

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Bruno W. Garlepp	02/15/2001
Richard M. Barth	02/21/2001
Kevin S. Donnelly	03/07/2001
Craig E. Hampel	02/13/2001
James A. Gasbarro	02/13/2001
Jeffrey D. Mitchell	02/22/2001
Billy W. Garrett Jr.	02/19/2001
Frederick A. Ware	02/13/2001
Donald V. Perino	02/15/2001
Ely K. Tsern	02/16/2001

RECEIVING PARTY DATA

Name:	Rambus, Inc.
Street Address:	4440 El Camino Real
City:	Los Altos
State/Country:	CALIFORNIA
Postal Code:	94022

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	09706238

CORRESPONDENCE DATA

Fax Number: (650)843-4001

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 650-843-4000

Email: bgemello@morganlewis.com

Correspondent Name: Gary S. Williams

Address Line 1: 3000 El Camino Real, Suite 700

PATENT

500007620

REEL: 015162 FRAME: 0468

CH \$40.00 09706238

Address Line 2:	2 Palo Alto Square
Address Line 4:	Palo Alto, CALIFORNIA 94306

NAME OF SUBMITTER:	Gary S. Williams
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Total Attachments: 8

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ASSIGNMENT

JOINT

WHEREAS, WE, (1) **Bruno W. Garlepp**, a resident of Austin, Texas, a citizen of the United States; (2) **Richard M. Barth**, a resident of Ashland, Oregon, a citizen of the United States; (3) **Kevin S. Donnelly**, a resident of Los Altos, California, a citizen of the United States; (4) **Ely K. Tsern**, a resident of Los Altos, California, a citizen of the United States; (5) **Craig E. Hampel**, a resident of San Jose, California, a citizen of the United States; (6) **Jeffrey D. Mitchell**, a resident of Santa Clara, California, a citizen of the United States; and (7) **James A. Gasbarro**, a resident of Fox Chapel, Pennsylvania, a citizen of the United States; (8) **Billy W. Garrett, Jr.**, a resident of Mountain View, California, a citizen of the United States; (9) **Fredrick A. Ware**, a resident of Los Altos Hills, California, a citizen of the United States; and (10) **Donald V. Perino**, a resident of North Potomac, Maryland, a citizen of the United States; (hereinafter "ASSIGNORS"), have invented certain new and useful improvements in **AN EXPANDABLE SLAVE DEVICE SYSTEM** for which invention we have executed an application for Letters Patent of the United States and which application may be identified in the United States Patent and Trademark Office as **Serial No. 09/706,238**, filed **November 2, 2000**, which is identified by Pennie & Edmonds LLP docket no. 9808-0007-999; and

WHEREAS, **RAMBUS, INC.**, a Delaware Corporation located at 4440 El Camino Real, Los Altos, CA 94022, (hereinafter "ASSIGNEE") is desirous of obtaining our entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries. to and under the said invention and the said application:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said application for U.S. Letters Patent, and any and all divisions, continuations and renewals thereof, and any and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

The terms, covenants and conditions of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding on said Inventors, their heirs, legal representatives and assigns.

IN TESTIMONY WHEREOF, said Inventors have executed and delivered this instrument to said Assignee the day and year below written.

1. Date: Feb. 15, 2001

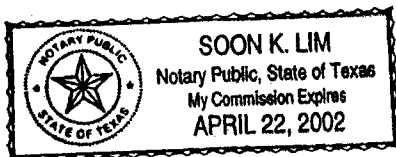
Bruno W. Garlepp
BRUNO W. GARLEPP

State of ~~California~~ Texas)
County of TRAVIS) SS.:

On FEB 15 2001 before me, SOON K. LIM, personally appeared BRUNO W. GARLEPP, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL



SOON K. LIM
(Typed name of Notary)
Soon K. Lim

2. Date: _____

RICHARD M. BARTH

State of California)
County of _____) SS.:

On _____ before me, _____, personally appeared RICHARD M. BARTH personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

The terms, covenants and conditions of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding on said Inventors, their heirs, legal representatives and assigns.

IN TESTIMONY WHEREOF, said Inventors have executed and delivered this instrument to said Assignee the day and year below written.

