

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3571226

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
WILLIAM LEE HOWARD, JR.	12/18/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TIME WARNER CABLE ENTERPRISES LLC
<b>Street Address:</b>	60 COLUMBUS CIRCLE
<b>City:</b>	NEW YORK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10023
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14884034
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	508-616-9660
<b>Email:</b>	docket@chapin-ip-law.com
<b>Correspondent Name:</b>	BARRY W. CHAPIN, ESQ. CHAPIN INTELLECTUA
<b>Address Line 1:</b>	352 TURNPIKE ROAD
<b>Address Line 2:</b>	SUITE 110
<b>Address Line 4:</b>	SOUTHBOROUGH, MASSACHUSETTS 01772
<b>ATTORNEY DOCKET NUMBER:</b>	TWC12-21(12-50C2)CON2
<b>NAME OF SUBMITTER:</b>	PAUL P. KRIZ
<b>SIGNATURE:</b>	/Paul P. Kriz/
<b>DATE SIGNED:</b>	10/15/2015
<b>Total Attachments: 3</b>	
source=TWC12-21-12-50-EXECUTED-ASSIGNMENT#page1.tif	
source=TWC12-21-12-50-EXECUTED-ASSIGNMENT#page2.tif	
source=TWC12-21-12-50-EXECUTED-ASSIGNMENT#page3.tif	

**ASSIGNMENT**

**WHEREAS**, I, William Lee Howard, Jr., have invented a certain improvement in **CONTENT DISCOVERY AND PLAYBACK IN A NETWORK ENVIRONMENT** described in an application for Letters Patent of the United States, the specification of which:

- is being executed on even date herewith and is about to be filed in the United States Patent Office;
- was filed on \_\_\_\_\_ as Application No. \_\_\_\_\_;
- was patented under U.S. Patent No. \_\_\_\_\_ on \_\_\_\_\_.

**WHEREAS**, Time Warner Cable Enterprises LLC (hereinafter "ASSIGNEE"), a Limited Liability Company organized and existing under the laws of the State of Delaware and having a usual place of business at 60 Columbus Circle, New York, NY 10023 desires to acquire an interest therein in accordance with agreements duly entered into with me;

**NOW, THEREFORE**, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

**AND**, I hereby further agree for myself and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

**AND**, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

**IN TESTIMONY WHEREOF**, I have hereunto set my hand and affixed my seal the date set forth below.

Date: 12/18/12

W. Lee Howard, Jr.  
Inventor's Signature

Print full name of first inventor:

William Lee Howard, Jr.

Residence:

9325 Glenbrook Rd  
Fairfax VA, 22031

Citizenship:

US

Mailing Address:

Same as above

Date: 12/18/2012

Linda J. Bothwell  
Witness' Signature

Print full name of Witness:

Linda J. Bothwell

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

\_\_\_\_\_  
Witness' Signature

Print full name of Witness:

\_\_\_\_\_

