

10-11-2002

FORM PTO-1595
(Rev. 6-93)
OMB-0651-0011

RE



T U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents

102247901

Attached original documents or copy thereof.

1. Name of conveying party(ies):

AT&T Corp.

10.9.02

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date(s): March 29, 1996

2. Name and address of receiving party(ies)

Name: Lucent Technologies Inc.

Internal Address: _____

Street Address: 600 Mountain Avenue

P.O. Box 636

City: Murray Hill State: NJ ZIP: 07974-0636

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

09/098802

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Docket Administrator

Internal Address: Room 3J-219

Street Address: 101 Crawfords Corner Road

City: Holmdel State: NJ ZIP: 07733-3030

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number: 12-2325

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Matthew J. Hodulik

Name of Person Signing

Signature

10/2/02

Date

Total number of pages including cover sheet, attachments, and document: _____

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignment

Washington, D.C. 20231

10/10/2002 DRYDNE 00000199 123325 09098802
Case Name/No.: Kumar 19-8-11-4-4

01 FC:581 40.00 CH

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231, on 10/2/02

Signature

PATENT ASSIGNMENT

WHEREAS, AT&T CORP., a corporation created under the laws of the State of New York (hereinafter ASSIGNOR), having an office at 32 Avenue of the Americas, New York, New York, 10013, U.S.A., presently owns or controls TRANSFERRED PATENTS (after giving effect to the assignment referred to in the definition of TRANSFERRED PATENTS); and

WHEREAS, the Board of Directors of ASSIGNOR has determined that it is in the best interests of ASSIGNOR and its shareholders to separate ASSIGNOR's existing businesses into three independent businesses; and

WHEREAS, as part of the foregoing, ASSIGNOR desires to transfer, assign, convey, deliver and vest all of its interests and rights in TRANSFERRED PATENTS for all countries, jurisdictions and political entities of the world, to and in LUCENT TECHNOLOGIES INC., a corporation created under the laws of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974, U.S.A. (hereinafter ASSIGNEE).

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, effective March 29, 1996 (immediately after the effectiveness of the assignment by NCR CORPORATION referred to in the definition of TRANSFERRED PATENTS), ASSIGNOR by these presents does, subject to existing rights and licenses of third parties, hereby assign, convey, transfer and deliver, and agrees to assign, convey, transfer and deliver to ASSIGNEE, its successors, assigns and legal representatives or nominees, ASSIGNOR's entire right, title and interest, for all countries, jurisdictions and political entities of the world, along with the right to sue for past infringement, to all TRANSFERRED PATENTS with respect to which, and to the extent to which, ASSIGNOR now has or hereafter acquires the right to so assign, convey, transfer and deliver.

ASSIGNOR agrees that, upon request it will, at any time without charge to ASSIGNEE but at ASSIGNEE's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for vesting title to TRANSFERRED PATENTS in ASSIGNEE, its successors, assigns and legal representatives or nominees; including but not limited to any acts which may be necessary, desirable or convenient for claiming said rights and for securing and maintaining said patents in any and all countries and for vesting title thereto in ASSIGNEE, its successors, assigns and legal representatives or nominees.

**AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS**

(Final Version)

**PATENT
REEL: 013361 FRAME: 0378**

As used herein "TRANSFERRED PATENTS" means all patents and filed patent applications owned or controlled by ASSIGNOR as of the date hereof (which are, for example, in the name among others of AT&T Corp., AT&T Information Systems, AT&T Bell Laboratories and American Telephone and Telegraph Company, including certain patents previously assigned to ASSIGNOR by NCR CORPORATION under a separate Patent Assignment) except for the following:

- (i) all patents and patent applications listed in Appendix "A" hereof, which will be retained by ASSIGNOR; those patents and patent applications listed in Appendix "B" hereof, which ASSIGNOR is assigning to its Subsidiary, NCR CORPORATION, a Maryland corporation, by an equivalent Assignment executed as of this date; and those patents listed in Appendix "C" hereof, in which ASSIGNOR is assigning an undivided, one-half (1/2) interest to ASSIGNEE by a separate Assignment executed as of this date; and
- (ii) all patents and patent applications owned or controlled by AT&T WIRELESS SERVICES, INC., a Delaware corporation, and by its Subsidiaries; and
- (iii) all patents and patent applications owned and controlled by NCR CORPORATION and by its Subsidiaries; and
- (iv) all patents and patent applications owned or controlled by ASSIGNEE's Subsidiaries (it being understood that by its assumption of ownership or control of such Subsidiaries, ASSIGNEE has acquired or will acquire an interest in such patents and applications independent of this Assignment).

Appendix "D" hereof represents ASSIGNOR's and ASSIGNEE's joint view of those patents and patent applications included in the definition of TRANSFERRED PATENTS. In case of conflict between such definition and Appendix "D", the definition shall control; and if requested, ASSIGNOR will execute a writing identifying corrections in Appendix "D".

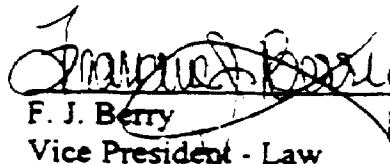
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PATENT
REEL: 013361 FRAME: 0379

29 Signed for AT&T CORP. at Basking Ridge, New Jersey, this
day of March, 1996


F. J. Berry
Vice President - Law
AT&T CORP.

Secretary

Accepted for LUCENT TECHNOLOGIES INC. at Liberty Corner, New Jersey, this
29 day of March, 1996.


M. R. Greene
Vice President - Law
LUCENT TECHNOLOGIES INC.

Secretary

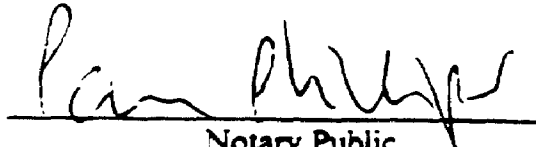
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PATENT
REEL: 013361 FRAME: 0380

State of New Jersey)
County of Somerset) ss:

On the 29 day of March, 1996, before me came F. J. Berry, to me known, who, being by me duly sworn, did depose and says that she is Vice President - Law of AT&T CORP., the corporation described in and which executed the foregoing instrument; that she knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by authority of the board of directors of said corporation and that she signed her name thereto by like authority.


Notary Public

PAULA PHILLIPS
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Sept. 19, 1999

State of New Jersey)
County of Somerset) ss:

On the 29 day of March, 1996, before me came M. R. Greene, to me known, who, being duly sworn, did depose and says that he is Vice President - Law of LUCENT TECHNOLOGIES INC., the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by authority of the board of directors of said corporation and that he signed his name thereto by like authority.


Notary Public

PAULA PHILLIPS
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires Sept. 19, 1999

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APPENDIX "A"
LIST OF RETAINED AT&T'S PATENTS
AND PATENT APPLICATIONS

| | |
|---------------------------------------|-----------------|
| Hanson 2-3 | mailed 1/25/96 |
| Bail 3-5-2-3 | mailed 2/23/96 |
| Arora 1-1-7 | mailed 3/19/96 |
| Bruno 10-11-10-8-38 | mailed 3/13/96 |
| Brotman 1-2-1 | mailed 12/29/95 |
| Jones 3 | mailed 12/29/95 |
| Jones 4 | mailed 12/29/95 |
| Jones 5 | mailed 12/29/95 |
| Atal 9Re | Re32580 |
| Friedes 9-3 (DROPPED) | IDS103523 |
| Bergano 14 (Mail 12/29/95) | filed |
| Evangelides 2-2-1-4-7 (Mail 11/27/95) | filed |
| Shusky 4 | 07/969679 |
| Harris 3-4 | 07/966787 |
| Clitherow 1 | 07/956709 |
| Black 1-3-3-1-1-1-1-1-1-1-1 | 07/953040 |
| Hou 3-3 | 07/935082 |
| Bauer 4 (Eric) | 07/932151 |
| Friedes 6 (ABANDONED) | 07/905056 |
| Fodale 1 (US ABANDONED) | 06/771557 |
| Carlson 1-2-1 | 07/843685 |
| Darcie 23-8-13 | 08/613307 |
| Fuentes 10 | 08/608232 |
| Rubin 6-4-1 | 08/606256 |
| Eslambochi 7 | 08/606122 |
| Foladare 31-33-40-39 | 08/600690 |
| Reityea 3-2 | 08/596791 |
| Joseph 1-1-1-10 | 08/594552 |
| Amin 1-1 | 08/592945 |
| Lee 13 | 08/592814 |
| Blahut 41-4-11-16 | 08/592783 |
| Foladare 26-26-33-33 | 08/590237 |
| Grampp 1-6 | 08/587868 |
| Ricciardi 1-1 | 08/587079 |
| Raguram 2-3-2 | 08/587062 |
| Jones 2 | 08/586021 |
| Sahni 12-1 | 08/586009 |
| Papanicolaou 3-3Re | 08/585338 |
| Gaulke 3-4-3 | 08/584417 |
| Gaulke 2-3-2 | 08/584416 |
| August 7 | 08/583144 |
| Penzias 17 | 08/582006 |
| Maxembuk 18 | 08/581717 |
| Foladare 30-32-39-37 | 08/581710 |
| August 8-18 | 08/581707 |
| Benveniste 9 | 08/581694 |

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| | |
|----------------------------|-----------|
| Mayer 10 | 08/581693 |
| Otto 1 | 08/581683 |
| Cox 1 | 08/581651 |
| Lubachevsky 6 | 08/581078 |
| Feiertag 3 | 08/580909 |
| Brotman 2-2 | 08/580702 |
| Foladare 17-23-1 | 08/580679 |
| Silverman 32 | 08/580671 |
| Benveniste 7 | 08/580570 |
| Benveniste 8 | 08/580568 |
| Chaturvedi 1-10 | 08/580478 |
| Wild 5 | 08/579709 |
| Foladare 19-20-25-29 | 08/579540 |
| Foladare 11-13-17-19 | 08/579539 |
| Foladare 18-19-24-28 | 08/579188 |
| Foladare 13-15-19-21 | 08/579184 |
| Goldman 31-2-37-4-2 | 08/579173 |
| Furman 6-9-7 | 08/578362 |
| Jain 3-13 | 08/577892 |
| Martinez 1 | 08/577891 |
| Garberg 2-3 | 08/576740 |
| Cirelli 1-1 | 08/576733 |
| Aykin 2-5-2-4-4-3-3 | 08/576430 |
| Lubachevsky 5 | 08/576388 |
| Foladare 28-28-35 | 08/576387 |
| Clancy 1-3-11-4-7-1 | 08/575789 |
| Rahim 2 | 08/575378 |
| Hilli 1 | 08/574476 |
| Concepcion 1-3-1-2-4-3-2-3 | 08/574419 |
| Foladare 24-29-36-35 | 08/573839 |
| Allen 16 | 08/573743 |
| DeMont 1 | 08/573046 |
| Chen 10-14 | 08/572982 |
| Dalton 1-1-1-1 | 08/572826 |
| Krishnamurthy 5 | 08/571322 |
| Swanson 5 | 08/570879 |
| Bossi 3-2-2 | 08/570146 |
| Bossi 2-1-1 | 08/570145 |
| Benedikt 2-3-2 | 08/569046 |
| Norris 1-8 | 08/562678 |
| Jankowitz 1-2-3-1 | 08/562229 |
| Furman 5-9-6-2 | 08/560147 |
| Furman 4-8-5-1 | 08/559900 |
| Dagdeviren 11-1-3-3 | 08/556726 |
| Kasday 12-1-1-2-6 | 08/555555 |
| Mishra 3 | 08/555554 |
| Gupta 6 | 08/554957 |
| Cathey 1-1-1-1-1 | 08/553117 |
| Milito 4 | 08/552899 |
| Ball 2-1 | 08/549359 |
| Bruno 9-7-10-8-7-1-1 | 08/547216 |
| Story 9 | 08/542482 |

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|---------------------------|-----------|
| Atkins 5 | 08/539384 |
| Rosenthal 4-30-1 | 08/538679 |
| Foladare 22-23-28 | 08/538331 |
| Backaus 4-3-8-4-3-8-3 | 08/538109 |
| Hall 2-3-3-2-2 | 08/536914 |
| Builfer 4 | 08/536296 |
| Eslambolchi 6-1 | 08/534750 |
| Busche 1 | 08/534151 |
| Aykin 1-4-1-3-3-2-2 | 08/533045 |
| Ronen 2 | 08/532336 |
| Penzias 16-13 | 08/531508 |
| Glance 37 | 08/530551 |
| Javitz 2 | 08/529704 |
| Zave 1 | 08/528900 |
| Buhrke 3-6-4 | 08/528821 |
| Gorm 6-1-1-18 | 08/528578 |
| Foladare 20 | 08/528292 |
| Murmick 5-8 | 08/527241 |
| Buck 1-1 | 08/527117 |
| Cross 1-1-1-3-1-1 | 08/526794 |
| Cross 1-1-1-3-1-1 | 08/526794 |
| Bodeep 5 | 08/526736 |
| Benedikt 1-2-1 | 08/526609 |
| Jagadish 13-4-7 | 08/525931 |
| Bruno 8-5-6-6-9-2-6-6-7 | 08/525440 |
| Bruno | 08/524551 |
| Foladare 23-24-10-29-5-31 | 08/524360 |
| Foladare 21-22-27-30 | 08/520425 |
| Baker 6-4 | 08/519268 |
| Feldman 2-2-2 | 08/515471 |
| Greenspan 8 | 08/512609 |
| Civanlar 5-5 | 08/511430 |
| Ehrlich 2-2 | 08/511034 |
| Civanlar 3-3 | 08/509308 |
| Civanlar 6-6 | 08/509307 |
| Gillon 5-3-3 | 08/509004 |
| Foladare 16-18-22 | 08/508373 |
| Byrd 1-1-1 | 08/508143 |
| Bruno 6-7-24 | 08/507868 |
| Buhler 1-1-1 | 08/505507 |
| Gitlin 38-11 | 08/504481 |
| Akinpelu 5-6-5 | 08/503254 |
| Weber 26 | 08/502783 |
| Mayer 7-9 | 08/502268 |
| Kochanski 24 | 08/499077 |
| Foladare 9-11-15 | 08/497060 |
| Jaczak 1-1 | 08/497040 |
| Eslambolchi 5 | 08/496786 |
| Bruno 5-6-5-6-5-7-5-23 | 08/495747 |
| Mayer 5 | 08/494610 |
| Foladare 15-17-9-21-4-25 | 08/487357 |
| August 6 | 08/479541 |

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|----------------------------|-----------|
| Eisdorfer 7-9-5 | 08/476811 |
| Partridge 16 | 08/460398 |
| Blouder 76-6-2-3 | 08/455939 |
| Wynn 5 | 08/455932 |
| Faust 1 | 08/451298 |
| Faust 2 | 08/451248 |
| Cerciello 1-1-1 | 08/449984 |
| Carlsen 7-8-4 | 08/449377 |
| Carlsen 8 | 08/447670 |
| Civanlar 2-2 | 08/447666 |
| Allen 14 | 08/443509 |
| Carlsen 6-7-3 | 08/442943 |
| Bhusri 2 | 08/442529 |
| Hodges 2-3 | 08/440183 |
| Alesio 5-17-3-11 | 08/439615 |
| DeJager 2 | 08/431607 |
| Foladare 10-12-68-16-22 | 08/431351 |
| Foladare 14-16-20 | 08/431228 |
| Eslamboichi 4 | 08/430652 |
| Chu 4 | 08/430643 |
| Chu 5 | 08/430634 |
| Miska 4-5 | 08/424825 |
| Mark 1 | 08/421709 |
| Funkhouser 1 | 08/418338 |
| Corrigan 1-9-4-3 | 08/414848 |
| Burns 1-7-1-2-6-1 | 08/414555 |
| Akinpelu 4-5-4-2-2-2-7-4-2 | 08/410585 |
| Farber 1-6-2-1-1 | 08/409579 |
| Eisdorfer 3-8-1 | 08/408429 |
| Ash 9-2-1-1-10-1-2 | 08/407171 |
| Civanlar 10-42 | 08/402664 |
| Chang 1-1-1 | 08/402235 |
| Bruno 3-2-2-4-1 | 08/401315 |
| Bruno 4-3-3-5 | 08/401314 |
| Velardo 1-4 | 08/398272 |
| Kapsales 7-7 | 08/395009 |
| Kapsales 6 | 08/391803 |
| Faynberg 1 | 08/385013 |
| Foladare 8-10-6-14-8 | 08/385004 |
| Foladare 2-13-13-17 | 08/379425 |
| Creswell 3-5-2-3 | 08/376501 |
| Foladare 3-14-8-13 | 08/374430 |
| Schlanger 7 | 08/367386 |
| Markowitz 3 | 08/365611 |
| Cart 1-6 | 08/364650 |
| Mayer 4 | 08/364563 |
| Rudrapatna 2-2-20-15-20 | 08/361355 |
| Chen 1-4-4-2-1-4-4-4 | 08/357473 |
| Bergano 12-1 | 08/355798 |
| Bergano 13-2 | 08/355788 |
| Fernandez 1-1-15 | 08/355384 |
| Barber 1-1-1-1 | 08/355382 |