1. Date: _____

BRUNO W. GARLEPP

State of California)
County of _____) SS.:

On _____ before me, _____, personally appeared BRUNO W. GARLEPP, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

2. Date: 2-21-01

Richard M. Barth
RICHARD M. BARTH

State of Oregon)
~~California~~) SS.:

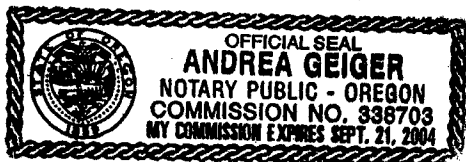
County of Jackson

On 2-21-01 before me, Andrea Geiger, personally appeared RICHARD M. BARTH personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL

Andrea Geiger
(Typed name of Notary)
ANDREA GEIGER



3.

Date:

3/7/01

KEVIN S. DONNELLY

State of California

County of Santa Clara

SS.:

On March 7, 2001 before me, Michiko Sites, personally appeared KEVIN S. DONNELLY personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL



Michiko Sites
(Typed name of Notary) Michiko Sites

4.

Date:

2/16/01

ELY K. TSERN

State of California

County of Santa Clara

SS.:

On Feb. 16, 2001 before me, Michiko Sites, personally appeared ELY K. TSERN personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL



Michiko Sites
(Typed name of Notary) Michiko Sites

5.

Date:

02/13/01

CRAIG E. HAMPEL

State of California

County of Santa Clara

SS.:

On Feb. 13, 2001 before me, Michiko Sites, personally appeared CRAIG E. HAMPEL personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL



Michiko Sites
(Typed name of Notary) Michiko Sites

6. Date: _____

JEFFREY D. MITCHELL

State of California)
County of _____) SS.:

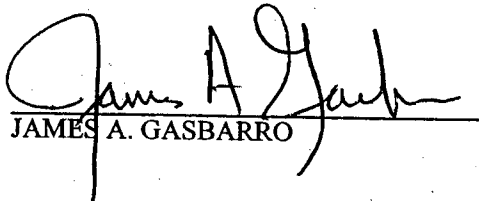
On _____ before me, _____, personally appeared JEFFREY D. MITCHELL personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

7. Date: 2/13/01


JAMES A. GASBARRO

State of California)
County of _____) SS.:

On _____ before me, _____, personally appeared JAMES A. GASBARRO personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

8. Date: _____

BILLY W. GARRETT, JR.

State of California)
County of _____) SS.:

On _____ before me, _____, personally appeared BILLY W. GARRETT, JR. personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

6. Date: 02/22/01

Jeffrey D. Mitchell
JEFFREY D. MITCHELL

State of California

County of Santa Clara } SS.:

On Feb. 22, 2001 before me, Michiko Sites personally appeared JEFFREY D. MITCHELL personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL



Michiko Sites
(Typed name of Notary) Michiko Sites

7. Date: _____

JAMES A. GASBARRO

State of California

County of _____ } SS.:

On _____ before me, _____, personally appeared JAMES A. GASBARRO personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

8. Date: 02/19/2001

Billy W. Garrett Jr.
BILLY W. GARRETT, JR.

State of California

County of Santa Clara } SS.:

On 19th Feb. 2001 before me, Michiko Sites personally appeared BILLY W. GARRETT, JR. personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL



Michiko Sites
(Typed name of Notary) Michiko Sites

9.

Date:

2/13/01

FREDRICK A. WARE

State of California

County of Santa Clara

SS.:

On Feb. 13, 2001 before me, Michiko Sites, personally appeared FREDRICK A. WARE personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL



Michiko Sites
(Typed name of Notary) Michiko Sites

10.

Date:

DONALD V. PERINO

State of California

County of _____

SS.:

On _____ before me, _____, personally appeared DONALD V. PERINO personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

9. Date: _____

FREDRICK A. WARE

State of California)

County of _____)

SS.:

On _____ before me, _____, personally appeared FREDRICK A. WARE personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL

(Typed name of Notary)

10. Date: 2/15/01

Donald V. Perino
DONALD V. PERINO

State of ~~California~~ ^{Maryland})

County of Montgomery)

SS.:

On Feb. 15 2001 before me, Judy Johnson, personally appeared DONALD V. PERINO personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY SEAL

Judy Johnson
(Typed name of Notary)

Judy Johnson