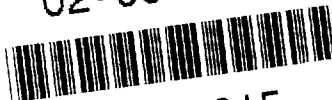


02-06-2002



101973915

To the Commissioner of Patents and Trademarks: Please record the original documents or copy thereof.

1. Name of conveying party(ies):

Brett P. Hollman
Jeffrey L. Martin
George T. Joseph
Alex J. Henes
Christopher M. Bonewitz

Kaveh Asalian
Geoff R. Yaworski
Gary L. Ryczek
Colin G. Train

1-25-02

2. Name and address of receiving party(ies):

Level (3) Communications
1025 Eldorado Blvd.
Broomfield, CO 80021



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

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

3. Nature of conveyance:

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

Execution Date: January 25, 2002

4. Application number(s) or patent number(s):

10,057 362

If this document is being filed together with a new application, the execution date of the application is: January 25, 2002

A. Patent Application No.(s)

40256.2-US-01

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Homer L. Knearl
Address: Merchant & Gould P.C.
P.O. Box 2903
Minneapolis, MN 55402-0903



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. Please charge any additional fees or credit any overpayments to our Deposit account number: 13-2725

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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.

David D. Wier

Name of Person Signing

Signature

January 25, 2002

Date

Total number of pages including cover sheet, attachments, and document: 8

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02/05/2002 T01A21 00000271 10057362

01 FC:581

40.00 OP

PATENT
REEL: 012538 FRAME: 0122

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~~ ^{1390 S. Marion St. Denver CO 80210} 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

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, 2002.

Brett P. Hollman
Brett P. Hollman

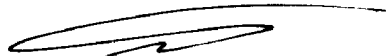
STATE OF Colorado)
) ss.
COUNTY OF Broomfield)

On this 24th 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]

Lance M. West
Notary Public


IN TESTIMONY WHEREOF, I have hereunto set my hand this 24 day of
January, 2002.


Jeffrey L. Martin


STATE OF Colorado)
) ss.
COUNTY OF Broomfield)

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]


Notary Public

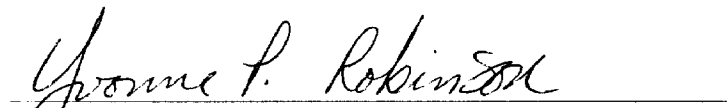
IN TESTIMONY WHEREOF, I have hereunto set my hand this 25 day of
January, 2002.

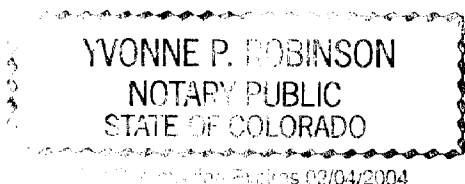

George T. Joseph

STATE OF Colorado)
) ss.
COUNTY OF Denver)

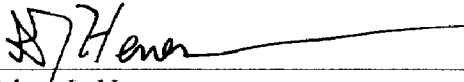
On this 25th day of January, 2002, before me personally appeared George T.
Joseph to me known and known to me to be the person described in and who executed the
foregoing instrument, and he duly acknowledged to me that he executed the same for the uses
and purposes therein set forth.

[SEAL]


Notary Public



IN TESTIMONY WHEREOF, I have hereunto set my hand this 24 day of
January, 2002.

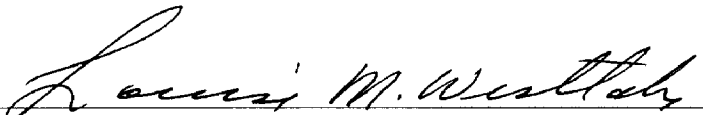


Alex J. Henes

STATE OF Colorado)
COUNTY OF Broomfield) ss.


On this 24th day of January, 2002, before me personally appeared Alex J.
Henes 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

IN TESTIMONY WHEREOF, I have hereunto set my hand this 24 day of
January, 2002.

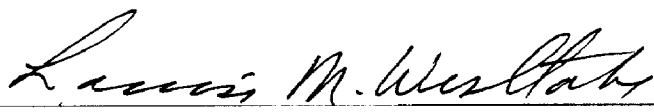


Michael Bonewitz

STATE OF Colorado)
COUNTY OF Broomfield) ss.

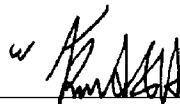
On this 24th day of January, 2002, before me personally appeared Michael
Bonewitz to me known and known to me to be the person described in and who executed the
foregoing instrument, and he duly acknowledged to me that he executed the same for the uses
and purposes therein set forth.

[SEAL]



Notary Public

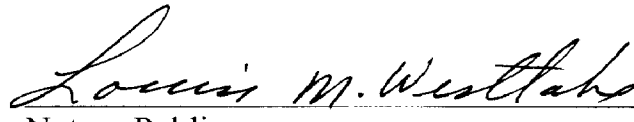
IN TESTIMONY WHEREOF, I have hereunto set my hand this 24 day of
January, 2002.


Kaveh Asalian

STATE OF Colorado)
) ss.
COUNTY OF Broomfield)

On this 24th 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]


Notary Public

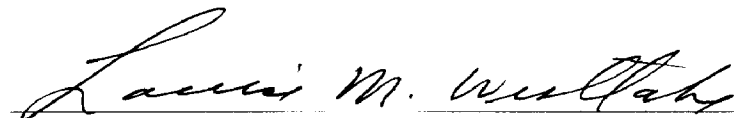
IN TESTIMONY WHEREOF, I have hereunto set my hand this 24 day of
January, 2002.


Geoff Yaworski

STATE OF Colorado)
) ss.
COUNTY OF Broomfield)

On this 24th day of January, 2002, before me personally appeared Geoff
Yaworski 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

January, 2002.

Gary L. Ryczek

STATE OF Colorado)
) SS.
COUNTY OF Broomfield)

On this 24th day of January, 2002, before me personally appeared Gary L. Ryczek 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

January, 2002.

Colin Train

STATE OF Colorado)
) ss.
COUNTY OF Broomfield)

On this 24th day of January, 2002, before me personally appeared Colin Train 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