

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6875428

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHAWN O'MALLEY	05/29/2015
JEREMY ZAUCHA	05/29/2015
MICHAEL ROSENWALD	05/29/2015
RUIFENG ZHANG	05/29/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	COMCAST CABLE COMMUNICATIONS, LLC
<b>Street Address:</b>	1701 JOHN F. KENNEDY BOULEVARD
<b>City:</b>	PHILADELPHIA
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19103
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17445507
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(215)568-3439
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<b>Phone:</b>	2155683100
<b>Email:</b>	assignments@bakerlaw.com
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<b>Address Line 1:</b>	2929 ARCH STREET
<b>Address Line 2:</b>	CIRA CENTRE, 12TH FLOOR
<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19104
<b>ATTORNEY DOCKET NUMBER:</b>	102005.021943
<b>NAME OF SUBMITTER:</b>	DIANE PAYNE
<b>SIGNATURE:</b>	/Diane Payne/
<b>DATE SIGNED:</b>	08/20/2021
<b>Total Attachments: 4</b>	
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## **ASSIGNMENT**

Attorney Docket No.: 102005.021940

Client Reference No.: 2014022255

Serial Number: 14/727,000

Filing Date: June 1, 2015

Inventors: Shawn O'Malley; Jeremy Zaucha; Michael Rosenwald; and Ruifeng Zhang

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:

### **TRANSMISSION OF APPLICATIONS WITH CONTENT**

and identified as Attorney Docket No. 102005.021940 in the offices of Baker & Hostetler, LLP 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

**PATENT**

**REEL: 057241 FRAME: 0026**

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: 5/29/2015

Shawn O'Malley  
Shawn O'Malley

Date: 5/29/2015

Witness

Date: 5/29/2015

Shawn O'Malley

Witness

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

\_\_\_\_\_  
Jeremy Zaucha

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

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Witness

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

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Witness

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

\_\_\_\_\_  
Michael Rosenwald

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

\_\_\_\_\_  
Witness

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

\_\_\_\_\_  
Witness

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

\_\_\_\_\_  
Ruifeng Zhang

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

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Witness

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

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Witness

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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

**PATENT**

**REEL: 057241 FRAME: 0028**

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: \_\_\_\_\_  
Shawn O'Malley

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

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

Date: 5/29/15 \_\_\_\_\_  
Jeremy Zaucha

Date: 5/29/2015 \_\_\_\_\_  
Witness Howard MARLOW

Date: 5/29/2015 \_\_\_\_\_  
Witness SHUBHAM GARG

Date: 5/29/2015 \_\_\_\_\_  
Michael Rosenwald

Date: 5/29/2015 \_\_\_\_\_  
Witness Alexei Savetiev

Date: 5/29/2015 \_\_\_\_\_  
Witness Asha N ASHA NAYAK

Date: 5/29/2015 \_\_\_\_\_  
Witness Ruiteng Zhang

Date: 5/29/2015 \_\_\_\_\_  
Witness Asha N ASHA NAYAK

Date: 5/29/2015 \_\_\_\_\_  
Witness ABRAHAM SHENY