	2003
F	Γ Patent and Trademark Office Attorney Docket No.: LAMA121078
To the Director – U.S. Patent and Tradem. 102549	
1. Submission Type	2. Conveyance Type: Assignment License Merger Security Agreement Change of Name Other:
3. Names of conveying parties: Execution Date: Hongyu Liao August 27, 2003 Mrinal K. Mandal August 26, 2003 Bruce F. Cockburn August 26, 2003 Additional name(s) of conveying party(ies) attached? Yes No	4. Name and address of receiving party: Name: Telecommunications Research Laboratories Address: 7th Floor, 9107 - 116 Street NW Edmonton, Alberta, Canada, T6G 2V4 Additional name(s) & address(es) attached? Yes No
Application number(s) and/or patent number(s): A. Patent Application No. 10/435,499 Additional numbers at	B. Patent No(s).
	ication, enter the date the patent application was signed by the first
6. Name and address of party to whom correspondence	e 7. Total number of applications and/or patents involved: 1
concerning document should be mailed: Kevan L. Morgan, Esq. Customer No. 26389 CHRISTENSEN O'CONNOR JOHNSON KINDNESSPLLC 1420 Fifth Avenue, Suite 2800 Seattle, WA 98101-2347 206.682.8100	 8. Total fee (37 C.F.R. 3.41):\$40.00 Enclosed Check No. \$\sqrt{50.53.7}\$ includes the recordation fee. 9. The fee is authorized to be charged to Deposit Account No. 03-1740. (A duplicate copy of this page is enclosed.) 10. The Director is hereby authorized to charge any fees under 37 C.F.R. § 3.41 which may be required by this paper, or
11/2003 LIMETLER 00000104 10435097	credit any overpayment, to Deposit Account No. 03-1740. SE THIS SPACE
FE:10021 40.00 BP	72 1110 VA 110 U
Name of Attorney or Agent Registration No. 42,015	2 SEPTEMBER 2003 Signature Date mber of pages, including cover sheet, attachments, and document: 2
	the U.S. Postal Service in a sealed envelope as first class mail with ment Recordation Services, Director – U.S. Patent and Trademark w date.
klm:lpz	PATENT

REEL: 014471 FRAME: 0956

ASSIGNMENT

WHEREAS we, (1) Bruce F. Cockburn, whose address is 11704 - 32A Avenue, Edmonton, Alberta, T6J 3G8, Canada, (2) Mrinal K. Mandal, whose address is #1105, 10635 - 47 Avenue, Edmonton, Alberta, T6H 4R8, Canada, and (3) Hongyu Liao, whose address is #111, 10555 - 93 T5H 4C1, Canada, have made an invention entitled: Street, Edmonton. Alberta, IMPLEMENTATION OF DISCRETE WAVELET TRANSFORM USING LIFTING STEPS for which an application for United States Letters Patent, serial No. 10/435,499 was filed May 9, 2003, and for which an application for Canadian Letters Patent, serial No. 2,428,393 was filed May 9, 2003.

AND WHEREAS Telecommunications Research Laboratories, an Alberta corporation, of 7th Floor, 9107 - 116 Street, NW, Edmonton, Alberta, T6G 2V4, Canada (Assignee) has acquired from us the whole right, title, and interest for the United States of America and all other countries in the invention and in any Letters Patent that may be obtained for the invention and in the applications;

NOW THEREFORE, in consideration of the sum of Ten Dollars, and other good and valuable consideration, the receipt of all of which is hereby acknowledged, we each confirm that we have assigned to the Assignee and do hereby assign to the Assignee all of our interest in the invention in the United States of America and all other countries and all of our interest in any Letters Patent which may be granted for the invention, and all of our interest in the applications, and in any divisions, continuations, continuations-in-part and extensions of the applications.

We each agree that we will without further consideration, but at the expense of Assignee, do all such things and execute all such documents as may be necessary or desirable to obtain and maintain patents for said invention and for additions and modifications thereto in any and all countries, and to vest title thereto in said assignee, its successors, assigns and legal representatives or nominees and we authorize the Assignee to claim all rights of priority.

SIGNED at Edmonton, Alberta, Canada.

RECORDED: 09/08/2003

Bruce F. Cockburn

Mrinal K. Mandal

Witness:

Print witness name:

Witness:

Print witness name:

Witness

Print witness name

PATENT

REEL: 014471 FRAME: 0957