

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Steve Pope</td> <td>04/14/2005</td> </tr> <tr> <td>David Riddoch</td> <td>04/11/2005</td> </tr> <tr> <td>Ching Yu</td> <td>04/12/2005</td> </tr> <tr> <td>Derek Roberts</td> <td>04/11/2005</td> </tr> </tbody> </table>		Name	Execution Date	Steve Pope	04/14/2005	David Riddoch	04/11/2005	Ching Yu	04/12/2005	Derek Roberts	04/11/2005
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Steve Pope	04/14/2005										
David Riddoch	04/11/2005										
Ching Yu	04/12/2005										
Derek Roberts	04/11/2005										
<b>RECEIVING PARTY DATA</b>											
<b>Name:</b>	Level 5 Networks, Inc.										
<b>Street Address:</b>	840 West California Avenue, Suite 240										
<b>City:</b>	Sunnyvale										
<b>State/Country:</b>	CALIFORNIA										
<b>Postal Code:</b>	94086										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11050474</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11050474						
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Application Number:	11050474										
<b>CORRESPONDENCE DATA</b>											
<b>Fax Number:</b>	(650)712-0263										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
<b>Phone:</b>	(650) 712-0340										
<b>Email:</b>	wwolfeld@hmbay.com										
<b>Correspondent Name:</b>	Warren S. Wolfeld										
<b>Address Line 1:</b>	P.O. Box 366, 751 Kelly Street										
<b>Address Line 4:</b>	Half Moon Bay, CALIFORNIA 94019										
<b>NAME OF SUBMITTER:</b>	Warren S. Wolfeld										

**CH \$40.00 11050474**

**Total Attachments: 5**  
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source=Joint Assignment as filed#page5.tif

**JOINT TO CORPORATE  
ASSIGNMENT**

WHEREAS, the undersigned,

- |                                                                              |                                                                                 |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| (1) Steve Pope<br>25 Greville Road<br>Cambridge<br>CB1 3QJ<br>UNITED KINGDOM | (2) David Riddoch<br>68 Tenison Road<br>Cambridge<br>CB1 2DW<br>UNITED KINGDOM  |
| (3) Ching Yu<br>2952 Gala Court<br>Santa Clara, CA 95051<br>UNITED STATES    | (4) Derek Roberts<br>25 Metcalfe Road<br>Cambridge<br>CB4 2DB<br>UNITED KINGDOM |

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

**INCLUDING DESCRIPTOR QUEUE EMPTY EVENTS  
IN COMPLETION EVENTS**

and have filed a UTILITY PATENT APPLICATION for a United States patent disclosing and identifying the above invention on 03 February 2005 as Application No. 11/050,474, and have executed an oath or declaration of inventorship for such utility patent application on:

(1) the 14<sup>th</sup> day of APRIL, 2005; (2) 11<sup>th</sup> DAY of APRIL 2005

(hereinafter termed "applications"); and

(3) 12<sup>th</sup> DAY of APRIL 2005

(4) 11<sup>th</sup> DAY of APRIL 2005

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 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:

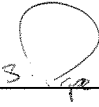
1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said applications and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection 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.

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 Pope

Date: 14/3/05

\_\_\_\_\_  
David Riddoch

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

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

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

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

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

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.

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\_\_\_\_\_  
Steve Pope Date: \_\_\_\_\_

David Riddoch  
David Riddoch Date: 11/4/05

\_\_\_\_\_  
Ching Yu Date: \_\_\_\_\_

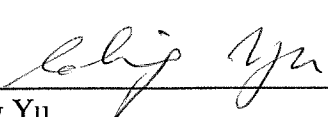
\_\_\_\_\_  
Derek Roberts Date: \_\_\_\_\_

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_____	Date: _____
Steve Pope	
_____	Date: _____
David Riddoch	
 _____	Date: <u>April 12, 2005</u>
Ching Yu	
_____	Date: _____
Derek Roberts	

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\_\_\_\_\_  
Steve Pope

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

\_\_\_\_\_  
David Riddoch

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

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

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

*D. E. Blum*  
\_\_\_\_\_  
Derek Roberts

Date: 11 April 2005