

## PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Wayne Dettloff</td> <td>02/16/2012</td> </tr> <tr> <td>John Wilson</td> <td>02/16/2012</td> </tr> <tr> <td>Lei Luo</td> <td>02/16/2012</td> </tr> <tr> <td>Brian Leibowitz</td> <td>02/16/2012</td> </tr> <tr> <td>Jared Zerbe</td> <td>02/16/2012</td> </tr> <tr> <td>Pravin Kumar Venkatesan</td> <td>02/16/2012</td> </tr> </tbody> </table>		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
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>Rambus Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1050 Enterprise Way, Suite 700</td> </tr> <tr> <td>City:</td> <td>Sunnyvale</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94089</td> </tr> </table>		Name:	Rambus Inc.	Street Address:	1050 Enterprise Way, Suite 700	City:	Sunnyvale	State/Country:	CALIFORNIA	Postal Code:	94089				
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PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13341483</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13341483										
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Application Number:	13341483														
CORRESPONDENCE DATA															
Fax Number:	(978)341-0136														
Phone:	978-341-0036														
Email:	cheryl.thomas@hbsr.com														
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>															
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														

CH \$40.00 13341483

NAME OF SUBMITTER:

Cheryl Thomas

**Total Attachments: 15**

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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 filed under 35 U.S.C. § 111(a)** ("APPLICATION") entitled "Fast Power-On Bias Circuit", having:

  X   United States Patent Application No. **13/341,483**, filed on **December 30, 2011**;  
       which claims priority to U.S. Patent Application No. [Enter **APPLICATION NUMBER**] filed on [Enter **DATE**] ; or  
       Application number ( \_\_\_\_\_ ), filed ( \_\_\_\_\_ ),  
inserted by ( \_\_\_\_\_ ) on ( \_\_\_\_\_ ) [Where  
INVENTOR hereby authorizes and requests ASSIGNEE or its agents to insert here  
in each parentheses the application number and filing date 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

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:**

		<u>2/16/12</u>
Inventor Name: <b>Wayne Dettloff</b>		Date
State of North Carolina	)	
County of Orange	)	
On <u>2/16/12</u> before me, <u>Cheryl D Galland</u> , Notary Public,		
personally appeared <b>Wayne Dettloff</b> , 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: <u>Cheryl D Galland</u>	(Seal)	<div style="border: 1px solid black; padding: 5px; text-align: center;">CHERYL D GALLAND NOTARY PUBLIC ORANGE COUNTY, NC My Commission Expires 6-20-2015</div>

John Wilson 2-16-2012  
Inventor Name: John Wilson Date

State of North Carolina )  
County of Orange )

On 2/16/12 before me, Cheryl D. Galland, Notary Public,  
personally appeared **John Wilson** who proved to me on the basis of satisfactory evidence to be the person whose  
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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: Cheryl D. Galland (Seal)

CHERYL D GALLAND  
NOTARY PUBLIC  
ORANGE COUNTY, NC  
My Commission Expires 6-20-2015

Lei Luo 2/16/2012  
Inventor Name: Lei Luo Date

State of North Carolina )  
County of Orange )

On 2/16/12 before me, Cheryl D. Galland, Notary Public,  
personally appeared **Lei Luo** who proved to me on the basis of satisfactory evidence to be the person whose  
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Signature: Cheryl D. Galland (Seal)

CHERYL D GALLAND  
NOTARY PUBLIC  
ORANGE COUNTY, NC  
My Commission Expires 6-20-2015

Inventor Name: **Brian Leibowitz**

Date

State of California                    )  
County of Santa Clara                )

On \_\_\_\_\_ before me, \_\_\_\_\_, 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 State of California that the foregoing paragraph is true and correct.

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.

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WITNESS my hand and official seal.

Signature: \_\_\_\_\_ (Seal)

Inventor Name: <b>Pravin Kumar Venkatesan</b>		Date
Witness Signature_____		
Print Witness Name_____		
Address _____		
_____		
Witness Signature_____		
Print Witness Name_____		
Address _____		
_____		
_____		

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inserted by ( \_\_\_\_\_ ) on ( \_\_\_\_\_ ) [Where INVENTOR hereby authorizes and requests ASSIGNEE or its agents to insert here in each parentheses the application number and filing date when known, along with the signature and date of the person completing this section].

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**Each Inventor: Please Sign and Date Below:**

Inventor Name: <b>Wayne Dettloff</b>		Date
State of North Carolina	)	
County of Orange	)	
On _____ before me, _____, Notary Public,		
personally appeared <b>Wayne Dettloff</b> , 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)

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.		
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Signature: _____		(Seal)

Inventor Name: Lei Luo		Date
State of North Carolina	)	
County of Orange	)	
On _____ before 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.		
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Signature: _____		(Seal)

Brian L. Leibowitz 2/16/2012  
Inventor Name: Brian Leibowitz Date

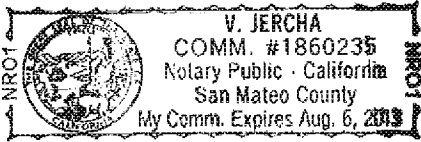
State of California )  
County of Santa Clara )

On 16 Feb 2012 before me, V. Jercha, Notary Public,  
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Signature: V. Jercha (Seal)



Jared Zerbe 2/16/12  
Inventor Name: Jared Zerbe Date

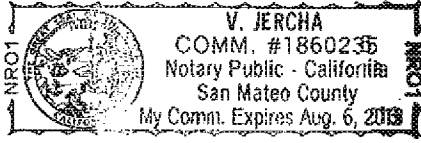
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Signature: V. Jercha (Seal)



Inventor Name: Pravin Kumar Venkatesan		Date
Witness Signature_____		
Print Witness Name_____		
Address _____		
_____		
Witness Signature_____		
Print Witness Name_____		
Address _____		
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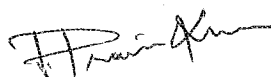
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County of Orange	)	
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I certify under PENALTY OF PERJURY under the laws of the State of North Carolina that the foregoing paragraph is true and correct.		
WITNESS my hand and official seal.		
Signature: _____		(Seal)

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.

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WITNESS my hand and official seal.

Signature: \_\_\_\_\_ (Seal)

Inventor Name: **Lei Luo**

Date

State of North Carolina )

County of Orange )


On \_\_\_\_\_ before 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.

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Signature: \_\_\_\_\_ (Seal)



Inventor Name: **Brian Leibowitz**

Date

State of California )  
County of Santa Clara )

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Signature: \_\_\_\_\_ (Seal)

Inventor Name: **Jared Zerbe**

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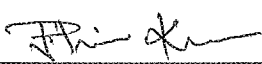
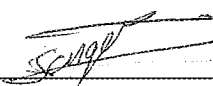
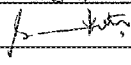
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: \_\_\_\_\_ (Seal)





	
Inventor Name: Pravin Kumar Venkatesan	Date: 16 <sup>th</sup> Feb. 2012
Witness Signature: 	
Print Witness Name: SANGEETH GEORGE	
Address: D2, 100 APARTMENT, RK TOWNSHIP, BOMMASANDRA, BANGALORE-100	
Witness Signature: 	
Print Witness Name: SANKETH RAO	
Address: B2-1305 LRT SOUTH CITY, BG2 ROAD, BLR-560076.	