legal representatives, throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries;

ASSIGNOR also does hereby covenant that it has the full right to convey the entire right, title, and interest herein assigned, and that it has not and will not execute any agreement in conflict herewith;

ASSIGNOR also does hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application, including any continuations, continuations-in-part, divisions, reissues, re-examinations, substitutions, and extensions thereof, to said ASSIGNEE, its successors, assigns, and legal representatives as the ASSIGNEE of the entire right, title, and interest herein assigned;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to perfect the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives, and generally do everything possible to vest the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to make application for and obtain any and all

continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, or extensions of said application, or any application on said invention, or any patent issuing therefor or therefrom;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, communicate to said ASSIGNEE, its successors, assigns, and legal representatives, any known facts relating to said invention or said application or any patent issuing therefor or therefrom, and testify as to the same in any interference or other litigation proceeding when requested to do so, and aid said ASSIGNEE, its successors, assigns, and legal representatives, in obtaining and enforcing proper protection for said invention in all countries;

ASSIGNOR also does hereby grant the firm of Hunton & Williams LLP of 1900 K Street, N.W., Washington, D.C., 20006-1109, or its agents, the power to insert on this assignment any further information, including but not limited to application number(s) and filing date(s), which may be necessary or desirable in order to comply with any rule or request of the United States Patent and Trademark office for the purposes of recording this document.

ASSIGNOR also does now hereby execute this document on the date(s) indicated below:

(1) IN WITNESS WHEREOF, I have hereunto set my hand and seal  
this 17 day of MARCH, 2004.

Sign: *Vladimir M. Stojanovic*  
Print Name: Vladimir M. Stojanovic  
Print Address: 73 Barnes Court, Apt. B  
Stanford, CA 94305

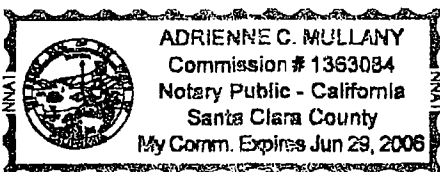
COMMONWEALTH/STATE OF California

COUNTY OF Santa Clara

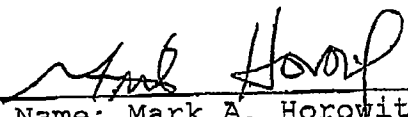
Before me, a Notary Public in and for the  
Commonwealth/State of California, did personally appear the  
above-named Vladimir M. Stojanovic, personally known to me  
and/or proved to me on the basis of satisfactory evidence to be  
the person who signed and sealed the foregoing instrument and  
acknowledged the same to be his or her own free act and deed,  
this 17<sup>th</sup> day of March, 2004.

Sign: *Adrienne C. Mullany*  
Notary Public

My Commission Expires: June 29, 2006



(2) IN WITNESS WHEREOF, I have hereunto set my hand and seal  
this 12 day of March, 2004.

Sign:   
Print Name: Mark A. Horowitz  
Print Address: 13961 Fremont Pines Lane  
Menlo Park, CA 94025

COMMONWEALTH/STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

Before me, a Notary Public in and for the  
Commonwealth/State of \_\_\_\_\_, did personally appear the  
above-named Mark A. Horowitz, personally known to me and/or  
proved to me on the basis of satisfactory evidence to be the  
person who signed and sealed the foregoing instrument and  
acknowledged the same to be his or her own free act and deed,  
this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

Sign: \_\_\_\_\_  
Notary Public  
My Commission Expires: \_\_\_\_\_

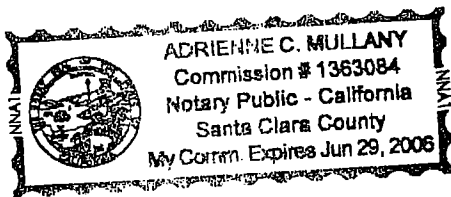
(3) IN WITNESS WHEREOF, I have hereunto set my hand and seal  
this 17<sup>th</sup> day of March, 2004.

Sign: Jared L. Zerbe  
Print Name: Jared L. Zerbe  
Print Address: 431 Hillside Drive  
Woodside, CA 94062

COMMONWEALTH/STATE OF California

COUNTY OF Santa Clara

Before me, a Notary Public in and for the  
Commonwealth/State of California, did personally appear the  
above-named Jared L. Zerbe, personally known to me and/or proved  
to me on the basis of satisfactory evidence to be the person who  
signed and sealed the foregoing instrument and acknowledged the  
same to be his or her own free act and deed, this 17<sup>th</sup> day of  
March, 2004.



Sign: Adrienne C. Mullany  
Notary Public

My Commission Expires: June 29, 2006



(4) IN WITNESS WHEREOF, I have hereunto set my hand and seal  
this 26<sup>th</sup> day of February, 2004.

Sign: Anthony Bessios  
Print Name: Anthony Bessios  
Print Address: 39469 Gallaudet Drive, Apt. 316  
Fremont, CA 94538

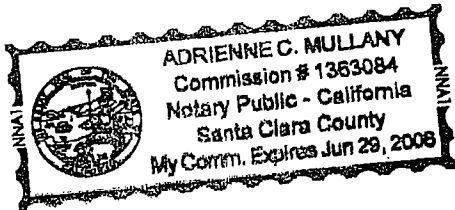
COMMONWEALTH/STATE OF California

COUNTY OF Santa Clara


Before me, a Notary Public in and for the  
Commonwealth/State of California, did personally appear the  
above-named Anthony Bessios, personally known to me and/or  
proved to me on the basis of satisfactory evidence to be the  
person who signed and sealed the foregoing instrument and  
acknowledged the same to be his or her own free act and deed,  
this 26<sup>th</sup> day of February, 2004.

