

10-06-2003



EET

22141 U.S. PTO
10/667355
09/23/03

To the Honorable Commissioner of Patents

ment(s) or copy(ies) thereof.

1. Name of Conveying Party(ies):

- (1) Anthony Bessios
- (2) William Stonecypher
- (3) Jared L. Zerbe
- (4) Carl Werner

102567427
9.23.03

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

2. Name and Address of Party(ies) receiving an interest (assignee(s)):

Name: Rambus Inc.
Address: 4440 El Camino Real
Los Altos, CA 94022
Country: USA

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

3. Nature of Conveyance:

- Assignment Merger Change of Name
 Verified Translation Security Agreement Other: _____

Execution Date: (1) September 22, 2003; and (2) September 22, 2003; (3) September 22, 2003; and (4) September 23, 2003

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

If this document is being filed together with a new application, the execution date(s) of the application is: (1) September 22, 2003; (2) September 22, 2003; (3) September 23, 2003; and September 23, 2003

A. Patent Application No(s): 10667355 B. Patent No(s):
to be assigned

Others on additional sheet(s) attached? Yes No

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

Thomas E. Anderson, Esq.
Intellectual Property Department
Hunton & Williams, LLP
1900 K Street, N.W.
Suite 1200
Washington, DC 20006-1109
(202) 955-1500 (telephone)
(202) 778-2201 (facsimile)

6. Total number of applications and patents involved:

Application(s): 1
+ Patent(s): _____
= Total: 1

7. Total Fee (37 C.F.R. § 3.41) \$ 40.00

- Enclosed
 Authorized to be charged to Deposit Account

8. Deposit Account No.: 50-0206

- (Duplicate copy of this sheet attached)
Charge any underpayment or credit any overpayment to above 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.

Thomas E. Anderson, Reg. No. 37,063

Name of Person Signing

Signature

September 23, 2003

Date

Total number of pages including cover sheet, attachments, and document:

8

09/26/2003 HTECKLU1 00000015 10667355

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ASSIGNMENT

WHEREAS, the undersigned, to wit:

- (1) Anthony Bessios;
- (2) William Stonecypher;
- (3) Jared Zerbe; and
- (4) Carl Werner

(hereinafter collectively ASSIGNOR), has/have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

"TECHNIQUE FOR UTILIZING SPARE BANDWIDTH RESULTING FROM THE USE OF A TRANSITION-LIMITING CODE IN A MULTI-LEVEL SIGNALING SYSTEM"

- (X only one) (a) X which was executed concurrently herewith and is being filed herewith in the United States Patent and Trademark Office;
- (b) which was executed on _____, 20__, and is being filed herewith in the United States Patent and Trademark Office;
- (c) which was filed as U.S. Patent Application No. _____ on _____;

AND WHEREAS, Rambus Inc. (hereinafter ASSIGNEE), a corporation organized and existing under the laws of the State of Delaware, and having its principal place of business at 4440 El Camino Real, Los Altos, CA 94022, is desirous of acquiring the entire right, title, and interest in and to said invention and any and all patents that may be obtained therefor, and in and to said application and any and all patents that may issue therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer, and set over unto said ASSIGNEE, its successors, assigns, and legal representatives, all right, title, and interest in and to said invention throughout the world, and any and all patents of the United States and foreign countries that may be obtained therefor, and in and to said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may

issue therefrom, such right, title, and interest including the right to file applications and obtain patents, utility models, industrial models, and designs for said invention in the name of said ASSIGNEE, its successors, assigns, and legal representatives, throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries;

ASSIGNOR also does hereby covenant that it has the full right to convey the entire right, title, and interest herein assigned, and that it has not and will not execute any agreement in conflict herewith;

ASSIGNOR also does hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application, including any continuations, continuations-in-part, divisions, reissues, re-examinations, substitutions, and extensions thereof, to said ASSIGNEE, its successors, assigns, and legal representatives as the ASSIGNEE of the entire right, title, and interest herein assigned;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to perfect the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives, and generally do everything possible to vest the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to make application for and obtain any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, or extensions of said application, or any application on said invention, or any patent issuing therefor or therefrom;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, communicate to said ASSIGNEE, its successors, assigns, and legal representatives, any known facts relating to said invention or said application or any patent issuing therefor or therefrom, and testify as to the same in any interference or other litigation proceeding when requested to do so, and aid said ASSIGNEE, its successors, assigns, and legal representatives, in obtaining and enforcing proper protection for said invention in all countries;

ASSIGNOR also does hereby grant the firm of Hunton & Williams LLP of 1900 K Street, N.W., Washington, D.C., 20006-1109, or its agents, the power to insert on this assignment any further information, including but not limited to application number(s) and filing date(s), which may be necessary or desirable in order to comply with any rule or request of the United States Patent and Trademark office for the purposes of recording this document.

