



06-16-1999



101067057
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

IEET

Our Docket No.: 13122

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

<p>1. Name of conveying party(ies):</p> <p>Chandra Sekhar Bontu, Yonghai Gu, Shavantha Kularatna & Peter Barany</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		<p>2. Name and address of receiving party(ies)</p> <p>Name: <u>Nortel Networks Corporation</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>World Trade Center of Montreal, 380 St. Antoine Street West, 8th Floor</u></p> <p>City: <u>Montreal</u> State: <u>Quebec</u> Zip: <u>H2Y 3Y4 CANADA</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>					
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: <u>05/12/99, 05/17/99, 06/04/99</u></p>							
<p>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: _____</p> <p>Title: <u>PHASE ENCODING METHODS FOR HANDLING MULTIPLE PHASE MODULATED SIGNALS ON A SINGLE CHANNEL</u></p> <table border="0"><tr><td>A. Patent Application No.(s)</td><td>B. Patent No.(s)</td></tr><tr><td><u>Serial No.: 09/306,434 filed: May 6, 1999</u></td><td></td></tr></table> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>				A. Patent Application No.(s)	B. Patent No.(s)	<u>Serial No.: 09/306,434 filed: May 6, 1999</u>	
A. Patent Application No.(s)	B. Patent No.(s)						
<u>Serial No.: 09/306,434 filed: May 6, 1999</u>							
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Ralph A. Dowell</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>Suite 309, 1215 Jefferson Davis Highway Arlington, VA 22202-3124 (703) 415-2555</u></p>		<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37CFR 3.41).....\$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: _____</p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>					
DO NOT USE THIS SPACE							
<p>9. Statement and signature.</p> <p><i>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.</i></p> <table border="0"><tr><td><u>Ralph A. Dowell 26,868</u> Name of Person signing</td><td><u>[Signature]</u> Signature</td><td><u>06/14/99</u> Date</td></tr></table> <p>Total number of pages including cover sheet, attachments and document: <u>2</u></p>				<u>Ralph A. Dowell 26,868</u> Name of Person signing	<u>[Signature]</u> Signature	<u>06/14/99</u> Date	
<u>Ralph A. Dowell 26,868</u> Name of Person signing	<u>[Signature]</u> Signature	<u>06/14/99</u> Date					

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

06/15/1999 MTHAI1 00000177 09306434

01 FC:581

40.00 DP

PATENT
REEL: 010017 FRAME: 0314

ASSIGNMENT NORTEL NETWORKS CORPORATION

For value received, I (we) the undersigned, whose full post office address(es) is (are) adjacent my (our) name(s), hereby sell, assign and transfer to:

whose address is:

NORTEL NETWORKS CORPORATION
World Trade Center of Montreal
380 St. Antoine Street West, 8th floor
Montreal, Quebec, H2Y 3Y4 Canada

its successors, assigns and legal representatives, the entire right, title and interest, including priority rights, for all countries, in and to certain inventions relating to:

PHASE ENCODING METHODS FOR HANDLING MULTIPLE PHASE MODULATED SIGNALS ON A SINGLE CHANNEL

set forth in an application for letters patent of the **UNITED STATES OF AMERICA**

Serial No. 09/306,434, filed on May 6, 1999

and all rights and privileges under any and all letters patent that may be granted for said inventions.

[Signature]
 Witness' Signature

GIRASSAN NAIM
 Witness' Name (print)

[Signature] Date: May 12, 99
 Chandra Sekhar Bontu
 18 Deerfield Dr., Apt 1606
 Nepean, Ontario, Canada K2G 4L1

[Signature]
 Witness' Signature

YUTING MA
 Witness' Name (print)

[Signature] Date: May 17, 1999
 Yonghai Gu
 8501 Willows Rd. N.E. Apt. E226
 Redmond, WA 98052 U.S.A.

[Signature]
 Witness' Signature

GIRASSAN NAIM
 Witness' Name (print)

A.S.A. Kularatna Date: 12/05/99
 Shavantha Kularatna
 1343 Meadowlands Dr., Apt. 1212
 Nepean, Ontario, Canada K2E 7E8

[Signature]
 Witness' Signature

MAVIN BERN
 Witness' Name (print)

[Signature] Date: 6/4/99
 Peter Barany
 830 Hills Creek Dr.,
 McKinney, Texas 75070, U.S.A.