

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4100293

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JARED LEVAN ZERBE	12/02/1999
KEVIN S DONNELLY	12/08/1999
STEFANOS SIDIROPOULOS	12/13/1999
DONALD C STARK	12/10/1999
MARK A HOROWITZ	12/10/1999
LEUNG YU	12/02/1999
ROXANNE VU	12/06/1999
BRUNO W GARLEPP	12/03/1999
JUN KIM	12/02/1999
TSYR-CHYANG HO	12/08/1999
BENEDICT CHUNG-KWONG LAU	12/02/1999

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:	15222987

CORRESPONDENCE DATA**Fax Number:**

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: 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:	RA145...B75
NAME OF SUBMITTER:	ANN WILLIAMS
SIGNATURE:	/ann williams/
DATE SIGNED:	10/17/2016
Total Attachments: 6 source=RA145_Assignment#page1.tif source=RA145_Assignment#page2.tif source=RA145_Assignment#page3.tif source=RA145_Assignment#page4.tif source=RA145_Assignment#page5.tif source=RA145_Assignment#page6.tif	

**Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)**

Docket No.
RA-145

This is an Assignment of the following rights, title and interest: (check all that apply):

- United States of America rights, title and interest in the invention*
- Foreign rights, title and interest in the invention*
- United States Patent Application Serial No.* 09/421,073
Date of Execution: _____ *Date of Filing:* October 19, 1999
- United States Provisional Patent Application Serial No.* _____
- United States Patent No(s).* _____
- International (PCT) Patent Application Serial No.* _____
- Other (specify)* _____

Title of the Invention

BUS SYSTEM OPTIMIZATION

Inventors (assignors)

<i>Name</i>	<i>Address</i>
Jared LeVan Zerbe	431 Hilldale Drive, Woodside, California 94062
Kevin S. Donnelly	585 Giralda Drive, Los Altos, California 94024
Stefanos Sidiropoulos	731 Ellsworth Street, Palo Alto, California 94306
Donald C. Stark	23375 Camino Hermoso, Los Altos Hills, California 94024
Mark A. Horowitz	1309 San Mateo Drive, Menlo Park, California 94025
Leung Yu	2220 Homestead Court, Apt#303, Los Altos, California 94024
Roxanne Vu	5816 Southview Drive, San Jose, California 95138
Jun Kim	6 Knot Lane, Redwood City, California 94065
Bruno W. Garlepp	202 Ferndale Avenue, Sunnyvale, California 95086
Tsyr-Chyang Ho	1412 Stanton Way, San Jose, California 95131
Benedict Chung-Kwong Lau	630 Celebration Court, San Jose, California 95134

Assignee

<i>Name</i>	<i>Address</i>
RAMBUS INC	2465 Latham Street Mountain View, California 94040

**Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)**

Docket No.
RA-145

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignee;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)

<i>Name</i>	<i>Signature/Date</i>
Jared LeVan Zerbe	
Kevin S. Donnelly	
Stefanos Sidiropoulos	
Donald C. Stark	
Mark A. Horowitz	
Leung Yu	
Roxanne Vu	
Jun Kim	
Bruno W. Garlepp	
Tsyr-Chyang Ho	
Benedict Chung-Kwong Lau	

Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)

Docket No.
RA-145

Notarization

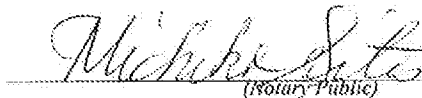
(Although notarization is not necessary, it will be considered prima facie evidence of execution pursuant to 35 U.S.C. 261.)

Executed this 1st second day of December, in the year 1999
at Mountain View, CA.

State of California
County of Santa Clara

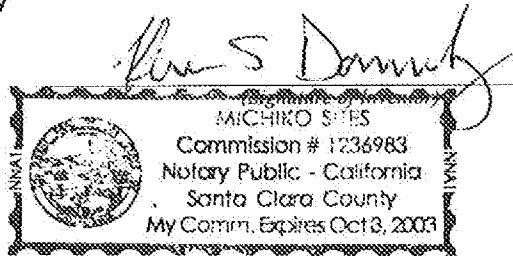


Before me personally appeared Jared LeVan Zerbe
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 2nd day of December, in the year 1999

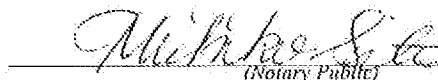

(Notary Public)

