



R 08-30-2001

ET Patent and Trademark Office Docket No. 388682000600



101828299

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

1. Name of conveying party(ies): **8-1501**
 James WANG
 Anurag NIGAM
 David R. STILES
 Individual(s) Association
 General Partnership Limited Partnership
 Corporation-State Other

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

2. Name and address of receiving party(ies):
 Name: REDBACK NETWORKS, INC.
 Internal Address:
 Street Address: 250 Holger Avenue
 City: San Jose, State: CA ZIP: 95135

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other:
 Execution Date: *July 6, 2001; August 2, 2001; July 22, 2001

4. Application number(s) or patent number(s): 09/823,293
 If this document is being filed together with a new application, the execution date of the application is:
 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:
 Richard C. Kim
 Morrison & Foerster LLP
 3811 Valley Centre Drive
 Suite 500
 San Diego, California 92130-2332

6. Total number of applications and patents involved: *
 7. Total fee (37 C.F.R. § 3.41): \$40.00
 Enclosed
 Authorized to be charged to deposit account, referencing Attorney Docket 388682000600
 8. Deposit account number: **03-1952**

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.21 that may be required by this paper, or to credit any overpayment to Deposit Account No. 03-1952.

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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.
 Name: Richard C. Kim Rich Kim August 13, 2001
 Registration No: 40,046 Signature Date

Total number of pages comprising cover sheet, attachments and document: 6

Mail documents to be recorded with required cover sheet information to:
 U.S. Patent and Trademark Office
 Office of Public Records
 Box Assignments
 Crystal Gateway 4, Room 335
 Washington, D.C. 20231

08/29/2001 LAUELLER 00000130 031952 09823293
 01 FD:581 40.00 CH

ASSIGNMENT JOINT

THIS ASSIGNMENT, by JAMES WANG; ANURAG NIGAM; and DAVID R. STILES (hereinafter referred to as the assignors), residing at Milipitas, CA; San Francisco, CA; and Los Gatos, CA, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in ONBOARD RAM BASED FIFO WITH POINTERS TO BUFFER OVERHEAD BYTES OF SYNCHRONOUS PAYLOAD ENVELOPES IN SYNCHRONOUS OPTICAL NETWORKS, set forth in an application for Letters Patent of the United States, bearing Serial No. 09/823,293 and filed on March 30, 2001; and

WHEREAS, REDBACK NETWORKS, INC., (hereinafter "Assignee"), a corporation duly organized under and pursuant to the laws of California and having its principal place of business at 250 Holger Avenue, San Jose, California 95135-1300, is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

7/6/2001
Date

James Wang
James WANG

Date

Anurag NIGAM

Date

David R. STILES

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

Date

8/2/01

Date

Date

James WANG

Anurag NIGAM

David R. STILES

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

Date James WANG

Date Anurag NIGAM
7/22/01

Date David R. STILES