

PATENT ASSIGNMENT

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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>Bruce Bradley</td> <td>02/07/2013</td> </tr> <tr> <td>Robert Knee</td> <td>02/12/2013</td> </tr> <tr> <td>Mark McKelvey</td> <td>02/20/2013</td> </tr> <tr> <td>James Barkley</td> <td>02/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	Bruce Bradley	02/07/2013	Robert Knee	02/12/2013	Mark McKelvey	02/20/2013	James Barkley	02/11/2013
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Comcast Cable Communications, LLC</td> </tr> <tr> <td>Street Address:</td> <td>1701 JFK Boulevard</td> </tr> <tr> <td>City:</td> <td>Philadelphia</td> </tr> <tr> <td>State/Country:</td> <td>PENNSYLVANIA</td> </tr> <tr> <td>Postal Code:</td> <td>19103</td> </tr> </table>		Name:	Comcast Cable Communications, LLC	Street Address:	1701 JFK Boulevard	City:	Philadelphia	State/Country:	PENNSYLVANIA	Postal Code:	19103
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: 2028243001 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-824-3000</p> <p>Email: lwilley@bannerwitcoff.com, bwptopat@bannerwitcoff.com</p> <p>Correspondent Name: Steve S. Chang</p> <p>Address Line 1: Banner & Witcoff, LTD</p> <p>Address Line 2: 1100 13th St NW; #1200</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20005</p>											
ATTORNEY DOCKET NUMBER:	007412.02196										
NAME OF SUBMITTER:	Steve S. Chang										
Signature:	/Steve Chang/										

PATENT

Date:

04/18/2013

Total Attachments: 5

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ASSIGNMENT

Attorney Docket No.: 007412.02196

Serial Number: 13/773,359

Filing Date: February 21, 2013

Inventors: Bruce Bradley, Robert Knee, Mark McKelvey and James Barkley

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned hereby assign to:

COMCAST CABLE COMMUNICATIONS, LLC

having a place of business at 1701 JFK Boulevard, Philadelphia, PA 19103, its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

MANAGING STORED CONTENT

and identified as Attorney Docket No. 007412.02196 in the offices of Banner & Witcoff, Ltd. and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations and without additional charge the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations and without additional charge the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of and without additional charge to said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be

granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Date:

2/7/13

Bruce Bradley
Bruce Bradley

Date:

2/7/12

[Signature]
Witness

Date:

2/7/13

[Signature]
Witness

Date:

Robert Knee

Date:

Witness

Date:

Witness

Date:

Mark McKelvey

Date:

Witness

Date:

Witness

Date:

James Barkley

Date:

Witness

Date:

Witness

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Date: _____
_____ **Bruce Bradley**

Date: _____
_____ Witness

Date: _____
_____ Witness

Date: 2/12/13 _____
_____ **Robert Knee**

Date: 2/12/2013 _____
_____ Witness

Date: 2/12/2013 _____
_____ **Steven Mishler**
_____ Witness

Date: _____
_____ **Mark McKelvey**

Date: _____
_____ Witness

Date: _____
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Date: _____
_____ **James Barkley**

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_____ Witness

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Date: _____
Bruce Bradley

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Robert Knee

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Witness

Date: 2/20/13 Mark McKelvey
Mark McKelvey

Date: 2/20/13 Walter Mlodowski
Witness WALTER MLODZINSKI

Date: 2/20/13 Yvette Thornton
Witness Yvette Thornton

Date: _____
James Barkley

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Robert Knee

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Mark McKelvey

Date: _____

Witness

Date: _____

Witness

Date: Feb 11, 2013

James Barkley

Date: 2/11/13

Witness

Date: 2/11/13

Witness