Sign: Adrienne C. Mullany  
Notary Public

My Commission Expires: June 29, 2006



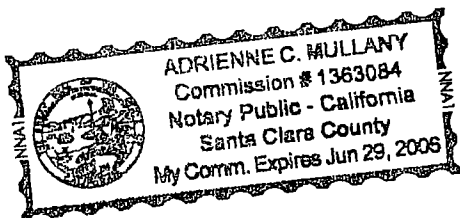
(5) IN WITNESS WHEREOF, I have hereunto set my hand and seal  
this 4<sup>th</sup> day of March, 2004.

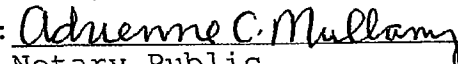
Sign:   
Print Name: Andrew C.C. Ho  
Print Address: 3725 Ortega Court  
Palo Alto, CA 94303

COMMONWEALTH/STATE OF California

COUNTY OF Santa Clara

Before me, a Notary Public in and for the  
Commonwealth/State of California, did personally appear the  
above-named Andrew C.C. Ho, personally known to me and/or proved  
to me on the basis of satisfactory evidence to be the person who  
signed and sealed the foregoing instrument and acknowledged the  
same to be his or her own free act and deed, this 4<sup>th</sup> day of  
March, 2004.



Sign:   
Notary Public

My Commission Expires: June 29, 2006

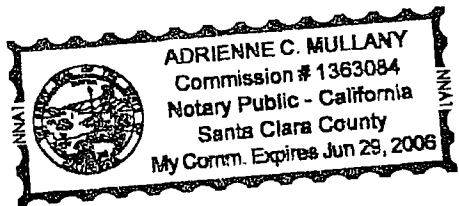
(6) IN WITNESS WHEREOF, I have hereunto set my hand and seal  
this 4 day of March, 2004.

Sign: Jason C. Wei  
Print Name: Jason C. Wei  
Print Address: 18830 Newsom Avenue  
Cupertino, CA 95014

COMMONWEALTH/STATE OF California

COUNTY OF Santa Clara

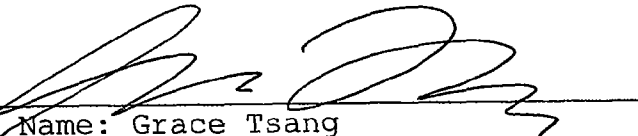
Before me, a Notary Public in and for the  
Commonwealth/State of California, did personally appear the  
above-named Jason C. Wei, personally known to me and/or proved  
to me on the basis of satisfactory evidence to be the person who  
signed and sealed the foregoing instrument and acknowledged the  
same to be his or her own free act and deed, this 4<sup>th</sup> day of  
March, 2004.



Sign: Adrienne C. Mullany  
Notary Public

My Commission Expires: June 29, 2006

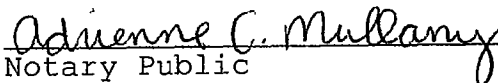
(7) IN WITNESS WHEREOF, I have hereunto set my hand and seal  
this 9 day of March, 2004.

Sign:   
Print Name: Grace Tsang  
Print Address: 11935 Rhus Ridge Road  
Los Altos Hills, CA 94022

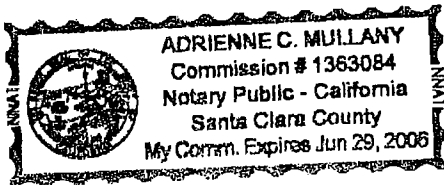
COMMONWEALTH/STATE OF California

COUNTY OF Santa Clara

Before me, a Notary Public in and for the  
Commonwealth/State of California, did personally appear the  
above-named Grace Tsang, personally known to me and/or proved to  
me on the basis of satisfactory evidence to be the person who  
signed and sealed the foregoing instrument and acknowledged the  
same to be his or her own free act and deed, this 9<sup>th</sup> day of  
March, 2004.

Sign:   
Notary Public

My Commission Expires: June 29, 2006



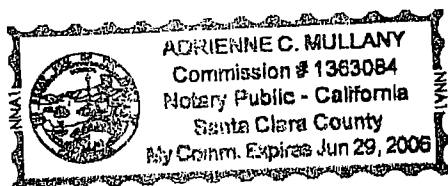
(8) IN WITNESS WHEREOF, I have hereunto set my hand and seal  
this 4<sup>th</sup> day of March, 2004.

Sign: Bruno W. Garlepp  
Print Name: Bruno W. Garlepp  
Print Address: 5193 Rhonda Drive  
San Jose, CA 95129

COMMONWEALTH/STATE OF California

COUNTY OF Santa Clara

Before me, a Notary Public in and for the  
Commonwealth/State of California, did personally appear the  
above-named Bruno W. Garlepp, personally known to me and/or  
proved to me on the basis of satisfactory evidence to be the  
person who signed and sealed the foregoing instrument and  
acknowledged the same to be his or her own free act and deed,  
this 4<sup>th</sup> day of March, 2004.



Sign: Adrienne C. Mullany  
Notary Public

My Commission Expires: June 29, 2006