# 501947122 06/07/2012

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
lan P Shaeffer	06/06/2012
Lei Luo	05/29/2012

## RECEIVING PARTY DATA

Name:	Rambus, Inc.
Street Address:	1050 Enterprise Way
Internal Address:	Suite 700
City:	Sunnyvale
State/Country:	CALIFORNIA
Postal Code:	94089

## PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	61476594
PCT Number:	US2012034021

## CORRESPONDENCE DATA

Fax Number: (908)277-6373 Phone: 9082773333

Email: jreinhardt@wardzinna.com

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

Mail.

Correspondent Name: Ward & Zinna, LLC
Address Line 1: 382 Springfield Avenue

Address Line 2: Suite 300

Address Line 4: Summit, NEW JERSEY 07901

ATTORNEY DOCKET NUMBER:	69807-0001A, 69807-0001E	
NAME OF SURMITTER	Francis F Morris	

#### Total Attachments: 3

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PATENT REEL: 028334 FRAME: 0264 0.00 614765

#### **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)

IAN P. SHAEFFER of Los Gatos, CA LEI LUO of Durham, NC

(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., 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:

The entire worldwide right, title, and interest in all inventions and

•	ents ("SUBJECT MATTER") that are ION") entitled "Memory Circuit a		• •	
X	_ PCT Patent Application No. F	PCT Patent Application No. PCT/US2012/034021, filed on April 18, 2012;		
<u>X</u>	which claims priority to U.S. I 2011; or	Patent Application No. 61/4	176,594 filed on April 18,	
	Application number (	) on () on () and requests ASSIGNEE or ication number and filing d	ate when known, along	
2.	The entire worldwide right, title,	, and interest in and to: (a)	the APPLICATION;	

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

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App. No.: PCT/US2012/034021 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:

		6/6/1	2
inventor Name: IAN P. S.	HAEFFER	Date	
State of California County of Santa Clara	} -		
On	before me,		, Notary Public,
whose name is subscribe his/her authorized capacitations.	ed to the within instrumer	nt and acknowledged to me gnature on the instrument	factory evidence to be the person ie that he/she executed the same in t the person, or the entity upon beha
I certify under PENALTY and correct.	OF PERJURY under the lav	vs of the State of California	a that the foregoing paragraph is true
WITNESS my hand and official seal.			
Signature:	· · · · · · · · · · · · · · · · · · ·	(Seal)	

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Inventor Name: Lel Lu	pertur	5/19/2012 Date	
State of North Carol County of Orange	ina ) ·		
On	before me,	, Notary Public,	
personally appeared Lel 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	l official seal.		
Signature:		(Seal)	

Docket No.: 69807-0001E

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