

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| AT&T DELAWARE INTELLECTUAL PROPERTY, INC. | 08/07/2013 |
| RECEIVING PARTY DATA | |
| Name: | AT&T Intellectual Property I, L.P. |
| Street Address: | 675 W. Peachtree Street |
| Internal Address: | Suite 4000 |
| City: | Atlanta |
| State/Country: | GEORGIA |
| Postal Code: | 30308 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13959213 |
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| ATTORNEY DOCKET NUMBER: | 070172CON1/ 27.5084USC2 |
| NAME OF SUBMITTER: | Jodi L. Hartman |
| Signature: | /Jodi L. Hartman/ |
| Date: | 08/08/2013 |
| Total Attachments: 2 | |
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| source=5084USC2 Recordable assignment from ATT Del IP to ATT IP l#page2.tif | |

OP \$40.00 13959213

RECORDABLE PATENT ASSIGNMENT

This Recordable Patent Assignment is between AT&T Delaware Intellectual Property, Inc., a Delaware corporation, (formerly known as AT&T BLS Intellectual Property, Inc., which was formerly known as AT&T Intellectual Property, Inc., which was formerly known as BellSouth Intellectual Property Corporation), ("AT&T Delaware IP") and AT&T Intellectual Property I, L.P. ("AT&T IP I"), 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 Delaware IP hereby assigns, transfers, and conveys and/or has assigned, transferred, and conveyed to AT&T IP I all of AT&T Delaware IP's 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 Delaware IP 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 Delaware IP 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 I, 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.

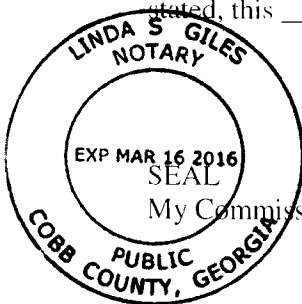
**AT&T INTELLECTUAL PROPERTY
MARKETING, INC.**
As successor in interest to AT&T DELAWARE
INTELLECTUAL PROPERTY, INC.

By: *Deborah W. Perantoni*
Deborah W. Perantoni
Assistant Secretary

STATE OF Georgia)
COUNTY OF Cobb) ss:

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 7th day of August, 2013



Linda S. Giles
Notary Public

My Commission Expires: March 16, 2016

ATTACHMENT A

| Serial Number | Filing Date | Title |
|---------------|----------------|--|
| 13/959,213 | August 5, 2013 | Methods, Systems, And Computer-Readable Media For Utilizing A Repeating Function To Improve Quality Of Service |