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To the Honorable Commissioner of Patents and

1. Name of conveying party(ies):

JAMES ALLAN MCALEAR

Additional names(s) of conveying party(ies) Yes No

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

Name: Northern Telecom Limited

Address: P.O. Box 6123, Station A

10518 U.S. PTO
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11/10/98

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: November 5, 1998

City: Montreal State/Prov.: Quebec

Country: Canada ZIP: H3C 3J5

Additional name(s) & address(es) Yes No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: November 5, 1998

Patent Application No. Filing date 09189021

B. Patent No.(s)

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Additional numbers

Yes No

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

Name: James McGraw

Registration No. 28168

Address: Smart & Biggar, P.O. Box 2999, Station D,
55 Metcalfe Street, Suite 900

City: Ottawa State/Prov.: Ontario

Country: Canada ZIP: K1P 5Y6

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):.....\$ 40.00

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James McGraw (Reg. No. 28168)

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James McGraw
Signature

November 9, 1998

Date

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PATENT

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**HYBRID AMPLIFIER-REGENERATOR FOR OPTIMIZING CABLE NETWORK
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[Signature]
Witness' Signature

Setlor Zimac
Witness' Name (print)

James Allan McAlear Date: Nov 5, 1998.
James Allan McAlear
2 Lone Meadow Trail
Stittsville, Ontario, K2S 1C9, Canada
Assignor

Witness' Signature

Witness' Name (print)

_____ Date: _____, 1998.
Assignor

Witness' Signature

Witness' Name (print)

_____ Date: _____, 1998.
Assignor

Witness' Signature

Witness' Name (print)

_____ Date: _____, 1998.
Assignor