

02-05-2004

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

10076 U.S. PTO
10766761
012804

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

1. Name of conveying party(ies):
(1) Craig E. Hampel
(2) Frederick A. Ware
(3) Richard E. Perego

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

(1) 27 Jan 2004
(2) 27 Jan 2004
(3) 27 Jan 2004

Execution Date: _____

2. Name and address of receiving party(ies)
Name: Rambus, Inc.

Internal Address: _____

Street Address: 4440 El Camino Real

City: Los Altos State: CA Zip: 94022

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s): 10/766761
If this document is being filed together with a new application, the execution date of the application is: _____
(1) 27 Jan 2004
(2) 27 Jan 2004
(3) 27 Jan 2004

A. Patent Application No.(s) New

B. Patent No.(s) _____

Additional numbers attached? Yes No

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

Name: Mark A. Haynes

Internal Address: _____

Haynes Beffel & Wolfeld LLP

Street Address: P.O. Box 366

City: Half Moon Bay State: CA Zip: 94019

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

Enclosed
 Authorized to be charged to deposit account

8. Deposit account number:

50-0869 (Docket No. RBUS 1309-1)

DO NOT USE THIS SPACE

9. Signature.
Mark A. Haynes  28 JANUARY 2004
Name of Person Signing Signature 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

02/03/2004 HMARZ11 00000044 10766761

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PATENT
REEL: 014945 FRAME: 0044

**JOINT TO CORPORATE
ASSIGNMENT**

WHEREAS, the undersigned,

(1) Craig E. Hampel
5927 Dunn Avenue
San Jose, CA 95123

(2) Frederick A. Ware
13961 Fremont Pines Lane
Los Altos Hills, CA 94022

(3) Richard E. Perego
5938 Pala Mesa Drive
San Jose, CA 95123

hereinafter termed "Inventors", have invented certain new and useful improvements in

**PERIODIC CALIBRATION FOR COMMUNICATION CHANNELS BY
DRIFT TRACKING**

and have filed an application for a United States patent disclosing and identifying the above invention on _____ as Application No. _____, OR are filing such an application herewith, and have executed an oath or declaration of inventorship for such application on:

(1) the 27th day of January, 2004;

(2) the 27th day of January, 2004;

(3) the 27th day of January, 2004;

(hereinafter termed "application"); and

WHEREAS, Rambus, Inc., a corporation of the State of Delaware, having a place of business at 4440 El Camino Real, Los Altos, CA 94022 (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below.

Craig Hampel
Craig E. Hampel

1/27/04
Date

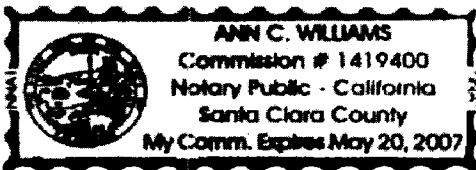
State of California)
County of Santa Clara)

On Jan. 27, 2004, before me, Ann C. Williams Notary Public,
personally appeared Craig E. Hampel,

personally known to me or 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.

WITNESS my hand and official seal.

Ann C. Williams
(Notary Public)



Frederick A. Ware

Frederick A. Ware

1/27/04

Date

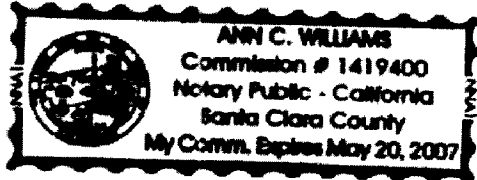
State of California)
County of Santa Clara)

On Jan. 27, 2004, before me, Ann C. Williams, Notary Public,
personally appeared Frederick A. Ware

personally known to me or 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.

WITNESS my hand and official seal.

Ann C. Williams
(Notary Public)



State of California)
County of Santa Clara)

Richard E. Perego

Richard E. Perego

1/27/2004

Date

On Jan. 27, 2004, before me, Ann C. Williams, Notary Public,
personally appeared Richard E. Perego

personally known to me or 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.

WITNESS my hand and official seal.

Ann C. Williams
(Notary Public)

