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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.

650-843-4000 Phone:

bgemello@morganlewis.com Email:

Correspondent Name: Gary S. Williams

3000 El Camino Real, Suite 700 Address Line 1:

> **PATENT REEL: 015162 FRAME: 0468**

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

NAME OF SUBMITTER: Gary S. Williams

Total Attachments: 8
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PATENT REEL: 015162 FRAME: 0469

ASSIGNMENT

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.

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AND WE HEREBY function 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 ex	secuted and delivered thi	s instrument to said Assignee the
day and year below written.			1 1 1
1. Date: Feb. 15, 200	<u>1</u>	BRUNO W. GARL	Harry
State of California Texas)		
County of TRAU 15) SS.:)		
On Feb 15 200 before me, known to me (or proved to me on the be within instrument and acknowledged to his/her signature on the instrument the	pasis of satisfactory even me that he/she exec	idence) to be the person uted the same in his/her	whose name is subscribed to the authorized capacity, and that by
instrument. WITNESS my hand and official seal.			
NOTARY SEAL		<u>500N</u>	K. LH otary) K ·
	∞	(Type) name of No	otary)
SOON K. LIM Notary Public, State of Text My Commission Expires APRIL 22, 2002	16	poor	
	•		
2. Date:			
z. <u>Date.</u>	-	RICHARD M. BAR	TH
State of California)		
·	ý SS.:		
County of) .	•	
On before me, _		personally appeared R	ICHARD M. BARTH personally
known to me (or proved to me on the bwithin instrument and acknowledged this/her signature on the instrument thinstrument. WITNESS my hand and official seal.	oasis of satisfactory ev o me that he/she exec	idence) to be the person uted the same in his/her	whose name is subscribed to the authorized capacity, and that by
NOTARY SEAL		(Typed name of No	otary)

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AND WE HEREBY wither 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 , personally appeared BRUNO W. GARLEPP, personally before me, 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. Oregon State of California On <u>3-31-01</u> before me, Andrea her green personally appeared <u>RICHARD M. BARTH</u> 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** vped name of HNOCGA

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3.	Date: 3/7/01	KEVIN S. DONNELLY
State	of California)	
Cour	nty of Santa Clara) SS.:	
On A know with his/his/his/his/his/his/his/his/his/his/	Much 7, 200/ before me, Much Co Sites, you to me (or proved to me on the basis of satisfactory every injustrument and acknowledged to me that he/she execution in the control of the contr	personally appeared <u>KEVIN S. DONNELLY</u> personally idence) to be the person whose name is subscribed to the uted the same in his/her authorized capacity, and that by upon behalf of which the person acted, executed the
	'ARY SEAL	Miliko Sile
1101	MICHIKO SITES Commission # 1236983 Notary Public - California \$\frac{2}{5}\$ Santa Clara County My Comm. Expires Oct 8, 2003	(Typed name of Notary) Michiko Sites
4.	Date: 2/16/01	ELY K. TSERN
State	of California)	•
Cou	nty of Santa Clara SS.:	
On _ to m instr sign: WIT	Fab. 16, 200 before me MI (A) (C) TES	personally appeared <u>ELY K. TSERN</u> personally known to be the person whose name is subscribed to the within a same in his/her authorized capacity, and that by his/her half of which the person acted, executed the instrument. (Typed name of Notary) Michila Sites
5.	Date: 02/13/01	CRAIG E, HAMPEL
State	e of California) SS.:	
Cou	nty of Santa Clava)	
On/_ know with his/h	wn to me (or proved to me on the basis of satisfactory evin in instrument and acknowledged to me that he/she exec	C, personally appeared <u>CRAIG E. HAMPEL</u> personally ridence) to be the person whose name is subscribed to the uted the same in his/her authorized capacity, and that by the upon behalf of which the person acted, executed the
NOT	MICHIKO SITES Commission # 1236983 Notary Public - California Santa Clara County My Comm. Expires Oct 8, 2003	(Typed name of Notary) Michiko Sites
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6. Date:	\		\'
		_	JEFFREY D. MITCHELL
State of California		1	
) SS.:	
County of	*****	,)	
On	hefore me	n	ersonally appeared TEUEDEV D AUTOUR
" term instruction and ac	instrument th	IO THE HIM HE/SHE EXEC	ersonally appeared <u>JEFFREY D. MITCHELL</u> personall vidence) to be the person whose name is subscribed to the cuted the same in his/her authorized capacity, and that be ty upon behalf of which the person acted, executed the
	orrivial boar.		
NOTARY SEAL			
	•		(Typed name of Notary)
•			\mathcal{L}
7. <u>Date:</u> 2 1	3/01	_	Jams H Jack
			JAMES A. GASBARRO
State of California		Υ	
C 4 C		ý SS.:	
County of)	
with modulient and acr	instrument the	i ine mai ne/sne execi	personally appeared <u>JAMES A. GASBARRO</u> personally idence) to be the person whose name is subscribed to the uted the same in his/her authorized capacity, and that by upon behalf of which the person acted, executed the
NOTARY SEAL			
			(Typed name of Notary)
		· · · · · · · · · · · · · · · · · · ·	
8. Date:			
Duto,			BILLY W. GARRETT, JR.
State of California			
State of California)) SS.:	
County of	· · · · · · · · · · · · · · · · · · ·)	
On he	fara ma		11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
known to me (or proved to within instrument and ack	nowledged to nestrument the	isis of satisfactory evidence that he/she execution	onally appeared <u>BILLY W. GARRETT, JR.</u> personally dence) to be the person whose name is subscribed to the ted the same in his/her authorized capacity, and that by upon behalf of which the person acted, executed the
NOTARY SEAL			
JAME OLAL			(Typed name of Notary)
			()

