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102909121

To the Honorable Commissioner of Patents and Trademarks. Please return the original documents or copy thereof.

1. Name of conveying party(ies):

Richard D. Terpstra
Daryl W. Malas

2. Name and address of receiving party(ies)

Name: Level 3 Communications, Inc.

Internal Address: _____

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Street Address: 1025 Eldorado Boulevard

City: Broomfield State: CO Zip: 80021

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

Execution Date: December 8, 2004

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: December 8, 2004

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Douglas M. Hamilton

Internal Address: _____

Street Address: 2200 Wells Fargo Center

90 South 7th Street

City: Minneapolis State: MN Zip: 55402

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:

(Attach duplicate copy of this page if paying by deposit account)

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9. 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.

Douglas M. Hamilton
Name of Person Signing

[Signature]
Signature

December 9, 2004
Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

12/15/2004 WASFAW1 00000002 11009204

03 DEC 2004

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ASSIGNMENT

Attorney Docket No.: 74120-309648

Page 1 of 2

First Named Inventor: Robert A. Hagens et al.

Title: SYSTEMS AND METHODS FOR DYNAMICALLY
REGISTERING ENDPOINTS IN A
COMMUNICATION NETWORK

WHEREAS, we, **Richard D. Terpstra** residing at 3001 North Torrey's Peak Drive, Superior, Colorado 80027; and **Daryl W. Malas**, residing at 4667 Winona Place, Broomfield, Colorado 80020, have invented certain new and useful improvements as described in an application for a United States Patent entitled **SYSTEMS AND METHODS FOR DYNAMICALLY REGISTERING ENDPOINTS IN A COMMUNICATION NETWORK**, which application may be identified in the United States Patent Office as U.S. Patent Application Serial No. ____/_____, filed on _____ (Attorney Docket No. 74120-309648); and

WHEREAS, **Level 3 Communications, Inc.** a corporation organized and existing under the laws of the State of Delaware, and having offices at 1025 Eldorado Boulevard, Broomfield, Colorado 80021, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the application, and any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, we transfer to Assignee, its successors and assigns, our entire right, title, and interest in and to the invention, the above-identified patent application, corresponding domestic applications (including divisionals, continuations, and continuations-in-part), corresponding foreign applications, all Letters Patent or similar legal protection issuing thereon, and all rights and benefits under any applicable treaty or convention; and we authorize the Commissioner of Patents and Trademarks of the United States or foreign equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.

We authorize the Assignee, its successors and assigns, to insert in this instrument the filing dates and application numbers of the applications when ascertained. We authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries.

We represent to the Assignee, its successors and assigns, that we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. We, our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.

ASSIGNMENT

Attorney Docket No.: 74120-309648

Page 2 of 2

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Title: SYSTEMS AND METHODS FOR DYNAMICALLY
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COMMUNICATION NETWORK

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal on the date indicated below:

Dated: 12-8-2004

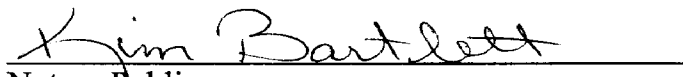

Richard D. Terpstra

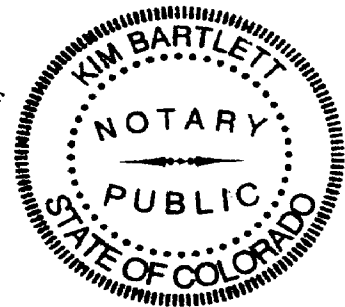
CERTIFICATE OF ACKNOWLEDGMENT

STATE OF Colorado

COUNTY OF Broomfield SS.


Subscribed and sworn to before me, a Notary Public, this 8th day of
December, 2004


Notary Public
My Commission Expires: 9-30-06



IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal on the date indicated below:

Dated: 12-08-04

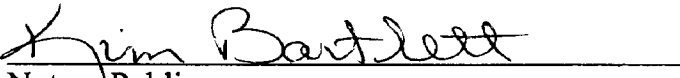

Daryl W. Malas

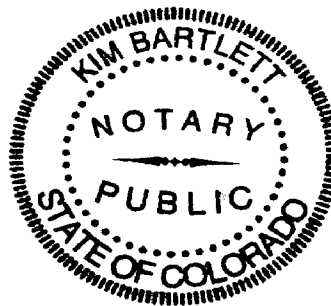
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We authorize the Assignee, its successors and assigns, to insert in this instrument the filing dates and application numbers of the applications when ascertained. We authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries.

We represent to the Assignee, its successors and assigns, that we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. We, our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.

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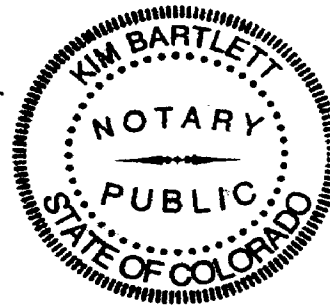

Richard D. Terpstra

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STATE OF Colorado
COUNTY OF Broomfield ^{SS.}


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Notary Public
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Daryl W. Malas

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