

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | AT&T PROPERTIES, LLC | 10/23/2017 |
| RECEIVING PARTY DATA | | |
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| City: | ATLANTA | |
| State/Country: | GEORGIA | |
| Postal Code: | 30308 | |
| PROPERTY NUMBERS Total: 1 | | |
| | Property Type | Number |
| | Application Number: | 11799007 |
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| ATTORNEY DOCKET NUMBER: | 2004-0291 CURRENT ENTITY | |
| NAME OF SUBMITTER: | JANET SHIBATA | |
| SIGNATURE: | /Janet Shibata/ | |
| DATE SIGNED: | 10/24/2017 | |
| Total Attachments: 2 | | |
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RECORDABLE PATENT ASSIGNMENT

This Recordable Patent Assignment is between AT&T Properties, LLC ("AT&T Properties"), a Nevada limited liability company, and AT&T Intellectual Property II, L.P. ("AT&T IP II"), a Nevada limited partnership.

Effective on June 30, 2008, for good and adequate consideration, the receipt and sufficiency of which has been and hereby is acknowledged, AT&T Properties hereby assigns, transfers, and conveys and/or has assigned, transferred, and conveyed to AT&T IP II all of AT&T Properties' right, title and interest in and to the patents and pending patent applications identified on Attachment A (the "Patents"), with respect to which and to the extent to which AT&T Properties has or previously had the right to so assign, transfer and convey such rights, including all claims for past infringement, and all divisions, reexaminations, reissues, substitutions, continuations, continuations-in-part and extensions thereof, including the right to file applications and obtain patents, utility models, industrial models and designs for said inventions in its own name throughout the world including all rights of priority, all rights to public cautionary notices reserving ownership of said inventions and all rights to claim and register said inventions in appropriate registries. AT&T Properties has further agreed to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in AT&T IP II, its successors, assigns and legal representatives.

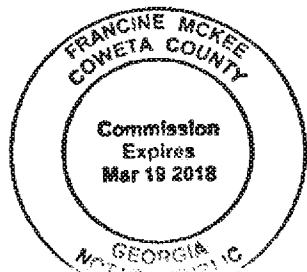
IN WITNESS WHEREOF, AT&T Properties has caused this Recordable Patent Assignment to be executed by its duly authorized representative.

AT&T PROPERTIES, LLC

By: Jeanette Napp
Jeanette Napp
Assistant Secretary

STATE OF GEORGIA)
) ss:
COUNTY OF COWETA)

Before me personally appeared the person described in and who executed the foregoing instrument, and s/he acknowledged to me that s/he executed the same for the purposes therein stated, this 23 day of October, 2017



Francine McKee
Notary Public

ATTACHMENT A

| Docket Number | Country | Application Date | Application Number | Patent Number | Title |
|----------------------|----------------|-------------------------|---------------------------|----------------------|--|
| 2004-0291 | United States | 02/04/2005 | 11/051377 | 7171070 | Arrangement For Low Cost Path Protection For Optical Communications Networks |
| 2004-0291 | United States | 08/31/2006 | 11/513970 | 7228027 | Arrangement For Low Cost Path Protection For Optical Communications Networks |
| 2004-0291 | United States | 04/30/2007 | 11/799007 | 7389018 | Arrangement For Low Cost Path Protection For Optical Communications Networks |
| 2004-0291 | United States | 05/15/2008 | 12/152564 | 7551816 | Arrangement For Low Cost Path Protection For Optical Communications Networks |