

2-25-03

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Jade M. Kizer; Benedict C. Lau;
Roxanne T. Vu; Huy M. Nguyen;
Leung Yu; and Adam Chuen-Huei Chou

2. Name and address of receiving party(ies)

Name: Rambus Inc.

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Street Address: 4440 El Camino RealCity: Los Altos State: CA Zip: 94022Execution Date: 2/21/2003 and 2/24/2003Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

2/21/2003 &

If this document is being filed together with a new application, the execution date of the application is: 2/24/2003

A. Patent Application No.(s)

B. Patent No.(s)

10379251Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Shemwell Gregory & Courtney LLP

Internal Address: _____

Street Address: 4880 Stevens Creek Blvd.Suite 201City: San Jose State: CA Zip: 95129-10346. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ \$40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number:

501914

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Charles E. Shemwell

Name of Person Signing

Signature

Feb. 25, 2003
 Date
Total number of pages including cover sheet, attachments, and documents: 6
 Mail documents to be recorded with required cover sheet information to:
 Commissioner of Patents & Trademarks, Box Assignments
 Washington, D.C. 20231

 JC951 U.S. PTO
 10/374251
 03/03/2003

03/03/2003 BNGUYEN1 00000026 10374251

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 PATENT
 REEL: 013823 FRAME: 0194

ASSIGNMENT

In consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, Jade M. Kizer, Benedict C. Lau, Roxanne T. Vu, Huy M. Nguyen, Leung Yu and Adam Chuen-Huei Chou, 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

PHASE JUMPING LOCKED LOOP CIRCUIT

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

_____ which was filed with the United States Patent and Trademark Office on _____ and which was assigned Application Number _____.

X 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, continued prosecution 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 Charles E. Shemwell (Reg. No. 40,171), located at 4880 Stevens Creek Blvd., Suite 201, San Jose, California 95129-1034, 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:

Feb 21, 2003
Date

Jade M. Kizer
Name: Jade M. Kizer

State of California)
County of Santa Clara) ss

I certify that I know/have satisfactory evidence that Jade M. Kizer is the person who appeared before me, and said person acknowledged that he or she signed this instrument and acknowledged it to be his or her free and voluntary act for the uses and purposes mentioned in the instrument.

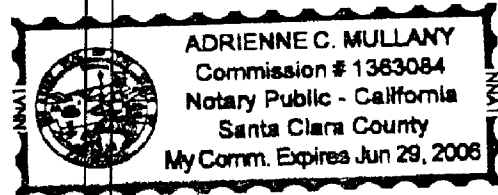
WITNESS my hand and official seal.

Adrienne C. Mullany
Notary Public Signature

Date: 2/21/03

Please also list date you signed the accompanying
DECLARATION AND
POWER OF ATTORNEY if
Assignment executed with new
filing:

Feb 21, 2003
Date



Feb 21, 2003
Date

Benedict C. Lau
Name: Benedict C. Lau

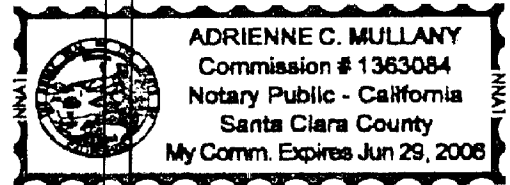
State of California)
County of Santa Clara) ss

I certify that I know/have satisfactory evidence that Benedict C. Lau is the person who appeared before me, and said person acknowledged that he or she signed this instrument and acknowledged it to be his or her free and voluntary act for the uses and purposes mentioned in the instrument.

WITNESS my hand and official seal.

Adrienne C. Mullany
Notary Public Signature

Date: 2/21/03



Please also list date you signed the accompanying DECLARATION AND POWER OF ATTORNEY if Assignment executed with new filing:

Feb 21, 2003
Date

Feb 21st, 2003
Date

Roxanne T. Vu
Name: Roxanne T. Vu

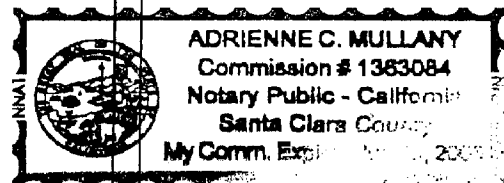
State of California)
County of Santa Clara) ss

I certify that I know/have satisfactory evidence that Roxanne T. Vu is the person who appeared before me, and said person acknowledged that he or she signed this instrument and acknowledged it to be his or her free and voluntary act for the uses and purposes mentioned in the instrument.

WITNESS my hand and official seal.

Adrienne C. Mullany
Notary Public Signature

Date: 2/21/03



Please also list date you signed the accompanying DECLARATION AND POWER OF ATTORNEY if Assignment executed with new filing:

Feb 21st, 2003
Date

2/21, 2003
Date

Huy M. Nguyen
Name: Huy M. Nguyen

State of California)
) ss
County of Santa Clara)

I certify that I know/have satisfactory evidence that Huy M. Nguyen is the person who appeared before me, and said person acknowledged that he or she signed this instrument and acknowledged it to be his or her free and voluntary act for the uses and purposes mentioned in the instrument.

WITNESS my hand and official seal.

Adrienne C. Mullany
Notary Public Signature

Date: 2/21/03



Please also list date you signed the accompanying
DECLARATION AND
POWER OF ATTORNEY if
Assignment executed with new
filing:

2/21, 2003
Date

ADRIENNE C. MULLANY
Commission # 1363084
Notary Public - California
Santa Clara County
My Comm. Expires Jun 29, 2006

2/24, 2003
Date

Leung Yu
Name: Leung Yu

State of California)
) ss
County of Santa Clara)

I certify that I know/have satisfactory evidence that Leung Yu is the person who appeared before me, and said person acknowledged that he or she signed this instrument and acknowledged it to be his or her free and voluntary act for the uses and purposes mentioned in the instrument.

WITNESS my hand and official seal.

Adrienne C. Mullany
Notary Public Signature

Date: 2/24/03



Please also list date you signed the accompanying
DECLARATION AND
POWER OF ATTORNEY if
Assignment executed with new
filing:

2/24, 2003
Date

ADRIENNE C. MULLANY
Commission # 1363084
Notary Public - California
Santa Clara County
My Comm. Expires Jun 29, 2006

Feb. 21, 2003
Date

Adam Chuen-Huei Chou
Name: Adam Chuen-Huei Chou

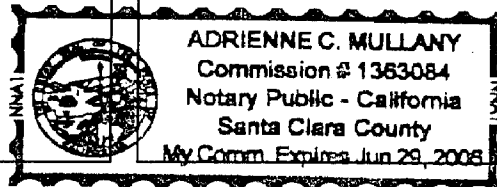
State of California)
County of Santa Clara) ss
)

I certify that I know/have satisfactory evidence that Adam Chuen-Huei Chou is the person who appeared before me, and said person acknowledged that he or she signed this instrument and acknowledged it to be his or her free and voluntary act for the uses and purposes mentioned in the instrument.

WITNESS my hand and official seal.

Adrienne C. Mullany
Notary Public Signature

Date: 2/21/03



Please also list date you signed the accompanying
DECLARATION AND
POWER OF ATTORNEY if
Assignment executed with new
filing:

Feb. 21, 2003
Date