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To the Assistant Commissioner of Patents. Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): Nigel James TOLSON</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)? NEC CORPORATION 7-1, Shiba 5-chome Minato-ku, Tokyo, Japan</p>
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<p>3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Names <input type="checkbox"/> Other</p>	<p>Additional name(s) & address(es) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>
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Execution Date: March 21, 2000

<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is:</p>	
<p>A. Patent Application No.(s) 09/433,347</p>	<p>B. Patent No.(s)</p>
<p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	

<p>5. Name and address of party to whom correspondence concerning document should be mailed: J. Frank Osha, Esq. SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Suite 800 Washington, D.C. 20037-3213</p>	<p>6. Total number of applications and registration involved: 1</p> <p>7. Total Fee (37 CFR 3.41): \$40.00 <input checked="" type="checkbox"/> Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880. <input type="checkbox"/> Authorized to be charged to Deposit Account</p> <p>8. Deposit Account No. 19-4880</p>
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<p>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.</p>	
<p><i>John Callahan</i> John Callahan Reg. No. 24,625</p>	<p>April 3, 2000 Date</p>

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2

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04/05/2000 CV0111 00000013 194880 09433347

02 FC:581

40.00 OP

PATENT
REEL: 010659 FRAME: 0854

Assignment

Whereas, ~~I/We~~, Nigel James TOLSON of
Berkshire, United Kingdom

hereinafter called assignor(s), have invented certain improvements in **DIGITAL TRANSMIT
LOOPS**

and executed an application for Letters Patent of the United States of America therefor on
March 21, 2000 ~~19~~ ; and

Whereas, NEC Corporation
7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to
any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

~~I/We~~, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its
successors and assigns, the entire right, title and interest in the application and the invention disclosed
therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and
~~I/we~~ request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth
in the application to the assignee, its successors and assigns; and ~~I/we~~ will execute without further
consideration all papers deemed necessary by the assignee in connection with the United States application
when called upon to do so by the assignee.

~~I/We~~ hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of
2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses (Application
number 09/433,347, filed 11/04/99) the filing date and application
number of said application when known.

Date: March 21, 2000 s/ N. J. Tolson
Nigel James TOLSON

Date: s/ _____

Date: s/ _____

Date: s/ _____

Date: s/ _____

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

8/92 Witness : Ann Ward
Louise Ansell.