08-31-20	ATTORNEY DOCKET NO.: 57941,000013 CLIENT REFERENCE NO. RA264.P.US	
MR 5 8 May 22		
To the Hourable Compassioner of Pate 1028262		
1. Name of Conveying Party(ies):		
<ol> <li>Jared LeVan Zerbe</li> <li>Grace Tsang</li> <li>Mark Horowitz</li> <li>Bruno Werner Garlepp</li> <li>Carl William Werner</li> </ol>	8-26-09	
Additional name(s) of conveying party(ies)	attached?	
2. Name and Address of Party(ies) receiving an interest (assign Name: Rambus Inc.  Address: 4440 El Camino Real  Los Altos, CA 94022  Country: USA  Additional name(s) and address(es) atta		
3. Nature of Conveyance:  Assignment Merger Verified Translation Security Agreement	Non-recordation of Document	
Execution Date: <u>January 19, 2004, January 8, 2004, August 20, 2004, January 8, 2004, and January 7, 2004</u>		
<ul> <li>Application number(s) or patent number(s):         If this document is being filed together with a new application         A. Patent Application No(s).:         10/673,677         Others on additional sheet(s) attach     </li> </ul>	B. Patent No(s).:	
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:  Application(s):  1  Patent(s):	
Thomas E. Anderson, Esq. Intellectual Property Department Hunton & Williams, LLP 1900 K Street, N.W. Suite 1200 Washington, DC 20006-1109	= Total: 1  7. Total Fee (37 C.F.R. § 3.41) \$ 40.00 (Previously paid   Enclosed   Authorized to be charged to Deposit Account	
(202) 955-1500 (telephone) (202) 778-2201 (facsimile)	8. Deposit Account No.:	
DO NOT USE THIS SPACE		
9. Statement and Signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Thomas E, Anderson, Reg. No. 37,063  August 26, 2004		
Name of Person Signing S	ignature Date	
Total number of pages including cover sheet, attachments, and document:  10		

## ASSIGNMENT

WHEREAS, the undersigned, to wit:

- (1) Jared LeVan Zerbe;
- (2) Grace Tsang;
- (3) Mark A. Horowitz;
- (4) Bruno Werner Garlepp; and
- (5) Carl William Werner

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

## "TECHNIQUE FOR RECEIVING DIFFERENTIAL MULTI-PAM SIGNALS"

(X only one) (a)	(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) <u>X</u>	which was filed as U.S. Patent
		Application No. 10/673,677 on September
		30, 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 Real, 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-

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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, reexaminations, substitutions, or extensions of said application, or any application on said invention, or any patent issuing therefor or therefrom;

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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:

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(1) IN WITNESS WHEREOF, I have hereunto set my hand and seal this 19 day of January, 200 14

Sign:

Print Name:

Jared LeVan Zerbe

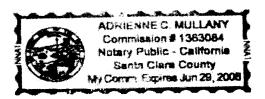
Print Address: 431 Hillside Drive

Woodside, CA 94062

COMMONWEALTH/STATE OF Gal.fornia

COUNTY OF Santa Clara

Before me, a Notary Public in and for the Commonwealth/State of <u>California</u>, did personally appear the above-named <u>Jared LeVan Zerbe</u>, personally known to me <u>and/or proved to me on the basis of satisfactory evidence</u> 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 <u>Igth</u> day of <u>January</u>, 20<u>04</u>.



Sign: advenne C. Mullany

Notary Public

My Commission Expires: June 29, 2006

(2) IN WITNESS WHEREOF, I have hereunto set my hand and seal this 8 day of January

Sign:

Print Name:

Grace Tsang

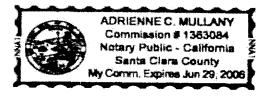
Print Address: 1165 Laureles Drive 11935 Rhus Ridge Rd.

Los Altos, CA 94022

COMMONWEALTH/STATE OF California

COUNTY OF Santa Clara

Before Public me, a Notary in and 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 8th day of , 2004.



Sign: advenne

My Commission Expires:

Patent Application Attorney Docket No.: 57941.000013

Client Reference No.: RA264

(3) IN WITNESS WHEREOF	, I have hereunto set my hand and seal
	Sign: Hooz Print Name: Mark A. Horowitz Print Address: 1309 San Mateo Drive Menlo Park, CA 94025
COMMONISTATE OF	
COMMONWEALTH/STATE OF COUNTY OF	
Before me, a Commonwealth/State of _ above-named <u>Mark A. H</u>	Notary Public in and for the, did personally appear the, did personally appear the, bersonally known to me and/or
proved to me on the ba person who signed and	asis of satisfactory evidence to be the sealed the foregoing instrument and to be his or her own free act and deed,
this day of	
	Sign:
	Notary Public
	My Commission Expires:

James Warner Gorly

(4) IN WITNESS WHEREOF, I have hereunto set my hand and seal this 8th day of January, 2004.

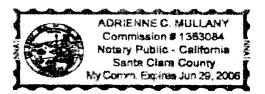
Print Address: 5193 Rhonda Drive

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 Werner 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 acknowledged the same to be his or her own free act and deed, this 8th day of January, 2004.



Sign: advienne C. Mullany

Notary Public

My Commission Expires: June 29, 2006

Patent Application Attorney Docket No.: 57941.000013

Client Reference No.: RA264

(5) IN WITNESS WHEREOF, I have hereunto set my hand and seal this 7 day of January, 2003.

Sign: Cle W

Print Name: Carl William Werner Print Address: 124 Briarwood Way

Los Gatos, CA 95032

COMMONWEALTH/STATE OF California

COUNTY OF Sourta Clara

Before me, a Notary Public in and for the Commonwealth/State of California, did personally appear the above-named Carl William Werner, 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 Tth day of Danuary, 2004



Sign: adverne C. Mullany
Notary Public

My Commission Expires: June 29, 2006

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RECORDED: 01/23/2004

PATENT REEL: 015726 FRAME: 0597