

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT3469164

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|---|--------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                 |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                     |
| <b>CONVEYING PARTY DATA</b>   |                                |
| <b>Name</b>   | <b>Execution Date</b>          |
| ANDREW HO   | 02/18/2010                     |
| VLADIMIR STOJANOVIC   | 12/27/2009                     |
| BRUNO W. GARLEPP  | 01/14/2010                     |
| FRED F. CHEN  | 01/28/2010                     |
| <b>RECEIVING PARTY DATA</b>   |                                |
| <b>Name:</b>  | Rambus Inc.                    |
| <b>Street Address:</b>  | 1050 Enterprise Way, Suite 700 |
| <b>City:</b>  | Sunnyvale                      |
| <b>State/Country:</b>   | CALIFORNIA                     |
| <b>Postal Code:</b>   | 94089                          |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                |
| <b>Property Type</b>  | <b>Number</b>                  |
| <b>Application Number:</b>  | 14817607                       |
| <b>CORRESPONDENCE DATA</b>  |                                |
| <b>Fax Number:</b>  |                                |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                |
| <b>Phone:</b>   | 408-462-8000                   |
| <b>Email:</b>   | twain@rambus.com               |
| <b>Correspondent Name:</b>  | TARISA WAIN                    |
| <b>Address Line 1:</b>  | 1050 ENTERPRISE WAY #700       |
| <b>Address Line 4:</b>  | SUNNYVALE, CALIFORNIA 94089    |
| <b>ATTORNEY DOCKET NUMBER:</b>  | RA290.CIP1C1C2C1.B42           |
| <b>NAME OF SUBMITTER:</b>   | TARISA WAIN                    |
| <b>SIGNATURE:</b>   | /Tarisa Wain/                  |
| <b>DATE SIGNED:</b>   | 08/04/2015                     |
| <b>Total Attachments: 3</b>   |                                |
| source=RA290.CIP1C1.US Assignment#page1.tif   |                                |
| source=RA290.CIP1C1.US Assignment#page2.tif   |                                |
| source=RA290.CIP1C1.US Assignment#page3.tif   |                                |

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, we, having a post office address that follows our name: Andrew Ho, 89 Almedral Ave., Atherton, CA 94027; Vladimir Stojanovic, 458 Marrett Road, Lexington, MA 02421; Bruno W. Garlepp, 1118 Kensington Ave., Sunnyvale, CA 94087; and Fred F. Chen, 362 Commonwealth Ave. #4A, Boston, MA 02115; (herein referred to as ASSIGNORS), are the sole inventors of the invention described and claimed in the specification forming part of the United States Utility Patent Application entitled "Margin Test Methods and Circuits," filed October 26, 2009, and assigned serial number 12/606,159;

WHEREAS, Rambus Inc. (hereafter referred to as ASSIGNEE), a Delaware corporation with an office located at: 4440 El Camino Real, Los Altos, CA 94022, is desirous of acquiring the entire right, title, and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty, or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors an assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer, and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protection title to said invention or letters patent thereof.

IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

[Signature] Andrew Ho 2010-2-18
Inventor's Signature Inventor's Printed Name Date

STATE OF CALIFORNIA )
) SS
COUNTY OF )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2009, before me personally came the above named Andrew Ho, who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the use and purposes therein set forth.

NOTARY PUBLIC
My Commission Expires:

*[Signature]*  
Inventor's Signature

Vladimir Stojanovic  
Inventor's Printed Name

12/27/2009  
Date

STATE OF CALIFORNIA )  
 ) SS  
COUNTY OF )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2009, before me personally came the above named Vladimir Stojanovic, who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires:

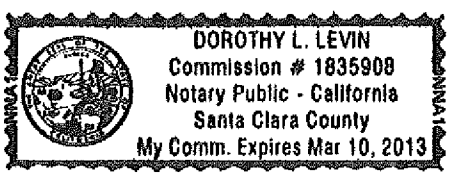
*[Signature]*  
Inventor's Signature

Bruno W. Garlepp  
Inventor's Printed Name

1/14/2010  
Date

STATE OF CALIFORNIA )  
 ) SS  
COUNTY OF SANTA CLARA )

On this 14<sup>th</sup> day of JANUARY, <sup>2010</sup>2009, before me personally came the above named Bruno W. Garlepp, who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the use and purposes therein set forth.



NOTARY PUBLIC *[Signature]*

My Commission Expires: MARCH 10, 2013

F.F.C.  
Inventor's Signature

Fred F. Chen  
Inventor's Printed Name

1/28/10  
Date

STATE OF CALIFORNIA )  
  ) SS  
COUNTY OF    )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2009, before me personally came the above named Fred F. Chen, who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the use and purposes therein set forth.

NOTARY PUBLIC

My Commission Expires: