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FORM PTO-1595 F 100794759	U.S. DEPARTMENT OF COMMER Patent and Trademark Office Atty Docket No. 03384.0258-00000
To the Assistant Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.	ATTN. BOX ASSIGNMENTS
1. Name of conveying party(ies): Anurag Kumar Santosh P. Abraham Additional names(s) of conveying party(ies) attached? □ Yes ☒ No	2. Name and address of receiving party(ies) Name: Northern Telecom, Ltd. Internal Address: Street Address: World Trade Center of Montreal, 380 St. Antoine Street West, & Floor
3. Nature of conveyance:	City: Montreal State: Quebec Zip: H2Y 3Y4 Country: CANADA
Execution Date: June 18, 1998	Additional name(s) & address(es) attached? Yes
 Application number(s) or patent number(s): If this document is being filed together with a new application, A. Patent Application Nos.: 09/076,844 	the execution date of the application is:
Additional numbers attached?	YES X NO
5. Name and address of party to whom correspondence concerning document should be mailed:	Total number of applications and patent involved [1]
Name: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.	7. Total fee (37 CFR § 3.41): \$40.00
Internal Address:	 Enclosed Authorized to be charged to deposit account
Street Address: 1300 I Street, N.W.	8. Deposit account number: 06-0916

PATENT

REEL: 9378 FRAME: 0722

ASSIGNMENT

WHEREAS, the undersigned inventors, hereinafter called the "Assignor", has invented a new and useful invention entitled:

APPARATUS AND METHOD FOR OPTIMIZING MAX-MIN FAIR RATE CONTROL IN ABR SESSIONS

for which reference a full description is here made in an application for Letters Patent of the United States which filed on May 13, 1998, as United States Application Serial No. 09/076,844.

WHEREAS, NORTHERN TELECOM LIMITED, a Canadian company having a principal office and place of business at, World Trade Center of Montreal, 380 St. Antoine Street West, 8th floor, Montreal, Quebec H2Y 3Y4, Canada hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, and all Letters Patents that may issue for the said invention, and all divisions, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER, be it known that the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

Attorney Docket No. 03384.0258-04)000

And the Assignor does hereby covenant and agree, for himself and his legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, any facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignor has hereunto set his hands on the date indicated below.

Dated: June 18, 1998 X	Dring Kuman X
Dated: June 18, 1998X	Anurag Kumar 23, U.A.S. Layout R.M.V. Extension, Stage II Bangalore 560 094, INDIA
	Santosh P. Abraham 53, C.K. Gardens Thomas Town Bangalore 560 084, INDIA
Dated:	Greg M. Bernstein
	4417 Castanos St. Fremont, CA 94536

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Dated	Jeffery T. Gullicksen 3775 Flora Vista Ave., #403
	Santa Clara, CA 95051
Dated:	
Dated:	Gurpreet S. Chhabra
Dated:	Gurpreet S. Chhabra 1035 Aster Ave., #2124

PATENT REEL: 9378 FRAME: 0725