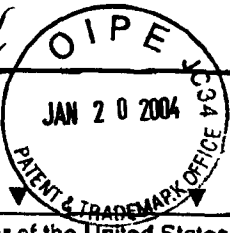


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Packet No.: 00430-0011

FORM PTO-1595 (Modified) (Rev. 03-01) OMB No. 0651-0027 (exp. 5/31/2002) PUB/REV03

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1. Name of conveying party(ies): SHIELDS, James A. 14 Aspen Grove, Ottawa, Ontario K2H 9A1 Canada Additional names(s) of conveying party(ies) [ ] Yes [X] No

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3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: August 20, 2002

4. Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/195,448 B. Patent No.(s) Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: John R. S. Orange Internal Address: Suite 4700, P.O. Box 190 Toronto-Dominion Centre, Toronto, Ontario Canada M5K 1H8 Street Address: McCarthy Tetrault, 66 Wellington St.W. Suite 4700, Toronto, Ontario City: Canada M5K 1H8 State: ZIP:

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$ 40.00 [ ] Enclosed - Any excess or insufficiency should be credited or debited to deposit account [X] Authorized to be charged to deposit account 8. Deposit account number: 150633

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. John R. S. Orange Name of Person Signing Signature Date 19/Jan 04 Total number of pages including cover sheet, attachments, and document:

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PATENT APPLICATION  
ASSIGNMENT

**FOR VALUABLE CONSIDERATION**, the receipt of which is hereby acknowledged, I the undersigned, whose full post office address is listed below my name, do hereby sell, assign and transfer to:

**NORTEL NETWORKS LIMITED**

(hereinafter "Nortel"), its successors, assigns and legal representatives, whose full post office address is:

2351 Boulevard Alfred-Nobel  
St. Laurent, Quebec  
Canada, H4S 2A9

all their right, title, and interest worldwide in and to the invention relating to

**Shared Mesh Signaling Method and Apparatus**

as described in an application for letters patent filed concurrently herewith or filed in United States of America on July 16, 2002 and given serial number 10/195,448, as well as all rights and privileges including priority rights arising from the aforesaid application and corresponding applications in other countries, all continuations, continuations-in-part, divisions, renewals, substitutes or reissues thereof, and all the rights and privileges under any and all letters patent that may be granted for said invention.

I undertake without charges to Nortel but at its request and expense to execute all documents, take all oaths and do all reasonable acts to enable Nortel, its successors assigns and legal representatives to procure and maintain patent or any other intellectual property protection for said invention in any and all countries and to vest title thereto to Nortel, its successors assigns and legal representatives.

THE UNDERSIGNED hereby authorizes the firm of ORANGE & CHARJ whose full office address is Suite 4900, P.O. Box 190, 66 Wellington St. W., Toronto, Ontario, M5K 1H6, Canada to correct clerical errors in this Assignment or to insert any further identification or other information necessary or desirable to make this Assignment suitable for recordal in a domestic or foreign Patent Office.

J. A. Shields  
James A. Shields  
14 Aspen Grove  
Ottawa, Ontario K2H 9A1  
Canada

8<sup>th</sup> August 2002  
(Insert Date)

J. Day  
Witness Signature

Nathalie Day  
Witness Name (Print)

Rev. July 1, 2002