## PATENT ASSIGNMENT

## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Kyung Suk Oh	11/20/2008
Huy M. Nguyen	11/20/2008
Eugene C. Ho	11/20/2008
Woopoung Kim	11/25/2008

## **RECEIVING PARTY DATA**

Name:	Rambus Inc.
Street Address:	444 El Camino Real
City:	Los Altos
State/Country:	CALIFORNIA
Postal Code:	94022

### PROPERTY NUMBERS Total: 2

Property Type	Number	
Patent Number:	8130010	
Patent Number:	7915912	

## **CORRESPONDENCE DATA**

**Fax Number**: 9256212119

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

Phone: 9256212113

Email: art@siliconedgelaw.com

Correspondent Name: Arthur J Behiel

Address Line 1: 6601 Koll Center Parkway

Address Line 2: Suite 245

Address Line 4: Pleasanton, CALIFORNIA 94566

ATTORNEY DOCKET NUMBER: RA644.P.US/RA644.C1.US

NAME OF SUBMITTER: Arthur J. Behiel

PATENT REEL: 030908 FRAME: 0933 D \$80.00 8130010

Signature:	/Arthur J. Behiel/
Date:	07/30/2013
Total Attachments: 8 source=RA644_Assignment#page1.tif source=RA644_Assignment#page2.tif source=RA644_Assignment#page3.tif source=RA644_Assignment#page4.tif source=RA644_Assignment#page5.tif source=RA644_Assignment#page6.tif source=RA644_Assignment#page7.tif source=RA644_Assignment#page8.tif	

PATENT REEL: 030908 FRAME: 0934

Attorney Docket No. R-RA0644.Prov1.US

### CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

Kyung Suk Oh

10219 Palo Vista Road, Cupertino, CA 95014

Churchill on the Park Apartment #623, 7601 Churchill Way, Dallas,
TX 75251

Huy M. Nguyen
5102 Durban Court, San Jose, CA 95138
Eugene C. Ho
18548 Paseo Tierra, Saratoga, CA 95070

hereinafter termed "Inventor(s)", have invented certain new and useful improvements in

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#### SIGNAL LINES WITH INTERNAL AND EXTERNAL TERMINATION

inventic		icciaration of oa	en ioi an appnea	mon tor a On	neu states pai	ен өзсгөзид апа т	acomying me
-	On the	day of			_, 20;		
	Or						
<u>X</u>	Said applicati	on having Appli	cation Number_	61/099,646	and filed on_	24 September 2008	3; and
and inte invention hereinat	Real, Los Alerest in and to m, heretofore feer termed "sa	tos, CA 94022, said application conceived, made aid invention"),	(hereinafter term and the invention or discovered judd in and to ang	ned "Assigned on disclosed the jointly or seventy and all pates	e"), is desirous serein, and in erally by said nts, inventor's	ving a place of busing sof acquiring the end and to all embodim Inventor(s) (all collest certificates and other the sountries.	ntire right, title ents of the ectively

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

- 1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.
- 2. Said Inventor(s) hereby jointly and severally covenant and agree to cooperate with said Assignee to coable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting

substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.

- 3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.
- 4. Said Inventor(s) hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below.

Kyung Suk Oh

.

Date

DOROTHY L. LEVIN
Commission # 1857671
Notary Public - California
Santa Clora County
My Comm. Expires Mar 10, 2000

State of CALIFORNIA

County of SALVEL CLARA

On 11-20-08, before me, Donothy L. Leave Notway Public personally appeared Kyung Suk Oh,

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are-subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Signature of Notary/Public)

	State of		
	County of		
Woopoung Kim	on, before me,, personally appeared Woopoung Kim, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized congrigation), and that hy his/her/their		
Date	his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.		
	I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.		
	WITNESS my hand and official seal.		
	(Signature of Notary Public)		
Ahansan	State of CAU form in )  County of State Closed )		
Huy M. Nguyen	On //- Jo-Of, before me, Doubthy L. Lovin: Notway Rible.  personally appeared Huy M. Nguyen,  who proved to me on the basis of satisfactory evidence to be the		
1//20/2008 Date	person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.		
DOROTHY L. LEVIN Commission # 1557671 Notary Public - California Santa Clara County	I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.  WITNESS my hand and official seal.		
My Comm. Expires Mor 10, 2009	(Signature of Notary Public)		

	•
	State of CAUFORNICE )
2-2-4-0	County of State Clayer )
Eugené C. Ho	On 11/20/08, before me, Done Wing Leving Coronay help personally appeared Eugene C. Ho, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument
(1 /20 /2008 rate	and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
DOROTHY L. LEVIN Commission # 1557671	I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.
Notary Public - California & Santa Clara County My Comm. Expires Mar 10, 2009	WITNESS my hand and official seal.
	(Signature of Notary Public)
	State of )
	County of )
	On, before me,, personally appeared , who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument
ate	and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
	I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.
	WITNESS my hand and official seal.
	(Signature of Notary Public)

#### CORPORATE ASSIGNMENT

WHEREAS, the undersigned.

