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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| Name | Execution Date |
| AT&T PROPERTIES, LLC | 07/19/2018 |
| RECEIVING PARTY DATA | |
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| Postal Code: | 30308 |
| PROPERTY NUMBERS Total: 4 | |
| Property Type | Number |
| Application Number: | 11448339 |
| PCT Number: | US2007013486 |
| Application Number: | 11259018 |
| Application Number: | 11318862 |
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| NAME OF SUBMITTER: | KIRSTEN HUNTER |
| SIGNATURE: | /Kirsten Hunter/ |
| DATE SIGNED: | 07/20/2018 |
| Total Attachments: 2 | |
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| source=ATT Properties LLC_ATT IP II LP#page2.tif | |

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.

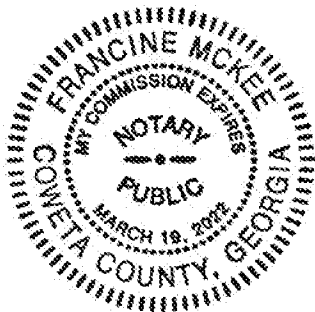
IN WITNESS WHEREOF, AT&T Properties has caused this Recordable Patent Assignment to be executed by its duly authorized representative.

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 acknowledged to me that she executed the same for the purposes therein stated, this 19 day of July, 2018.



Francine McKee
Notary Public

ATTACHMENT A

| Docket Number | Country | Application Number | Patent Number | Application Date | Title |
|----------------------|---------------------------|---------------------------|----------------------|-------------------------|--|
| 2000-0392 | United States | 09/993592 | 7023806 | 11/06/2001 | Method For Routing Optical Signals With Diversity Requirements |
| 2004-0069 | United States | 11/206700 | 7630307 | 08/18/2005 | Arrangement For Minimizing Data Overflow By Managing Data Buffer Occupancy, Especially Suitable For Fibre Channel Environments |
| 2004-0172 | United States | 60/614076 | | 09/29/2004 | Sarbanes Management Website |
| 2004-0172 | United States | 11/083631 | 8868456 | 03/18/2005 | Method And Apparatus For Managing Financial Control Validation Processes |
| 2004-0410 | United States | 11/268235 | 8572235 | 11/07/2005 | Method And System For Monitoring A Complex IT Infrastructure At The Service Level |
| 2004-0539 | United States | 11/448339 | 8131150 | 06/07/2006 | Tunable Bidirectional Multiplexer/DeMultiplexer For Optical Transmission System |
| 2004-0539 | Patent Cooperation Treaty | PCT/US2007/013486 | | 06/07/2007 | Tunable Bidirectional Mux/deMux For Optical Transmission System |
| 2005-0160 | United States | 11/259018 | 8549156 | 10/26/2005 | Method And Apparatus For Sharing A Stored Video Session |
| 2005-0168 | United States | 11/318862 | 8146146 | 12/23/2005 | Method And Apparatus For Integrated Network Security Alert Information Retrieval |
| 2007-0279 | United States | 11/960211 | 7864687 | 12/19/2007 | Methods And Apparatus For Fault Identification In Border Gateway Protocol Networks |
| 2007-0655 | United States | 60/975314 | | 09/26/2007 | Modeling Relationships At Multiple Scales To Improve Accuracy |
| 2007-1029 | United States | 12/074388 | 8290362 | 03/04/2008 | Predictive End-To-End Management For SONET Networks |
| 2007-1029 | United States | 13/606428 | 8873946 | 09/07/2012 | Predictive End-To-End Management For SONET Networks |
| 2007-1067 | United States | 12/152003 | 7991872 | 05/12/2008 | Vertical Integration Of Network Management For Ethernet And The Optical Transport |

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