

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5869850

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | AT&T SERVICES, INC. | 10/05/2015 |
| RECEIVING PARTY DATA | | |
| Name: | AT&T INTELLECTUAL PROPERTY I, L.P. | |
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| State/Country: | GEORGIA | |
| Postal Code: | 30308 | |
| PROPERTY NUMBERS Total: 1 | | |
| Property Type | Number | |
| Application Number: | 11949452 | |
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| ATTORNEY DOCKET NUMBER: | 2006-A1843 | |
| NAME OF SUBMITTER: | JEANNE PANIAGUA | |
| SIGNATURE: | /Jeanne Paniagua/ | |
| DATE SIGNED: | 12/16/2019 | |
| Total Attachments: 2 | | |
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| source=2006-A1843_ATTServicesInc_ATTIP, L.P._ RecordableAssn#page2.tif | | |

RECORDABLE PATENT ASSIGNMENT

This Recordable Patent Assignment is between AT&T Services, Inc. ("AT&T Services"), a Delaware corporation, and AT&T Intellectual Property I, L.P. ("AT&T IP I"), a Nevada limited partnership.

Effective on December 19, 2011, through operation of a merger of AT&T Operations into AT&T Services, Inc., for good and adequate consideration, the receipt and sufficiency of which has been and hereby is acknowledged, AT&T Services hereby assigns, transfers, and conveys and/or has assigned, transferred, and conveyed to AT&T IP I all of AT&T Services' 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 Services 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 Services 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 Services has caused this Recordable Patent Assignment to be executed by its duly authorized representative.

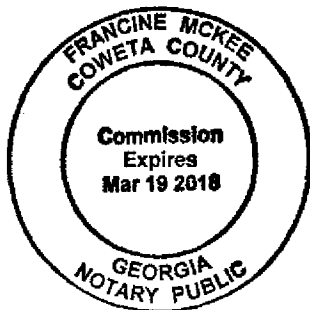
AT&T SERVICES, INC.

By: *Jeanette Napp*
Jeanette Napp
Assistant Secretary
AT&T Services, as Successor-in-Interest to
AT&T Operations, Inc.

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 5th day of October, 2015.

SEAL



Francine McKee
Notary Public

PATENT
REEL: 051295 FRAME: 0517

ATTACHMENT A

AT&T Docket 2006-A1843

Application No. 14/486656
Date Filed September 15, 2014
Title: Method And Apparatus For Providing Authentication

Application No. 11/949452
Patent No. 8839386
Date Filed December 03, 2007
Title: Method And Apparatus For Providing Authentication