

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Niem Dang	01/14/2013
RECEIVING PARTY DATA	
Name:	Time Warner Cable Enterprises, LLC.
Street Address:	60 Columbus Circle
City:	New York
State/Country:	NEW YORK
Postal Code:	10023
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13710108
CORRESPONDENCE DATA	
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
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Address Line 1:	788 Shrewsbury Avenue
Address Line 4:	TINTON FALLS, NEW JERSEY 07724
ATTORNEY DOCKET NUMBER:	TW-62
NAME OF SUBMITTER:	Michael P. Straub
Total Attachments: 6 source=Assignment_DANG_TWC_62_TWC_12_13#page1.tif source=Assignment_DANG_TWC_62_TWC_12_13#page2.tif source=Assignment_DANG_TWC_62_TWC_12_13#page3.tif source=Assignment_DANG_TWC_62_TWC_12_13#page4.tif source=Assignment_DANG_TWC_62_TWC_12_13#page5.tif source=Assignment_DANG_TWC_62_TWC_12_13#page6.tif	

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**ASSIGNMENT**

WHEREAS, we, **Niem DANG**, ASSIGNOR

a citizen of the **US**, residing at **20851 Pitt Ter, Sterling, VA 20165;**

**John CHEN**, ASSIGNOR

a citizen of the **US**, residing at **21517 Glebe View Drive, Broadlands, VA 20148;** and

**John GABRIEL**, ASSIGNOR

a citizen of the **US**, residing at **18381 Lincoln Rd, Purcellville, VA 20132;**

are the inventors of the invention in:

**METHODS AND APPARATUS FOR DYNAMIC MANAGEMENT AND BANDWIDTH ALLOCATION FOR CONTENT DELIVERY**

for which an application for a Patent of the United States was filed on December 10, 2012, as application serial number 13/710,108;

and WHEREAS, **Time Warner Cable Enterprises, LLC.**, a corporation of Delaware, having a place of business at **60 Columbus Circle, New York, NY 10023**, ASSIGNEE

is desirous of obtaining the entire right, title and interest in, to and under the invention and the application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, WE, the ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the ASSIGNEE, its successors,

legal representatives and assigns, the entire right, title and interest in, to and under the invention, and the United States application and all divisions, renewals and continuations (including all continuation-in-part applications) thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models and designs which have been or may hereafter be filed for the invention or claim the benefit of the application or any right of priority to the application, in any and all countries including any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from the United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for the invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the ASSIGNEE, its successors, legal representatives and assigns, any facts known to us regarding the invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all

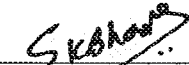
rightful oaths, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for the invention in all countries.

The undersigned hereby grant(s) the law firm of Straub & Pokotylo, and any other representative of the Assignee, the power to insert on this Assignment any further identification, including the application serial number, which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this  
14<sup>th</sup> day of January, 2013.

  
Nien DANG, Assignor

WITNESSED BY:

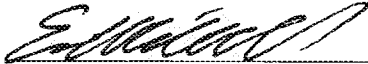
  
Witness signature 1/14/2013

SAMITA BHAVE  
Witness name (Please print)

26149, SODALITE SQUARE,  
Address

ALDIE, VA 20105.

WITNESSED BY:

  
Witness signature 1/14/2013

Eric Mitchell  
Witness name (Please print)

1535 Scandia Circle  
Address

Reston, VA 20190

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this  
\_\_\_\_\_ day of \_\_\_\_\_, 2013.

\_\_\_\_\_  
**John CHEN, Assignor**

WITNESSED BY:

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Address

WITNESSED BY:

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Address

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this  
\_\_\_\_\_ day of \_\_\_\_\_, 2013.

\_\_\_\_\_  
**John GABRIEL, Assignor**

WITNESSED BY:

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