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State of California SS.: County of Santa Clara SS.: On Feb. D. So before me, Machine Spersonally appeared JEFFREY D. MITC. known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is within instrument and acknowledged to me that he/she executed the same in his/her authorized capa his/her signature on the instrument the person, or the entity upon behalf of which the person act instrument.	
County of Santa Clara On Feb. 22 before me, Mchiko Satisfactory evidence) to be the person whose name is within instrument and acknowledged to me that he/she executed the same in his/her authorized capa his/her signature on the instrument the person, or the entity upon behalf of which the person act	
known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is within instrument and acknowledged to me that he/she executed the same in his/her authorized capa his/her signature on the instrument the person, or the entity upon behalf of which the person act	
IUNU UIDIGUI.	subscribed to the acity, and that by
WITNESS my hand and official seal.	-
MICHIKO SITES Commission # 1236983 Notory Public - Colifornia Santa Clara County My Comm. Expires Oct 8, 2003	hiposites
7. <u>Date:</u> JAMES A. GASBARRO	
State of California)) SS.:	
County of	
On	acity, and that by
RUW 2	
8. Date: 02/18/2001 BILLY W. GARRETT, JR.	
BILLY W. GARRETT, JR. V	
State of California County of SantaClara SS.:	
BILLY W. GARRETT, JR. V	subscribed to the acity, and that by

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9. Date: $2 \sqrt{3} \sqrt{3} $		FRENRICK A. WARE
State of California County of <i><u>Janta Clara</u></i>)) SS.: ∠)	
On <u>Sob. (3.20)</u> before known to me (or proved to me or within instrument and acknowled	me, Michael Missississississississississississississ	personally appeared <u>FREDRICK A. WARE</u> personally personally evidence) to be the person whose name is subscribed to the executed the same in his/her authorized capacity, and that be entity upon behalf of which the person acted, executed the
Commission Notary Public Scarta Cla	O SITES n # 1236983 c - California gra County kres Oct 8, 2003	(Typed name of Notary) Michiko Sites
10. <u>Date:</u>		DONALD V. PERINO
State of California County of) ss.:	
within instrument and acknowled	lged to me that he/she ent the person, or the	, personally appeared <u>DONALD V. PERINO</u> personall bry evidence) to be the person whose name is subscribed to the executed the same in his/her authorized capacity, and that be entity upon behalf of which the person acted, executed the
NOTARY SEAL		(Typed name of Notary)

State of California County of
County of
County of
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
10. Date: 2/15/01 Maryland State of California Donald V. PERINO
County of Montgomery) SS.:
On 15 200 i before me, Judy Tongon, 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)

RECORDED: 09/22/2004