504593815 10/13/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS SHEFFLER	10/30/2009
LAWRENCE LAI	10/21/2009
LIANG PENG	10/08/2009
BOHUSLAV RYCHLIK	11/16/2009

RECEIVING PARTY DATA

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Street Address:	1050 ENTERPRISE WAY #700
City:	SUNNYVALE
State/Country:	CALIFORNIA
Postal Code:	94089

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15497126

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	TAMMY FRIEDMAN
SIGNATURE:	/TAMMY FRIEDMAN/
DATE SIGNED:	10/13/2017

Total Attachments: 6

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Attorney Docket No.: RA652.Prov1.US

PATENT

ASSIGNMENT

In consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, Thomas Sheffler, Lawrence Lai, Liang Peng and Bohuslav Rychlik, the undersigned Assignor(s), believing to be the original, first and sole or joint inventor(s) of any and all new and useful improvements disclosed in the application for the United States patent entitled

ATOMIC MEMORY DEVICE

hereby sell, assign, and transfer to Rambus Inc., a Delaware Corporation having a principal place of business at 4440 El Camino Real, Los Altos, California 94022, ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the same patent application

<u>></u> 20, 2009 an	 which was filed with the United States Patent and Trademark Office on <u>August</u> hich was assigned Application Number <u>61/235,564</u> .
	 which has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below.

The undersigned further sell, assign, and transfer to Assignee said application and all divisional applications, continuation applications, continuation applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications, utility models and the like that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application; and the right to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise.

The undersigned further agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all

patents on said improvements, in said Assignee, its successors, assigns, and legal representatives.

The undersigned covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

The undersigned hereby authorize and request the Officials of the United States Patent and Trademark Office and any and all foreign Patent Offices to issue any and all Letters Patents, when granted, to said Assignee as the assignee of the entire right, title and interest in and to the same, for the sole use of said Assignee, its successors and assigns, to the full end of the term for which said Letters Patents may be granted.

The undersigned hereby grant to <u>Charles E. Shemwell (Reg. No. 40,171)</u>, located at <u>P.O. Box 70307</u>, <u>Sunnyvale</u>, <u>CA 94086</u>, the power to insert on this document any further identification necessary or desirable to comply with the rules of the United States Patent and Trademark Office for recordation of this Assignment.

Each Inventor/Assignor: Please Sign and Date Below:

<u>() 2009</u> Date	Name: Thomas Sheffler
State of California County of Santa Clara)) ss)
I certify that I know/have satisficated person acknowledged that the uses and purposes mentione	actory evidence that Thomas Sheffler is the person who appeared before me, and he signed this instrument and acknowledged it to be his free and voluntary act for d in the instrument.
WITNESS my hand and official	I seal.
Notary Public Signature	
Date:	

Oct 21, 2009	Marian Ma
Date, 2009	Managaran I ai
Date	Name: Lawrence Lai
e	\
State of California)) no
County of Santa Clara) ss
County of Sunta Ciata	,
Legrify that I know/have satisfe	ctory evidence that Lawrence Lai is the person who appeared before me, and said
	med this instrument and acknowledged it to be his free and voluntary act for the
uses and purposes mentioned in	
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WITNESS my hand and official	scal. 3 2 13 Commission \$ 1835908 2
	Notary Public - California
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Notary Public Signature	All Conner Ser 10, 2013 A
Date: Oth, od/, od0	
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	Name: Liang Peng
2,440	Transc. Links Cong
State of California)) ss
County of Santa Clara) The state of the
	ctory evidence that Liang Peng is the person who appeared before me, and said ned this instrument and acknowledged it to be his free and voluntary act for the he instrument.
WITNESS my hand and official Notary Public Signature	Seal. CORCTHY L LEVIN Commission # 1835908 Motary Public - California Santa Clara County My Comm. Expires Mar 10, 2013
Date: 10-8-09	

***************************************	***************************************
1//16 ,2009	1902
11/16, 2009 Date	Name: Bohuslav Rychlik
State of California County of Santa Clara)) ss
I certify that I know/have satisfa	ictory evidence that Bohuslav Rychlik is the person who appeared before me, and he signed this instrument and acknowledged it to be his free and voluntary act for in the instrument.
WITNESS my hand and official	seal.
Notary Public Signature Date:	Please sie attached Notary

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT State of California County of SUN DIESO. On NOVEMBELLE, 2019, before me, DICK Rene Rudey, votacy Rublic Here West Name and time of the Office of Public Name and time who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the VICKI RENEE RUDELL instrument the person(s), or the entity upon behalf of Commission # 1804112 which the person(s)-acted, executed the instrument. Notary Public - California San Diego County I certify under PENALTY OF PERJURY under the laws My Comm. Expires Jun 25, 2012 of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. Place Slatery Seel Above - OPTIONAL Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document. Description of Attached Document Title or Type of Document: <u>ASSISTAMENT</u> Document Date: ///6/D Signer(s) Other Than Named Above: Capacity(les) Claimed by Signer(s) Signer's Name: Signer's Name: Individual Individuat Corporate Officer --- Title(s): ☐ Corporate Officer — Title(s): ____ Partner — [] Limited [] General ☐ Partner — ☐ Limited ☐ General Attorney in Fact Too of thomp here. Trustee :: Trustee Guardian or Conservator Guardian or Conservator ○ Other: Signer is Representing: Signer Is Representing:_

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