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Name: NORTHERN TELECOM LIMITED

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

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Execution Date: November 23, 1998

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: November 23, 1998

A. Patent Application No.(s) \_\_\_\_\_

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

Name: Yoshiharu TOYOOKA  
NORTHERN TELECOM LIMITED  
Patent Department

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6. Total number of applications and patents involved: 1

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JC135 U.S. PTO  
 09/17/98  
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PATENT  
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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:

**A LARGE SCALE COMMUNICATIONS NETWORK HAVING A FULLY MESHED OPTICAL CORE TRANSPORT NETWORK**

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

executed concurrently herewith,

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

*[Handwritten Signature]*  
Witness Signature  
*[Handwritten Name]*  
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Date *Nov. 23, 1998*  
Assignor

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Additional Assignors on attached Page 2