

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Shan Huang</td> <td>05/21/2013</td> </tr> <tr> <td>Michael Kelsen</td> <td>05/23/2013</td> </tr> <tr> <td>Ronald da Silva</td> <td>06/03/2013</td> </tr> <tr> <td>Tushar A. Nakhre</td> <td>05/21/2013</td> </tr> </tbody> </table>		Name	Execution Date	Shan Huang	05/21/2013	Michael Kelsen	05/23/2013	Ronald da Silva	06/03/2013	Tushar A. Nakhre	05/21/2013
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Time Warner Cable Enterprises LLC</td> </tr> <tr> <td>Street Address:</td> <td>60 Columbus Circle</td> </tr> <tr> <td>City:</td> <td>New York</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10023</td> </tr> </table>		Name:	Time Warner Cable Enterprises LLC	Street Address:	60 Columbus Circle	City:	New York	State/Country:	NEW YORK	Postal Code:	10023
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											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13831411</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13831411						
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CORRESPONDENCE DATA											
Fax Number: 2037695706 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 2034333157 Email: docket@oeklaw.com Correspondent Name: Paul Otterstedt Address Line 1: 500 West Putnam Avenue, Suite 400 Address Line 2: Otterstedt, Ellenbogen & Kammer, LLP Address Line 4: Greenwich, CONNECTICUT 06830											
ATTORNEY DOCKET NUMBER:	1033-64										
NAME OF SUBMITTER:	Paul J. Otterstedt										
Signature:	/Paul J. Otterstedt/										

OP \$40.00 13831411

PATENT

Date:	06/25/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 8</b> source=1033-64_FiledAssignment_06252013#page1.tif source=1033-64_FiledAssignment_06252013#page2.tif source=1033-64_FiledAssignment_06252013#page3.tif source=1033-64_FiledAssignment_06252013#page4.tif source=1033-64_FiledAssignment_06252013#page5.tif source=1033-64_FiledAssignment_06252013#page6.tif source=1033-64_FiledAssignment_06252013#page7.tif source=1033-64_FiledAssignment_06252013#page8.tif	

**DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN  
APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT**

**TITLE OF INVENTION: SIGNALING FOR SERVICE FLOWS**

As a below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 13/831,411  
filed on 14-MAR-2013.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed  
invention in the application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office  
all information known to me to be material to patentability as defined in 37 CFR Section  
1.56.

For value received, each undersigned inventor, hereby sells, assigns and transfers to  
Time Warner Cable Enterprises LLC, a Delaware limited liability company having a place of  
business at 60 Columbus Circle, New York, NY 10023, United States of America, and its  
successors, assigns and legal representatives, the entire right, title and interest, for the United  
States of America, in and to certain inventions disclosed in the above-identified patent  
application, and all the rights and privileges in said application and under any and all Letters  
Patent that may be granted in the United States for said inventions; and each undersigned  
inventor also concurrently hereby sells, assigns and transfers to Time Warner Cable  
Enterprises LLC the entire right, title and interest in and to said inventions for all countries  
foreign to the United States, including all rights of priority arising from the application  
aforesaid, and all the rights and privileges under any and all forms of protection, including  
Letters Patent, that may be granted in said countries foreign to the United States for said  
inventions.

Each undersigned inventor authorizes Time Warner Cable Enterprises LLC to make  
application for such protection in its own name and maintain such protection in any and all  
countries foreign to the United States, and to invoke and claim for any application for patent  
or other form of protection for said inventions, without further authorization from each  
undersigned inventor, any and all benefits, including the right of priority provided by any and  
all treaties, conventions, or agreements.

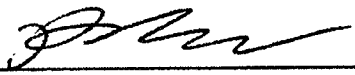
Each undersigned inventor hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Time Warner Cable Enterprises LLC to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

Each undersigned inventor requests that any and all patents for said inventions be issued to Time Warner Cable Enterprises LLC in the United States and in all countries foreign to the United States, or to such nominees as Time Warner Cable Enterprises LLC may designate.