Kyung Suk Oh Woopoung Kim	10219 Palo Vista Road, Cupertino, CA 95014 Churchill on the Park Apartment #623, 7601 Churchill Way, Dallas,
, oopoung min	TX 75251
Huy M. Nguyen	5102 Durban Court, San Jose, CA 95138
Eugene C. Ho	18548 Paseo Tierra, Saratoga, CA 95070
hereinafter termed "Inventor(s)", have	invented certain new and useful improvements in
SIGNAL I	LINES WITH INTERNAL AND EXTERNAL TERMINATION
and have executed a declaration or oath invention:	for an application for a United States patent disclosing and identifying the
On the day of	
Or	
X Said application having Applica	ation Number 61/099,646 and filed on 24 September 2008; and
Camino Real, Los Altos, CA 94022, (hand interest in and to said application are invention, heretofore conceived, made (hereinafter termed "said invention"), and	corporation of the State of <u>Delaware</u> , having a place of business at <u>4440 El</u> ereinafter termed "Assignee"), is desirous of acquiring the entire right, title and the invention disclosed therein, and in and to all embodiments of the or discovered jointly or severally by said Inventor(s) (all collectively and in and to any and all patents, inventor's certificates and other forms of the or granted in the United States and foreign countries.
NOW, THEREFORE, in consider to have been received in full from said	deration of good and valuable consideration acknowledged by said Inventor(s

( to have been received in full from said Assignee:

- Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.
- Said Inventor(s) hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting

#### Attorney Docket No. R-RA0644.Prov1.US

substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.

- 3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.
- 4. Said Inventor(s) hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below.

	State of	)	
		)	
	County of	)	
Kyung Suk Oh	On, before me,		
Date	his/her/their authorized ca signature(s) on the instrum	pacity(ies), and that by his/her/their tent the person(s), or the entity upon (s) acted, executed the instrument.	
		OF PERJURY under the laws of the oregoing paragraph is true and correct.	
	WITNESS my hand and of	ficial seal.	
	(Signature of Notary Public	)	

# Attorney Docket No. R-RA0644.Prov1.US

Λ	State of	)		
MK Mm-	County of	;		
Woopoung Kim	On, before me	·		
Woopoung Rim	personally appeared Woopou	ing Kim, sis of satisfactory evidence to be the		
11/25/09 Date	person(s) whose name(s) is/ar and acknowledged to me tha his/her/their authorized capa signature(s) on the instrumen	re subscribed to the within instrument at he/she/they executed the same in acity(ies), and that by his/her/their at the person(s), or the entity upon a acted, executed the instrument.		
		OF PERJURY under the laws of the egoing paragraph is true and correct.		
	WITNESS my hand and office	cial seal.		
	(Signature of Notary Public)	-		
	State of	· • • • • • • • • • • • • • • • • • • •		
	County of	)		
Huy M. Nguyen	On, before me,			
Date	person(s) whose name(s) is/are and acknowledged to me that	Nguyen, is of satisfactory evidence to be the e subscribed to the within instrument t he/she/they executed the same in city(ies), and that by his/her/their		
	signature(s) on the instrumen	at the person(s), or the entity upon acted, executed the instrument.		
		I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.		
	WITNESS my hand and offic	ial seal.		
	(Signature of Notary Public)			

DEC-03-2009 14:22 TI 2144806303 P.04

## Attorney Docket No. R-RA0644.Prov1.US

	State of	)
	County of	)
Eugene C. Ho	person(s) whose name(s) is/	
Date	his/her/their authorized ca signature(s) on the instrum	pacity(ies), and that by his/her/their cent the person(s), or the entity upon (s) acted, executed the instrument.
		OF PERFURY under the laws of the oregoing paragraph is true and correct.
	WITNESS my hand and of	ficial seal.
	(Signature of Notary Public	s)
	State of	)
	County of	ý
Date	person(s) whose name(s) is/	asis of satisfactory evidence to be the are subscribed to the within instrument hat he/she/they executed the same in
	his/her/their authorized ca signature(s) on the instrum	pacity(ies), and that by his/her/their ent the person(s), or the entity upon is) acted, executed the instrument.
		OF PERJURY under the laws of the pregoing paragraph is true and correct.
	WITNESS my hand and off	ficial seal.
	(Signature of Notary Public	)