

12-22-1998

2 SHEET



To the Honorable Commissioner of Patents as

100927365

copy thereof

1. Name of conveying party(ies):

Jin, Gary Q.  
Reesor, Gordon J.  
Qian, Thomas

Additional name(s) of conveying party(ies) attached?  yes  no

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

Name: Mitel Corporation

Internal address: \_\_\_\_\_

Street Address P.O. Box 13089

350 Legget Drive

City Kanata State Ont. ZIP K2K 2W7

Country: Canada

Additional name(s) & address(es) attached?  yes  no

3. Nature of Conveyance

Assignment

Security Agreement

Other \_\_\_\_\_

Execution Date: Oct. 19/98; Oct. 26/98



12-17-98

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:

A. Patent Application No.(s)

09/175,881

B. Patent No.(s)

Additional numbers attached?  yes  no

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

Name: Marks & Clerk  
Internal Address: P.O. Box 957  
Station B

Street Address: Suite 1380  
55 Metcalfe Street  
City: Ottawa Province: Ontario ZIP K1P 5S7  
Country: Canada

6. Total number of applications and patents involved

1

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

Enclosed

Authorized to charge any deficiency to deposit account

8. Deposit Account number: 13-1717

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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

George M. MacGregor  
Name of Person Signing

Signature

December 16, 1998  
Date

OMB No. 0651-0011 (exp. 4/94)

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12/21/1998 DWNGUYEN 00000179 09175881

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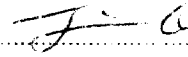
## ASSIGNMENT

WHEREAS, **Gary Q. JIN, Gordon J. REESOR and Thomas QIAN** residing at **51 Liston Crescent, Kanata, Ontario, K2L 2W3, Canada; 10 Bank Street, Russell, Ontario, K4R 1A9, Canada and 90 Woodridge Crescent, Apt. 411, Nepear, Ontario, K2B 7T1, Canada, respectively**, have invented improvements in **DOUBLE-TALK INSENSITIVE NLMS ALGORITHM** for which an application for United States Letters Patent has been executed by us even date herewith and

WHEREAS, **Mitel Corporation**, whose full post office address is **P.O. Box 13089, 350 Legget Drive, Kanata, Ontario, K2K 1X3, Canada**, as assignee is desirous of acquiring all right, title and interest in and to said invention and any Letters Patent that may be granted therefor.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I, as assignor hereby sell, assign and set over to said assignee the entire right, title and interest for the United States of America and all other countries, in and to said invention and the aforesaid application for Letters Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for themselves and their legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interference or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

Signed at Kanata this 19 day of October 1998

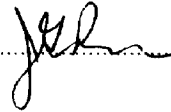


**Gary Q. JIN**

Helen Richardson

(Witness)

Signed at Kanata this 26 day of Oct 1998

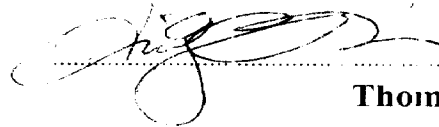


**Gordon J. REESOR**

Helen Richardson

(Witness)

Signed at Kanata this 26 day of Oct 1998



**Thomas QIAN**

Helen Richardson

(Witness)

Signed at ..... this ..... day of ..... 1998

(Witness)