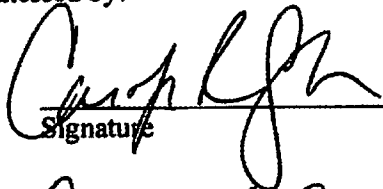
Each undersigned inventor agrees that, when requested, he or she shall, without charge to Time Warner Cable Enterprises LLC but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: Shan Huang

Signature:  Date: 05/21/2013

Witnessed by:

  
Signature

Carolyn R. Caylor  
Typed or Printed Name

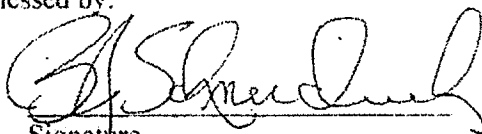
  
Signature

TUSHAR NAKHARE  
Typed or Printed Name

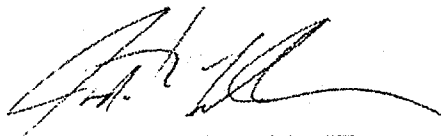
(2) Legal Name of Inventor: Michael Kelsen

Signature:  Date: 5/23/2013

Witnessed by:

  
Signature

Barbara Schneiderhan  
Typed or Printed Name

  
Signature

Judithanna Kelsen  
Typed or Printed Name

(3) Legal Name of Inventor: Ronald da Silva

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Witnessed by:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Typed or Printed Name

\_\_\_\_\_  
Typed or Printed Name

(4) Legal Name of Inventor: Tushar A. Nakhre

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Witnessed by:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Typed or Printed Name

\_\_\_\_\_  
Typed or Printed Name

Otterstedt, Ellenbogen & Kammer, LLP  
500 West Putnam Avenue, Suite 400  
Greenwich, CT 06830

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Time Warner Cable Enterprises LLC, a Delaware limited liability company having a place of  
business at 60 Columbus Circle, New York, NY 10023, United States of America, and its  
successors, assigns and legal representatives, the entire right, title and interest, for the United  
States of America, in and to certain inventions disclosed in the above-identified patent  
application, and all the rights and privileges in said application and under any and all Letters  
Patent that may be granted in the United States for said inventions; and each undersigned  
inventor also concurrently hereby sells, assigns and transfers to Time Warner Cable  
Enterprises LLC the entire right, title and interest in and to said inventions for all countries  
foreign to the United States, including all rights of priority arising from the application  
aforesaid, and all the rights and privileges under any and all forms of protection, including  
Letters Patent, that may be granted in said countries foreign to the United States for said  
inventions.

Each undersigned inventor authorizes Time Warner Cable Enterprises LLC to make  
application for such protection in its own name and maintain such protection in any and all  
countries foreign to the United States, and to invoke and claim for any application for patent  
or other form of protection for said inventions, without further authorization from each  
undersigned inventor, any and all benefits, including the right of priority provided by any and  
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(1) Legal Name of Inventor: Shan Huang

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Witnessed by:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Typed or Printed Name

\_\_\_\_\_  
Typed or Printed Name



(2) Legal Name of Inventor: Michael Kelsen

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Witnessed by:


\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Typed or Printed Name

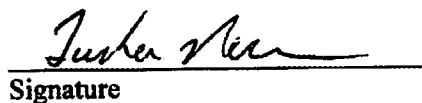
\_\_\_\_\_  
Typed or Printed Name

(3) Legal Name of Inventor: Ronald da Silva

Signature:  Date: 6-3-13

Witnessed by:

  
Signature

  
Signature

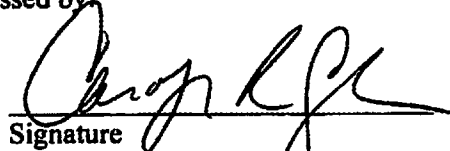
  
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Typed or Printed Name

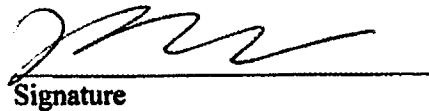
(4) Legal Name of Inventor: Tushar A. Nakhre

Signature: Tushar Nakhre Date: 5-12-13

Witnessed by:

  
Signature

Carolyn R. Caylor  
Typed or Printed Name

  
Signature

Shan Huang  
Typed or Printed Name

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