

01-17-2006

Form PTO-1595 (Rev. 03/05)
OMB No. 0651-0027 (exp. 6/30/2005)U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

103159258

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)Steve L. Pope; Derek Roberts; David J. Riddoch; Ching Yu;
John Mingyung Chiang; Der-Ren ChuAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) December 7, 8, 8, 7, 7, 2005 respectively

- ☒ 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 240City: SunnyvaleState: CaliforniaCountry: U.S.A. Zip: 94086Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**

A. Patent Application No.(s)

11/255,124☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Warren S. WolfeldInternal Address: HAYNES BEFFEL & WOLFELD LLPStreet Address: P.O. Box 366751 Kelly StreetCity: Half Moon BayState: California Zip: 94109Phone Number: (650) 712-0340Fax Number: (650) 712-0263Email Address: wwolfeld@hmbay.com**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 Informationa. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number _____

Authorized User Name _____

9. Signature:Warren S. Wolfeld

Signature

January 3, 2006

Date

01/13/2006

DBYRNE 00000283 11255124

Warren S. Wolfeld, Reg. No. 31,454

Name of Person Signing

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

8

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. 22313-1450PATENT
REEL: 017450 FRAME: 0166



**JOINT TO CORPORATE
ASSIGNMENT**

WHEREAS, the undersigned,

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

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

HASHING ALGORITHM FOR NETWORK RECEIVE FILTERING

and have filed a UTILITY PATENT APPLICATION for a United States patent disclosing and identifying the above invention on **October 20, 2005** as Application No. **11/255,124**, 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 7th day of December 2005
- (2) the 8th day of December 2005
- (3) the 8th day December 2005
- (4) the 7th day of December 2005
- (5) the 7th day of December 2005
- (6) the 7th day of December 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 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 L. Pope

Date: 7/12/05

Derek Roberts

Date: _____

David J. Riddoch

Date: _____

Ching Yu

Date: _____

John Mingyung Chiang

Date: _____

Der-Ren Chu

Date: _____

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: _____

D. E. Roberts

Derek Roberts

Date: 8/12/05

David J. Riddoch

David J. Riddoch

Date: 8/12/05

Ching Yu

Date: _____

John Mingyung Chiang

Date: _____

Der-Ren Chu

Date: _____

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Steve L. Pope

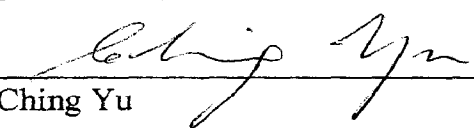
Date: _____

Derek Roberts

Date: _____

David J. Riddoch

Date: _____


Ching Yu

Date: Dec. 7, 2005

John Mingyung Chiang

Date: _____

Der-Ren Chu

Date: _____

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Steve L. Pope

Date: _____

Derek Roberts

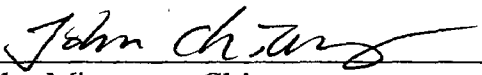
Date: _____

David J. Riddoch

Date: _____

Ching Yu

Date: _____



John Mingyung Chiang

Date: 12/7/2005

Der-Ren Chu

Date: _____

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: _____

Derek Roberts

Date: _____

David J. Riddoch

Date: _____

Ching Yu

Date: _____

John Mingyung Chiang

Date: _____



Der-Ren Chu

Date: 12/7/2005