

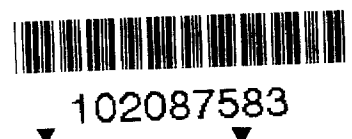
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Form PTO-1595
(Rev. 03-01)
OMB No. 0651-0027 (exp. 5/31/2002)

Recordation Form Cover Sheet
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof

1. Name of conveying party(ies):
Richard Cerami, Roxanna Storaasli

Additional name(s) of conveying parties attached? ☒ Yes ☐ No.

3. Nature of conveyance:

☒ Assignment ☐ Merger

☐ Security Agreement ☐ Change of Name

☐ Other: _____

Execution Date: 10/01/01; 10/02/01

2. Name and address of receiving party(ies)

Name: Qwest Communications International Inc (Patent Prosecution)

Internal Address: _____

Street Address: 1801 California Street, Suite 3800

City: Denver State: Colorado ZIP: 80202

Additional names and addresses attached? ☐ Yes ☒ No

RECEIVED

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: Technology Center 2100

A. Patent Application No(s): 09/921,294

B. Patent No(s): _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: Brian N. Young
TOWNSEND AND TOWNSEND AND CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
(415) 576-0200

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: 20-1430

(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 is true and correct and any attached copy is a true of copy of the original document.

Brian N. Young
Name of Person Signing
Atty. Reg. No. 48,602

Signature

January 10, 2002
Date

Total number of pages including cover sheet, attachments and document 3

Mail documents to be recorded with required cover to:
Commissioner of Patents and Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Richard S. Cerami of 1475 Lawrence Street, #400, Denver, CO 80202; Timothy Figueroa of 15231 East Hialeah Place, Aurora, CO 80015; Roxanna Storaasli of 1475 Lawrence Street, 4th Floor, Denver, CO 80202; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: PERFORMANCE MODELING IN A VDSL NETWORK

Date(s) of execution of Declaration:

Filing Date: August 1, 2001

Application No.: 09/921,294; and

WHEREAS, Qwest Communications International, Inc., a corporation of the state of Delaware, located at 1801 California Street, Suite 3800, Denver, CO, 80202-2658, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

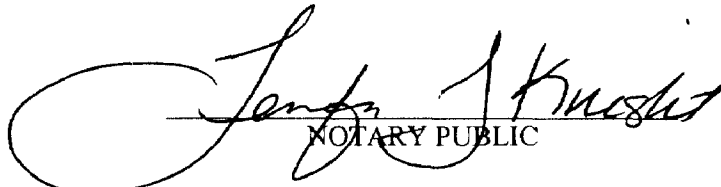
Dated: 10-01-01


Richard S. Cerami

STATE OF Colorado)
)
COUNTY OF Denver) ss.

On 10/2/01, before me, Jennifer J. Knight,
personally appeared Richard S. Cerami, personally known to me (or proved to me on the basis of satisfactory
evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she
executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the
entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.


NOTARY PUBLIC

My Commission Expires: 7/01/03

Dated: _____

Timothy Figueroa

STATE OF)
)
COUNTY OF) ss.

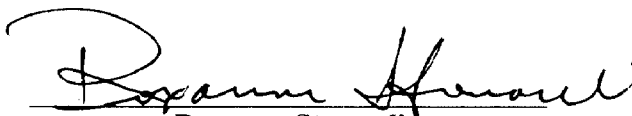
On _____, before me, _____,
personally appeared Timothy Figueroa, personally known to me (or proved to me on the basis of satisfactory
evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she
executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the
entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

NOTARY PUBLIC

My Commission Expires: _____

Dated: 10/02/01

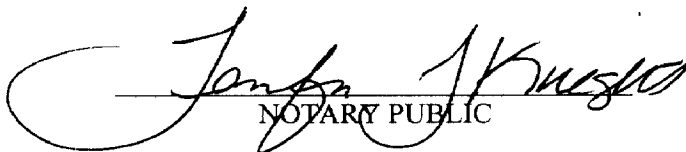

Roxanna Storaasli

STATE OF Colorado)
)
COUNTY OF Denver)

ss.

On 10/2/01, before me, Jennifer J. Knight,
personally appeared Roxanna Storaasli, personally known to me (or proved to me on the basis of satisfactory
evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she
executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the
entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.


NOTARY PUBLIC

My Commission Expires: 7/01/03