

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027

07-14-2005



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U.S. Department of Commerce  
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**PATENT**

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TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

**Submission Type**

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Resubmission (Non-Recordation)  
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Correction of PTO Error  
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Corrective Document  
Reel # **013558** Frame # **0209**

**Conveyance Type**

Assignment  Security Agreement

License  Change of Name

Merger  Other \_\_\_\_\_

**U.S. Government**  
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**Conveying Party(ies)**

Mark if additional names of conveying parties attached Execution Date  
Month Day Year

Name (line 1) **PETER EDWARD CHADWICK** 11/11/2002

Name (line 2) \_\_\_\_\_

**Second Party**

Execution Date  
Month Day Year

Name (line 1) \_\_\_\_\_

Name (line 2) \_\_\_\_\_

**Receiving Party**

Mark if additional names of receiving parties attached

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 1) **ZARLINK SEMICONDUCTOR LIMITED**

Name (line 2) \_\_\_\_\_

Address (line 1) **CHENEY MANOR**

Address (line 2) **SWINDON, WILTSHIRE, ENGLAND SN2 2QW**

Address (line 3) \_\_\_\_\_ City \_\_\_\_\_ State/Country \_\_\_\_\_ Zip Code \_\_\_\_\_

**Domestic Representative Name and Address**

Enter for the first Receiving Party only.

Name \_\_\_\_\_

Address (line 1) \_\_\_\_\_

Address (line 2) \_\_\_\_\_

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Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:

Mail Stop Assignment Recordation Services, Director of the U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450

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Name

Address (line 1)

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**Pages** Enter the total number of pages of the attached conveyance document including any attachments. #

**Application Number(s) or Patent Number(s)**  Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

**Patent Number(s)**

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If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

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**Number of Properties** Enter the total number of properties involved. #

**Fee Amount** Fee Amount for Properties Listed (37 CFR 3.41): \$

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Authorization to charge additional fees: Yes  No

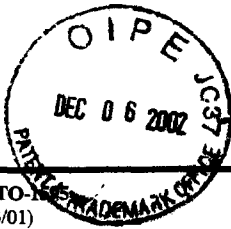
**Statement and Signature**

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. Charges to deposit account are authorized, as indicated herein.

*James M. Bagarzi*  
Name of Person Signing

Signature

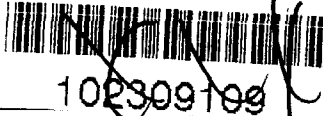
*July 8, 2005*  
Date



12-12-2002

NO.: WRZ-6

Form PTO-101 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002) Tab settings



U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): PETER GRAHAM LAWS

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

Internal Address:

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger Security Agreement Change of Name Other

Street Address: Cheney Manor Swindon, Wiltshire, England SN2 2QW

City: State: Zip:

Execution Date: 11 November 2002

Additional name(s) & address(es) attached? Yes No

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) 10/267,905

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Dority & Manning, P.A.

Internal Address:

Street Address: Post Office Box 1449

City: Greenville State: SC Zip: 29602-1449

6. Total number of applications and patents involved: 1

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

- Enclosed Authorized to be charged to deposit account

8. Deposit account number:

04-1403

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9. Signature.

James M. Bagarazzi Name of Person Signing

James M. Bagarazzi Signature

12-6-02 Date

Total number of pages including cover sheet, attachments, and documents: 4

Mall documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

12/10/2002 NMDHAMM1 00000121 10267905

03 FG:8021

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ATTORNEY DOCKET NO.: WRZ-6

INVENTORS' ASSIGNMENT OF WORLDWIDE RIGHTS

WHEREAS, I, PETER EDWARD CHADWICK, a citizen of Great Britain, residing at Three Oaks, Braydon, Swindon, SN5 0AD, England, as ASSIGNOR, have invented the inventive subject matter described in United States Patent Application Serial No. 10/267,905 filed on October 9, 2002, entitled A POLAR LOOP TRANSMITTER; and

WHEREAS, Zarlink Semiconductor Limited, a British corporation, whose post office address is Cheney Manor, Swindon, Wiltshire, England, SN2 2QW, as ASSIGNEE, is desirous of securing my entire right, title, and interest in and to this inventive subject matter in all countries throughout the world, and in and to the application for United States Letters Patent on this inventive subject matter and the Letters Patent to be issued upon this application and any divisionals and continuations thereof;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration, the receipt of which from ASSIGNEE is hereby acknowledged, I, as ASSIGNOR, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the ASSIGNEE, its lawful successors and assigns, my entire right, title, and interest in and to this inventive subject matter and this patent application, and all divisions and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the

basis of such application, and all applications for Letters Patent which may hereafter be filed for this inventive subject matter in any foreign country and all Letters Patent which may be granted on this inventive subject matter in any foreign country, and all extensions, renewals, and reissues thereof, and I hereby authorize and request the Commissioner of Patents of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this inventive subject matter to ASSIGNEE, its successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not made and will not make any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with ASSIGNEE, its successors and assigns, any facts known to me respecting this inventive subject matter, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title of this inventive subject matter in said ASSIGNEE, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and declarations and generally do everything possible to aid ASSIGNEE, its successors and assigns, to obtain and enforce proper patent protection for this inventive subject matter in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the ASSIGNEE, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand on the date indicated

below my signature.



PETER EDWARD CHADWICK

11 Nov 2002

DATE