

## 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>
RICHARD M. WOUNDY	04/02/2007
MANOJ K. CHAUDHARI	03/30/2007
RAJU DATLA	03/30/2007
EUGENE LEE	04/04/2007
SRINIVAS BONGONI	04/04/2007
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	COMCAST CABLE HOLDINGS, LLC
<b>Street Address:</b>	1500 MARKET STREET
<b>Internal Address:</b>	34TH FLOOR
<b>City:</b>	PHILADELPHIA
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19102-2148
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15633163
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)824-3001
<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>	(202) 824-3000
<b>Email:</b>	bwptopat@bannerwitcoff.com, lbahm@bannerwitcoff.com
<b>Correspondent Name:</b>	BANNER & WITCOFF, LTD.
<b>Address Line 1:</b>	1100 13TH ST. NW
<b>Address Line 2:</b>	STE 1200
<b>Address Line 4:</b>	WASHINGTON, D.C. 20005
<b>ATTORNEY DOCKET NUMBER:</b>	007412.03768
<b>NAME OF SUBMITTER:</b>	EVAN M. CLARK
<b>SIGNATURE:</b>	/Evan M. Clark/
<b>DATE SIGNED:</b>	02/01/2018

**Total Attachments: 3**

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**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, we Richard M. Woundy, Manoj Chaudhari, Raju Datla, Eugene Lee, and Srinivas Bongoni, of 17 Foley Drive, North Reading, Massachusetts 01864, 11 Breeze Drive, Dayton, New Jersey 08810, 5 Brompton Court, Cherry Hill, New Jersey 08003, 2284 Georgetown Drive, Malvern, Pennsylvania 19355, 251 West Dekalb Pike, D612, King of Prussia, Pennsylvania 19406, respectively, do hereby assign, sell and set over to COMCAST CABLE HOLDINGS, LLC, a corporation organized and existing under the laws of the State of Delaware, and having a place of business at 1500 Market Street, 34<sup>th</sup> Floor, Philadelphia, PA 19102-2148, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in

**SYSTEM AND METHOD FOR PROVIDING  
AN APPLICATION TO A DEVICE**

for which an application for a United States Patent is to be filed or will have been filed on January 22, 2007, as Application Serial No. 11/625,422 (we hereby authorize our attorney to insert the application filing date and serial number when they become known), including the right of said ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for said inventions and discoveries in any and all foreign countries in its or their own name or names, or in our names, at its or their election, and we hereby assign, sell and set over to said ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to said inventions and discoveries in all countries, including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue applications.

And we hereby agree for ourselves, our heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries and to perform any and all acts which said ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein assigned, sold and set over.

And we hereby represent and warrant that we have not granted any rights inconsistent with the rights granted herein.

Date: 4-2, 2007

Richard M. Woundy  
Richard M. Woundy

Date: 3-30, 2007

M. K. Chaudhari  
Manoj Chaudhari

Date: 3-30, 2007

Raju Datla  
Raju Datla

Date: 4-4, 2007

Eugene Lee  
Eugene Lee

Date: 04/04, 2007

B. Srinivas  
Srinivas Bongoni

STATE OF NJ )  
COUNTY OF MIDDLESEX ) ss.

On this 02 day of APRIL, 2007, personally appeared before me RICHARD WOUNDY, to me known to be the person named in and who executed the above instrument, and acknowledged that he executed the same for the uses and purposes therein mentioned.

Ferdinand J. Reinke  
Notary Public  
My Commission expires:

(SEAL)

FERDINAND J. REINKE  
NOTARY PUBLIC  
STATE OF NEW JERSEY  
COMM. ID 2329753  
MY COMMISSION EXPIRES JUNE 2, 2010

STATE OF NJ )  
COUNTY OF MIDDLESEX ) ss.

On this 30 day of MARCH, 2007, personally appeared before me MANOJ CHAUDHART, to me known to be the person named in and who executed the above instrument, and acknowledged that he executed the same for the uses and purposes therein mentioned.

Ferdinand J. Reinke  
Notary Public  
My Commission expires:

(SEAL)

FERDINAND J. REINKE  
NOTARY PUBLIC  
STATE OF NEW JERSEY  
COMM. ID 2329753  
MY COMMISSION EXPIRES JUNE 2, 2010

STATE OF NJ )  
COUNTY OF MIDDLESEX ) ss.

On this 30 day of MARCH, 2007, personally appeared before me RAJU DATLA, to me known to be the person named in and who executed the above instrument, and acknowledged that he executed the same for the uses and purposes therein mentioned.

Ferdinand J. Reinke  
Notary Public  
My Commission expires:

(SEAL)

FERDINAND J. REINKE  
NOTARY PUBLIC  
STATE OF NEW JERSEY  
COMM. ID 2329753  
MY COMMISSION EXPIRES JUNE 2, 2010

STATE OF Pennsylvania ) SS.  
COUNTY OF Phila )

On this 4<sup>th</sup> day of April, 2007, personally appeared before me Eugene Lee, to me known to be the person named in and who executed the above instrument, and acknowledged that he executed the same for the uses and purposes therein mentioned.

**Notary Public**

My Commission expires: \_\_\_\_\_

**COMMONWEALTH OF PENNSYLVANIA**

NOTARIAL SEAL

**AIDA SPARTA, Notary Public**

City of Philadelphia, Phila. County

**My Commission Expires March 30, 2008**

(SEAL)

STATE OF Pennsylvania ) SS.  
COUNTY OF Phila )

On this 9<sup>th</sup> day of April, 2007, personally appeared before me Srinivas Bannam, to me known to be the person named in and who executed the above instrument, and acknowledged that he executed the same for the uses and purposes therein mentioned.

Notary Public

My Commission expires:

**COMMONWEALTH OF PENNSYLVANIA**  
NOTARY PUBLIC

NOTARIAL SEAL

AIDA SPARTA, Notary Public  
City of Philadelphia

City of Philadelphia, Phila. County

My Commission Expires March 30, 2008

(SEAL)