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(Rev. 6-93)

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

1. Name of conveying party(ies):

Alberto GINESI, Christien BOURGET, and
Mohammad PAKRAVAN

2. Name and address of receiving party(ies):

Name: NORTHERN TELECOM LIMITED

Address: P.O. Box 6123, Station A, Montreal,
Quebec, Canada, H3C 3J5

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date:

December 18, 1998

Additional name(s) & addresses attached?

☐ Yes ☒ No

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:

December 18, 1998

A. Patent Application No.(s)

B. Patent No.(s)

Unassigned

09 218 054

Additional numbers attached?

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: R. John Haley
NORTHERN TELECOM LIMITED
Patent Department
Address: P.O. Box 3511, Station C
Ottawa, Ontario
Canada K1Y 4H7

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):

\$40.00

☐ Enclosed☒ Authorized to be charged to deposit account

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*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.*R. John Haley
Name of Person Signing

Signature

December 21, 1998
Date

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Mail documents to be recorded with required cover sheet information to:
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ASSIGNMENT NORTHERN TELECOM LIMITED

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:

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whose full post office address is: P.O Box 6123, Station A, Montreal, Quebec,
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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:

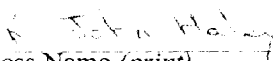
FRAME ALIGNMENT AND TIME DOMAIN EQUALIZATION FOR COMMUNICATIONS SYSTEMS USING MULTICARRIER MODULATION


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

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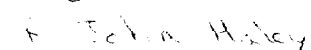

Witness Signature



Witness Name (print)


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Date
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☐ Additional Assignors on attached Page 2