

06-24-2005  
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

(1) Steve L. Pope, (2) Derek Roberts, (3) David J. Riddoch,  
(4) Ching Yu, (5) John Mingyung Chiang and (6) Der-Ren Chu

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 16 June 2005 and 17 June 2005

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: Level 5 Networks, Inc.

Internal Address: \_\_\_\_\_

Street Address: 840 West California Avenue, Suite 240

City: Sunnyvale

State: California

Country: United States of America Zip: 94086

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

**4. Application or patent number(s):**

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Warren S. Wolfeld

Internal Address: Haynes, Beffel & Wolfeld LLP

Street Address: P.O. Box 366

City: Half Moon Bay

State: California Zip: 94019

Phone Number: (650) 712-0340

Fax Number: (650) 712-0263

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☒ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number \_\_\_\_\_  
Authorized User Name \_\_\_\_\_

**9. Signature:**

Warren S. Wolfeld  
Signature

17 June 2005

Date

Warren S. Wolfeld  
Name of Person Signing

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

5

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

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PATENT  
REEL: 016708 FRAME: 0307

Atty Docket No.: LVL5 2007-1

**JOINT TO CORPORATE  
ASSIGNMENT**

WHEREAS, the undersigned,

- |  |   |
|--|---|
| (1) Steve L. Pope<br>25 Greville Road<br>Cambridge<br>CB1 3QJ<br>UNITED KINGDOM      | (2) Derek Roberts<br>25 Metcalfe Road<br>Cambridge<br>CB4 2DB<br>UNITED KINGDOM |
| (3) David J. Riddoch<br>68 Tenison Road<br>Cambridge<br>CB1 2DW<br>UNITED KINGDOM    | (4) Ching Yu<br>2952 Gala Court<br>Santa Clara, CA 95051<br>UNITED STATES       |
| (5) John Mingyung Chiang<br>1975 Nutmeg Court<br>San Jose, CA 95131<br>UNITED STATES | (6) Der-Ren Chu<br>6237 Empress Court<br>San Jose, CA 95129<br>UNITED STATES    |

hereinafter termed "Inventors", have invented certain new and useful improvements in

**DMA DESCRIPTOR QUEUE READ AND CACHE  
WRITE POINTER ARRANGEMENT**

and have filed a UTILITY PATENT APPLICATION for a United States patent disclosing and identifying the above invention on \_\_\_\_\_ 2005 as Application No. \_\_\_\_\_, OR are filing such an application herewith, and have executed an oath or declaration of inventorship for such utility patent application on (please fill in the date each inventor signed the Declaration):

- (1) the 17 day of June, 2005  
(2) the 16 day of June, 2005  
(3) the 17 day of June, 2005  
(4) the 16 day of June, 2005  
(5) the 16 day of June, 2005  
(6) the 16 day of June, 2005

(hereinafter termed "application"); and

WHEREAS, **Level 5 Networks, Inc.**, a Delaware corporation, having a place of business at **840 West California Avenue, Suite 240, Sunnyvale, CA 94086, USA** (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said applications

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and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventor (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said applications and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

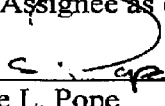
2. Said Inventors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, the inventors' respective heirs, legal representatives and assigns.

## Atty Docket No.: LVL5 2007-1

4. Said Inventors hereby warrant and represent that said inventors have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

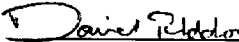
IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the date written below.

  
\_\_\_\_\_  
Steve L. Pope

Date: 17/6/05

\_\_\_\_\_  
Derek Roberts

Date: \_\_\_\_\_

  
\_\_\_\_\_  
David J. Riddoch

Date: 17/6/05

\_\_\_\_\_  
Ching Yu

Date: \_\_\_\_\_

\_\_\_\_\_  
John Mingyung Chiang

Date: \_\_\_\_\_

\_\_\_\_\_  
Der-Ren Chu

Date: \_\_\_\_\_

Atty Docket No.: LVL5 2007-1

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IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the date written below.

\_\_\_\_\_  
Steve L. Pope

Date: \_\_\_\_\_

→ \_\_\_\_\_  
Derek Roberts

→ \_\_\_\_\_  
Date: \_\_\_\_\_

\_\_\_\_\_ *D J Riddoch*  
David J. Riddoch

Date: 16/06/05

\_\_\_\_\_ *Ching Yu*  
Ching Yu

Date: June 16, 2005

\_\_\_\_\_ *John Chiang*  
John Mingyung Chiang

Date: 6/16/2005

\_\_\_\_\_ *Der-Ren Chu*  
Der-Ren Chu

Date: June 16, 2005