Executed this 8th day of December, in the year 1999
at Mountain View CA

State of CALIFORNIA
County of SANTA CLARA

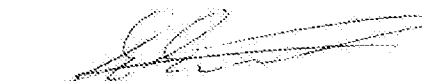


Before me personally appeared Kevin S. Donnelly
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 8th day of December, in the year 1999


(Notary Public)

Executed this 13th day of December, in the year 1999
at Mountain View CA

State of California
County of Santa Clara



Before me personally appeared Stefanos Sidiropoulos
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 13th day of December, in the year 1999


(Notary Public)

Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)

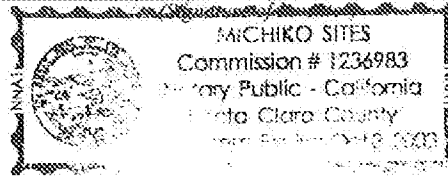
Docket No.
RA-145

Notarization

(Although notarization is not necessary, it will be considered prima facie evidence of execution pursuant to 35 U.S.C. 261.)

Executed this 10th day of December, in the year 1999
at Mountain View, CA.

State of California
County of Santa Clara



Before me personally appeared Donald C. Stark
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 10th day of December in the year 1999.

Michiko Sites
(Notary Public)

Executed this 10th day of December, in the year 1999
at Mountain View, CA

State of California
County of Santa Clara



Before me personally appeared Mark A. Horowitz
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 10th day of December in the year 1999.

Michiko Sites
(Notary Public)

Executed this 2nd day of 12, in the year 1999
at Mountain View, CA

State of California
County of Santa Clara

Leung Yu
(Signature)



Before me personally appeared Leung Yu
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 2nd day of December in the year 1999.

Michiko Sites
(Notary Public)

Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)

Docket No.
RA-145

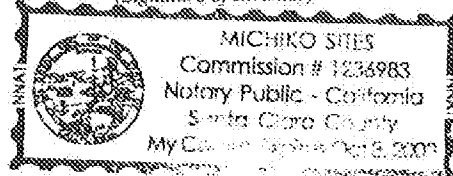
Notarization

(Although notarization is not necessary, it will be considered prima facie evidence of execution pursuant to 35 U.S.C. 261.)

Executed this 2nd day of December, in the year 1999
at Mountain View, CA

State of California
County of Santa Clara

Roxanne Vu
(Signature of Inventor)



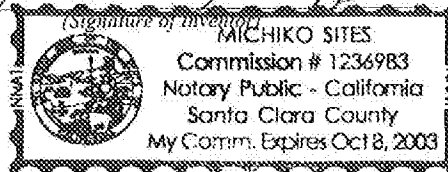
Before me personally appeared Roxanne Vu
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 6th day of December in the year 1999.

Michiko Sites
(Notary Public)

Executed this 3rd day of December, in the year 1999
at Mountain View, CA

State of California
County of Santa Clara

Bruno W. Garlepp
(Signature of Inventor)



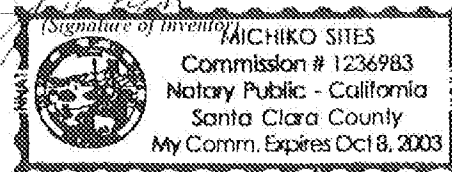
Before me personally appeared Bruno W. Garlepp
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 3rd day of December in the year 1999.

Michiko Sites
(Notary Public)

Executed this 2 day of 12, in the year 1999
at Mountain View, CA.

State of California
County of Santa Clara

Jun Kim
(Signature of Inventor)



Before me personally appeared Jun Kim
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 2nd day of December in the year 1999.

Michiko Sites
(Notary Public)

Assignment of Rights, Title and Interest in Invention
(Multiple inventors; single assignee)

Docket No.
RA-145

Notarization

(Although notarization is not necessary, it will be considered prima facie evidence of execution pursuant to 35 U.S.C. 261.)

Executed this 8 day of December, in the year 1999
at Mountain View, CA

State of California
County of Santa Clara

Tsyr-Chyang Ho



Before me personally appeared Tsyr-Chyang Ho
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 8th day of December in the year 1999.

Michiko Sites
(Notary Public)

Executed this 2 day of December, in the year 1999
at Mountain View, CA.

State of California
County of Santa Clara

Benedict Chung-Kwong Lau



Before me personally appeared Benedict Chung-Kwong Lau
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this 2nd day of December in the year 1999.

Michiko Sites
(Notary Public)

Executed this _____ day of _____, in the year _____
at _____

State of _____
County of _____

(Signature of Inventor)

Before me personally appeared _____
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to
execute the same this _____ day of _____ in the year _____

(Notary Public)