

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | WILLIAM E. HOPKINS | 03/22/2007 |
| RECEIVING PARTY DATA | | |
| Name: | LEVEL 3 COMMUNICATIONS, LLC | |
| Street Address: | 1025 ELDORADO BLVD. | |
| City: | BROOMFIELD | |
| State/Country: | COLORADO | |
| Postal Code: | 80021 | |
| PROPERTY NUMBERS Total: 1 | | |
| Property Type | Number | |
| Application Number: | 15269637 | |
| CORRESPONDENCE DATA | | |
| Fax Number: | (720)888-5619 | |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | | |
| Email: | kathleen.mcinnish@level3.com | |
| Correspondent Name: | JONATHAN C. SIEKMANN | |
| Address Line 1: | 1025 ELDORADO BLVD. | |
| Address Line 4: | BROOMFIELD, COLORADO 80021 | |
| ATTORNEY DOCKET NUMBER: | 60-US-I1-D1 | |
| NAME OF SUBMITTER: | JONATHAN C. SIEKMANN | |
| SIGNATURE: | /Jonathan C. Siekmann/ | |
| DATE SIGNED: | 09/20/2016 | |
| Total Attachments: 2 | | |
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| source=0060USI1D1_assignment#page2.tif | | |

ASSIGNMENT

WHEREAS, I, **William E. Hopkins**, residing at 12287 Krameria Street, Brighton, Colorado 80602, have invented a certain new and useful invention entitled "**LOCK-FREE DUAL QUEUE WITH CONDITION SYNCHRONIZATION AND TIME-OUTS**" for which an application for Letters Patent of the United States has been prepared and filed on December 30, 2006, receiving Application No. 11/618,814, and further identified as Attorney Docket No. **519-060-CIP1**;

NOW THEREFORE, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto **Level 3 Communications, LLC** ("Company"), a limited liability company organized and existing under the laws of the State of Delaware, having its principal office at 1025 Eldorado Boulevard, Broomfield, Colorado 80021, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by me (provided any such improvement is made during, or within one year after the termination of, the employment by said Company of myself), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to said Company, as the

Atty. Docket No.: 74120-342970

assignee of the entire right, title, and interest therein.

IN WITNESS WHEREOF, I have hereunto signed my name on the day and year set forth below:

Date: 3/22/2007



William E. Hopkins

STATE OF Colorado)
COUNTY OF Broomfield) ss.

Before me, a Notary Public in and for said County and State, personally appeared **William E. Hopkins**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this _____ day of _____, 2007.

Notary Public

My Commission Expires: