

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4267562

|                                                                                                                                                                                                 |                                                        |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                                         |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                                             |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                                        |                       |
|                                                                                                                                                                                                 | <b>Name</b>                                            | <b>Execution Date</b> |
|                                                                                                                                                                                                 | COMCAST CABLE HOLDINGS, LLC                            | 09/30/2015            |
| <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:                                    | 15206586              |
| <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>                                                                                                                                                                                   | dcoleman@bannerwitcoff.com, bwptopat@bannerwitcoff.com |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | BANNER & WITCOFF, LTD.                                 |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | 1100 13TH STREET, N.W.                                 |                       |
| <b>Address Line 2:</b>                                                                                                                                                                          | SUITE 1200                                             |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | WASHINGTON, D.C. 20005-4051                            |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 007412.03293                                           |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | STEVE S. CHANG                                         |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Steve Chang/                                          |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 02/09/2017                                             |                       |
| <b>Total Attachments: 3</b>                                                                                                                                                                     |                                                        |                       |
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# Delaware

The First State

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I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"COMCAST CABLE HOLDINGS, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

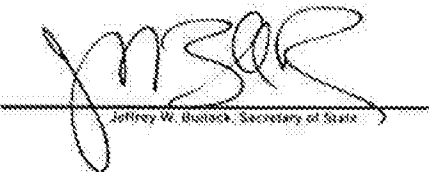
"COMCAST MO OF DELAWARE, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"COMCAST MO GROUP, LLC", A DELAWARE LIMITED LIABILITY COMPANY,

"COMCAST OF GEORGIA/VIRGINIA, INC.", A COLORADO CORPORATION, WITH AND INTO "COMCAST CABLE COMMUNICATIONS, LLC" UNDER THE NAME OF "COMCAST CABLE COMMUNICATIONS, LLC", A LIMITED LIABILITY COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE ON THE THIRTIETH DAY OF SEPTEMBER, A.D. 2015, AT 8:44 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE FIRST DAY OF OCTOBER, A.D. 2015 AT 12:01 O'CLOCK A.M.



  
Jeffrey W. Bullock, Secretary of State

911574 8100M  
SR# 20150316895

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

Authentication: 10154585  
PATENT date: 09-30-15

REEL: 041216 FRAME: 0098

# Delaware

The First State

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911574 8100M  
SR# 20150316895

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

A handwritten signature in black ink, appearing to read "JBullock", is written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed.

Jeffrey W. Bullock, Secretary of State

Authentication: 10154585  
Date: 09-30-15

**PATENT**  
**REEL: 041216 FRAME: 0099**

**CERTIFICATE OF MERGER**

**OF**

**COMCAST OF GEORGIA/VIRGINIA, INC.,  
a Colorado corporation,**

**COMCAST MO GROUP, LLC,  
a Delaware limited liability company,**

**COMCAST CABLE HOLDINGS, LLC,  
a Delaware limited liability company,**

**AND**

**COMCAST MO OF DELAWARE, LLC,  
a Delaware limited liability company,**

**INTO**

**COMCAST CABLE COMMUNICATIONS, LLC,  
a Delaware limited liability company**

Pursuant to Title 6, Section 18-209 of the Delaware Limited Liability Company Act, the undersigned limited liability company executed the following Certificate of Merger:

FIRST: The name of the surviving limited liability company is Comcast Cable Communications, LLC, a Delaware limited liability company, and the names of the entities being merged into this surviving limited liability company are Comcast of Georgia/Virginia, Inc., a Colorado corporation, Comcast MO Group, LLC, a Delaware limited liability company, Comcast Cable Holdings, LLC, a Delaware limited liability company, and Comcast MO of Delaware, LLC, a Delaware limited liability company.

SECOND: The Agreement and Plan of Merger has been approved, adopted, certified, executed and acknowledged by each of the constituent entities.

THIRD: The name of the surviving entity is Comcast Cable Communications, LLC.

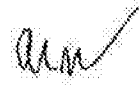
FOURTH: The merger is to become effective on October 1, 2015 at 12:01 a.m., Eastern time.

FIFTH: The Agreement and Plan of Merger is on file at the place of business of the surviving entity located at 1701 John F. Kennedy Boulevard, Philadelphia, Pennsylvania 19103-2838.

SIXTH: A copy of the Agreement and Plan of Merger will be furnished by the surviving limited liability company on request, without cost, to any member or stockholder of the constituent entities.

IN WITNESS WHEREOF, said surviving limited liability company has caused this certificate to be signed by an authorized person, on September 30, 2015.

Comcast Cable Communications, LLC

By: 

Arthur R. Block, Authorized Person