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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Dawn Finn and George Jeffrey Additional names(s) of conveying party(ies) [] Yes [x] No

2. Name and address of receiving party(ies): Name: Zarlink Semiconductor Inc. Address: 400 March Road

3. Nature of conveyance: [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: 9-October-2001

City: Ottawa State/Prov.: Ontario Country: Canada ZIP: K2K 3H4 Additional name(s) & address(es) [] Yes [x] No

4. Application number(s) or patent numbers(s): Patent Application No. 09/950,673 Filing date 13-September-2001 Additional numbers [] Yes [] No

If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) [] Yes [] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Richard J. Mitchell Registration No. 34,519 Address: Marks & Clerk P.O. Box 957, Station B City: Ottawa State/Prov.: Ontario Country: Canada ZIP: K1P 5S7

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$ 40.00 [x] Enclosed - Any excess or insufficiency should be credited or debited to deposit account [] Authorized to be charged to deposit account 8. Deposit account number: 13-1717 (Attach duplicate copy of this page if paying by deposit account)

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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. Richard J. Mitchell Signature Date 21-November-2001

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Total number of pages including cover sheet, attachments, and documents to be recorded with required cover sheet information to: 40.00

5 Date

01 FC:581 Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

ASSIGNMENT

47 Newcastle Avenue R 21

WHEREAS, Dawn Finn and George Jeffrey, residing at ~~28 Aintree Place,~~ Kanata, Ontario, Canada and 11 Bridlegate Place, Nepean, Ontario, Canada, have invented improvements in **METHOD OF VALIDATING DATA IN CIRCULAR BUFFERS**, for which an application for United States Letters Patent has been executed by us on even date hereon

WHEREAS, *ZARLINK SEMICONDUCTOR INC.*, whose full post office address is 400 March Road, Kanata, Ontario, K2K 3H4, 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 for by said assignee.

Signed at Kanata, Ontario this 9th day of October 2001

Dawn Finn

Dawn Finn

Monique Allen

(Witness)

Signed at Kanata this 9th day of October 2001

George Jeffrey

George Jeffrey

Monique Allen

(Witness)