

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5824069

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BRIAN S. LEIBOWITZ	11/23/2009
HAE-CHANG LEE	12/17/2009
JIHONG REN	12/01/2009
RUWAN RATNAYAKE	12/10/2009
RECEIVING PARTY DATA	
Name:	RAMBUS INC
Street Address:	1050 ENTERPRISE WAY #700
City:	SUNNYVALE
State/Country:	CALIFORNIA
Postal Code:	94089
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16057604
CORRESPONDENCE DATA	
Fax Number:	
<i>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.</i>	
Phone:	408-462-8000
Email:	tfriedman@rambus.com
Correspondent Name:	TAMMY FRIEDMAN
Address Line 1:	1050 ENTERPRISE WAY #700
Address Line 4:	SUNNYVALE, CALIFORNIA 94089
ATTORNEY DOCKET NUMBER:	RA509.PCT.C1C1C1C1.US
NAME OF SUBMITTER:	TAMMY FRIEDMAN
SIGNATURE:	/TAMMY FRIEDMAN/
DATE SIGNED:	11/15/2019
Total Attachments: 4	
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source=RA509.PCT.US Assignment#page3.tif	

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

RAMBUS 3.3-022

Whereas, I, Brian S. Leibowitz of 425 14th Street, #4; San Francisco, California 94103

hereafter referred to as assignor, have with others invented certain new and useful improvements in

EDGE BASED PARTIAL RESPONSE EQUALIZATION

for which an application for a United States Letters Patent was filed on May 7, 2009
Application Number 12/513,898

for which an application for a United States Letters Patent was executed by me on _____,

for which an International Application was filed on November 9, 2007, as
PCT/US2007/023600, designating the United States.

And

Whereas, Rambus, Inc.

a corporation of Delaware herein referred to as "assignee" whose mailing address is
4440 El Camino Real; Los Altos, California 94022

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

11/23/09
(Date)

Brian S. Leibowitz
Brian S. Leibowitz

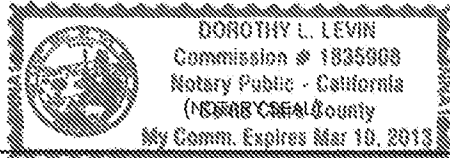
State of California) SS:

County of Santa Clara)

On Nov. 23, 2009 before me, Dorothy L. Levin, Notary Public personally appeared Brian S. Leibowitz, who 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.

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:
Dorothy L. Levin
(Notary Public)



*Total of 4 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

RAMBUS 3.3-022

Whereas, I, Hae-Chang Lee of

971 Seena Avenue, Los Altos, California 94024

hereafter referred to as assignor, have with others invented certain new and useful improvements in

EDGE BASED PARTIAL RESPONSE EQUALIZATION

for which an application for a United States Letters Patent was filed on May 7, 2009
Application Number 12/513,898

for which an application for a United States Letters Patent was executed by me on _____,

for which an International Application was filed on November 9, 2007, as
PCT/US2007/023600, designating the United States.

And

Whereas, Rambus, Inc.

a corporation of Delaware herein referred to as "assignee" whose mailing address is
4440 El Camino Real, Los Altos, California 94022

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

12/17/09
(Date)

[Signature]
Hae-Chang Lee

State of California) SS:

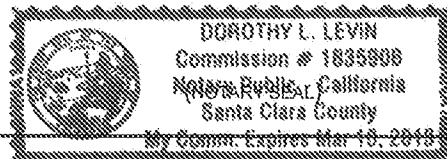
County of Santa Clara)

On Dec. 17, 2009, before me, Dorothy L. Levin, Notary Public, personally appeared Hae-Chang Lee, who 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.

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]
(Notary Public)



*Total of 4 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

RAMBUS 3.3-022

Whereas, I, Jihong Ren of 1185 Kent Avenue, Sunnyvale, CA 94087

hereafter referred to as assignor, have with others invented certain new and useful improvements in EDGE BASED PARTIAL RESPONSE EQUALIZATION

for which an application for a United States Letters Patent was filed on May 7, 2009
Application Number 12/513,898

for which an application for a United States Letters Patent was executed by me on _____

for which an International Application was filed on November 9, 2007, as PCT/US2007/023600, designating the United States.

And

Whereas, Rambus, Inc. a corporation of Delaware herein referred to as "assignee" whose mailing address is 4440 El Camino Real, Los Altos, California 94022

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

Dec 1st, 2009
(Date)

Jihong Ren
Jihong Ren

State of California) SS:

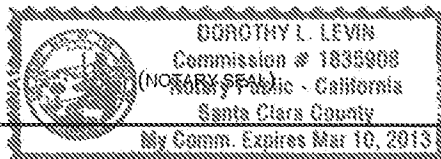
County of Santa Clara)

On Dec 1, 2009 before me, Dorothy L. Levin, Notary Public personally appeared Jihong Ren, who 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.

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.

Dorothy L. Levin
(Notary Public)



*Total of 4 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

RAMBUS 3.3-022

Whereas, I, Ruwan Ratnayake of

305 Elan Village Lane, Apt. 304, San Jose, CA 95134

hereafter referred to as assignor, have with others invented certain new and useful improvements in

EDGE BASED PARTIAL RESPONSE EQUALIZATION

for which an application for a United States Letters Patent was filed on May 7, 2009
Application Number 12/513,898

for which an application for a United States Letters Patent was executed by me on _____

for which an International Application was filed on November 9, 2007, as
PCT/US2007/023600, designating the United States.

And

Whereas, Rambus, Inc.

a corporation of Delaware herein referred to as "assignee" whose mailing address is

4440 El Camino Real, Los Altos, California 94022

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

12/10/2009
(Date)

Ruwan Ratnayake
Ruwan Ratnayake

State of California) SS:

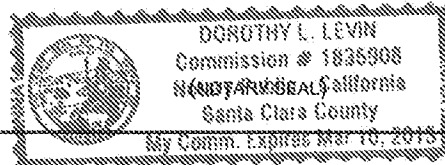
County of San Jose)

On Dec. 10, 2009 before me, Dorothy L. Levin Notary Public personally appeared Ruwan Ratnayake, who 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.

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.

Dorothy L. Levin
(Notary Public)



*Total of 4 forms are submitted.