IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of: Millind Mittal and Laxman Shankar

Serial No.: 09/770,832

Filed: January 25, 2001

For: METHOD AND APPARATUS FOR END TO END FORWARDING ARCHITECTURE

Box Assignment
Assistant Commissioner for Patents
Washington, DC 20231

Please record the attached original document or copy thereof and return the recorded instrument to the undersigned.

1. Name of parties conveying an interest: (1) Millind Mittal
   (2) Laxman Shankar

2. Name and address of party receiving an interest: Optim Networks
   1270 Oakmead Parkway, Suite 310
   Sunnyvale, CA 94086

3. Description of the interest conveyed:
   X Assignment __ Change of Name __ Security Agreement __ Merger

   Date of execution of attached document: (1) January 24, 2001
   (2) January 24, 2001

4. Application number(s) or patent number(s). Additional sheet attached? Yes ___ No __X__

5. Name and address of party to whom correspondence concerning document should be mailed:
   Stephen S. Ford
   MARGER JOHNSON & McCOLLUM, P.C.
   1030 S.W. Morrison Street
   Portland, Oregon 97205
   Telephone: (503) 222-3613

6. Number of applications and patents involved: one

7. Enclosed is a check to cover the assignment recordal fee of $40.00.
8. Any deficiency or overpayment should be charged or credited to deposit account number 13-1703.

9. 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.

Respectfully submitted,

MARGER JOHNSON & McCOLLOM, P.C.

[Signature]

Stephen S. Ford
Registration No. 35,139

Total number of pages comprising cover sheet and attached assignment: 4

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to Box Missing Parts, Assistant Commissioner of Patents, Washington, DC 20231.

Dated: 5-3-01

[Signature]

Jessica Leitch
ASSIGNMENT

Assignor: Millind Mittal
Address: 800 E. Charleston Rd., #29
         Palo Alto, CA 94303

Assignor: Laxman Shankar
Address: 4027 Chamberer Drive
         San Jose, CA 95135

Assignee: Optim Networks
Address: 1270 Oakmead Parkway, Suite 310
         Sunnyvale, CA 94086

Title: METHOD AND APPARATUS FOR END TO END
       FORWARDING ARCHITECTURE

U.S. Patent Application:
Application Serial No.: Filed herewith
Filing Date: Filed herewith

For good and valuable consideration, the receipt of which is hereby
acknowledged, the above-named Assignor hereby sells, assigns and transfers to Assignee, the
full and exclusive right, title and interest in and to the above-identified invention, patent
application and patent rights throughout the world, including foreign patent priority rights;
said invention, application and letters patent in this or any foreign country, and all divisions,
continuations, reissues and extensions thereof, to be held and enjoyed by Assignee, for its
own use and benefit, and for its successors and assigns to the full end of the term for which
letters patent may be granted in this or any foreign country, as fully and entirely as the same
would have been held by Assignor had this assignment and sale not been made, and covenant
that Assignor has full right so to do, and agree that Assignor will communicate to Assignee,
or its successors and assigns, any facts known to Assignor respecting said invention, and
testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and
reissue applications, make all rightful oaths, and do everything possible to aid Assignee, its
successors and assigns to obtain and enforce proper patent protection for said invention in
this or any foreign country.
In the event that the patent application filing date or serial number is not known at the time this document is executed, Assignor hereby grants permission to the attorneys of record in the patent application to fill in the filing date and/or serial number above, and to record this assignment after such information is added.

Executed at Sunnyvale, California, this 24th day of January, 2001.

Millind Mittal, Assignor

STATE OF CALIFORNIA

County of Santa Clara ss.

Before me this 24th day of January, 2001, personally appeared the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Patricia A. Cyester
Notary Public for California
My commission expires: April 1, 2001

Executed at Sunnyvale, California, this 94th day of January, 2001.

Laxman Shankar, Assignor

STATE OF CALIFORNIA

County of Santa Clara ss.

Before me this 24th day of January, 2001, personally appeared the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Patricia A. Cyester
Notary Public for California
My commission expires: April 1, 2001