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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

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

## 1. Name of conveying party(ies):

Richard E. Perego  
Fredrick A. Ware

3.11.03

## 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: 3/4/2003 and 3/7/2003Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

10385908

3/4/2003 &amp;

If this document is being filed together with a new application, the execution date of the application is: 3/7/2003

A. Patent Application No.(s)

B. Patent No.(s)

Additional 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)

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## 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

March 11, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

J1042 U.S. PTO

10/385908



03/11/03

PATENT  
REEL: 013863 FRAME: 0051

**ASSIGNMENT**

In consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, Richard E. Perego and Fredrick A. Ware, 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

**MEMORY SYSTEM AND DEVICE WITH SERIALIZED DATA TRANSFER**

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.

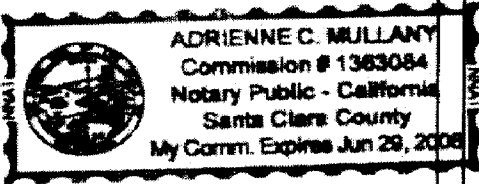
The undersigned covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein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

<p><u>3/4</u>, 2003 Date</p> <p><u>Richard E. Perego</u> Name: Richard E. Perego</p> <p>State of California ) County of Santa Clara ) ss</p> <p>I certify that I know/have satisfactory evidence that <u>Richard E. Perego</u> 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.</p> <p>WITNESS my hand and official seal.</p> <p><u>Adrienne C. Mullany</u> Notary Public Signature</p> <p>Date: <u>March 4, 2003</u></p>		<p>Please also list date you signed the accompanying DECLARATION AND POWER OF ATTORNEY if Assignment executed with new filing:</p> <p><u>3/4</u>, 2003 Date</p>
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3/7, 2003  
Date

[Signature]  
Name: Fredrick A. Ware

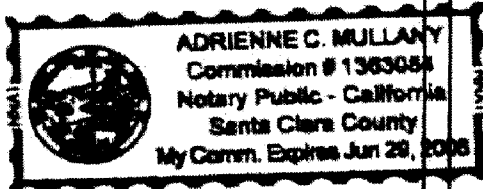
State of California )  
County of Santa Clara ) ss

I certify that I know/have satisfactory evidence that Fredrick A. Ware 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: March 7, 2003



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

3/7, 2003  
Date