PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Brett P. Hollman	01/24/2002
Jeffrey L. Martin	01/24/2002
George T. Joseph	01/25/2002
Alex J. Henes	01/24/2002
Christopher M. Bonewitz	01/24/2002
Kaveh Asalian	01/24/2002
Geoff Yaworski	01/24/2002
Gary L. Ryczek	01/24/2002
Colin Train	01/24/2002

RECEIVING PARTY DATA

Name:	Level 3 Communications
Street Address:	1025 Eldorado Blvd.
City:	Broomfield
State/Country:	COLORADO
Postal Code:	80021

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12554835

CORRESPONDENCE DATA

Fax Number: (720)377-0779

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

720-377-0770 Phone:

Email: smcpeak@hkh-law.com Correspondent Name: Thomas J. Osborne, Jr. Address Line 1: 1660 Lincoln Street

Address Line 2: Hensley Kim & Holzer, LLC

PATENT

REEL: 023343 FRAME: 0287

Address Line 4: Denver, COLORADO 80264		
ATTORNEY DOCKET NUMBER:	519-011-CP4	
NAME OF SUBMITTER:	Thomas J. Osborne, Jr.	
Total Attachments: 6 source=ASSIGNMENT_FROM_PARENT_519_011_CP4#page1.tif source=ASSIGNMENT_FROM_PARENT_519_011_CP4#page2.tif source=ASSIGNMENT_FROM_PARENT_519_011_CP4#page3.tif source=ASSIGNMENT_FROM_PARENT_519_011_CP4#page4.tif source=ASSIGNMENT_FROM_PARENT_519_011_CP4#page5.tif source=ASSIGNMENT_FROM_PARENT_519_011_CP4#page6.tif		

PATENT REEL: 023343 FRAME: 0288

ASSIGNMENT

WHEREAS, we, Brett P. Hollman, residing at 2039 West Centennial Drive, Louisville, CO 80027, Jeffrey L. Martin, residing at 5851 Teal Street, Frederick, CO 80504, George T. Joseph, residing at 1620 Platte St., Apt. 227, Denver, CO 80202, Alex J. Henes, residing at 3763 Osceola Street, Denver, CO 80212, Christopher M. Bonewitz, residing at 29538 Loomis Way, Golden, CO 80403, Kaveh Asalian, residing at 633 Eldorado Blvd., Apt. # 1035, Broomfield, CO 80021, Geoff R. Yaworski, residing at 1438 Grape St., Denver, CO 80220, Gary L. Ryczek, residing at 1391 Lasalle Street, Superior, CO 80027 and Colin G. Train, residing at 19622 East Fair Place, Aurora, CO 80016, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States on January 25, 2002, which is entitled ROUTING ENGINE FOR TELECOMMUNICATIONS NETWORK.

AND WHEREAS, Level (3) Communications, a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 1025 Eldorado Blvd., Broomfield, CO 80021 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the

PATENT REEL: 023343 FRAME: 0289 Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 24th day of January, 20002.

Brett P. Hollman

STATE OF <u>Colorado</u>) ss. COUNTY OF <u>Broom field</u>)

On this <u>24/7</u>day of January, 2002, before me personally appeared Brett P. Hollman to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public M. Was Hach

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PATENT REEL: 023343 FRAME: 0290

IN TESTIMONY WHEREOF, I have hereunto set my hand this 24 day of January, 2002. STATE OF <u>Colorado</u>) ss. COUNTY OF <u>Broomfield</u>) On this 24th day of January, 2002, before me personally appeared Jeffrey L. Martin to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth. [SEAL] IN TESTIMONY WHEREOF, I have hereunto set my hand this 35 day of January, 2002. STATE OF <u>Colorado</u>) ss. COUNTY OF <u>Lenver</u>) On this 35 th day of January, 2002, before me personally appeared George T. Joseph to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth. Growne P. Robinson [SEAL] YVONNE P. ROBINSON

NOTARY PUBLIC
STATE OF COLORADO

My Commission Expires 02/04/2004

IN TESTIMONY WHER	EOF, I have hereunto set my hand this 24 day of
January, 2002.	day of
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	107/
	\$ / Hener
	Alex J. Henes
STATE OF <u>Colorado</u>)	
STATE OF <u>Colorado</u>) ss. COUNTY OF <u>Broom (iela</u>)	
On this 24 Mday of Jan	mary, 2002, before me personally appeared Alex J.
	be the person described in and who executed the
	wledged to me that he executed the same for the uses
and purposes therein set forth.	wicaged to the that he executed the same for the uses
and purposes merent set form.	
[SEAL]	1 have the
[CLAL]	Notary Public M. Westlich
IN TESTIMONY WHERE	EOF, I have hereunto set my hand this <u>24</u> day of
January, 2002.	day of
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	$-\Omega d/d\rho$
	Caral //ns
	Michael Bonewitz
STATE OF <u>Colorado</u>)	
STATE OF <u>Colorado</u>) ss. COUNTY OF <u>Broomfie</u> (4)	
On this 24 Kday of Jan	uary, 2002, before me personally appeared Michael
Bonewitz to me known and known to me	to be the person described in and who executed the
and purposes therein set forth.	vledged to me that he executed the same for the uses
and parposes merent set form.	
[SEAL]	Lacris M. Westah
[01.7(12)	Notary Public
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IN TESTIMONY WHEREOF, I have hereunto set my hand this 24 day of January, 2002. STATE OF <u>Colora do</u>) ss.
COUNTY OF <u>Broom Fisla</u>) On this 2473 day of January, 2002, before me personally appeared Kaveh Asalian to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth. [SEAL] IN TESTIMONY WHEREOF, I have hereunto set my hand this 24 day of January, 2002. STATE OF Zolorado) ss.
COUNTY OF Broomfield) On this 2476 day of January, 2002, before me personally appeared Geoff foregoing instrument, and he duly acknowledged to me that he executed the same for the uses

Yaworski to me known and known to me to be the person described in and who executed the and purposes therein set forth.

[SEAL]

Notary Public

	oF, I have hereunto set my hand this 24th day of
January, 2002.	\mathcal{A}
	Jag E. Yall
	Gary L. Ryczek
STATE OF <u>Colorado</u>)	
STATE OF <u>Colorado</u>) ss. COUNTY OF <u>Broom Siel9</u>)	
On this <u>2477</u> day of Janua	ry, 2002, before me personally appeared Gary L.
	e the person described in and who executed the
	edged to me that he executed the same for the uses
and purposes therein set forth.	c and the discs
[SEAL]	Lauris M. Westah
	Notary Public
	and the second of the second o
IN TESTIMONY WHEREC January, 2002.	F, I have hereunto set my hand this 24 day of
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	Cola. Tran.
	Colin Train
STATE OF <u>Colorado</u>) ss. COUNTY OF <u>Broom Fielq</u>)	
COUNTY OF Base C. (1)	
COUNTY OF Browner 219	
On this <u>2472</u> day of Janua	ry, 2002, before me personally appeared Colin Train
	son described in and who executed the foregoing
	e that he executed the same for the uses and purposes
therein set forth.	r in process
[SEAL]	Notary Public
	Notary Public
	g of the second

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RECORDED: 10/08/2009