

07-23-2001

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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 Part(ies): 07/09/01
Donald C. Stark
Additional name(s) of conveying party(ies) attached? Yes No

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 names(s) & address(es) attached: Yes No
*jc903 U.S. PTO
09/902278
07/09/01*

3. Nature of conveyance:
 Assignment Security Agreement
 Merger Change of Name
 Other
Execution Date: 7/06/2001

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: 7/06/2001

A. Patent Application No.(s): 09/902278
Additional numbers attached: Yes No

B. Patent No.(s)
Additional numbers attached: Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Thomas A. Jolly
Internal Address: Lee & Hayes, PLLC
Street Address: 421 W. Riverside Ave
Suite 500
City: Spokane State: WA Zip: 99201

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:

07/16/2001 BNGUYEN1 00000054 09902278
04 FC:581 40.00 OP

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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.

Thomas A. Jolly
Name of Person Signing Reg. #39,241

[Signature]
Signature

7/09/01
Date

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

1 **IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

2 Inventorship Stark
3 Applicant Rambus Inc.
4 Attorney's Docket No. RB1-020US
Title: Methods and Apparatuses for Bi-directional Signaling

5 **PATENT ASSIGNMENT**

6 **PARTIES TO THE ASSIGNMENT**

7 Assignor(s):

8 Donald C. Stark
9 23375 Camino Hermoso
Los Altos Hills, CA 94306

10 Assignee:

11 Rambus Inc.
12 A Corporation in the State of Delaware
13 4440 El Camino Real
Los Altos, CA 94022

14 **AGREEMENT**

15 WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention
16 entitled "Methods and Apparatuses for Bi-directional Signaling," as described and
17 claimed in the specification forming part of an application for United States letters
18 patent executed herewith;

19 WHEREAS, Rambus Inc. (hereinafter referred to as ASSIGNEE), a
20 corporation of the State of Delaware having a place of business at 4440 El Camino
21 Real, Los Altos, CA 94022, is desirous of acquiring the entire right, title and
22 interest in and to the invention and in and to any letters patent that may be granted
23 therefor in the United States and in any and all foreign countries;

24 NOW, THEREFORE, in exchange for good and valuable consideration, the
25 receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and

1 transfer unto ASSIGNEE, the entire right, title and interest in and to said
2 invention, said application and any and all letters patent which may be granted for
3 said invention in the United States of America and its territorial possessions and in
4 any and all foreign countries, and in any and all divisions, reissues and
5 continuations thereof, including the right to file foreign applications directly in the
6 name of ASSIGNEE and to claim priority rights deriving from said United States
7 application to which said foreign applications are entitled by virtue of international
8 convention, treaty or otherwise, said invention, application and all letters patent on
9 said invention to be held and enjoyed by ASSIGNEE and its successors and
10 assigns for their use and benefit and of their successors and assigns as fully and
11 entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this
12 assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize
13 and request the Commissioner of Patents and Trademarks to issue all letters patent
14 on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments
15 and documents required for the making and prosecution of applications for United
16 States and foreign letters patent on said invention, for litigation regarding said
17 letters patent, or for the purpose of protecting title to said invention or letters
18 patent therefor.

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July 6, 2001
Date

Donald C. Stark
Donald C. Stark

State of California)
County of Santa Clara) ss.

I certify that I know or have satisfactory evidence that Donald C. Stark 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.

Dated July 6, 2001



Signature of Notary Public Michiko Sites

My appointment expires Oct. 8, 2003