PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Wayne Dettloff	02/16/2012
John Wilson	02/16/2012
Lei Luo	02/16/2012
Brian Leibowitz	02/16/2012
Jared Zerbe	02/16/2012
Pravin Kumar Venkatesan	02/16/2012

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:	13341483

CORRESPONDENCE DATA

 Fax Number:
 (978)341-0136

 Phone:
 978-341-0036

Email: cheryl.thomas@hbsr.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: James M. Smith

Address Line 1: Hamilton, Brook, Smith & Reynolds, P.C.

Address Line 2: 530 Virginia Road, P.O. Box 9133

Address Line 4: Concord, MASSACHUSETTS 01742-9133

ATTORNEY DOCKET NUMBER: 3684.1001-002

501857865 PATENT REEL: 027886 FRAME: 0537 1334148

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NAME OF SUBMITTER:	Cheryl Thomas		
Total Attachments: 15			
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PATENT REEL: 027886 FRAME: 0538

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and pursuant to an obligation to Rambus Inc. and/or its affiliates to assign intellectual property, and pursuant to any other applicable agreements among Rambus Inc. and its affiliates, the person(s)

Wayne Dettloff, Cary, North Carolina,
John Wilson, Raleigh, North Carolina,
Lei Luo, Durham, North Carolina,
Brian Leibowitz, San Francisco, California,
Jared Zerbe, Woodside, California, and
Pravin Kumar Venkatesan, Bangalore, Karnataka, India,

(hereinafter referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and/or does hereby sell, assign, and transfer to Rambus Inc., a Delaware corporation, having a place of business at 1050 Enterprise Way, Suite 700, Sunnyvale CA 94089 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following **non-provisional**

application fi Circuit", havir	led under 35 U.S.C. § 111(a) ("A ng:	PPLICATION") entitled "Fast	Power-On Bias
X	United States Patent Applicati	on No. 13/341,483 , filed on	December 30, 2011;
	which claims priority to U.S. Pand NUMBER filed on [Enter DAT		APPLICATION
***************************************	Application number (), filed (),
	inserted by () on () [Where
	INVENTOR hereby authorizes a	and requests ASSIGNEE or its	agents to insert here
	in each parentheses the applic	cation number and filing date	e when known, along
	with the signature and date of	the person completing this	section].

2. The entire worldwide right, title, and interest in and to: (a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, utility model, design, divisional, continuation, continued prosecution, continuation-in-part, substitute, renewal, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world related to the SUBJECT MATTER; (d) all patents (including reissues, re-examinations, and extensions) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

As part of this Assignment, INVENTOR further agrees to do the following, when requested, and without further consideration: (1) execute all oaths, declarations, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and

Docket No. RA798.P.US (3684.1001-002)

Page 1 of 5

PATENT REEL: 027886 FRAME: 0539

interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

The terms and covenants of this Assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding upon INVENTOR, and INVENTOR's respective heirs, legal representatives and assigns.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Each Inventor: Please Sign and Date Below:

200111110111111111111111111111111111111		
alyn D	2/16/12	
Inventor Name: Wayne Dettloff	Date	
State of North Carolina) County of Orange)		
On 216/12 before me, Chery Dalland, Notary Public,		
personally appeared Wayne Dettloff , who proved to me or whose name is subscribed to the within instrument and a his/her authorized capacity, and that by his/her signature of which the person acted, executed the instrument.	cknowledged to me that he/she executed the same in	
I certify under PENALTY OF PERJURY under the laws of the true and correct.	e State of North Carolina that the foregoing paragraph is	
WITNESS my hand and official seal.	*****	
Signature: <u>Chryfloland</u>	CHERYL D GALLAND NOTARY PUBLIC ORANGE COUNTY, NC My Commission Expires 6-20-2015	

Docket No. RA798.P.US (3684.1001-002)

Page 2 of 5

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Che Wille	2-16-2-012	
Inventor Name: John Wilson	Date	
	NO.	
State of North Carolina)	No.	
County of Orange)	Reconstruction	
On allella before me, Merry	Dalland, Notary Public,	
personally appeared John Wilson 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 th true and correct.	e State of North Carolina that the foregoing paragraph is	
WITNESS my hand and official seal.	CHERYL D GALLAND	
0. 0.	NOTARY PUBLIC	
Signature: Www. Dawa	ORANGE COUNTY, NC (Seal) My Commission Expires 6-20-2015	
	The same is the same and the sa	
Lem	1/16/202	
Inventor Name: Lei Luo	Date /	
V		
State of North Carolina) County of Orange)		
On 2/16 17 before me, Cheral D. Galland, Notary Public,		
personally appeared Lei Luo 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 North Carolina that the foregoing paragraph is true and correct.		
WITNESS my hand and official seal.	CHERYL D GALLAND	
NOTARY PUBLIC		
Signature: Www. Voologyd	ORANGE COUNTY, NC (Seal) My Commission Expires 6-20-2015	
	выправления объекторы по пред объекто в под объекторы по пред объе	

Page 3 of 5

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Inventor Name: Brian Leibowitz	Date		
State of California) County of Santa Clara)			
On hefore me	Notary Public		
On, Notary Public, personally appeared Brian 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 and correct.	ne State of California that the foregoing paragraph is true		
WITNESS my hand and official seal.			
Signature:	(Seal)		
Inventor Name: Jared Zerbe	Date		
State of California) County of Santa Clara)			
On before me,	, Notary Public,		
personally appeared Jared Zerbe, 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:	(Seal)		

Page 4 of 5

Inventor Name: Pravin Kumar Venkatesan	Date
Witness Signature	
Print Witness Name	
Address	
Witness Signature	
Print Witness Name	
Address	

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and pursuant to an obligation to Rambus Inc. and/or its affiliates to assign intellectual property, and pursuant to any other applicable agreements among Rambus Inc. and its affiliates, the person(s)

Wayne Dettloff, Cary, North Carolina,
John Wilson, Raleigh, North Carolina,
Lei Luo, Durham, North Carolina,
Brian Leibowitz, San Francisco, California,
Jared Zerbe, Woodside, California, and
Pravin Kumar Venkatesan, Bangalore, Karnataka, India,

(hereinafter referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and/or does hereby sell, assign, and transfer to Rambus Inc., a Delaware corporation, having a place of business at 1050 Enterprise Way, Suite 700, Sunnyvale CA 94089 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following non-provisional

Circuit", havi	ng:	PPEICATION JERRILIEG FAST	rower-on dias
<u> X</u>	United States Patent Application	on No. 13/341,483 , filed on [December 30, 2011;
	which claims priority to U.S. Pand NUMBER] filed on [Enter DAT		APPLICATION
	Application number (), filed (
	Inserted by (······································) [Where

with the signature and date of the person completing this section].

in each parentheses the application number and filing date when known, along

2. The entire worldwide right, title, and interest in and to: (a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, utility model, design, divisional, continuation, continued prosecution, continuation-in-part, substitute, renewal, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world related to the SUBJECT MATTER; (d) all patents (including reissues, re-examinations, and extensions) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

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Docket No. RA798.P.US (3684.1001-002)

Page 1 of 5

interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

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This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Each Inventor: Please Sign and Date Below:

Inventor Na	me: Wayne Dettloff	Date
State of Nor	th Carolina)	
County of O	range)	
On	before me,	, Notary Public,
personally appeared Wayne Dettloff, 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 North Carolina that the foregoing paragraph is true and correct.		
WITNESS my	hand and official seal.	
Signature:		(Seal)
-		

Docket No. RA798.P.US (3684.1001-002)

Page 2 of 5

Inventor Name: John Wilson	Date
State of North Carolina) County of Orange)	
On before me,	, Notary Public,
name is subscribed to the within instrument	d to me on the basis of satisfactory evidence to be the person whose and acknowledged to me that he/she executed the same in his/her ature on the instrument the person, or the entity upon behalf of ment.
I certify under PENALTY OF PERJURY under the true and correct.	ne laws of the State of North Carolina that the foregoing paragraph is
WITNESS my hand and official seal.	
Signature:	
inventor Name: Lei Luo	Date
State of North Carolina)	
On before me,	, Notary Public,
name is subscribed to the within instrument a	ne on the basis of satisfactory evidence to be the person whose and acknowledged to me that he/she executed the same in his/her ature on the instrument the person, or the entity upon behalf of ment.
I certify under PENALTY OF PERIURY under th true and correct.	ne laws of the State of North Carolina that the foregoing paragraph is
WITNESS my hand and official seal.	
Signature:	(Seal)

Docket No. RA798.P.US (3684.1001-002) Page 3 of 5

Min f. Liber 2/16/2012
Inventor Name: Brian Leibowitz Date
State of California) County of Santa Clara)
On 16 Feb 2012 before me, V Jercha, Notary Public,
personally appeared Brian 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 this 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. V. JERCHA COMM. #1860235 Notary Public · California San Mateo County My Comm. Expires Aug. 6, 2013
Inventer Name: Jared Zerbe Date

Tank C	2/16/12
Inventor Name: Jared Zerbe Date	
State of California) County of Santa Clara)	
on 16 Feb 2012 before me, V Jercha	, Notary Public,
personally appeared Jared Zerbe, who proved to me on the basis of name is subscribed to the within instrument and acknowledged to authorized capacity, and that by his/her signature on the instrume which the person acted, executed the instrument.	me that he she executed the same in his her
I certify under PENALTY OF PERJURY under the laws of the State of and correct.	California that the foregoing paragraph is true
WITNESS my hand and official seal. Signature: (Seal)	V. JERCHA COMM. #1860235 Notary Public - California San Mateo County My Comm. Expires Aug. 6, 2018

Docket No. RA798.P.US (3684.1001-002) Page 4 of 5

Inventor Name: Pravin Kumar Venkatesan	Date
Witness Signature	
Print Witness Name	
Address	
Witness Signature	
Print Witness Name	
Address	
V 2000000000000000000000000000000000000	

Page 5 of 5

ASSIGNMENT

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Lei Luo, Durham, North Carolina,
Brian Leibowitz, San Francisco, California,
Jared Zerbe, Woodside, California, and
Pravin Kumar Venkatesan, Bangalore, Karnataka, India,

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Page 1 of 5

App. No.: 13/341,483

1166464.1

PATENT

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Inventor Name: Wayn	e Dettloff	Date
State of North Carolination County of Orange	a)	
County of Orange	1	
On	before me,	, Notary Public,
whose name is subscri his/her authorized cap	ibed to the within instrume	d to me on the basis of satisfactory evidence to be the person nt and acknowledged to me that he/she executed the same in ignature on the instrument the person, or the entity upon behalf ent.
whose name is subscri his/her authorized cap of which the person ac	ibed to the within instrume pacity, and that by his/her s cted, executed the instrum	nt and acknowledged to me that he/she executed the same in ignature on the instrument the person, or the entity upon behalf
whose name is subscri his/her authorized cap of which the person ac I certify under PENALT	ibed to the within instrume pacity, and that by his/her s cted, executed the instrum 'Y OF PERJURY under the la	nt and acknowledged to me that he/she executed the same in ignature on the instrument the person, or the entity upon behalf ent.
whose name is subscri his/her authorized cap of which the person ac I certify under PENALT true and correct.	ibed to the within instrume pacity, and that by his/her s cted, executed the instrum 'Y OF PERJURY under the la	nt and acknowledged to me that he/she executed the same in ignature on the instrument the person, or the entity upon behalf ent.
whose name is subscribis/her authorized cap of which the person at I certify under PENALT true and correct. WITNESS my hand and	ibed to the within instrume pacity, and that by his/her s cted, executed the instrum 'Y OF PERJURY under the la	nt and acknowledged to me that he/she executed the same in ignature on the instrument the person, or the entity upon behalf ent. ws of the State of North Carolina that the foregoing paragraph is
whose name is subscribis/her authorized cap of which the person at I certify under PENALT true and correct. WITNESS my hand and	ibed to the within instrume pacity, and that by his/her s cted, executed the instrum TY OF PERJURY under the la d official seal.	nt and acknowledged to me that he/she executed the same in ignature on the instrument the person, or the entity upon behalf ent. ws of the State of North Carolina that the foregoing paragraph is

