

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>TE-SHENG LIN</td> <td>06/06/2012</td> </tr> <tr> <td>ROMAN KRZANOWSKI</td> <td>06/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	TE-SHENG LIN	06/06/2012	ROMAN KRZANOWSKI	06/07/2012
Name	Execution Date						
TE-SHENG LIN	06/06/2012						
ROMAN KRZANOWSKI	06/07/2012						
RECEIVING PARTY DATA							
Name:	VERIZON PATENT & LICENSING INC.						
Street Address:	One Verizon Way						
City:	Basking Ridge						
State/Country:	NEW JERSEY						
Postal Code:	07920						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13492156</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13492156		
Property Type	Number						
Application Number:	13492156						
CORRESPONDENCE DATA							
Fax Number:	(202)756-8087						
Phone:	703-351-3579						
Email:	patents@verizon.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	VERIZON PATENT MANAGEMENT GROUP						
Address Line 1:	1320 North Court House Road						
Address Line 2:	9th Floor						
Address Line 4:	ARLINGTON, VIRGINIA 22201-2909						
ATTORNEY DOCKET NUMBER:	20120066 (050108-0686)						
NAME OF SUBMITTER:	Keith E. George 34111						
Total Attachments: 3 source=ASSN_20120066_050108-0686#page1.tif source=ASSN_20120066_050108-0686#page2.tif source=ASSN_TRN_20120066_050108-0686#page1.tif							

CH \$40.00 13492156

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned:

- I. have sold, assigned and transferred, and by the presents do hereby sell, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire worldwide right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

DISTRIBUTED CONTENT DELIVERY NETWORK ARCHITECTURE

which has been executed by the undersigned concurrently herewith, and in which case I/we hereby authorize and request the Assignee, its successors, assigns and/or legal representatives, to insert here in the parentheses (Application Number _____, filed _____) the filing date and application number of said application when known.

which was filed on _____ and assigned Application No. _____

and in and to said application, and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements or based on or claiming priority to said application; and in and to all original and reissued patents which have been or shall be issued in the United States and foreign countries from any of said applications, and in and to all rights of priority resulting from the filing of any of said applications; and in and to all rights which may exist under the International Convention for the Protection of Industrial Property to any of the foregoing;

- II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all Letters Patent on said improvements, in said Assignee, its successors and assigns; and
- III. covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein identified has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS to my/our agreement to the foregoing. I/we have executed this Assignment as set forth below:

Verizon entity (Assignee): Verizon Patent and Licensing Inc. having a place of business at One Verizon Way, Basking Ridge, NJ 07920.

ASSIGNORS:

Signature: _____
Te-Sheng LIN

Signature:  _____
Roman KRZANOWSKI

Date: _____

Date: 06.07.12

Verizon Invention Assignment
for Verizon Reference No.: 20120066
Page 1 of 1

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which was filed on _____ and assigned Application No.

and in and to said application, and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements or based on or claiming priority to said application; and in and to all original and reissued patents which have been or shall be issued in the United States and foreign countries from any of said applications, and in and to all rights of priority resulting from the filing of any of said applications; and in and to all rights which may exist under the International Convention for the Protection of Industrial Property to any of the foregoing;


- II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all Letters Patent on said improvements, in said Assignee, its successors and assigns; and

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Verizon entity (Assignee): Verizon Patent and Licensing Inc. having a place of business at One Verizon Way, Basking Ridge, NJ 07920.

ASSIGNORS:

Signature:  Date: 6/6/2012
 Signature: _____ Date: _____
 Roman KRZANOWSKI

RECORDATION FORM COVER SHEET

Docket No.: 20120066 (050108-0686) PATENTS ONLY

To the Director of the U. S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

<p>1. Name of Conveying Party(ies) Te-Sheng LIN; Roman KRZANOWSKI</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies) Name: Verizon Patent and Licensing Inc. Internal Address:</p> <p>Address: One Verizon Way, Basking Ridge, NJ 07920</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>3. Nature of Conveyance/Execution Date(s) Execution Date(s): June 6, 2012; June 7, 2012 (respectively)</p> <p> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other </p>	<p>4. Application or patent number(s): A. Patent Application No(s). B. Patent No(s). Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>5. Name and address to whom correspondence concerning document should be mailed:</p> <p>Name: MCDERMOTT WILL & EMERY LLP Internal Address:</p> <p>Street Address: 600 13th Street, N.W.</p> <p>City: Washington, DC State: DC Zip: 20005-3096 D.C.</p> <p>Phone Number: 202.756.8000 Fax Number: 202.756.8087 Email Address: mweipdocket@mwe.com</p>	<p>6. Total number of applications and patents involved:</p> <p><input checked="" type="checkbox"/> This document is being filed together with a new application.</p> <p>7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00</p> <p> <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title) </p> <p>8. Payment Information:</p> <p>a. Credit Card Last 4 Numbers _____ Expiration Date _____</p> <p>b. Deposit Account Number <u>500417</u> Authorized User Name _____</p>
<p>9. Signature. Keith E. George 34,111</p>	<p align="right"><i>Keith E. George</i></p> <p align="right">June 8, 2012</p>
<p>Name and Registration No. of Person Signing Signature Date</p>	
<p align="right">Total number of pages including cover sheet, attachments and documents: 3</p>	