505222830 12/06/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5269599

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAY ENDSLEY	09/23/2015
THOMAS VOGELSANG	09/28/2015
CRAIG M. SMITH	09/23/2015
MICHAEL GUIDASH	09/23/2015
ALEXANDER C. SCHNEIDER	09/23/2015

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:	15759963

CORRESPONDENCE DATA

Fax Number:

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.

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: 10466US04	
NAME OF SUBMITTER:	TAMMY FRIEDMAN
SIGNATURE: /TAMMY FRIEDMAN/	
DATE SIGNED:	12/06/2018

Total Attachments: 4

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PATENT REEL: 047692 FRAME: 0643

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ASSIGNMENT

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

Jay Endsley of San Jose, CA
Thomas Vogelsang of Mountain View, CA
Craig M. Smith of Spencerport, NY
Michael Guidash of Rochester, NY
Alexander C. Schneider of Los Altos, CA

have sold, assigned, and transferred and/or I do 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:

("SUBJECT MATTER") that are disclosed in the patent application ("APPLICATION") titled

IACHONA	L-READOUT OVEKSAMPLED IIVIA	AGE SENSOK", having:	
<u> X</u>	United States Patent Application No. 62/221,421, filed on September 21, 2015		
· minnikanika.	which claims priority to U.S. P NUMBER] filed on [Enter DAT		APPLICATION
	Application number (), filed (
	inserted by () on (), initials ()
	[Where I hereby authorize and each parentheses the applicat with the printed name, date, a	tion number and filing date v	vhen known, along

My entire worldwide right, title, and interest in all inventions and improvements

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.

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

As part of this Assignment, I further agree 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 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

Docket No.: 10466US01 Page 1 of 2 App. No.: 62/221,421

enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests conveyed. I further agree to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

I represent that I had or still have the right, title, and interest to convey as set forth herein, and covenant with ASSIGNEE that I have not made and will not make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests conveyed.

I grant ASSIGNEE or its agents 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 me, and my 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:

Inventor Name: Jay Endsley	9/23/20/5 Date/
Inventor Name: Thomas Vogelsang	9/28 /15 Date
inventor Name Craig M. Smith	9/23//S Date
Inventor Name: Michael Guidash	Date
Inventor Name: Alexander C. Schneider	9/23//s

Docket No.: 10466US01 Page 2 of 2 App. No.: 62/221,421

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My entire worldwide right, title, and interest in all inventions and improvements

"FRACTIONA	L-READOUT OVERSAMPLED IMA	AGE SENSOR", having:	
X	United States Patent Application No. 62/221,421, filed on September 21, 201		
	which claims priority to U.S. PanumBER] filed on [Enter DAT		APPLICATION
	Application number (), filed (),
	inserted by () on (), initials ()
[Where I hereby authorize and request ASSIGNEE or its agents to inser			ents to insert here in
	each parentheses the applicat	ion number and filing date v	when known, along
with the printed name, date, and signed initials of the person completing		son completing this	

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Docket No.: 10466US01 Page 1 of 2 App. No.: 62/221,421

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Inventor Name: Jay Endsley	Date
·	,
Inventor Name: Thomas Vogelsang	Date
Inventor Name: Craig M. Smith	Date
Inventor Name: Michael Guidash	9/23/2015 Date
Inventor Name: Alexander C. Schneider	Date
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RECORDED: 12/06/2018

App. No.: 62/221,421