Docket No. RA798.P.US (3684.1001-002)

Page 2 of 5

App. No.: 13/341,483

1166464.1

PATENT

Inventor Name: John Wilson	Date	
State of North Carolina) County of Orange)		
On before me,	, Notary Public,	
personally appeared John Wilson 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 th true and correct.	e State of North Carolina that the foregoing paragraph is	
WITNESS my hand and official seal.		
Signature:	(Seal)	
Inventor Name: Lei Luo	Date	
State of North Carolina) County of Orange)		
Onbefore me,	, Notary Public,	
personally appeared Lei Luo 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 th true and correct.	e State of North Carolina that the foregoing paragraph is	
WITNESS my hand and official seal.		
Signature:	(Seal)	

Page 3 of 5

App. No.: 13/341,483

1166464.1

PATENT

Inventor Name: Brian Lei l	oowitz	Date
State of California County of Santa Clara)	
On	before me,	, Notary Public,
whose name is subscribed	I to the within ins ty, and that by his	proved to me on the basis of satisfactory evidence to be the person trument and acknowledged to me that he/she executed the same in s/her signature on the instrument the person, or the entity upon behalf strument.
I certify under PENALTY O and correct.	F PERJURY under	the laws of the State of California that the foregoing paragraph is true
WITNESS my hand and off	ficial seal.	
Signature:		(Seal)
ocanonomenocanomeno e e e e e e e e e e e e e e e e e e		

Inventor Name: Jared Zer	be	Date
Inventor Name: Jared Zer State of California County of Santa Clara	be))	
State of California County of Santa Clara)	Date, Notary Public,
State of California County of Santa Clara On personally appeared Jare c name is subscribed to the)) before me, ! Zerbe, who prov within instrumer hat by his/her sig	, Notary Public, yed to me on the basis of satisfactory evidence to be the person whose at and acknowledged to me that he/she executed the same in his/her nature on the instrument the person, or the entity upon behalf of
State of California County of Santa Clara On personally appeared Jaree name is subscribed to the authorized capacity, and twhich the person acted, e)before me, i Zerbe, who prov within instrumer that by his/her sig xecuted the instr	, Notary Public, yed to me on the basis of satisfactory evidence to be the person whose at and acknowledged to me that he/she executed the same in his/her nature on the instrument the person, or the entity upon behalf of
State of California County of Santa Clara On personally appeared Jared name is subscribed to the authorized capacity, and to which the person acted, e I certify under PENALTY O and correct.)before me, i Zerbe, who proving within instrumer hat by his/her sig xecuted the instr	, Notary Public, yed to me on the basis of satisfactory evidence to be the person whose at and acknowledged to me that he/she executed the same in his/her anature on the instrument the person, or the entity upon behalf of ument.
State of California County of Santa Clara On personally appeared Jareo name is subscribed to the authorized capacity, and t)before me, i Zerbe, who proving within instrumer instrum	, Notary Public, ved to me on the basis of satisfactory evidence to be the person whose at and acknowledged to me that he/she executed the same in his/her nature on the instrument the person, or the entity upon behalf of ument. the laws of the State of California that the foregoing paragraph is true

1166464.1

PATENT

,	
Think -	16th Feb. 2012
Inventor Name: Pravin Kumar Venkatesan	Date
2)	
Witness Signature SAG	
Print Witness Name SANGETH GEO	RGE
Address DJ, KQ APBRITMENT, R	K TOWNSHIP,
BOMMOSANDRA, BANGO	9LORE-100
Witness Signature /	
Print Witness Name SANKETH RAO	
Address <u>B2-1305</u> <u>12</u> T 8	OUTHCITY, BOR ROAD,
BLR-560076.	,

RECORDED: 03/19/2012

Page 5 of 5

App. No.: 13/341,483

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