

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NBCUNIVERSAL MEDIA, LLC	09/13/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	COMCAST CABLE COMMUNICATIONS, LLC
<b>Street Address:</b>	1701 JFK 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>
Application Number:	14850555
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(213)623-2211
<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>	2136232221
<b>Email:</b>	PATENT@LHLAW.COM
<b>Correspondent Name:</b>	LEE, HONG, DEGERMAN, KANG & WAIMEY
<b>Address Line 1:</b>	660 SOUTH FIGUEROA STREET SUITE 2300
<b>Address Line 4:</b>	LOS ANGELES, CALIFORNIA 90017
<b>ATTORNEY DOCKET NUMBER:</b>	2217-3011
<b>NAME OF SUBMITTER:</b>	JUSTIN D. LEE
<b>SIGNATURE:</b>	/Justin D. Lee/
<b>DATE SIGNED:</b>	09/18/2017
<b>Total Attachments: 1</b>	
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Attorney Docket No.: 2217-3011  
NBCU Docket No.: 311116-1  
Application Number: 14/850,555  
Filing Date: September 10, 2015  
Inventors: Jonathan Dakss, Ali A. Khorram, and Samuel Harrell

## ASSIGNMENT OF PATENT RIGHTS

WHEREAS NBCUNIVERSAL MEDIA, LLC (the "Assignor"), having a place of business at 30 Rockefeller Plaza, New York, NY 10112, is the owner of United States Patent Application No. 14/850,555 filed on September 10, 2015, and the invention(s) described therein, (collectively the "Application"); and

WHEREAS COMCAST CABLE COMMUNICATIONS, LLC (the "Assignee"), having a place of business at 1701 JFK Boulevard, Philadelphia, PA 19103, is desirous of acquiring 50% of the rights, title, and interest in the Application;

### NOW THEREFORE,

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby assigns to Assignee, and its successors, representatives and assigns, 50% of its right, title, and interest in the Application, including patents arising from the Application, reexaminations, reissues, continuations in whole or part, divisionals, and foreign applications claiming the benefit of the Application, and including all rights to enforce the Application and any patents arising therefrom, and seek damages against third parties for past, current, and future infringements.

Assignor hereby requests the Commissioner of Patents of the United States to record this assignment transferring 50% of Assignor's right, title, and interest in the Application to Assignee.

IN WITNESS WHEREOF, this Assignment of Patent Rights is executed at Los Angeles, CA on September 13, 2017.

### ASSIGNOR

NBCUNIVERSAL MEDIA, LLC

Signature: 

Name: Ian Slotin

Title: SVP, Intellectual Property