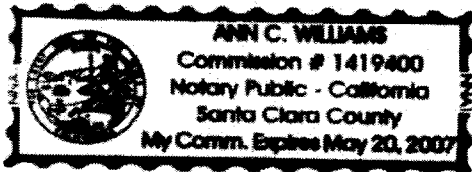
ASSIGNOR also does now hereby execute this document on the date(s) indicated below:

(1) IN WITNESS WHEREOF, I have hereunto set my hand and seal
this 22nd day of September, 2003.

Sign: Anthony Bessios
Print Name: Anthony Bessios
Print Address: 39469 Gallaudet Dr.,
Apt. 316
Fremont, CA 94538

COMMONWEALTH/STATE OF California
COUNTY OF Santa Clara

Before me, Ann C. Williams,
Notary Public in and for the
Commonwealth/State of California, did personally appear the
above-named Anthony Bessios, ~~personally known to me and/or~~
proved to me on the basis of satisfactory evidence to be the
person who signed and sealed the foregoing instrument and
acknowledged the same to be his ~~or her~~ own free act and deed,
this 22nd day of September, 2003.



Sign: Ann C. Williams
Notary Public

My Commission Expires: May 20, 2007

(2) IN WITNESS WHEREOF, I have hereunto set my hand and seal
this 22 day of September, 2003.

Sign: William F. Stonecypher
Print Name: William Stonecypher
Print Address: 1574 Willowbrook Drive
San Jose, CA 95118

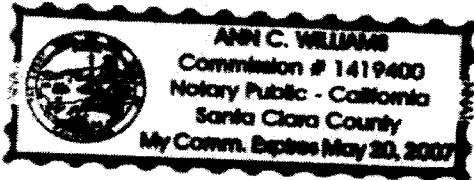
COMMONWEALTH/STATE OF California

COUNTY OF Santa Clara

Before me, Ann C. Williams, a Notary Public in and for the
Commonwealth/State of California, did personally appear the
above-named William Stonecypher, ~~personally known to me and/or~~
proved to me on the basis of satisfactory evidence to be the
person who signed and sealed the foregoing instrument and
acknowledged the same to be his ~~or her~~ own free act and deed,
this 22nd day of September, 2003.

Sign: Ann C. Williams
Notary Public

My Commission Expires: May 20, 2007

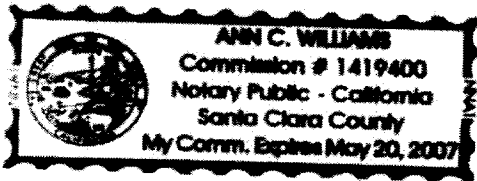


(3) IN WITNESS WHEREOF, I have hereunto set my hand and seal
this 22 day of September, 2003.

Sign: Jared Zerbe
Print Name: Jared Zerbe
Print Address: 431 Hillside Drive
Woodside, CA 94062

COMMONWEALTH/STATE OF California
COUNTY OF Santa Clara

Before me, Ann C. Williams,
a Notary Public in and for the
Commonwealth/State of California, did personally appear the
above-named Jared Zerbe, ~~personally known to me and/or~~ proved
to me on the basis of satisfactory evidence to be the person who
signed and sealed the foregoing instrument and acknowledged the
same to be his ~~or her~~ own free act and deed, this 22nd day of
September, 2003



Sign: Ann C. Williams
Notary Public

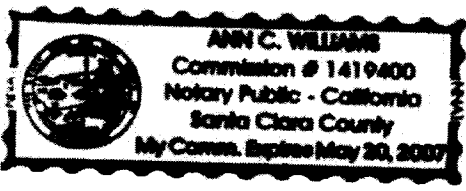
My Commission Expires: May 20, 2007

(4) IN WITNESS WHEREOF, I have hereunto set my hand and seal
this 22 day of September, 2003.

Sign: Carl Werner
Print Name: Carl Werner
Print Address: 124 Briarwood Way
Los Gatos, CA 95032

COMMONWEALTH/STATE OF California
COUNTY OF Santa Clara

Before me, Ann C. Williams, a Notary Public in and for the
Commonwealth/State of California, did personally appear the
above-named Carl Werner, ~~personally known to me and/or~~ proved
to me on the basis of satisfactory evidence to be the person who
signed and sealed the foregoing instrument and acknowledged the
same to be his ~~or her~~ own free act and deed, this 22nd day of
September, 2003.



Sign: Ann C. Williams
Notary Public

My Commission Expires: May 20, 2007