



To the Honorable Commissioner of Patents and Trademarks
101106003
amounts or copy thereof

1. Name of conveying party(ies):
Bonneau, Marie-Claude
Vuleta, Stanko Gligorije
Additional name(s) of conveying party(ies) attached? yes no

2. Name and address of receiving party(ies):
Name: Newbridge Networks Corporation
Internal address: _____
Street Address: 600 March Road
P.O. Box 13600
City: Kanata State: Ont. ZIP: K2K 2E6
Country: Canada
Additional name(s) & address(es) attached? yes no

3. Nature of Conveyance
 Assignment
 Security Agreement
 Other _____
Execution Date: 07/14/99; 07/20/99

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: 07/14/99; 07/20/99
A. Patent Application No.(s)
09360648
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
(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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 [Signature] July 23, 1999
Name of Person Signing Signature Date

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

Do not detach this portion
Mail documents to be received with required cover sheet information to:
Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C 20231
07/30/1999 THRII 00000301 09360648
01 FC:581 40.00 OP

WHEREAS, **Marie-Claude BONNEAU and Stanko Gligorije VULETA** residing at **3-496 Nobert Street, Gatineau, Québec, J8R 2P8, Canada and 836 Riddell Avenue North, Ottawa, Ontario, K2A 2V9, Canada** respectively, have invented improvements in **SHAPING ALGORITHM** for which an application for United States Letters Patent has been executed by us even date herewith and

WHEREAS, **Newbridge Networks Corporation**, whose full post office address is **P.O. Box 13600, 600 March Road, Kanata, Ontario, K2K 2E6, 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 14 day of July 1999

Marie-Claude BONNEAU
Marie-Claude BONNEAU

A. Hubers
(Witness)

Signed at Kanata this 20 day of July 1999

[Signature]
Stanko Gligorije VULETA

A. Hubers
(Witness)

Signed at this day of 1999

.....
.....
(Witness)

Signed at this day of 1999

.....
.....
(Witness)