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|----------------------------|-----------|
| Blaze 2 | 08/351918 |
| Glance 38 (ABANDONED) | 08/350864 |
| Eisdorfer 2-5-7-9-4-11 | 08/346655 |
| Eisdorfer 1-4 | 08/346654 |
| Chakrin 3 | 08/344394 |
| Kapsales 4 | 08/344307 |
| Kapsales 5 | 08/344306 |
| Cannon 8 | 08/333908 |
| Buczny 1-1-2 | 08/333668 |
| August 5-10 | 08/333183 |
| Blyler 38 | 08/332227 |
| Baechle 1-3-1-1-4-2 | 08/332225 |
| Kocan 2-2-1-1 | 08/330418 |
| Freedman 1 | 08/324942 |
| Akimpetu 3-3-3-1-1-1-6-3-1 | 08/324825 |
| Gorham 1-3-4-3 | 08/324642 |
| Mollenauer 28 | 08/323949 |
| Chanda 2-1-2 | 08/323303 |
| Paulus 2-2-1 | 08/323294 |
| Basu 1-2-3-1 | 08/323197 |
| Foladare 6-7-1-1-8-3-16 | 08/316613 |
| Bergano 11 | 08/312848 |
| Allen 10-1 | 08/311647 |
| Charalambous 2-2-3 | 08/309361 |
| Leung 2 | 08/305003 |
| Asthana 4-3 | 08/293857 |
| Foladare 5-15-6-3-7-3-15 | 08/282697 |
| Bass 1-1-1-1-8-1-1 | 08/282450 |
| Kravitz 3-4-2 | 08/279764 |
| Foladare 4-5-2-6-2-14 | 08/264651 |
| D'Ambrogio 3-2-4-4-5 | 08/261626 |
| Andruska 2-4 | 08/258197 |
| Gordon 8-1-2 | 08/251827 |
| Blahut 35-2-6-8 | 08/236286 |
| Vasquez 2 | 08/234731 |
| Gitlin 34-12-21-5 | 08/234197 |
| Bruno 1-1 | 08/215069 |
| Salimando 4 | 08/214341 |
| Akimpetu 2-2-2 (ABANDONED) | 08/203102 |
| Katseff 2-3 | 08/201863 |
| Amarant 2-1-4-4-1-2-1-1 | 08/176006 |
| Feiertag 1-2-1 | 08/176005 |
| Feiertag 2-5-1-1-2 | 08/176002 |
| Wert 1 | 08/175092 |
| Merritt 1-1 | 08/175022 |
| Gabin 1-6 | 08/175021 |
| Bish 1-1-3-1-1 | 08/172374 |
| Garland 1-1 | 08/171311 |
| Darcie 1 | 08/170624 |
| Friedes 11-7-1 | 08/167596 |
| Kenney 1 | 08/166496 |
| Holterman 1 | 08/166413 |

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|--------------------------|-----------|
| La Porta 4-4 | 08/164521 |
| Wynn 2 | 08/160770 |
| Rubin 1 | 08/156557 |
| Hall 1-1-2-1-1 | 08/155614 |
| Rangachar 1 | 08/152993 |
| Kapsales 3 | 08/144061 |
| Raguram 1-1-1 | 08/140780 |
| Gibilisco 2 | 08/115366 |
| Chandra 1-1-1-2-1-1-10-6 | 08/092970 |
| Partridge 3 | 08/086956 |
| Ehrlich 3-3 | 08/085225 |
| Kochanski 7 (ABANDONED) | 08/071133 |
| Blahut 33-6 | 08/056973 |
| Ahuja 7-2-3-1-1-1-7 | 08/051724 |
| Relyea 2-1 | 08/040785 |
| Penzias 6-2-2 | 08/006333 |
| Das 1-1 | 3/19/96 |
| Hill 2-4 | 3/15/96 |
| Helfman 6 | 60/011435 |
| Franklin 1-1 | 60/010993 |
| August 9-8 | 60/009363 |
| Baker 7 | 60/004670 |
| Ahamed 11-11 | 08/000421 |
| Mondello | 4156104 |
| Mearns 1 | 4162377 |
| Weber 1 | 4191860 |
| Jordan 1-2 | 4313035 |
| Ash 1-1 | 4345116 |
| Asmuth 1 | 4348554 |
| Glance 7-9 | 4383332 |
| Pecon | 4388710 |
| Boirvie 1 | 4453217 |
| Wehr | 4470115 |
| Johnson | 4530051 |
| Ancil | 4538881 |
| Pike 1 | 4555775 |
| Decker | 4557556 |
| Everhart 3-1 | 4578531 |
| Anderson | 4586186 |
| Lee 1-1 | 4599373 |
| Asmuth 3-1-1-1-1-1 | 4611094 |
| Asmuth 4 | 4611096 |
| Fontenot | 4616359 |
| Anderson | 4633464 |
| Hayden | 4653090 |
| Ash 2-2 | 4669113 |
| Gordon | 4700339 |
| Frauenthal 1-1-1-3 | 4737983 |
| Fodale 2 | 4756020 |
| Gordon, et al | 4763191 |
| Day 1 | 4763356 |
| Bauer 1-1-1-1 | 4776004 |

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|------------------------------|---------|
| McNabb 1-1 | 4788718 |
| Else 2-2 | 4811378 |
| Binkerd et al 3-1-3-4 | 4827500 |
| Adl | 4834479 |
| Franco 1 | 4893330 |
| Bauer 1 (Eric) | 4899377 |
| Johannes | 4914655 |
| Kordahi | 4914960 |
| Gillon 3-2-4 | 4922348 |
| Scanlon 3 | 4922522 |
| Bauer 3-2-1-3-1 | 4930154 |
| Baral 3-1-1-7-7-1-6-1-3-1 | 4932042 |
| Brown 4-2-1-2-2-8-2-2-5-3 | 4939771 |
| Shepard 2 | 4953203 |
| Bhusri 1 | 4959849 |
| Daudelin 5 | 4959855 |
| Brown 3-1-1-1-7-1-4-2 | 4972461 |
| Kordahi | 5000619 |
| Benyacar 1-1-2-1-1-1-1-1-1-1 | 5003584 |
| Catron 3-1-5-2-3-2-1-1-2 | 5018191 |
| Chang | 5027110 |
| Catron 2-4-1-2-1-1 | 5033079 |
| Mollenauer | 5035481 |
| Mollenauer | 5039199 |
| Bauer 4-3-2-4-2 | 5056134 |
| Mansour 1-1 | 5058105 |
| Mollenauer | 5058974 |
| Marcuse | 5063559 |
| Faref 1-1 | 5067074 |
| Ash 5-2-1 | 5086460 |
| Ash 6-3-7-1 | 5101451 |
| Bergano | 5111522 |
| Desurvire | 5117303 |
| Ash 7-2 | 5130982 |
| Wegrzynowicz 1 | 5136636 |
| Kaplan 1 | 5163087 |
| Brown 5 | 5164983 |
| Bergano | 5173957 |
| Dowden 5-5-8-2-3-6-4-3-3 | 5181237 |
| Medamanna 1-1-4 | 5181238 |
| Askew 1-1-1-4-1-2-4-2-2-1 | 5182744 |
| Sahni 3 | 5184345 |
| Chau 4-2-2-2-2-1 | 5187710 |
| Rosenberg | 5191631 |
| Bowker, et al 3-1-1 | 5195132 |
| Gupta 1-1-1 | 5206899 |
| Bowker 4 | 5206902 |
| Pula 1 | 5208848 |
| Ramkumar 1 | 5212727 |
| Creswell 1-1-1-1-1-1-1-1-1 | 5222125 |
| Flynn 1-1 | 5223699 |
| Funk | 5226075 |

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(Final Version)

PATENT
REEL: 013361 FRAME: 0388

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| Bissell 1-1 | 5243645 |
| Heizer | 5249290 |
| Frey 9-22 | 5253288 |
| Blake 1-1 | 5270919 |
| McNair 4 | 5276444 |
| Papanicolaou 3-3 | 5278889 |
| Dabbaghi 2-2-8-2-5-2-2-3-8-6 | 5282243 |
| Shaw 1 | 5283824 |
| Zoccolillo 4 | 5287199 |
| Atkins 1-2-3-2 | 5287403 |
| Kasday 5-1 (Vasile) | 5289523 |
| Levy 2-3 | 5291550 |
| Conn 2-3-2-2 | 5291551 |
| Bergano | 5309530 |
| Bergano | 5309535 |
| Friedes 4-2 | 5311572 |
| Friedes 7-1-7-1 | 5311583 |
| Penzias 8 | 5311594 |
| Hou 1-1-1 | 5325421 |
| Binns 1-2-2-2-2-2 | 5329308 |
| Friedes 5-1-4-5 | 5329581 |
| Fraser 17-5-11 | 5329589 |
| Brown 6-5-4-4-10-4-7-5 | 5333180 |
| Doberty 1-1-1 | 5333184 |
| Gupta 2 | 5333186 |
| Bowker, et al 5-2-2 | 5333195 |
| Ananthampillai 2 | 5333308 |
| Cole | 5335224 |
| Anderson | 5343320 |
| Bergano | 5345331 |
| D'Urso 1-1-1-1-1 | 5353335 |
| Hou 2-2 | 5353336 |
| Scobee 1 | 5353339 |
| Gordon | 5357364 |
| Gupta 2-1-6 | 5357564 |
| Gnauck | 5365362 |
| Chakravarti 1-1-1-1-1-1-1 | 5369695 |
| Campbell 1-1-1-1-3 | 5373550 |
| D'Ambrogio 1-1-1-2-2 | 5375124 |
| Rosinski 1-2 | 5381467 |
| Creswell 2-2-1-2 | 5384831 |
| Ahmad 1 | 5386467 |
| Bauer 7 (Eric) | 5388257 |
| Freeman 2-1-3-1 | 5390232 |
| Casselman 2-2-2 | 5390243 |
| Chang 1-3-13-2 | 5392336 |
| Rosenthal 3 | 5392342 |
| Davitt | 5392343 |
| Ash 8-4-8-3 | 5392344 |
| Otto 6 | 5392345 |
| Fischell 1-1-2-1-5 | 5394463 |
| Alger | 5396542 |

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0389

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| Entenmann 2-2-8-2-5-2-2-3-8-6 | 5403999 |
| Pei 1 | 5406620 |
| McFarland 1-1 | 5408526 |
| Rocbe 1-4 | 5410538 |
| Bauer 5 (Eric) | 5412808 |
| Lee 5 | 5416835 |
| Seshadri 19-11-3 | 5420851 |
| Guzman 1 | 5420917 |
| Low 2-16-2 | 5420926 |
| Freeman 6-2-2-3 | 5428608 |
| Brady 1-1 | 5430782 |
| Feit 1-1-1-3-3-4 | 5430791 |
| Burd 2-2-1-2-4-1-4 | 5432845 |
| Fraser 16 | 5434914 |
| Cox 7-4 | 5434920 |
| Isidoro 3-9 | 5440563 |
| Shusky 3 | 5440620 |
| Bergano | 5440659 |
| Gitlin 33-9 | 5442625 |
| Blahur 30-2 | 5446490 |
| Smith 2 | 5450123 |
| Amarant 3-2-3-2 | 5450477 |
| Alesio 1-10-2-3 | 5450479 |
| Leung 3 | 5457408 |
| Messina | 5462389 |
| Bash 1-1-1-1 | 5463677 |
| Collins 2-1-1 | 5463683 |
| Gaechoer 3-11-4 | 5463685 |
| Chu | 5463711 |
| Chiller 1-1-1 | 5465293 |
| Furman 3 | 5465295 |
| Mukherjee 1 | 5465387 |
| Brown 2-2-4-2-2-3 | 5471877 |
| Mamyshev 3-32 | 5473458 |
| Hansen 5-19 | 5473625 |
| Partridge 6 | 5473671 |
| Partridge 2 | 5473671 |
| D'Amato 1-2-1-1-2-4 | 5473677 |
| La Porta 3-3 | 5473679 |
| Miller 6-5 | 5475746 |
| Akinpetu 1-1-1 | 5475749 |
| Eskildsen 1-6 | 5477368 |
| Alesio 4 | 5481600 |
| Griffiths 1-1-2-1 | 5481602 |
| Gutierrez 1-1-2-5 | 5481603 |
| Colbert 5 | 5485510 |
| Allen 8-1 | 5485515 |
| Atkins 2-4-6-4 | 5487107 |
| Siusky 6 | 5487111 |
| Kaplan 4-1-1 | 5488569 |
| Iyob 1-2-1-3-2-2 | 5488632 |
| Bergano 10 | 5491576 |

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(Final Version)

PATENT
REEL: 013361 FRAME: 0390

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**PATENT
REEL: 013361 FRAME: 0391**

APPENDIX "B"

LIST OF AT&T's PATENTS TO BE SEPARATELY TRANSFERRED BY AT&T
TO NCR

| Name of First Inventor | Patent Number |
|---------------------------|---------------|
| Ritchie | 4135240 |
| Pirz | 4149242 |
| Freeman | 4195338 |
| Gabbe | 4255796 |
| Christian | 4279020 |
| Abrujá | 4281381 |
| Draper | 4295219 |
| Abrujá | 4384323 |
| Brown | 4430526 |
| Gabbe | 4459658 |
| York | 4462077 |
| Forson | 4481577 |
| Abrujá | 4514728 |
| Durkee | 4516140 |
| Durkee | 4538156 |
| DeBruker | 4539637 |
| Alles | 4542375 |
| Reddington | 4554631 |
| Linderman | 4611280 |
| Keverian | 4613987 |
| Bednar | 4630196 |
| Teng | 4642758 |
| Eng | 4652733 |
| Aranguren | 4674085 |
| Grinn | 4675808 |
| Zave | 4685125 |
| MacDonald | 4697175 |
| Goldstein | 4698752 |
| Jacobs | 4704675 |
| DiPiazza | 4707689 |
| Kasday | 4710760 |
| Auer | 4725694 |
| Chang | 4725834 |
| Wagner | 4733823 |
| Afsar | 4734854 |
| Welsch | 4744023 |
| Blanset | 4744048 |
| Blanset | 4747040 |

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AT&T PROPRIETARY (RESTRICTED)
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PATENT
REEL: 013361 FRAME: 0392

| | |
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| Kumpati | 4774661 |
| Restrepo | 4779088 |
| Geis | 4787759 |
| Bogatin | 4816811 |
| Agrawal | 4825354 |
| Bishop | 4849877 |
| Taska | 4856091 |
| Beck | 4893270 |
| Lubachevsky | 4901260 |
| Bishop | 4914653 |
| Agrawal | 4930072 |
| Hopfield | 4937872 |
| Huang | 4943909 |
| Gansner | 4953106 |
| Clarey | 4975829 |
| Mosbenberg | 5020003 |
| Chou | 5020112 |
| Thompson | 5020123 |
| Krishnakumar | 5067104 |
| Denker | 5067164 |
| Setzer | 5075843 |
| Bishop | 5093913 |
| Kiang | 5101439 |
| Laggis | 5109515 |
| Fan | 5111512 |
| Bishop | 5115505 |
| Holzmann | 5129013 |
| Piepho | 5179797 |
| Black | 5184115 |
| Civanlar | 5187660 |
| Kautz | 5259067 |
| McNair | 5278905 |
| Huh | 5396612 |
| Evans 25-5-17-3 | |
| Thomas 9 | |
| Thomas 10 | |
| IDS 110434 | |
| Evans 21-27-3 | |
| LeCum 14 | |
| Denker 21-1 | |
| Evans 15-1-1 | |
| Borgida 2-2-1-2-2 | |
| Graf 15-6 | |
| Nohl 2-3 | |

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PATENT
REEL: 013361 FRAME: 0393

APPENDIX "C"

List of patents and patent applications to be jointly owned by AT&T and LUCENT subject to Joint Ownership Agreement.

| Case Name | U.S. Patent or Serial No. |
|-----------------------|---------------------------|
| 1. Claus 6 | 08/546056 |
| 2. Civanlar 4-4 | 08/494121 |
| 3. Perzias 15 | 08/431752 |
| 4. Baldwin 1-1 | 08/425968 |
| 5. Claus 4-16-3-1 | 08/372797 |
| 6. Blasz 1 | 08/366084 |
| 7. Mandelbaum 3-7 | 08/206710 |
| 8. Acampora 6 | 4232266 |
| 9. Acampora 9 | 4309764 |
| 10. Acampora 11 | 4381562 |
| 11. Acampora 12-20-15 | 4425639 |
| 12. Acampora 18-21 | 4638476 |
| 13. Acampora 24 | 4726040 |
| 14. An 1-1-1-1 | 4726056 |
| 15. Anderl 1-1-1 | 4816653 |
| 16. Anderl 3-3-3 | 4816654 |
| 17. Cohen 1-1-1-1-1 | 4837798 |
| 18. Anderl 4-4-4 | 4882474 |
| 19. Mahmoud 1 | 4882743 |
| 20. Brenden 1 | 5140694 |
| 21. McNair 7 | 5206906 |
| 22. Mitra 2-1 | 5426635 |
| 23. Maber 4 | 5450493 |
| 24. Claus 3 | 5461217 |

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**PATENT
REEL: 013361 FRAME: 0394**

APPENDIX "D"

**LIST OF PATENTS AND PATENT APPLICATIONS TRANSFERRED BY AT&T
TO LUCENT**

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 05/646064 | 05/712394 | 05/787848 | 05/853796 | 05/910190 | 05/972022 |
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| 05/650618 | 05/717987 | 05/793279 | 05/860339 | 05/912467 | 05/972024 |
| 05/651557 | 05/719259 | 05/793861 | 05/861838 | 05/913430 | 05/972025 |
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| 05/655427 | 05/726590 | 05/797715 | 05/864499 | 05/917841 | 05/972107 |
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| 05/659943 | 05/732755 | 05/806324 | 05/872173 | 05/896769 | 06/001304 |
| 05/660324 | 05/741639 | 05/806364 | 05/873283 | 05/928930 | 06/001379 |
| 05/669164 | 05/744622 | 05/808036 | 05/876981 | 05/929368 | 06/001462 |
| 05/670162 | 05/748485 | 05/809030 | 05/878968 | 05/929705 | 06/002741 |
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| 05/672767 | 05/750793 | 05/810457 | 05/885385 | 05/934815 | 06/010731 |
| 05/673412 | 05/750932 | 05/821241 | 05/886557 | 05/934816 | 06/012656 |
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| 05/682590 | 05/759866 | 05/821566 | 05/889261 | 05/939062 | 06/024948 |
| 05/683589 | 05/761806 | 05/821567 | 05/891293 | 05/939248 | 06/027613 |
| 05/683851 | 05/764572 | 05/830437 | 05/892106 | 05/940398 | 06/030724 |
| 05/684974 | 05/764755 | 05/830597 | 05/893794 | 05/943162 | 06/034570 |
| 05/685280 | 05/765440 | 05/830598 | 05/899146 | 05/943681 | 06/042692 |
| 05/686460 | 05/765547 | 05/832888 | 05/899578 | 05/947021 | 06/044073 |
| 05/687462 | 05/765558 | 05/832888 | 05/900368 | 05/948164 | 06/044398 |
| 05/687623 | 05/765559 | 05/838141 | 05/900937 | 05/959206 | 06/047214 |
| 05/688593 | 05/767819 | 05/840161 | 05/901667 | 05/964193 | 06/049264 |
| 05/690735 | 05/768877 | 05/840226 | 05/902880 | 05/965777 | 06/050342 |
| 05/694636 | 05/769646 | 05/840778 | 05/902880 | 05/965992 | 06/054125 |
| 05/702630 | 05/769951 | 05/846463 | 05/903123 | 05/967174 | 06/055673 |
| 05/705197 | 05/770244 | 05/847213 | 05/903124 | 05/967548 | 06/058297 |
| 05/706655 | 05/775431 | 05/848000 | 05/903347 | 05/967549 | 06/058791 |
| 05/710358 | 05/776656 | 05/848621 | 05/916030 | 05/967806 | 06/060568 |
| 05/710358 | 05/776787 | 05/848621 | 05/907874 | 05/969220 | 06/061941 |
| 05/710514 | 05/780354 | 05/850775 | 05/908591 | 05/970945 | 06/062422 |
| 05/711285 | 05/780976 | 05/851156 | 05/909128 | 05/971886 | 06/063614 |
| 05/712392 | 05/782349 | 05/853123 | 05/909948 | 05/972021 | 06/064258 |

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**PATENT
REEL: 013361 FRAME: 0395**

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| 06/065138 | 06/117820 | 06/177776 | 06/232739 | 06/275903 | 06/331584 |
| 06/066305 | 06/119103 | 06/178032 | 06/232956 | 06/276851 | 06/331731 |
| 06/067081 | 06/119313 | 06/178321 | 06/233107 | 06/276876 | 06/332932 |
| 06/068298 | 06/120058 | 06/179594 | 06/234250 | 06/276926 | 06/333432 |
| 06/069277 | 06/120059 | 06/181283 | 06/234354 | 06/276933 | 06/336339 |
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| 06/079064 | 06/133617 | 06/191493 | 06/241050 | 06/295650 | 06/342990 |
| 06/079905 | 06/134992 | 06/192271 | 06/242371 | 06/296085 | 06/343135 |
| 06/080816 | 06/136598 | 06/192718 | 06/244133 | 06/296832 | 06/343412 |
| 06/083132 | 06/142634 | 06/193233 | 06/244134 | 06/297018 | 06/345805 |
| 06/084857 | 06/138663 | 06/194882 | 06/244851 | 06/300108 | 06/346410 |
| 06/091219 | 06/140715 | 06/198285 | 06/246487 | 06/300385 | 06/346411 |
| 06/094010 | 06/141121 | 06/198294 | 06/248192 | 06/301811 | 06/347094 |
| 06/097808 | 06/144171 | 06/199558 | 06/248206 | 06/301887 | 06/347309 |
| 06/097809 | 06/147934 | 06/201474 | 06/248305 | 06/302029 | 06/347783 |
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| 06/100388 | 06/151854 | 06/206955 | 06/250271 | 06/308446 | 06/350031 |
| 06/100923 | 06/154048 | 06/207750 | 06/253456 | 06/310609 | 06/350296 |
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| 06/103274 | 06/156029 | 06/210013 | 06/257673 | 06/310611 | 06/352238 |
| 06/104159 | 06/156187 | 06/210731 | 06/257661 | 06/310760 | 06/352330 |
| 06/104365 | 06/158053 | 06/214348 | 06/257661 | 06/314352 | 06/352518 |
| 06/107771 | 06/159167 | 06/217562 | 06/261037 | 06/314353 | 06/352519 |
| 06/107772 | 06/159167 | 06/217913 | 06/261691 | 06/314490 | 06/353218 |
| 06/107773 | 06/160028 | 06/219439 | 06/262937 | 06/314497 | 06/353246 |
| 06/107774 | 06/161008 | 06/220011 | 06/263127 | 06/324254 | 06/354507 |
| 06/107775 | 06/161496 | 06/220797 | 06/263369 | 06/324755 | 06/357053 |
| 06/107777 | 06/163787 | 06/221577 | 06/263370 | 06/324756 | 06/357292 |
| 06/107780 | 06/163958 | 06/222451 | 06/265713 | 06/326029 | 06/357772 |
| 06/107900 | 06/164160 | 06/222719 | 06/266433 | 06/327501 | 06/359880 |
| 06/111907 | 06/166851 | 06/222792 | 06/268610 | 06/327591 | 06/359988 |
| 06/113300 | 06/167956 | 06/223332 | 06/269265 | 06/328150 | 06/359990 |
| 06/114043 | 06/168708 | 06/227873 | 06/306216 | 06/328385 | 06/361320 |
| 06/116540 | 06/176901 | 06/228465 | 06/270267 | 06/329867 | 06/363093 |
| 06/116759 | 06/177095 | 06/231238 | 06/272496 | 06/330011 | 06/363491 |
| 06/117164 | 06/177096 | 06/232720 | 06/274833 | 06/330258 | 06/365620 |

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PATENT
REEL: 013361 FRAME: 0396

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|-----------|-----------|-----------|-----------|-----------|-----------|
| 06/366261 | 06/399183 | 06/436347 | 06/457289 | 06/492434 | 06/525146 |
| 06/367091 | 06/399486 | 06/436681 | 06/457600 | 06/493725 | 06/527549 |
| 06/367561 | 06/401610 | 06/437471 | 06/457982 | 06/493997 | 06/527890 |
| 06/368567 | 06/402923 | 06/437796 | 06/459477 | 06/494064 | 06/528529 |
| 06/369605 | 06/403093 | 06/437814 | 06/460401 | 06/494101 | 06/529222 |
| 06/369874 | 06/403133 | 06/438267 | 06/460406 | 06/495064 | 06/530259 |
| 06/370785 | 06/406089 | 06/439389 | 06/460495 | 06/495067 | 06/531354 |
| 06/371055 | 06/406283 | 06/441537 | 06/461704 | 06/496163 | 06/532604 |
| 06/371661 | 06/408005 | 06/441732 | 06/462065 | 06/496199 | 06/532775 |
| 06/373134 | 06/408007 | 06/441733 | 06/464383 | 06/497468 | 06/532776 |
| 06/373191 | 06/408008 | 06/443485 | 06/466293 | 06/496872 | 06/533116 |
| 06/373196 | 06/408218 | 06/452452 | 06/467274 | 06/497849 | 06/533457 |
| 06/374311 | 06/410430 | 06/444237 | 06/468947 | 06/498906 | 06/533457 |
| 06/374400 | 06/410452 | 06/444238 | 06/469410 | 06/500239 | 06/535362 |
| 06/376177 | 06/411305 | 06/444269 | 06/469483 | 06/502198 | 06/535808 |
| 06/492532 | 06/411306 | 06/445289 | 06/469663 | 06/495061 | 06/538966 |
| 06/376547 | 06/413158 | 06/445906 | 06/469799 | 06/504672 | 06/539505 |
| 06/376672 | 06/413994 | 06/445906 | 06/469891 | 06/504939 | 06/540159 |
| 06/378283 | 06/414286 | 06/446324 | 06/469938 | 06/505814 | 06/540180 |
| 06/378866 | 06/414605 | 06/446332 | 06/470329 | 06/506635 | 06/540110 |
| 06/379740 | 06/414850 | 06/446343 | 06/470722 | 06/276876 | 06/540115 |
| 06/381148 | 06/414853 | 06/447417 | 06/474091 | 06/509094 | 06/540322 |
| 06/382263 | 06/415376 | 06/448354 | 06/475468 | 06/509311 | 06/540623 |
| 06/382370 | 06/416229 | 06/448559 | 06/477528 | 06/520689 | 06/540624 |
| 06/382401 | 06/416494 | 06/448638 | 06/478264 | 06/511641 | 06/544215 |
| 06/383578 | 06/419422 | 06/448646 | 06/479062 | 06/511641 | 06/545945 |
| 06/383779 | 06/419423 | 06/448783 | 06/481039 | 06/511873 | 06/546213 |
| 06/383794 | 06/419643 | 06/448739 | 06/481996 | 06/512911 | 06/547285 |
| 06/383820 | 06/422673 | 06/450573 | 06/482963 | 06/514302 | 06/549160 |
| 06/385556 | 06/423687 | 06/450655 | 06/483513 | 06/514536 | 06/549160 |
| 06/385558 | 06/425834 | 06/451786 | 06/483923 | | 06/549971 |
| 06/387010 | 06/426293 | 06/451787 | 06/484240 | 06/516755 | 06/550063 |
| 06/388026 | 06/429290 | 06/451789 | 06/484231 | 06/517755 | 06/550765 |
| 06/389777 | 06/433382 | 06/452154 | 06/484465 | 06/518455 | 06/552610 |
| 06/389778 | 06/433449 | 06/452235 | 06/484595 | 06/518582 | 06/552610 |
| 06/389909 | 06/433977 | 06/452661 | 06/485857 | 06/518682 | 06/553093 |
| 06/389952 | 06/434522 | 06/452682 | 06/486370 | 06/518683 | 06/554793 |
| 06/391119 | 06/434524 | 06/453591 | 06/488314 | 06/518854 | 06/555167 |
| 06/388027 | 06/434535 | 06/453745 | 06/488406 | 06/519079 | 06/556138 |
| 06/393403 | 06/434585 | 06/452637 | 06/488537 | 06/519494 | 06/556763 |
| 06/394888 | 06/434618 | 06/455462 | 06/490073 | 06/521455 | 06/557663 |
| 06/395358 | 06/435071 | 06/455670 | 06/490328 | 06/521976 | 06/557663 |
| 06/399179 | 06/435702 | 06/455916 | 06/490485 | 06/522487 | 06/557663 |

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0397

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 06/558670 | 06/585886 | 06/627278 | 06/653339 | 06/678918 | 06/714683 |
| 06/558995 | 06/586241 | 06/628034 | 06/653879 | 06/678918 | 06/714888 |
| 06/559733 | 06/586399 | 06/628036 | 06/654593 | 06/679385 | 06/715046 |
| 06/550759 | 06/588302 | 06/628151 | 06/654593 | 06/680002 | 06/715279 |
| 06/560557 | 06/206280 | 06/628597 | 06/654925 | 06/680167 | 06/716357 |
| 06/561303 | 06/353049 | 06/628898 | 06/654888 | 06/680172 | |
| 06/561962 | 06/593358 | 06/629084 | 06/655630 | 06/680401 | |
| 06/562780 | 06/594117 | 06/629950 | 06/655767 | 06/681310 | 06/717649 |
| 06/562889 | 06/594439 | 06/630441 | 06/656535 | 06/681704 | 06/718498 |
| 06/562956 | 06/595970 | 06/631528 | 06/656535 | 06/682776 | 06/721187 |
| 06/563168 | 06/596052 | 06/632909 | 06/657051 | 06/684191 | 06/721533 |
| 06/564181 | 06/600205 | 06/633657 | 06/657943 | 06/684496 | 06/725707 |
| 06/564960 | 06/602098 | 06/624344 | 06/658929 | 06/684783 | 06/725921 |
| 06/566153 | 06/602627 | 06/635657 | 06/658929 | 06/685247 | 06/727945 |
| 06/565341 | 06/604370 | 06/636721 | 06/658984 | 06/685990 | 06/728379 |
| 06/565593 | 06/604880 | 06/636730 | 06/658772 | 06/687192 | 06/728297 |
| 06/565744 | 06/605077 | 06/637060 | 06/659847 | 06/687547 | 06/728813 |
| 06/566859 | 06/606946 | 06/639107 | 06/661005 | 06/689562 | 06/728465 |
| 06/566920 | 06/610095 | 06/639945 | 06/661614 | 07/55718 | 06/728465 |
| 06/567085 | 06/611129 | 06/641025 | 06/661776 | 06/690417 | 06/729915 |
| 06/567222 | 06/613421 | 06/641849 | 06/661779 | 06/690825 | 06/730372 |
| 06/573141 | 06/614624 | 06/642327 | 06/661967 | 06/693370 | 06/730674 |
| 06/574190 | 06/616844 | 06/643156 | 06/662035 | 06/693383 | 06/731100 |
| 06/575502 | 06/616915 | 06/643479 | 06/663823 | 06/693608 | 06/732887 |
| 06/576439 | 06/617145 | 06/643956 | 06/665503 | 06/694344 | 06/733358 |
| 06/576766 | 06/618074 | 06/643957 | 06/665970 | 06/694514 | 06/735289 |
| 06/576782 | 06/618804 | 06/644459 | 06/665986 | 06/695806 | 06/735779 |
| 06/581260 | 06/618872 | 06/644569 | 06/666200 | 06/697055 | 06/735851 |
| 06/578302 | 06/619266 | 06/645829 | 06/669469 | 06/699491 | 06/735998 |
| 06/578781 | 06/619704 | 06/646707 | 06/669957 | 06/699491 | 06/737257 |
| 06/579455 | 06/621081 | 06/646707 | 06/670001 | 06/700391 | 06/737258 |
| 06/579455 | 06/621083 | 06/646708 | 06/670272 | 06/700196 | 06/737259 |
| 06/580232 | 06/621143 | 06/646500 | 06/670982 | 06/702437 | 06/737732 |
| 06/581258 | 06/623247 | 06/647273 | 06/671039 | 06/702857 | 06/737953 |
| 06/581326 | 06/623280 | 06/648640 | 06/671972 | 06/703427 | 06/738503 |
| 06/582003 | 06/623835 | 06/647561 | 06/671972 | 06/703761 | 06/738525 |
| 06/582286 | 06/623958 | 06/650202 | 06/675305 | 06/704658 | 06/741026 |
| 06/582966 | 06/625274 | 06/650202 | 06/676113 | 06/705197 | 06/740556 |
| 06/583171 | 06/626229 | 06/650988 | 06/676537 | 06/706358 | 06/743268 |
| 06/584100 | 06/626430 | 06/651213 | 06/677532 | 06/708410 | 06/743268 |
| 06/584162 | 06/626399 | 06/538226 | 06/677681 | 06/473857 | 07/45278 |
| 06/583492 | 06/627177 | 06/652387 | 06/677338 | 06/712246 | 06/743667 |
| 06/585833 | 06/627237 | 06/653440 | 06/678116 | 06/714524 | 06/745278 |

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0398

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 06/745398 | 06/781795 | 06/822455 | 06/861611 | 06/901959 | 06/935163 |
| 06/748408 | 06/782014 | 06/823986 | 06/861119 | 06/902272 | 06/936998 |
| 06/749138 | 06/781895 | 06/825709 | 06/851386 | 06/903883 | 06/939723 |
| 06/749921 | 06/785546 | 07/39327 | 06/863094 | 06/904515 | 06/940186 |
| 06/750084 | 06/786844 | 06/827491 | 06/864199 | 06/906488 | 06/940463 |
| 06/751711 | 06/787764 | 06/827661 | 06/863974 | 06/907202 | 06/941489 |
| 06/751475 | 06/788061 | 06/827405 | 06/864025 | 06/907287 | 06/941491 |
| 06/751566 | 06/788259 | 07/39325 | 06/867887 | 06/907654 | 06/941490 |
| 06/751993 | 06/788322 | 06/829303 | 06/864770 | 06/909864 | 06/942452 |
| 06/752093 | 06/788415 | 06/830210 | 06/868028 | 06/912151 | 06/943767 |
| 06/753269 | 06/788454 | 06/813917 | 06/868988 | 06/912908 | 06/945215 |
| 07/55718 | 06/790768 | 06/831473 | 06/870578 | 06/913545 | 06/941701 |
| 07/91917 | 06/790769 | 06/831764 | 06/871264 | 06/912784 | 06/941704 |
| 06/753437 | 06/791917 | 06/834556 | 06/871494 | 06/912930 | 06/944780 |
| 06/754280 | 06/791918 | 06/835445 | 06/874475 | 06/912021 | 06/948436 |
| 06/755171 | 06/792056 | 06/834617 | 06/874883 | 06/912101 | 07/001682 |
| 06/756938 | 06/793088 | 06/835555 | 06/875641 | 06/912669 | 07/001916 |
| 06/88061 | 07/98557 | 06/835265 | 06/877518 | 06/913288 | 07/002428 |
| 06/758885 | 07/98557 | 06/840139 | 06/878077 | 06/913701 | 07/005356 |
| 06/759404 | 06/799154 | 06/842745 | 06/878606 | 06/914725 | 07/002923 |
| 06/759794 | 06/801063 | 06/841146 | 06/880796 | 06/914417 | 07/006989 |
| 06/760325 | 06/801262 | 06/841571 | 06/885229 | 06/916611 | 07/004191 |
| 06/761401 | 06/802406 | 06/843242 | 06/885453 | 06/916615 | 07/004595 |
| 06/761403 | 06/802420 | 06/841968 | 06/885750 | 06/919848 | 07/004919 |
| 06/762803 | 06/802842 | 06/844074 | 06/889013 | 06/922879 | 07/005229 |
| 06/766390 | 06/802978 | 06/845920 | 06/892021 | 06/923531 | 07/005248 |
| 06/768501 | 06/805526 | 06/843816 | 06/892245 | 06/924671 | 07/005672 |
| 06/768372 | 06/805583 | 06/845501 | 06/892245 | 06/924123 | 07/123567 |
| 06/769427 | 06/807655 | 06/849199 | 06/892389 | 06/924967 | 07/007708 |
| 06/769508 | 06/809451 | 06/849201 | 06/891513 | 06/925078 | 07/007748 |
| 06/770041 | 06/810982 | 06/850483 | 06/892460 | 06/925115 | 07/008802 |
| 06/771670 | 06/811069 | 06/851470 | 06/892233 | 06/925416 | 07/014107 |
| 06/773099 | 06/812536 | 06/850835 | 06/893617 | 06/926353 | 07/009789 |
| 06/774666 | 06/812542 | 06/850835 | 06/894871 | 06/926355 | 07/011699 |
| 06/776263 | 06/812618 | 06/850977 | 06/894725 | 06/926328 | 07/012689 |
| 06/776336 | 06/813756 | 06/851905 | 06/894396 | 06/928436 | 07/015353 |
| 06/776484 | 06/813768 | 06/851246 | 06/896920 | | 07/013328 |
| 06/776791 | 06/813756 | 06/854052 | 06/897565 | 06/929421 | 07/013509 |
| 06/776791 | 06/815152 | 06/854061 | 06/899767 | 06/930996 | 07/018236 |
| 06/781118 | 06/816437 | 06/854885 | 06/899982 | 06/931330 | 07/017903 |
| 06/781403 | 06/820624 | 06/854885 | 06/900034 | 06/933913 | 07/017905 |
| 06/781408 | 06/821224 | 06/855449 | 06/900245 | 06/935164 | 07/015271 |
| 06/780859 | 06/820225 | 06/856739 | 06/900245 | 06/935161 | 07/016979 |

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0399

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 07/019724 | 07/055827 | 07/107325 | 07/175567 | 07/252194 | 07/298451 |
| 07/020034 | 07/055965 | 07/107822 | 07/175697 | 07/254999 | 07/303023 |
| 07/020332 | 07/058634 | 07/108249 | 07/220873 | 07/233099 | 07/303212 |
| 07/021229 | 07/059973 | 07/110067 | 07/181830 | 07/256099 | 07/304749 |
| 07/023858 | 07/059180 | 07/110153 | 07/182001 | 07/257671 | 07/304533 |
| 07/024104 | 07/062357 | 07/109450 | 07/187098 | 07/259656 | 07/308979 |
| 07/023453 | 07/062529 | 07/112912 | 07/188587 | 07/260541 | 07/309002 |
| 07/024046 | 07/060951 | 07/114360 | 07/189914 | 07/262549 | 07/316388 |
| 07/024609 | 07/060952 | 07/114910 | 07/191636 | 07/262867 | 07/316544 |
| 07/025913 | 07/061506 | 07/115226 | 07/202860 | 07/263580 | 07/315006 |
| 07/027371 | 07/065235 | 07/115230 | 07/205014 | 07/265325 | 07/317065 |
| 07/027708 | 07/066921 | 07/115233 | 07/209149 | 07/264481 | 07/316881 |
| 07/027045 | 07/067897 | 07/115286 | 07/211134 | 07/265186 | 07/316887 |
| 07/030765 | 07/068974 | 07/116991 | 07/212768 | 07/266435 | 07/320444 |
| 07/030395 | 07/070010 | 07/116826 | 07/212768 | 07/274632 | 07/327851 |
| 07/032893 | 07/070007 | 07/118497 | 07/213953 | 07/271961 | 07/329734 |
| 07/034117 | 07/070480 | 07/118508 | 07/215831 | 07/272860 | 07/330658 |
| 07/034296 | 07/071841 | 07/126052 | 07/221817 | 07/274073 | 07/331938 |
| 07/034298 | 07/072078 | 07/126052 | 07/221952 | 07/275048 | 07/333359 |
| 07/034297 | 07/075239 | 07/126132 | 07/224832 | 07/277431 | 07/333490 |
| 07/034815 | 07/077160 | 07/128859 | 07/226917 | 07/277741 | 07/335626 |
| 07/033942 | 07/079732 | 07/132518 | 07/227221 | 07/280767 | 07/336183 |
| 07/036168 | 07/081082 | 07/142293 | 07/235726 | 07/281867 | 07/336382 |
| 07/037263 | 07/085279 | 07/142752 | 07/236332 | 07/283110 | 07/338473 |
| 07/037264 | 07/086210 | 07/145072 | 07/237264 | 07/284263 | 07/338506 |
| 07/037487 | 07/086441 | 07/145358 | 07/237265 | 07/287576 | 07/339344 |
| 07/045793 | 07/089296 | 07/145446 | 07/237252 | 07/286433 | 07/344420 |
| 07/040708 | 07/090437 | 07/146067 | 07/238373 | 07/287515 | 07/343757 |
| 07/037951 | 07/090075 | 07/146918 | 07/238373 | 07/288336 | 07/346255 |
| 07/040456 | 07/091151 | 07/154450 | 07/239076 | 07/288338 | 07/350435 |
| 07/042923 | 07/091005 | 07/153550 | 07/240174 | 07/288339 | 07/351281 |
| 07/043562 | 07/092015 | 07/155330 | 07/240882 | 07/287972 | 07/351311 |
| 07/044267 | 07/092811 | 07/158058 | 07/241833 | 07/287976 | 07/349887 |
| 07/045414 | 07/094631 | 07/160368 | 07/240882 | 07/288300 | 07/349975 |
| 07/046825 | 07/095204 | 07/163686 | 07/241279 | 07/289890 | 07/349898 |
| 07/047348 | 07/098253 | 07/168595 | 07/242858 | 07/290791 | 07/352682 |
| 07/048436 | 07/099196 | 07/169209 | 07/243345 | 07/290930 | 07/353283 |
| 07/054145 | 07/101037 | 07/171211 | 07/244952 | 07/291845 | 07/353574 |
| 07/053500 | 07/101303 | 07/169265 | 07/246069 | 07/291922 | 07/354051 |
| 07/054123 | 07/102977 | 07/169674 | 07/247228 | 07/292188 | 07/355602 |
| 07/052326 | 07/102951 | 07/170581 | 07/248468 | 07/292598 | 07/356578 |
| 07/058666 | 07/104148 | 07/170530 | 07/249213 | 07/292667 | 07/368079 |
| 07/053903 | 07/105946 | 07/175631 | 07/250790 | 07/293043 | 07/357699 |

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AT&T PROPRIETARY (RESTRICTED)
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USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0400

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| 07/358743 | 07/402030 | 07/442285 | 07/497380 | 07/553506 | 07/595899 |
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| 07/362790 | 07/402319 | 07/443772 | 07/498889 | 07/557873 | 07/597294 |
| 07/366333 | 07/404927 | 07/447298 | 07/500354 | 07/559732 | 07/601477 |
| 07/372203 | 07/408443 | 07/450810 | 07/549906 | 07/560174 | 07/601608 |
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| 07/372393 | 07/411061 | 07/456008 | 07/507099 | 07/561123 | 07/602524 |
| 07/372102 | 07/413931 | 07/458002 | 07/510378 | 07/561768 | 07/603492 |
| 07/373968 | 07/414032 | 07/458935 | 07/511160 | 07/562536 | 07/604037 |
| 07/373763 | 07/414033 | 07/459169 | 07/511872 | 07/563135 | 07/604844 |
| 07/374402 | 07/414035 | 07/459394 | 07/512632 | 07/563147 | 07/608065 |
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| 07/374501 | 07/415149 | 07/462847 | 07/514077 | 07/566802 | 07/612286 |
| 07/374504 | 07/415158 | 07/463076 | 07/514639 | 07/568656 | 07/613032 |
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| 07/376781 | 07/416576 | 07/468435 | 07/516414 | 07/571682 | 07/615537 |
| 07/376794 | 07/418440 | 07/468559 | 07/519050 | 07/572190 | 07/617464 |
| 07/378431 | 07/419996 | 07/471185 | 07/520145 | 07/576119 | 07/616507 |
| 07/378475 | 07/420420 | 07/471253 | 07/521964 | 07/572738 | 07/616541 |
| 5 | 07/420967 | 07/473139 | 07/522871 | 07/576126 | 07/619631 |
| 07/380580 | 07/421208 | 07/477012 | 07/527672 | 07/574825 | 07/621142 |
| 07/384340 | 07/423518 | 07/481731 | 07/528301 | 07/575047 | 07/620166 |
| 07/385970 | 07/422263 | 07/483530 | 07/529051 | 07/575930 | 07/620975 |
| 07/387253 | 07/422844 | 07/484139 | 07/529765 | 07/576541 | 07/622127 |
| 07/387254 | 07/423073 | 07/484316 | 07/530489 | 07/577343 | 07/623876 |
| 07/387478 | 07/423076 | 07/484707 | 07/530665 | 07/577427 | 07/622673 |
| 07/387480 | 07/423299 | 07/485418 | 07/531802 | 07/581241 | 07/622680 |
| 07/386752 | 07/423656 | 07/485689 | 07/536378 | 07/584211 | 07/623466 |
| 07/390549 | 07/424774 | 07/486583 | 07/536910 | 07/588523 | 07/624785 |
| 07/390550 | 07/425620 | 07/489841 | 07/537856 | 07/586477 | 07/625773 |
| 07/393337 | 07/426485 | 07/490538 | 07/537739 | 07/587600 | 07/624450 |
| 07/394048 | 07/425841 | 07/491373 | 07/538286 | 07/589370 | 07/627072 |
| 07/394390 | 07/428580 | 07/494786 | 07/538962 | 07/588798 | 07/628285 |
| 07/395930 | 07/429520 | 07/492143 | 07/539635 | 07/589137 | 07/629890 |
| 07/399358 | 07/429663 | 07/493015 | 07/540039 | 07/589466 | 07/629925 |
| 07/398686 | 07/434533 | 07/493017 | 07/541223 | 07/590409 | 07/630134 |
| 07/400202 | 07/440837 | 07/493021 | 07/546466 | 07/590411 | 07/630145 |
| 07/400215 | 07/439747 | 07/494070 | 07/548321 | 07/591321 | 07/631537 |
| 07/401369 | 07/441807 | 07/495196 | 07/548155 | 07/593362 | 07/632636 |
| 07/402390 | 07/445128 | 07/496736 | 07/549855 | 07/595340 | 07/634255 |
| 07/402006 | 07/445129 | 07/497467 | 07/551218 | 07/595341 | 07/635060 |

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0401

| | | | | | |
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| 07/900801 | 07/668550 | 07/708956 | 07/753582 | 07/788062 | 07/814951 |
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| 07/636178 | 07/671275 | 07/710736 | 07/755704 | 07/790304 | 07/814957 |
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| 07/638604 | 07/679163 | 07/717081 | 07/763725 | 07/797495 | 07/818019 |
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| 07/640674 | 07/678561 | 07/719699 | 07/764969 | 07/798438 | 07/821275 |
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| 07/609954 | 07/679469 | 07/724484 | 07/767005 | 07/799246 | 07/824756 |
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| 07/647325 | 07/683136 | 07/724632 | 07/768503 | 07/799508 | 07/826294 |
| 07/648709 | 07/684492 | 07/727033 | 07/768506 | 07/799584 | 07/826350 |
| 07/650155 | 07/685113 | 07/727520 | 07/769653 | 07/799589 | 07/827249 |
| 07/651067 | 07/689716 | 07/730379 | 07/770267 | 07/801331 | 07/828256 |
| 07/653362 | 07/691070 | 07/731560 | 07/771664 | 07/801236 | 07/829101 |
| 07/652704 | 07/691578 | 07/732558 | 07/773468 | 07/802908 | 07/829783 |
| 07/654399 | 07/691181 | 07/733786 | 07/771413 | 07/802912 | 07/829999 |
| 07/656263 | 07/691945 | 07/734029 | 07/774671 | 07/806934 | 07/829840 |
| 07/657230 | 07/696284 | 07/734411 | 07/775170 | 07/806971 | 07/832256 |
| 07/657893 | 07/692860 | 07/734423 | 07/780554 | 07/807524 | 07/830291 |
| 07/658277 | 07/693787 | 07/735393 | 07/778560 | 07/808704 | 07/833575 |
| 07/658145 | 07/693215 | 07/735394 | 07/781553 | 07/808950 | 07/835038 |
| 07/659537 | 07/694166 | 07/739633 | 07/781564 | 07/807687 | 07/835006 |
| 07/659793 | 07/698436 | 07/740695 | 07/782042 | 07/807915 | 07/835172 |
| 07/659985 | 07/699287 | 07/746444 | 07/782044 | 07/807973 | 07/836030 |
| 07/661711 | 07/700017 | 07/748147 | 07/782686 | 07/808989 | 07/837509 |
| 07/661761 | 07/700963 | 07/748375 | 07/784485 | 07/808990 | 07/837522 |
| 07/661979 | 07/701271 | 07/748376 | 07/785354 | 07/810072 | 07/837719 |
| 07/662532 | 07/702651 | 07/749765 | 07/785629 | 07/810617 | 07/840602 |
| 07/662549 | 07/702564 | 07/750381 | 07/785723 | 07/811634 | 07/841139 |
| 07/663284 | 07/707235 | 07/750782 | 07/786191 | 07/813225 | 07/841140 |
| 07/664187 | 07/704516 | 07/750796 | 07/786616 | 07/813079 | 07/842291 |
| 07/665055 | 07/706461 | 07/750797 | 07/787276 | 07/813553 | 07/841279 |
| 07/666162 | 07/707365 | 07/751472 | 07/787714 | 07/814062 | 07/844966 |
| 07/667734 | 07/707721 | 07/754289 | 07/787715 | 07/813188 | 07/844967 |
| 07/667851 | 07/708414 | 07/753484 | 07/787989 | 07/814850 | 07/844060 |

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0402

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 07/844099 | 07/880842 | 07/922896 | 07/954175 | 07/978002 | 07/997975 |
| 07/844810 | 07/880878 | 07/924690 | 07/954547 | 07/979134 | 07/997983 |
| 07/844811 | 07/884666 | 07/924115 | 07/954549 | 07/979363 | 07/998165 |
| 07/844819 | 07/886539 | 07/925285 | 07/954648 | 07/979958 | 07/998168 |
| 07/846484 | 07/887251 | 07/926555 | 07/955375 | 07/980859 | 07/998250 |
| 07/847129 | 07/888742 | 07/926574 | 07/956435 | 07/981028 | 07/998310 |
| 07/850238 | 07/889007 | 07/927087 | 07/955577 | 07/982046 | 08/257215 |
| 07/849901 | 07/889692 | 07/927772 | 07/955596 | 07/982165 | 07/999063 |
| 07/850147 | 07/890303 | 07/928386 | 07/957644 | 07/983348 | 07/999064 |
| 07/850637 | 07/890046 | 07/928572 | 07/958838 | 07/984080 | 07/999073 |
| 07/850639 | 07/891981 | 07/929617 | 07/958845 | 07/984809 | 07/999200 |
| 07/853459 | 07/891349 | 07/931237 | 07/959302 | 07/985784 | 07/999327 |
| 07/855814 | 07/891500 | 07/931555 | 07/959303 | 07/985425 | 07/999329 |
| 07/856619 | 07/891673 | 07/931621 | 07/959305 | 07/985985 | 07/999423 |
| 07/859267 | 07/892304 | 07/934284 | 07/959846 | 07/987213 | 07/999755 |
| 07/858789 | 07/893294 | 07/935625 | 07/959874 | 07/989675 | 08/000035 |
| 07/850521 | 07/895196 | 07/935717 | 07/962151 | 07/990308 | 08/000429 |
| 07/861720 | 07/895744 | 07/938197 | 07/962363 | 07/990309 | 08/002577 |
| 07/862082 | 07/895767 | 07/938314 | 07/964106 | 07/990477 | 08/004168 |
| 07/862394 | 07/897717 | 07/937817 | 07/964163 | 07/990479 | 08/004360 |
| 07/860464 | 07/898251 | 07/937922 | 07/964317 | 07/990743 | 08/004487 |
| 07/863522 | 07/899557 | 07/938809 | 07/964576 | 07/991033 | 08/005915 |
| 07/866942 | 07/902624 | 07/939757 | 07/965546 | 07/991067 | 08/007751 |
| 07/863901 | 07/903684 | 07/940157 | 07/966968 | 07/992278 | 08/008228 |
| 07/864742 | 07/904081 | 07/940426 | 07/968024 | 07/991790 | 08/007201 |
| 07/866761 | 07/905689 | 07/941473 | 07/968091 | 07/992205 | 08/008029 |
| 07/870724 | 07/905923 | 07/943945 | 07/968724 | 07/995636 | 08/008269 |
| 07/854774 | 07/906072 | 07/944133 | 07/968765 | 07/993155 | 08/008966 |
| 07/869352 | 07/906622 | 07/944148 | 07/968988 | 07/993262 | 08/010202 |
| 07/870741 | 07/906641 | 07/946214 | 07/969627 | 07/995417 | 08/010518 |
| 07/871155 | 07/907351 | 07/946687 | 07/969645 | 07/992308 | 08/011054 |
| 07/871607 | 07/907009 | 07/947695 | 07/965697 | 07/994566 | 08/016178 |
| 07/873532 | 07/908129 | 07/949417 | 07/971009 | 07/995655 | 08/014029 |
| 07/874935 | 07/908656 | 07/948542 | 07/972187 | 07/993866 | 08/014070 |
| 07/875168 | 07/911850 | 07/950388 | 07/972785 | 07/993888 | 08/015723 |
| 07/875927 | 07/914011 | 07/951064 | 07/975743 | 07/996303 | 08/015727 |
| 07/876169 | 07/914214 | 07/951079 | 07/976039 | 07/996340 | 08/015736 |
| 07/876532 | 07/914960 | 07/951527 | 07/976049 | 07/996350 | 08/016414 |
| 07/876551 | 07/917696 | 07/953040 | 07/976622 | 07/997256 | 08/017165 |
| 07/876984 | 07/917928 | 07/953403 | 07/976625 | 07/996456 | 08/018484 |
| 07/877335 | 07/921163 | 07/953418 | 07/977743 | 07/996541 | 08/018947 |
| 07/880257 | 07/922583 | 07/953437 | 07/977362 | 07/997152 | 08/020279 |
| 07/880727 | 07/923017 | 07/953383 | 07/978301 | 07/997479 | 08/019512 |

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0403

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 08/019957 | 08/051497 | 08/071127 | 08/089068 | 08/118289 | 08/124917 |
| 08/020508 | 08/052357 | 08/071144 | 08/091144 | 08/110235 | 08/125470 |
| 08/023243 | 08/053031 | 08/071427 | 08/091808 | 08/110907 | 08/125577 |
| 08/023295 | 08/059339 | 08/071433 | 08/092047 | 08/110908 | 08/125943 |
| 08/023404 | 08/054590 | 08/071843 | 08/092153 | 08/111087 | 08/125973 |
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| 08/026375 | 08/055495 | 08/074176 | 08/092652 | 08/111765 | 08/126814 |
| 08/026919 | 08/055602 | 08/074690 | 08/093508 | 08/112487 | 08/126846 |
| 08/026952 | 08/055937 | 08/075203 | 08/092965 | 08/112724 | 08/125612 |
| 08/027263 | 08/056044 | 08/076262 | 08/093420 | 08/113582 | 08/126414 |
| 08/028094 | 08/056234 | 08/076506 | 08/094286 | 08/113583 | 08/127021 |
| 08/028104 | 08/056329 | 08/076507 | 08/094278 | 08/113587 | 08/127024 |
| 08/028443 | 08/056971 | 08/076517 | 08/096142 | 08/113111 | 08/127564 |
| 08/029205 | 08/056974 | 08/076519 | 08/095589 | 08/113935 | 08/128281 |
| 08/029724 | 08/057060 | 08/076520 | 08/096095 | 08/113946 | 08/129282 |
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| 08/031769 | 08/057946 | 08/076526 | 08/096282 | 08/114020 | 08/129514 |
| 08/032342 | 08/059004 | 08/076564 | 08/098561 | 08/114125 | 08/129565 |
| 08/032720 | 08/059044 | 08/076659 | 08/097785 | 08/114553 | 08/129625 |
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| 08/033477 | 08/060141 | 08/078133 | 08/098167 | 08/114815 | 08/130964 |
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| 08/034335 | 08/062689 | 08/079310 | 08/099295 | 08/113788 | 08/131173 |
| 08/037656 | 08/062870 | 08/080035 | 08/099365 | 08/116309 | 08/131174 |
| 08/036585 | 08/063380 | 08/080037 | 08/099815 | 08/116657 | 08/131343 |
| 08/038594 | 08/064304 | 08/078499 | 08/100021 | 08/117967 | 08/132023 |
| 08/037858 | 08/065847 | 08/080148 | 08/107472 | 08/118108 | 08/132430 |
| 08/038370 | 08/066696 | 08/082005 | 08/101340 | 08/118109 | 08/133730 |
| 08/040236 | 08/066456 | 08/082194 | 08/100906 | 08/118540 | 08/133707 |
| 08/040327 | 08/066605 | 08/083153 | 08/102030 | 08/118982 | 08/134234 |
| 08/041661 | 08/066800 | 08/081720 | 08/102178 | 08/120119 | 08/134024 |
| 08/045846 | 08/067186 | 08/082654 | 08/102434 | 08/119685 | 08/134703 |
| 08/046513 | 08/067902 | 08/082656 | 08/102441 | 08/120254 | 08/136720 |
| 08/047169 | 08/068485 | 08/083426 | 08/103841 | 08/121123 | 08/136061 |
| 08/047160 | 08/069244 | 08/083822 | 08/105218 | 08/130667 | 08/137567 |
| 08/047590 | 08/069952 | 08/083923 | 08/106167 | 08/121952 | 08/138577 |
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| 08/048967 | 08/069960 | 08/085226 | 08/108406 | 08/121976 | 08/137534 |
| 08/049751 | 08/070148 | 08/085603 | 08/108464 | 08/121977 | 08/137542 |
| 08/049874 | 08/069321 | 08/086437 | 08/108268 | 08/122826 | 08/138824 |
| 08/049924 | 08/069498 | 08/086963 | 08/109186 | 08/122631 | 08/138887 |
| 08/050931 | 08/069665 | 08/086973 | 08/109291 | 08/123385 | 08/140809 |
| 08/051251 | 08/070571 | 08/086401 | 08/109753 | 08/123883 | 08/141306 |

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0404

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|-----------|-----------|-----------|-----------|-----------|-----------|
| 08/141780 | 08/154766 | 08/163967 | 08/172778 | 08/179831 | 08/200044 |
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| 08/142887 | 08/154771 | 08/164093 | 08/173845 | 08/178191 | 08/201603 |
| 08/143813 | 08/154773 | 08/164175 | 08/173903 | 08/178196 | 08/201823 |
| 08/144065 | 08/155047 | 08/164278 | 08/174537 | 08/178210 | 08/201866 |
| 08/144961 | 08/155973 | 08/164505 | 08/174570 | 08/178680 | 08/202608 |
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| 08/146372 | 08/156529 | 08/165143 | 08/174641 | 08/178707 | 08/203082 |
| 08/146567 | 08/156953 | 08/165276 | 08/174933 | 08/179858 | 08/203083 |
| 08/145928 | 08/155499 | 08/165568 | 08/174941 | 08/180248 | 08/203147 |
| 08/146248 | 08/156119 | 08/166130 | 08/175015 | 08/181266 | 08/205961 |
| 08/146653 | 08/156185 | 08/166414 | 08/175025 | 08/182901 | 08/205962 |
| 08/147106 | 08/156344 | 08/166496 | 08/175027 | 08/183382 | 08/205060 |
| 08/147631 | 08/156506 | 08/166657 | 08/175038 | 08/181072 | 08/205916 |
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| 08/148740 | 08/158089 | 08/166427 | 08/175076 | 08/184165 | 08/205978 |
| 08/148751 | 08/158090 | 08/167710 | 08/175326 | 08/184811 | 08/206075 |
| 08/148599 | 08/158096 | 08/167711 | 08/176359 | 08/187412 | 08/206077 |
| 08/148706 | 08/158118 | 08/168447 | 08/175444 | 08/187415 | 08/206996 |
| 08/148719 | 08/158175 | 08/168543 | 08/175486 | 08/187373 | 08/207977 |
| 08/149348 | 08/158726 | 08/168317 | 08/175657 | 08/187580 | 08/208542 |
| 08/150640 | 08/159026 | 08/169482 | 08/175658 | 08/189003 | 08/209695 |
| 08/150905 | 08/158770 | 08/169239 | 08/175659 | 08/189338 | 08/208557 |
| 08/151078 | 08/159151 | 08/170111 | 08/175808 | 08/188002 | 08/208927 |
| 08/151092 | 08/159178 | 08/170563 | 08/175877 | 08/188294 | 08/209585 |
| 08/151441 | 08/159403 | 08/170619 | 08/175909 | 08/188872 | 08/209496 |
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| 08/151610 | 29/015878 | 08/171071 | 08/176003 | 08/191685 | 08/212475 |
| 08/152120 | 08/160135 | 08/171126 | 08/176352 | 08/192239 | 08/210198 |
| 08/152616 | 08/160313 | 08/171136 | 08/176361 | 08/194192 | 08/210212 |
| 08/151689 | 08/161695 | 08/171584 | 08/176375 | 08/195221 | 08/210213 |
| 08/152543 | 08/161736 | 08/171585 | 08/176566 | 08/196961 | 08/210529 |
| 08/152655 | 08/163443 | 08/171586 | 08/176060 | 08/197654 | 08/210802 |
| 08/152769 | 08/163453 | 08/173284 | 08/176183 | 08/197895 | 08/210819 |
| 08/152531 | 08/163462 | 08/173298 | 08/176184 | 08/198802 | 08/215341 |
| 08/152556 | 08/163465 | 08/173384 | 08/176185 | 08/198667 | 08/210849 |
| 08/152805 | 08/164115 | 08/173818 | 08/176555 | 08/198743 | 08/215334 |
| 08/153391 | 08/163319 | 08/172346 | 08/176607 | 08/198915 | 08/215562 |
| 08/153731 | 08/163320 | 08/173327 | 08/176637 | 08/199364 | 08/215994 |
| 08/154197 | 08/163457 | 08/173332 | 08/176742 | 08/199366 | 08/216373 |
| 08/154202 | 08/163954 | 08/173732 | 08/176975 | 08/199910 | 08/217332 |
| 08/154150 | 08/163957 | 08/173837 | 08/177018 | 08/200043 | 08/217035 |

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0405

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|-----------|-----------|-----------|-----------|-----------|-----------|
| 08/217039 | 08/228168 | 08/239110 | 08/251051 | 08/260613 | 08/268399 |
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| 08/218015 | 08/228823 | 08/239641 | 08/251163 | 08/260860 | 08/268463 |
| 08/218469 | 08/228830 | 08/239644 | 08/251452 | 08/261565 | 08/268464 |
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| 08/218470 | 08/229043 | 08/241119 | 08/251497 | 08/261584 | 08/268466 |
| 08/218556 | 08/229258 | 08/241227 | 08/251547 | 08/261652 | 08/268467 |
| 08/219686 | 08/229857 | 08/241302 | 08/251548 | 08/263212 | 08/268468 |
| 08/220061 | 08/230263 | 08/241534 | 08/251676 | 08/262169 | 08/268475 |
| 08/220063 | 08/230565 | 08/241812 | 08/251827 | 08/262404 | 08/268482 |
| 08/220077 | 08/231528 | 08/241829 | 08/253174 | 08/262729 | 08/268487 |
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| 08/220768 | 08/233156 | 08/242500 | 08/252796 | 08/263903 | 08/268604 |
| 08/220771 | 08/233833 | 08/242510 | 08/252816 | 29/024812 | 08/268623 |
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| 08/221130 | 08/234757 | 08/243664 | 08/253464 | 08/263284 | 08/268902 |
| 08/221204 | 08/234777 | 08/245279 | 08/253469 | 08/263624 | 08/269221 |
| 08/221206 | 08/235574 | 08/245755 | 08/253520 | 08/263705 | 08/269230 |
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| 08/222220 | 08/236601 | 08/246586 | 08/254069 | 08/263971 | 08/269730 |
| 08/223252 | 08/236742 | 08/247165 | 08/254215 | 08/263978 | 08/270348 |
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| 08/223809 | 08/236790 | 08/247381 | 08/254321 | 08/264680 | 08/271308 |
| 08/223810 | 08/235958 | 08/247798 | 08/255545 | 08/265979 | 08/271934 |
| 08/223903 | 08/236059 | 08/248570 | 08/255103 | 08/264880 | 08/272161 |
| 08/224446 | 08/236307 | 08/247722 | 08/255505 | 08/265162 | 08/272180 |
| 08/224599 | 08/236618 | 08/248773 | 08/255525 | 08/265366 | 08/272349 |
| 08/225027 | 08/236706 | 08/249113 | 08/255589 | 08/267109 | 08/272350 |
| 08/225295 | 08/236843 | 08/250075 | 08/255607 | 08/278673 | 08/272501 |
| 08/225361 | 08/237980 | 08/250076 | 08/255684 | 08/267091 | 08/272503 |
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| 08/227419 | 08/238104 | 08/250252 | 08/258353 | 08/268135 | 08/276069 |
| 08/227488 | 08/238138 | 08/250253 | 08/258900 | 08/268137 | 08/276079 |
| 08/227756 | 08/238547 | 08/250746 | 08/260133 | 08/268361 | 08/276080 |
| 08/227845 | 08/239063 | 08/250876 | 08/260164 | 08/268394 | 08/276139 |

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AT&T PROPRIETARY (RESTRICTED)
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PATENT
REEL: 013361 FRAME: 0406

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| 08/276143 | 08/286839 | 08/299466 | 08/311638 | 08/320810 | 08/327539 |
| 08/276377 | 08/287333 | 08/299471 | 08/311648 | 08/320998 | 08/327751 |
| 08/277450 | 08/287500 | 08/299472 | 08/311689 | 08/321286 | 08/327765 |
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(Final Version)

PATENT
REEL: 013361 FRAME: 0407

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(Final Version)

PATENT
REEL: 013361 FRAME: 0408

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0409

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0410

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PATENT
REEL: 013361 FRAME: 0411

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| 08/505548 | 08/510161 | 08/516851 | 08/522624 | 08/528505 | 08/533156 |
| 08/506253 | 08/510205 | 08/517312 | 08/522625 | 60/003742 | 08/533803 |
| 08/506160 | 08/510219 | 08/517481 | 60/003647 | 08/528576 | 08/534217 |
| 08/506162 | 08/510225 | 08/524106 | 08/522647 | 08/528577 | 08/534218 |
| 08/506286 | 08/510226 | 08/517935 | 08/522795 | 08/528800 | 08/534232 |
| 08/506287 | 08/510228 | 08/517938 | 08/522796 | 08/528819 | 08/534371 |
| 08/506531 | 08/510834 | 08/518055 | 08/522802 | 08/528820 | 08/534145 |
| 08/506678 | 08/511163 | 08/538166 | 08/522808 | 08/528823 | 08/534356 |
| 08/506735 | 08/511197 | 08/519035 | 08/522823 | 08/528902 | 08/534419 |
| 08/507617 | 08/511389 | 08/519267 | 08/522895 | 08/537161 | 08/534524 |
| 08/507622 | 08/511845 | 08/519500 | 08/522896 | 08/529302 | 08/534534 |
| 08/507892 | 08/511987 | 08/519862 | 08/522897 | 08/529698 | 08/534607 |
| 08/507893 | 08/512002 | 08/519867 | 08/531539 | 08/529703 | 08/534760 |
| 08/507894 | 08/512003 | 08/519909 | 08/523564 | 08/529775 | 08/534761 |
| 08/507957 | 08/512005 | 08/520087 | 08/523701 | 08/529887 | 08/534767 |
| 08/508274 | 08/512503 | 08/520191 | 08/523703 | 08/529888 | 08/534773 |
| 08/508572 | 08/513195 | 08/520192 | 08/523884 | 08/529925 | 08/535433 |
| 08/508573 | 08/513198 | 08/521099 | 08/523971 | 08/530040 | 08/535677 |
| 08/508574 | 08/513417 | 08/521100 | 08/524198 | 08/530042 | 08/534903 |
| 08/508858 | 60/002100 | 08/521285 | 08/524308 | 08/530687 | 08/534909 |
| 08/508944 | 08/514034 | 08/520808 | 08/524552 | 08/530780 | 08/535362 |
| 08/508945 | 08/514038 | 08/520809 | 08/524559 | 08/530978 | 08/535399 |
| 08/510949 | 08/514040 | 08/520904 | 08/525441 | 08/530980 | 08/535417 |
| 08/509072 | 08/514199 | 08/520909 | 08/526026 | 08/530981 | 08/535603 |
| 08/509073 | 08/514327 | 08/520910 | 08/524968 | 08/530809 | 29/044855 |
| 08/509267 | 08/514707 | 08/521495 | 08/525809 | 08/530968 | 08/536548 |
| 08/509282 | 08/514902 | 08/521553 | 08/525873 | 08/530969 | 08/536554 |
| 08/509309 | 08/558997 | 08/521676 | 08/525932 | 08/530970 | 08/536905 |
| 08/509403 | 60/002275 | 08/521679 | 08/525937 | 08/531115 | 08/536908 |
| 08/509404 | 08/515445 | 08/521707 | 08/525938 | 08/531883 | 08/536916 |
| 08/509406 | 08/515625 | 08/521778 | 08/526618 | 08/531805 | 08/536917 |
| 08/509409 | 08/515874 | 08/521934 | 08/526622 | 08/531807 | 08/537198 |
| 08/509410 | 08/515887 | 08/521936 | 08/526737 | 08/531821 | 60/005506 |
| 08/509562 | 08/475109 | 08/521940 | 08/527239 | 08/531982 | 08/537372 |
| 08/509563 | 08/516060 | 08/522012 | 08/527240 | 60/004177 | 08/537561 |
| 08/509612 | 08/516111 | 08/522013 | 08/527305 | 08/532186 | 08/537562 |
| 08/509613 | 08/516368 | 08/522040 | 08/527463 | 08/532857 | 08/537565 |
| 08/509678 | 08/516369 | 08/522041 | 08/527989 | 08/533042 | 08/537568 |

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0412

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|-----------|-----------|-----------|-----------|-----------|-----------|
| 60/004670 | 08/531140 | 08/550421 | 08/556158 | 08/557800 | 08/565529 |
| 08/538316 | 08/545077 | 60/008078 | 08/556445 | 08/559868 | 08/565530 |
| 08/538317 | 08/545109 | 08/550697 | 29/046215 | 08/559888 | 08/565541 |
| 08/538318 | 08/545323 | 08/550879 | 29/046217 | 08/560671 | 08/565705 |
| 08/538518 | 08/545376 | 08/550909 | 29/046218 | 08/560694 | 08/565739 |
| 08/538872 | 08/546055 | 08/550910 | 08/554957 | 08/560722 | 08/565742 |
| 08/539211 | 08/546078 | 08/551136 | 60/006636 | 08/560754 | 08/565797 |
| 08/539473 | 08/546424 | 08/551216 | 08/555959 | 08/560755 | 29/047266 |
| 08/539000 | 08/546853 | 08/551240 | 08/556322 | 08/561473 | 08/566198 |
| 08/539476 | 08/547098 | 08/551241 | 08/556323 | 08/561547 | 08/566292 |
| 08/539491 | 08/547213 | 08/558579 | 08/556324 | 08/562235 | 08/566324 |
| 08/539950 | 08/547392 | 08/558601 | 08/556325 | 08/561675 | 08/566325 |
| 08/539951 | 08/547584 | 60/007105 | 08/556327 | 08/561676 | 08/566445 |
| 08/540510 | 08/547633 | 60/008134 | 08/556328 | 08/561682 | 60/007885 |
| 08/540529 | 08/547636 | 08/548356 | 08/556677 | 08/561906 | 60/007886 |
| 08/541535 | 08/547644 | 08/548359 | 08/557760 | 08/561996 | 60/007893 |
| 08/541863 | 08/547767 | 08/551394 | 08/557761 | 08/562954 | 08/566650 |
| 08/541984 | 08/554210 | 08/548794 | 08/557764 | 08/562970 | 08/566766 |
| 08/541985 | 08/547822 | 08/551971 | 08/558942 | 08/563067 | 08/566771 |
| 08/543570 | 08/547917 | 08/552152 | 29/046279 | 08/563154 | 08/566815 |
| 08/540693 | 08/548161 | 08/552421 | 29/046280 | 08/563189 | 08/566816 |
| 08/542208 | 08/548182 | 08/552641 | 60/006636 | 08/562619 | 08/566817 |
| 08/542241 | 08/548533 | 08/552642 | 08/556726 | 08/563688 | 08/567020 |
| 08/542242 | 08/548534 | 08/552898 | 08/557223 | 08/563816 | 08/567193 |
| 08/545042 | 08/548537 | 08/552998 | 08/557634 | 08/564608 | 08/567517 |
| 60/005141 | 08/548695 | 08/554071 | 08/557635 | 08/564610 | 08/567659 |
| 08/542480 | 08/548720 | 08/554332 | 08/557636 | 08/564611 | 08/567759 |
| 08/542767 | 08/548818 | 08/553116 | 08/557872 | 08/564613 | 08/567760 |
| 08/542995 | 08/548923 | 08/553118 | 08/557873 | 08/564699 | 08/567812 |
| 08/539465 | 08/548924 | 08/553128 | 08/557885 | 08/564700 | 08/567836 |
| 08/543460 | 08/549360 | 08/553202 | 08/559512 | 08/564701 | 08/567862 |
| 08/543539 | 08/549363 | 08/553209 | 08/559516 | 08/564858 | 08/567867 |
| 08/543568 | 08/549579 | 08/554501 | 08/559517 | 08/565038 | 08/568040 |
| 08/543583 | 08/549588 | 08/554502 | 08/559703 | 08/565157 | 08/568041 |
| 08/543639 | 08/549612 | 60/006284 | 08/558208 | 08/565286 | 08/568334 |
| 08/543692 | 08/549617 | 08/555051 | 08/558462 | 08/565287 | 29/047540 |
| 60/007002 | 60/005908 | 08/555197 | 08/559325 | 08/565330 | 08/568730 |
| 08/543885 | 08/549897 | 08/555345 | 08/559589 | 08/565476 | 08/569024 |
| 08/543900 | 08/549990 | 29/046181 | 08/560061 | 08/565499 | 08/569025 |
| 08/544243 | 08/550130 | 08/555594 | 08/560148 | 08/565501 | 08/570171 |
| 08/544244 | 08/550145 | 08/555737 | 08/560428 | 08/565526 | 08/569267 |
| 08/544346 | 08/550274 | 08/555933 | 08/560446 | 08/565527 | 08/569268 |
| 08/544351 | 08/550417 | 08/556157 | 08/560450 | 08/565528 | 08/569471 |

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(Final Version)

PATENT
REEL: 013361 FRAME: 0413

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|-----------|-----------|-----------|-----------|-----------|-----------|
| 08/569511 | 08/574418 | 08/577953 | 08/579231 | 08/580672 | 08/582566 |
| 08/569516 | 08/573645 | 08/578001 | 08/579689 | 08/580681 | 08/582569 |
| 08/569552 | 08/573670 | 60/009116 | 08/579700 | 08/580701 | 08/583250 |
| 08/570138 | 08/573671 | 60/009205 | 08/579706 | 08/580869 | 08/583355 |
| 08/570143 | 08/573672 | 60/009206 | 08/579713 | 08/580910 | 08/583361 |
| 08/570144 | 08/573673 | 08/578121 | 08/579752 | 08/580911 | 08/583367 |
| 08/570423 | 08/573700 | 08/578122 | 08/579753 | 08/580915 | 08/584497 |
| 08/570429 | 08/573701 | 08/578123 | 08/579842 | 08/580920 | 08/585317 |
| 08/570788 | 08/573702 | 08/578260 | 08/579843 | 08/580951 | 08/584932 |
| 08/570902 | 08/573705 | 08/578274 | 08/579844 | 08/580953 | 08/584935 |
| 08/570903 | 08/573736 | 08/578286 | 08/579864 | 08/580954 | 08/584936 |
| 08/570904 | 08/573738 | 08/578289 | 08/579894 | 08/580955 | 08/585086 |
| 08/570905 | 08/573739 | 08/578292 | 08/579946 | 08/581077 | 08/585969 |
| 08/570906 | 08/573763 | 08/578363 | 08/579961 | 08/581079 | 08/586036 |
| 08/571004 | 08/573923 | 08/578365 | 08/580218 | 08/581141 | 08/586268 |
| 08/571050 | 08/574003 | 08/578721 | 08/580219 | 08/581232 | 08/586347 |
| 60/008513 | 29/048033 | 08/578724 | 08/580220 | 08/581283 | 08/586412 |
| 60/008514 | 08/574472 | 08/578816 | 08/580229 | 08/581285 | 08/586413 |
| 08/571570 | 08/591186 | 08/578819 | 08/580231 | 08/581418 | 08/586414 |
| 08/572247 | 08/575972 | 08/578844 | 08/580239 | 08/581661 | 08/587060 |
| 08/572248 | 08/575974 | 08/579617 | 08/580240 | 08/581665 | 08/587061 |
| 08/572275 | 08/575975 | 08/581710 | 08/580264 | 08/581686 | 08/587064 |
| 08/572276 | 08/576119 | 08/591190 | 08/580413 | 08/581700 | 08/587426 |
| 08/572286 | 08/576142 | 08/579105 | 08/580419 | 08/581951 | 08/590696 |
| 08/572196 | 08/576385 | 08/579174 | 08/580470 | 08/586008 | 08/588155 |
| 08/572359 | 08/576411 | 08/579175 | 08/581024 | 08/586012 | 08/588156 |
| 08/572457 | 08/576420 | 08/579176 | 08/581292 | 08/587801 | 08/588673 |
| 08/572481 | 08/576421 | 08/579177 | 08/581299 | 29/048443 | 08/588193 |
| 08/572588 | 08/576602 | 08/579497 | 08/581634 | 29/048444 | 08/588478 |
| 08/572594 | 08/576607 | 08/579498 | 08/581635 | 29/048445 | 08/588493 |
| 08/572599 | 08/576662 | 08/579516 | 08/581636 | 29/048446 | 08/588954 |
| 60/009487 | 08/579051 | 08/579517 | 08/581637 | 29/048447 | 08/588970 |
| 08/572941 | 08/570738 | 08/579524 | 08/581640 | 29/048448 | 08/589224 |
| 08/572945 | 08/575791 | 08/579525 | 08/581643 | 60/009315 | 08/589229 |
| 08/572955 | 08/577077 | 08/579526 | 08/581644 | 60/009353 | 08/589233 |
| 08/572956 | 08/577301 | 08/579527 | 08/583144 | 60/009363 | 08/589314 |
| 08/572979 | 08/577350 | 08/579528 | 08/583145 | 60/009430 | 08/589428 |
| 08/573012 | 08/577454 | 08/579529 | 60/009337 | 60/009537 | 08/589660 |
| 08/573100 | 08/577637 | 08/579531 | 60/009427 | 60/009878 | 08/590236 |
| 08/573607 | 08/577786 | 08/579533 | 60/009428 | 08/581792 | 08/590239 |
| 08/573616 | 08/577890 | 08/579534 | 08/577675 | 08/581830 | 08/590722 |
| 08/573619 | 08/577947 | 08/579537 | 08/579986 | 08/581852 | 08/599500 |
| 08/574059 | 08/577952 | 08/580731 | 08/580107 | 08/582565 | 08/592245 |

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AT&T PROPRIETARY (RESTRICTED)
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(Final Version)

PATENT
REEL: 013361 FRAME: 0414

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|-----------|-----------|---------|---------|---------|---------|
| 08/592751 | 08/601218 | 4002838 | 4009415 | 4017495 | 4022988 |
| 08/592823 | 08/601414 | 4002841 | 4010323 | 4017695 | 4022989 |
| 08/592896 | 08/601805 | 4002847 | 4010381 | 4017696 | 4023141 |
| 08/593192 | 08/601928 | 4002853 | 4010385 | 4017799 | 4023199 |
| 08/593984 | 08/602427 | 4002897 | 4010388 | 4017810 | 4023208 |
| 08/593992 | 08/602428 | 4002974 | 4010454 | 4017847 | 4023258 |
| 08/594193 | 08/602888 | 4003006 | 4010484 | 4017849 | 4023260 |
| 08/594194 | 08/602893 | 4003008 | 4010488 | 4017867 | 4023911 |
| 08/594980 | 08/602894 | 4004084 | 4011006 | 4019048 | 4023997 |
| 08/595110 | 08/602944 | 4004102 | 4011144 | 4019051 | 4024349 |
| 08/595378 | 08/603022 | 4004103 | 4011465 | 4019129 | 4024351 |
| 60/010993 | 60/011846 | 4004136 | 4011583 | 4019140 | 4024452 |
| 08/590031 | 08/603770 | 4004261 | 4011980 | 4019143 | 4025156 |
| 08/594617 | 08/603793 | 4004284 | 4012113 | 4019149 | 4025410 |
| 08/595543 | 08/604045 | 4004456 | 4012240 | 4019177 | 4025729 |
| 08/592945 | 08/604136 | 4004726 | 4012267 | 4019250 | 4025735 |
| 08/596802 | 08/604629 | 4004743 | 4012598 | 4019364 | 4025737 |
| 08/596814 | 08/605429 | 4005365 | 4012628 | 4019715 | 4025852 |
| 08/597004 | 08/605579 | 4006304 | 4012699 | 4019805 | 4025853 |
| 08/597056 | 08/605580 | 4006307 | 4012726 | 4020213 | 4025867 |
| 08/596084 | 08/605698 | 4006314 | 4013000 | 4020295 | 4025888 |
| 08/597592 | 08/605979 | 4006437 | 4013466 | 4020327 | 4025911 |
| 08/597754 | 08/608228 | 4006475 | 4013501 | 4020332 | 4026348 |
| 08/597756 | 3998337 | 4006872 | 4013828 | 4020398 | 4026474 |
| 08/597758 | 3992152 | 4007334 | 4013842 | 4020459 | 4026653 |
| 08/597776 | 4000936 | 4007335 | 4013900 | 4020476 | 4026741 |
| 08/597368 | 4000937 | 4007336 | 4013915 | 4020548 | 4027052 |
| 08/598487 | 4000949 | 4007339 | 4014009 | 4021156 | 4027054 |
| 08/600102 | 4001093 | 4007381 | 4014729 | 4021217 | 4027056 |
| 08/599289 | 4001371 | 4007384 | 4014853 | 4021265 | 4027104 |
| 08/599570 | 4001517 | 4007413 | 4015083 | 4021276 | 4027114 |
| 08/599571 | 4001578 | 4007421 | 4015088 | 4021314 | 4027247 |
| 08/599572 | 4001698 | 4007447 | 4015091 | 4021617 | 4027298 |
| 08/599702 | 4001719 | 4007453 | 4015148 | 4021622 | 4027511 |
| 08/600645 | 4001858 | 4007459 | 4015159 | 4021731 | 4027814 |
| 08/600658 | 4001884 | 4007631 | 4015222 | 4021738 | 4027977 |
| 60/011435 | 4002033 | 4008117 | 4015765 | 4021791 | 4028028 |
| 08/598587 | 4002381 | 4008343 | 4016050 | 4022153 | 4028081 |
| 08/599831 | 4002389 | 4008376 | 4016369 | 4022930 | 4028146 |
| 08/600354 | 4002392 | 4008390 | 4016385 | 4022939 | 4028162 |
| 08/600389 | 4002512 | 4008439 | 4016497 | 4022974 | 4028337 |
| 08/600557 | 4002725 | 4009330 | 4017228 | 4022979 | 4028494 |
| 08/600786 | 4002803 | 4009385 | 4017288 | 4022983 | 4028496 |

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AT&T PROPRIETARY (RESTRICTED)
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PATENT
REEL: 013361 FRAME: 0415

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| 4028507 | 4032914 | 4038487 | 4045615 | 4051010 | 4056719 |
| 4028547 | 4032951 | 4038559 | 4045725 | 4051393 | 4056734 |
| 4028557 | 4033027 | 4038638 | 4046225 | 4051505 | 4056737 |
| 4028622 | 4033287 | 4038696 | 4046247 | 4051705 | 4056785 |
| 4028628 | 4033386 | 4039249 | 4046298 | 4052204 | 4056807 |
| 4028634 | 4033667 | 4039309 | 4046454 | 4052221 | 4056812 |
| 4028637 | 4033668 | 4039357 | 4046536 | 4052584 | 4056814 |
| 4028641 | 4033671 | 4039698 | 4046660 | 4052688 | 4057187 |
| 4028663 | 4033833 | 4039762 | 4046962 | 4053204 | 4057320 |
| 4028678 | 4034149 | 4039763 | 4046964 | 4053205 | 4057448 |
| 4028679 | 4034161 | 4039851 | 4046967 | 4053708 | 4057693 |
| 4028683 | 4034162 | 4039938 | 4046968 | 4053751 | 4057696 |
| 4028684 | 4034197 | 4039947 | 4046969 | 4053822 | 4058669 |
| 4028692 | 4034242 | 4039966 | 4046972 | 4054238 | 4058680 |
| 4028728 | 4034294 | 4039968 | 4046974 | 4054350 | 4058739 |
| 4028905 | 4034302 | 4039979 | 4046980 | 4054484 | 4058758 |
| 4029376 | 4034347 | 4040021 | 4047026 | 4054728 | 4058779 |
| 4029390 | 4034358 | 4040023 | 4047085 | 4054754 | 4059340 |
| 4029536 | 4034378 | 4040036 | 4047104 | 4054756 | 4059467 |
| 4029900 | 4034379 | 4040049 | 4047143 | 4054760 | 4059708 |
| 4029912 | 4034471 | 4040051 | 4047245 | 4054795 | 4059730 |
| 4030025 | 4035051 | 4040078 | 4047781 | 4054803 | 4059731 |
| 4030083 | 4035211 | 4040095 | 4048440 | 4054814 | 4060834 |
| 4030091 | 4035500 | 4040284 | 4048441 | 4054846 | 4061049 |
| 4030122 | 4035555 | 4040701 | 4048443 | 4054863 | 4061410 |
| 4030901 | 4035584 | 4040718 | 4048448 | 4054941 | 4061829 |
| 4030966 | 4036708 | 4040728 | 4048451 | 4054946 | 4061884 |
| 4031272 | 4037050 | 4040890 | 4048452 | 4055217 | 4061932 |
| 4031324 | 4037091 | 4041243 | 4048551 | 4055616 | 4062047 |
| 4031325 | 4037111 | 4041247 | 4048552 | 4055731 | 4062319 |
| 4031493 | 4037115 | 4041403 | 4048555 | 4055802 | 4062462 |
| 4031494 | 4037117 | 4041416 | 4048559 | 4055841 | 4062614 |
| 4031524 | 4037171 | 4042467 | 4048657 | 4056411 | 4062632 |
| 4031538 | 4037266 | 4042723 | 4049123 | 4056687 | 4062747 |
| 4031559 | 4037307 | 4042724 | 4049413 | 4056688 | 4062755 |
| 4032033 | 4037308 | 4042730 | 4049471 | 4056689 | 4063047 |
| 4032212 | 4037309 | 4042786 | 4049909 | 4056690 | 4063106 |
| 4032237 | 4037454 | 4043094 | 4049920 | 4056691 | 4063168 |
| 4032697 | 4037749 | 4043640 | 4050013 | 4056693 | 4063307 |
| 4032711 | 4037969 | 4043891 | 4050033 | 4056694 | 4063617 |
| 4032718 | 4038062 | 4044222 | 4050279 | 4056695 | 4064361 |
| 4032727 | 4038107 | 4044252 | 4050821 | 4056696 | 4064370 |
| 4032890 | 4038219 | 4045310 | 4050964 | 4056698 | 4064799 |

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(Final Version)

PATENT
REEL: 013361 FRAME: 0416

| | | | | | |
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| 4065316 | 4072937 | 4081290 | 4087657 | 4093345 | 4099837 |
| 4065368 | 4073675 | 4081601 | 4087658 | 4093520 | 4100003 |
| 4065643 | 4073771 | 4081620 | 4087737 | 4093774 | 4100037 |
| 4065646 | 4073974 | 4081629 | 4087786 | 4093826 | 4100374 |
| 4065679 | 4073981 | 4081653 | 4087787 | 4093905 | 4100377 |
| 4065728 | 4074072 | 4081654 | 4087900 | 4094002 | 4100533 |
| 4065773 | 4074079 | 4081658 | 4088844 | 4094178 | 4101018 |
| 4066316 | 4074086 | 4081670 | 4088846 | 4094410 | 4101066 |
| 4066317 | 4074087 | 4081692 | 4088948 | 4094580 | 4101396 |
| 4066320 | 4074212 | 4081824 | 4089051 | 4095051 | 4101847 |
| 4066483 | 4074305 | 4082487 | 4089586 | 4095052 | 4102117 |
| 4066842 | 4074318 | 4082585 | 4089594 | 4095053 | 4102661 |
| 4067651 | 4074319 | 4082602 | 4089686 | 4095122 | 4103102 |
| 4067783 | 4074320 | 4082620 | 4089704 | 4095125 | 4103104 |
| 4068022 | 4074358 | 4082624 | 4090034 | 4095165 | 4103114 |
| 4068170 | 4075299 | 4083748 | 4090038 | 4095196 | 4103126 |
| 4068512 | 4075437 | 4084023 | 4090133 | 4096010 | 4103287 |
| 4068517 | 4075514 | 4084044 | 4090147 | 4096043 | 4103327 |
| 4069392 | 4076335 | 4084308 | 4090221 | 4096354 | 4103353 |
| 4069395 | 4076356 | 4085038 | 4090227 | 4096356 | 4104109 |
| 4069916 | 4076375 | 4085298 | 4090237 | 4096358 | 4104626 |
| 4069924 | 4076380 | 4085368 | 4090400 | 4096361 | 4104672 |
| 4069970 | 4076510 | 4085396 | 4090763 | 4096362 | 4105283 |
| 4070093 | 4076556 | 4085449 | 4090843 | 4096363 | 4105337 |
| 4070229 | 4076962 | 4085453 | 4090890 | 4096399 | 4105365 |
| 4070696 | 4076968 | 4085456 | 4090896 | 4096446 | 4105863 |
| 4071290 | 4077023 | 4085998 | 4090934 | 4096508 | 4105919 |
| 4071417 | 4077039 | 4086446 | 4091127 | 4096721 | 4105973 |
| 4071479 | 4077416 | 4086448 | 4091243 | 4096970 | 4106009 |
| 4071695 | 4077693 | 4086546 | 4091290 | 4097286 | 4106070 |
| 4071722 | 4077851 | 4086547 | 4091360 | 4097780 | 4106096 |
| 4071831 | 4077852 | 4086548 | 4091415 | 4098031 | 4106847 |
| 4071842 | 4077927 | 4086620 | 4091529 | 4098753 | 4106850 |
| 4071848 | 4078255 | 4086624 | 4091657 | 4098763 | 4106959 |
| 4071888 | 4078256 | 4086816 | 4092491 | 4098922 | 4107242 |
| 4071908 | 4078851 | 4086817 | 4092493 | 4099170 | 4107260 |
| 4071944 | 4078853 | 4087150 | 4092535 | 4099256 | 4107474 |
| 4072037 | 4079210 | 4087632 | 4092587 | 4099260 | 4107495 |
| 4072427 | 4079341 | 4087633 | 4093331 | 4099305 | 4107594 |
| 4072544 | 4079382 | 4087646 | 4093338 | 4099822 | 4107595 |
| 4072768 | 4079828 | 4087647 | 4093339 | 4099823 | 4107648 |
| 4072777 | 4080534 | 4087654 | 4093343 | 4099832 | 4107668 |
| 4072830 | 4080650 | 4087656 | 4093344 | 4099835 | 4107669 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0417

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4107721 | 4117263 | 4125755 | 4132979 | 4141779 | 4148539 |
| 4107835 | 4117274 | 4125813 | 4133497 | 4142004 | 4148677 |
| 4107837 | 4117278 | 4125853 | 4133908 | 4142066 | 4149028 |
| 4107838 | 4117398 | 4125855 | 4133976 | 4142150 | 4149042 |
| 4108522 | 4117424 | 4125856 | 4133981 | 4142247 | 4149242 |
| 4108716 | 4117544 | 4125861 | 4134088 | 4142249 | 4149905 |
| 4108738 | 4117585 | 4126768 | 4134125 | 4142312 | 4150257 |
| 4108970 | 4117590 | 4126794 | 4134695 | 4142458 | 4150259 |
| 4109099 | 4117670 | 4126935 | 4134785 | 4142662 | 4150278 |
| 4109113 | 4118095 | 4127320 | 4134953 | 4142775 | 4151007 |
| 4109158 | 4118548 | 4127449 | 4135240 | 4142776 | 4151009 |
| 4109194 | 4118595 | 4127862 | 4135289 | 4142918 | 4151014 |
| 4109212 | 4118596 | 4127894 | 4135902 | 4143241 | 4151365 |
| 4109217 | 4118788 | 4127932 | 4136225 | 4143246 | 4151463 |
| 4109253 | 4119211 | 4128616 | 4136275 | 4143287 | 4151516 |
| 4109297 | 4119212 | 4128736 | 4136335 | 4143419 | 4152043 |
| 4110566 | 4119363 | 4128742 | 4136350 | 4143420 | 4152083 |
| 4110841 | 4121015 | 4128772 | 4136434 | 4144408 | 4152538 |
| 4111523 | 4121167 | 4129349 | 4136628 | 4144411 | 4152713 |
| 4111524 | 4121238 | 4129433 | 4136765 | 4144487 | 4153329 |
| 4111525 | 4122215 | 4129468 | 4136928 | 4144525 | 4153330 |
| 4111725 | 4122301 | 4129751 | 4137100 | 4144535 | 4153523 |
| 4111783 | 4122399 | 4129753 | 4137428 | 4144634 | 4153835 |
| 4112147 | 4122442 | 4129816 | 4137468 | 4145480 | 4153843 |
| 4112247 | 4123137 | 4129882 | 4137511 | 4145573 | 4153886 |
| 4112258 | 4123139 | 4129940 | 4137865 | 4145578 | 4153944 |
| 4112262 | 4123562 | 4130343 | 4138047 | 4145579 | 4153994 |
| 4112279 | 4123585 | 4130421 | 4138210 | 4145658 | 4154591 |
| 4113547 | 4123722 | 4130424 | 4138303 | 4145667 | 4154625 |
| 4113986 | 4124176 | 4130694 | 4139772 | 4145695 | 4154877 |
| 4113996 | 4124728 | 4130744 | 4139895 | 4145699 | 4154983 |
| 4114006 | 4124774 | 4130827 | 4139905 | 4146166 | 4155056 |
| 4114126 | 4124775 | 4131484 | 4139907 | 4146297 | 4155321 |
| 4114138 | 4124785 | 4131487 | 4140362 | 4146301 | 4155779 |
| 4114177 | 4124818 | 4131760 | 4140417 | 4146309 | 4156044 |
| 4114256 | 4124826 | 4131762 | 4140558 | 4146835 | 4156107 |
| 4114751 | 4124830 | 4131767 | 4140817 | 4147405 | 4156108 |
| 4115601 | 4124884 | 4131910 | 4140927 | 4147407 | 4156150 |
| 4115633 | 4125648 | 4132608 | 4140964 | 4147841 | 4156200 |
| 4115766 | 4125687 | 4132863 | 4141034 | 4147902 | 4156238 |
| 4116524 | 4125743 | 4132870 | 4141035 | 4148089 | 4156246 |
| 4116532 | 4125744 | 4132907 | 4141055 | 4148097 | 4156263 |
| 4116642 | 4125748 | 4132966 | 4141661 | 4148138 | 4156854 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0418

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4156868 | 4163942 | 4171240 | 4177658 | 4185275 | 4191800 |
| 4156934 | 4163982 | 4171344 | 4178079 | 4185302 | 4191935 |
| 4157165 | 4164025 | 4171389 | 4178474 | 4185303 | 4191970 |
| 4157178 | 4164041 | 4171466 | 4178480 | 4186278 | 4191995 |
| 4157224 | 4164678 | 4171467 | 4178550 | 4186410 | 4192008 |
| 4157486 | 4164696 | 4171489 | 4178557 | 4186994 | 4192015 |
| 4157508 | 4164703 | 4171870 | 4178678 | 4187027 | 4192062 |
| 4157562 | 4164713 | 4172021 | 4178680 | 4187111 | 4192570 |
| 4157612 | 4164716 | 4172964 | 4179032 | 4187128 | 4192571 |
| 4157856 | 4164787 | 4172965 | 4179173 | 4187399 | 4192764 |
| 4157857 | 4164790 | 4173389 | 4179186 | 4187530 | 4193040 |
| 4157860 | 4165142 | 4173470 | 4179189 | 4187555 | 4193123 |
| 4157936 | 4165410 | 4173475 | 4179322 | 4187867 | 4193177 |
| 4158112 | 4165496 | 4173736 | 4179534 | 4187974 | 4193201 |
| 4158755 | 4165515 | 4174236 | 4179625 | 4188505 | 4194062 |
| 4158825 | 4166219 | 4174377 | 4179666 | 4188578 | 4194091 |
| 4159395 | 4166254 | 4174470 | 4179798 | 4188601 | 4194297 |
| 4159443 | 4166274 | 4174842 | 4180602 | 4188671 | 4194931 |
| 4159452 | 4166276 | 4174983 | 4180625 | 4188702 | 4194933 |
| 4159514 | 4166881 | 4175060 | 4180757 | 4188840 | 4194935 |
| 4159799 | 4166924 | 4175145 | 4181387 | 4189199 | 4195201 |
| 4159919 | 4166929 | 4175213 | 4181433 | 4189208 | 4195338 |
| 4159962 | 4166931 | 4175271 | 4181544 | 4189627 | 4195791 |
| 4160127 | 4166971 | 4175277 | 4181564 | 4189711 | 4195982 |
| 4160258 | 4166987 | 4175877 | 4181750 | 4189715 | 4196263 |
| 4160261 | 4167031 | 4176021 | 4181779 | 4189716 | 4196316 |
| 4160407 | 4167032 | 4176142 | 4181821 | 4189739 | 4196318 |
| 4160682 | 4167240 | 4176170 | 4181824 | 4189767 | 4196319 |
| 4160934 | 4167601 | 4176240 | 4181888 | 4189831 | 4196321 |
| 4160952 | 4167676 | 4176248 | 4181978 | 4190330 | 4196396 |
| 4161634 | 4167715 | 4176255 | 4181979 | 4190352 | 4196439 |
| 4161635 | 4167748 | 4176344 | 4182107 | 4190467 | 4196831 |
| 4161656 | 4168427 | 4176400 | 4182796 | 4190631 | 4197023 |
| 4162034 | 4168878 | 4176908 | 4182934 | 4190747 | 4197024 |
| 4162337 | 4168907 | 4176911 | 4182999 | 4190799 | 4197355 |
| 4162416 | 4168996 | 4176961 | 4183096 | 4190813 | 4197429 |
| 4162528 | 4169215 | 4177097 | 4183692 | 4190826 | 4197430 |
| 4162537 | 4169218 | 4177354 | 4183795 | 4190896 | 4197511 |
| 4163072 | 4169289 | 4177364 | 4184049 | 4191339 | 4197580 |
| 4163120 | 4169997 | 4177436 | 4184171 | 4191440 | 4198115 |
| 4163155 | 4170021 | 4177521 | 4184913 | 4191453 | 4198158 |
| 4163237 | 4170719 | 4177553 | 4185202 | 4191545 | 4198162 |
| 4163262 | 4170764 | 4177554 | 4185242 | 4191789 | 4198476 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0419

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4198689 | 4208624 | 4216356 | 4221997 | 4227154 | 4232197 |
| 4199408 | 4208627 | 4216395 | 4222013 | 4227250 | 4232249 |
| 4199665 | 4208728 | 4216450 | 4222076 | 4227806 | 4232262 |
| 4199698 | 4209358 | 4216489 | 4222112 | 4227975 | 4232321 |
| 4199775 | 4209690 | 4216580 | 4222488 | 4227983 | 4232328 |
| 4200555 | 4209842 | 4217027 | 4222834 | 4228213 | 4232338 |
| 4200668 | 4210198 | 4217030 | 4222996 | 4228226 | 4232399 |
| 4200975 | 4210380 | 4217375 | 4223080 | 4228228 | 4232440 |
| 4201105 | 4210704 | 4217488 | 4223182 | 4228320 | 4232558 |
| 4201454 | 4210825 | 4217524 | 4223184 | 4228321 | 4233470 |
| 4201580 | 4210923 | 4217600 | 4223737 | 4228323 | 4233579 |
| 4201958 | 4210950 | 4217773 | 4223848 | 4228328 | 4233807 |
| 4201998 | 4210999 | 4218025 | 4223934 | 4228438 | 4234118 |
| 4203030 | 4211012 | 4218285 | 4223973 | 4228514 | 4234356 |
| 4203105 | 4211099 | 4218532 | 4223978 | 4228523 | 4234358 |
| 4203124 | 4211458 | 4218649 | 4224105 | 4228528 | 4234666 |
| 4203781 | 4211459 | 4218653 | 4224117 | 4229155 | 4234762 |
| 4203792 | 4211467 | 4218703 | 4224472 | 4229269 | 4235014 |
| 4204088 | 4211601 | 4218704 | 4224476 | 4229617 | 4235191 |
| 4204093 | 4212101 | 4218756 | 4224477 | 4229620 | 4235501 |
| 4204218 | 4212177 | 4218770 | 4224479 | 4229624 | 4235829 |
| 4204737 | 4212612 | 4218776 | 4224482 | 4229625 | 4236122 |
| 4204893 | 4213087 | 4219701 | 4224483 | 4229626 | 4236161 |
| 4205216 | 4213095 | 4219788 | 4224485 | 4229691 | 4236164 |
| 4205239 | 4213098 | 4219925 | 4224500 | 4229702 | 4236166 |
| 4205329 | 4213138 | 4220460 | 4224547 | 4229715 | 4236245 |
| 4205365 | 4213187 | 4220506 | 4224585 | 4229815 | 4236256 |
| 4205769 | 4213698 | 4220819 | 4224582 | 4229823 | 4236836 |
| 4205889 | 4213801 | 4220827 | 4224654 | 4229865 | 4236904 |
| 4206000 | 4213932 | 4220928 | 4225216 | 4230473 | 4236924 |
| 4206011 | 4214120 | 4220966 | 4225346 | 4230538 | 4236976 |
| 4206322 | 4214353 | 4220987 | 4225664 | 4230553 | 4237484 |
| 4206447 | 4214359 | 4220990 | 4225819 | 4230958 | 4237544 |
| 4206543 | 4214432 | 4221001 | 4226492 | 4230974 | 4237553 |
| 4207137 | 4214966 | 4221034 | 4226648 | 4230997 | 4237554 |
| 4207613 | 4215245 | 4221461 | 4226659 | 4231042 | 4238148 |
| 4207616 | 4215246 | 4221472 | 4226665 | 4231043 | 4238186 |
| 4207771 | 4215250 | 4221756 | 4226667 | 4231050 | 4238274 |
| 4208094 | 4215320 | 4221925 | 4227042 | 4231087 | 4238300 |
| 4208211 | 4215323 | 4221926 | 4227054 | 4231777 | 4238682 |
| 4208241 | 4215381 | 4221932 | 4227055 | 4231809 | 4238686 |
| 4208545 | 4216036 | 4221933 | 4227088 | 4232110 | 4238688 |
| 4208553 | 4216051 | 4221939 | 4227147 | 4232184 | 4238690 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0420

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4238691 | 4243295 | 4251130 | 4257797 | 4263341 | 4272735 |
| 4238694 | 4243700 | 4251293 | 4257824 | 4263479 | 4272810 |
| 4238695 | 4243834 | 4251326 | 4257856 | 4264128 | 4273411 |
| 4238740 | 4243959 | 4251621 | 4257901 | 4264268 | 4273594 |
| 4238836 | 4244083 | 4251694 | 4258078 | 4264299 | 4273955 |
| 4238877 | 4244775 | 4251880 | 4258234 | 4264375 | 4273963 |
| 4239323 | 4244799 | 4251884 | 4258262 | 4264916 | 4273966 |
| 4239330 | 4245199 | 4252457 | 4258411 | 4264934 | 4273970 |
| 4239337 | 4245248 | 4252999 | 4258419 | 4265410 | 4274013 |
| 4239345 | 4245294 | 4253029 | 4258468 | 4265508 | 4274047 |
| 4239443 | 4245340 | 4253035 | 4258984 | 4265980 | 4274051 |
| 4239567 | 4245345 | 4253131 | 4259540 | 4266097 | 4274052 |
| 4239787 | 4245537 | 4253155 | 4259642 | 4266182 | 4274071 |
| 4239935 | 4245883 | 4253159 | 4259648 | 4266249 | 4274237 |
| 4239955 | 4246064 | 4253163 | 4259674 | 4266399 | 4274476 |
| 4240032 | 4246128 | 4253184 | 4259680 | 4266986 | 4274854 |
| 4240040 | 4246296 | 4253185 | 4259728 | 4267065 | 4275144 |
| 4240049 | 4246584 | 4253280 | 4259734 | 4267525 | 4275276 |
| 4240127 | 4247209 | 4253289 | 4260221 | 4267532 | 4275289 |
| 4240135 | 4247327 | 4253583 | 4260432 | 4267559 | 4275308 |
| 4240142 | 4247500 | 4253728 | 4260670 | 4268109 | 4275313 |
| 4240195 | 4247740 | 4253883 | 4260850 | 4268172 | 4275314 |
| 4240196 | 4247742 | 4253907 | 4260851 | 4268374 | 4275385 |
| 4240693 | 4247910 | 4254163 | 4260859 | 4268536 | 4275404 |
| 4240716 | 4247940 | 4254164 | 4260892 | 4268568 | 4275436 |
| 4240717 | 4247945 | 4254440 | 4260909 | 4268723 | 4275437 |
| 4240843 | 4247981 | 4254443 | 4260952 | 4268942 | 4275459 |
| 4241105 | 4248353 | 4254448 | 4260972 | 4269138 | 4276098 |
| 4241109 | 4248808 | 4254547 | 4261018 | 4269463 | 4276108 |
| 4241128 | 4249013 | 4255017 | 4261056 | 4269635 | 4276243 |
| 4241206 | 4249094 | 4255481 | 4261638 | 4269670 | 4276368 |
| 4241236 | 4249181 | 4255719 | 4261639 | 4269671 | 4276448 |
| 4241261 | 4249190 | 4255721 | 4261771 | 4270030 | 4276557 |
| 4241322 | 4249249 | 4255763 | 4261800 | 4270237 | 4276614 |
| 4241425 | 4249689 | 4255779 | 4262035 | 4270424 | 4276780 |
| 4241974 | 4249962 | 4255796 | 4262081 | 4271425 | 4277321 |
| 4241979 | 4249988 | 4255851 | 4262164 | 4271445 | 4277519 |
| 4242419 | 4250409 | 4256512 | 4262172 | 4271509 | 4277642 |
| 4242636 | 4250414 | 4256534 | 4262339 | 4271524 | 4277644 |
| 4242642 | 4250508 | 4256535 | 4262805 | 4271527 | 4277645 |
| 4242650 | 4250516 | 4256544 | 4262985 | 4271536 | 4277646 |
| 4242697 | 4250534 | 4256816 | 4263032 | 4271573 | 4277647 |
| 4242717 | 4250545 | 4257097 | 4263106 | 4271583 | 4277649 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0421

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4277740 | 4282408 | 4287598 | 4296492 | 4302838 | 4309755 |
| 4277783 | 4282409 | 4288140 | 4296998 | 4302982 | 4309768 |
| 4277846 | 4282437 | 4288841 | 4297005 | 4303291 | 4310209 |
| 4278238 | 4282530 | 4288854 | 4297190 | 4303343 | 4310341 |
| 4278321 | 4282541 | 4288871 | 4297642 | 4303715 | 4310365 |
| 4278353 | 4282644 | 4288910 | 4297783 | 4303812 | 4310380 |
| 4278458 | 4282744 | 4289558 | 4298237 | 4303831 | 4310391 |
| 4278459 | 4282908 | 4289797 | 4298239 | 4303840 | 4310392 |
| 4278520 | 4282951 | 4289845 | 4298250 | 4304079 | 4310405 |
| 4278538 | 4283020 | 4289933 | 4298443 | 4304581 | 4310474 |
| 4278705 | 4283100 | 4290034 | 4298856 | 4304600 | 4310722 |
| 4278784 | 4283603 | 4290182 | 4298977 | 4304825 | 4310726 |
| 4278842 | 4283675 | 4291198 | 4299432 | 4304849 | 4310727 |
| 4278844 | 4283747 | 4291199 | 4299488 | 4304962 | 4310729 |
| 4278848 | 4283776 | 4291200 | 4299650 | 4305045 | 4310881 |
| 4278849 | 4283795 | 4291247 | 4299651 | 4305048 | 4311065 |
| 4278938 | 4283839 | 4291298 | 4299670 | 4305071 | 4311537 |
| 4278939 | 4284314 | 4291322 | 4300084 | 4305642 | 4311874 |
| 4278947 | 4284354 | 4291323 | 4300107 | 4306119 | 4311878 |
| 4278996 | 4284428 | 4291327 | 4300148 | 4306196 | 4311880 |
| 4279020 | 4284466 | 4291405 | 4300152 | 4306287 | 4312069 |
| 4279032 | 4284482 | 4291841 | 4300161 | 4306289 | 4312716 |
| 4279034 | 4284659 | 4292260 | 4300196 | 4306304 | 4312732 |
| 4279459 | 4284663 | 4292341 | 4300231 | 4307267 | 4313060 |
| 4279773 | 4284689 | 4292480 | 4300810 | 4307296 | 4313085 |
| 4279789 | 4284842 | 4292512 | 4300979 | 4307298 | 4313096 |
| 4279851 | 4284851 | 4292604 | 4300989 | 4307342 | 4313125 |
| 4280217 | 4284905 | 4292677 | 4301020 | 4307360 | 4313173 |
| 4280746 | 4284970 | 4293907 | 4301188 | 4307377 | 4313197 |
| 4280901 | 4284992 | 4294008 | 4301192 | 4307430 | 4313211 |
| 4281030 | 4285061 | 4294480 | 4301237 | 4307454 | 4313225 |
| 4281218 | 4285117 | 4295005 | 4301343 | 4307961 | 4313394 |
| 4281315 | 4285123 | 4295176 | 4301463 | 4308045 | 4313645 |
| 4281318 | 4285433 | 4295188 | 4301533 | 4308502 | 4314092 |
| 4281344 | 4285763 | 4295219 | 4301536 | 4308662 | 4314211 |
| 4281381 | 4286215 | 4295226 | 4302065 | 4309081 | 4314350 |
| 4281617 | 4286293 | 4295596 | 4302067 | 4309267 | 4314358 |
| 4281888 | 4286836 | 4295696 | 4302074 | 4309460 | 4314855 |
| 4282196 | 4286860 | 4295702 | 4302079 | 4309618 | 4314875 |
| 4282267 | 4286979 | 4296282 | 4302134 | 4309630 | 4315107 |
| 4282314 | 4287226 | 4296337 | 4302230 | 4309650 | 4315222 |
| 4282400 | 4287401 | 4296374 | 4302703 | 4309694 | 4315227 |
| 4282407 | 4287527 | 4296454 | 4302812 | 4309715 | 4315262 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0422

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4315316 | 4320505 | 4326261 | 4333214 | 4340777 | 4346145 |
| 4315518 | 4320509 | 4326805 | 4333700 | 4340863 | 4346376 |
| 4316061 | 4320514 | 4326911 | 4333708 | 4340960 | 4346385 |
| 4316284 | 4320526 | 4327172 | 4333793 | 4340967 | 4346396 |
| 4316285 | 4320535 | 4327288 | 4333814 | 4340996 | 4346437 |
| 4316567 | 4320876 | 4327340 | 4334200 | 4341731 | 4347069 |
| 4316742 | 4320938 | 4327411 | 4334291 | 4341818 | 4347431 |
| 4316750 | 4321282 | 4327530 | 4334313 | 4342003 | 4347552 |
| 4316765 | 4321568 | 4327617 | 4334774 | 4342152 | 4347656 |
| 4316779 | 4322119 | 4327966 | 4334775 | 4342386 | 4348078 |
| 4316920 | 4322451 | 4328046 | 4334903 | 4342434 | 4348263 |
| 4317035 | 4322457 | 4328087 | 4334950 | 4342607 | 4348550 |
| 4317051 | 4322687 | 4328394 | 4334951 | 4342608 | 4348720 |
| 4317193 | 4322697 | 4328489 | 4335348 | 4342924 | 4348735 |
| 4317236 | 4322700 | 4328613 | 4335464 | 4342962 | 4348772 |
| 4317276 | 4322767 | 4329659 | 4336288 | 4343004 | 4349162 |
| 4317667 | 4322843 | 4330093 | 4336467 | 4343082 | 4349236 |
| 4317695 | 4323206 | 4330380 | 4336506 | 4343088 | 4349411 |
| 4317956 | 4323295 | 4330637 | 4336582 | 4343388 | 4349587 |
| 4317964 | 4323421 | 4330683 | 4336587 | 4343527 | 4349589 |
| 4318186 | 4323638 | 4330722 | 4336792 | 4343585 | 4349700 |
| 4318737 | 4323733 | 4330744 | 4337100 | 4343643 | 4349702 |
| 4318741 | 4323735 | 4330759 | 4337133 | 4343674 | 4349704 |
| 4318752 | 4323797 | 4330764 | 4337446 | 4343677 | 4349751 |
| 4318939 | 4323799 | 4330862 | 4337466 | 4343759 | 4349753 |
| 4318995 | 4323885 | 4330935 | 4337476 | 4343827 | 4349776 |
| 4319144 | 4323911 | 4331462 | 4337520 | 4343870 | 4349796 |
| 4319190 | 4323942 | 4331831 | 4337521 | 4343887 | 4350404 |
| 4319396 | 4324038 | 4331913 | 4338676 | 4343889 | 4350513 |
| 4319473 | 4324515 | 4332341 | 4339105 | 4343970 | 4350904 |
| 4319476 | 4324575 | 4332433 | 4339296 | 4344064 | 4351030 |
| 4319922 | 4324600 | 4332440 | 4339298 | 4344177 | 4351689 |
| 4319923 | 4324954 | 4332474 | 4339632 | 4344180 | 4351697 |
| 4319939 | 4325022 | 4332677 | 4339757 | 4344223 | 4352449 |
| 4319940 | 4325038 | 4332833 | 4340092 | 4344326 | 4352479 |
| 4319967 | 4325099 | 4332839 | 4340093 | 4344816 | 4352537 |
| 4320192 | 4325139 | 4332881 | 4340094 | 4344825 | 4352566 |
| 4320252 | 4325144 | 4332984 | 4340268 | 4345163 | 4352784 |
| 4320258 | 4325758 | 4333044 | 4340278 | 4345165 | 4352785 |
| 4320261 | 4325778 | 4333097 | 4340323 | 4345170 | 4352835 |
| 4320281 | 4326126 | 4333121 | 4340434 | 4345317 | 4352870 |
| 4320409 | 4326152 | 4333156 | 4340435 | 4345814 | 4352958 |
| 4320412 | 4326169 | 4333213 | 4340451 | 4346125 | 4353081 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0423

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4353086 | 4358961 | 4365305 | 4372645 | 4376946 | 4382294 |
| 4353128 | 4359179 | 4365398 | 4372771 | 4377315 | 4382295 |
| 4353469 | 4359260 | 4365905 | 4372830 | 4377436 | 4382297 |
| 4353559 | 4359436 | 4366186 | 4372834 | 4377437 | 4382300 |
| 4353614 | 4359485 | 4366187 | 4373018 | 4377448 | 4382456 |
| 4354054 | 4359623 | 4366400 | 4373114 | 4377449 | 4383026 |
| 4354057 | 4359773 | 4366729 | 4373118 | 4377450 | 4383224 |
| 4354062 | 4360253 | 4366938 | 4373121 | 4377619 | 4383269 |
| 4354122 | 4360410 | 4367585 | 4373138 | 4377626 | 4383272 |
| 4354254 | 4360742 | 4368063 | 4373204 | 4377797 | 4383315 |
| 4354276 | 4360792 | 4368359 | 4373207 | 4377821 | 4383316 |
| 4354898 | 4360867 | 4368361 | 4373210 | 4377943 | 4383323 |
| 4354911 | 4360893 | 4368362 | 4373258 | 4378296 | 4383357 |
| 4354995 | 4360894 | 4368543 | 4373856 | 4378462 | 4383495 |
| 4355202 | 4360964 | 4369099 | 4373658 | 4378505 | 4383843 |
| 4355240 | 4360968 | 4369340 | 4373681 | 4378508 | 4383885 |
| 4355302 | 4360995 | 4369514 | 4373990 | 4378599 | 4384175 |
| 4355314 | 4361461 | 4369944 | 4373991 | 4378628 | 4384217 |
| 4355373 | 4361643 | 4370294 | 4374159 | 4379003 | 4384266 |
| 4355399 | 4361661 | 4370355 | 4374161 | 4379179 | 4384273 |
| 4355411 | 4361721 | 4370359 | 4374304 | 4379205 | 4384278 |
| 4356353 | 4361731 | 4370521 | 4374390 | 4379210 | 4384323 |
| 4356505 | 4361749 | 4370525 | 4374391 | 4379609 | 4384355 |
| 4356559 | 4361862 | 4370568 | 4374436 | 4379616 | 4384362 |
| 4356905 | 4361875 | 4370640 | 4374795 | 4379738 | 4384364 |
| 4357069 | 4361892 | 4370695 | 4374867 | 4379771 | 4384398 |
| 4357179 | 4362597 | 4370743 | 4374869 | 4380364 | 4384402 |
| 4357251 | 4362783 | 4370745 | 4375012 | 4380431 | 4384431 |
| 4357399 | 4362943 | 4371013 | 4375033 | 4380490 | 4384658 |
| 4357493 | 4363102 | 4371755 | 4375083 | 4380518 | 4384687 |
| 4357496 | 4363449 | 4371758 | 4375581 | 4380734 | 4384760 |
| 4357572 | 4363827 | 4371789 | 4375606 | 4380810 | 4384893 |
| 4357601 | 4363867 | 4371843 | 4375619 | 4380865 | 4384939 |
| 4357675 | 4364052 | 4371886 | 4375719 | 4381134 | 4385207 |
| 4357682 | 4364625 | 4371887 | 4376017 | 4381138 | 4385208 |
| 4357683 | 4364778 | 4371919 | 4376018 | 4381139 | 4385212 |
| 4357684 | 4364779 | 4372044 | 4376138 | 4381420 | 4385718 |
| 4357701 | 4364788 | 4372105 | 4376231 | 4381441 | 4385915 |
| 4357754 | 4365111 | 4372511 | 4376308 | 4381546 | 4385946 |
| 4358178 | 4365119 | 4372519 | 4376309 | 4381560 | 4385966 |
| 4358662 | 4365156 | 4372535 | 4376505 | 4381951 | 4386239 |
| 4358690 | 4365160 | 4372641 | 4376584 | 4382120 | 4386242 |
| 4358783 | 4365222 | 4372643 | 4376940 | 4382164 | 4386282 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0424

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4386402 | 4392181 | 4396994 | 4400774 | 4406712 | 4412350 |
| 4386429 | 4392231 | 4397020 | 4400788 | 4407054 | 4412502 |
| 4386459 | 4392298 | 4397084 | 4400813 | 4407061 | 4412642 |
| 4386460 | 4392301 | 4397341 | 4400814 | 4407392 | 4412672 |
| 4387276 | 4393111 | 4397385 | 4400828 | 4407406 | 4412683 |
| 4387458 | 4393276 | 4397711 | 4400867 | 4407556 | 4412722 |
| 4387508 | 4393311 | 4397724 | 4400874 | 4407562 | 4412853 |
| 4387863 | 4393312 | 4398063 | 4401267 | 4407849 | 4413159 |
| 4388029 | 4393456 | 4398147 | 4401482 | 4407933 | 4413263 |
| 4388351 | 4393497 | 4398284 | 4401483 | 4408130 | 4413308 |
| 4388382 | 4393518 | 4398287 | 4401524 | 4408248 | 4414066 |
| 4388383 | 4393582 | 4398297 | 4401854 | 4408272 | 4414537 |
| 4388595 | 4393917 | 4398299 | 4401860 | 4408323 | 4414538 |
| 4388626 | 4394183 | 4398628 | 4401861 | 4408331 | 4414561 |
| 4388697 | 4394237 | 4398779 | 4402008 | 4408443 | 4414580 |
| 4388720 | 4394545 | 4398824 | 4402039 | 4408753 | 4414628 |
| 4388730 | 4394602 | 4398972 | 4402063 | 4408819 | 4414642 |
| 4389229 | 4394620 | 4399004 | 4402393 | 4408914 | 4415062 |
| 4389231 | 4394647 | 4399097 | 4402450 | 4409042 | 4415220 |
| 4389291 | 4394707 | 4399323 | 4402998 | 4409263 | 4415228 |
| 4389672 | 4394743 | 4399402 | 4403139 | 4409318 | 4415229 |
| 4389720 | 4394756 | 4399417 | 4403241 | 4410223 | 4415380 |
| 4389771 | 4395028 | 4399448 | 4403287 | 4410239 | 4415414 |
| 4390120 | 4395219 | 4399500 | 4403298 | 4410344 | 4415773 |
| 4390137 | 4395294 | 4399516 | 4403320 | 4410561 | 4415779 |
| 4390225 | 4395593 | 4399532 | 4403348 | 4410850 | 4415803 |
| 4390236 | 4395594 | 4399536 | 4403351 | 4410867 | 4415872 |
| 4390357 | 4395599 | 4399539 | 4403826 | 4410894 | 4415901 |
| 4390379 | 4395637 | 4399555 | 4403949 | 4410986 | 4415961 |
| 4390589 | 4395675 | 4399602 | 4404072 | 4411000 | 4416007 |
| 4390843 | 4395765 | 4399608 | 4404172 | 4411060 | 4416015 |
| 4390871 | 4395769 | 4399609 | 4404234 | 4411495 | 4416016 |
| 4390889 | 4395770 | 4399610 | 4404544 | 4411731 | 4416057 |
| 4390897 | 4395772 | 4400052 | 4404556 | 4411733 | 4416516 |
| 4391038 | 4396111 | 4400060 | 4404720 | 4412094 | 4417102 |
| 4391220 | 4396140 | 4400235 | 4404882 | 4412123 | 4417162 |
| 4391516 | 4396239 | 4400445 | 4405233 | 4412184 | 4417337 |
| 4391656 | 4396443 | 4400461 | 4405701 | 4412307 | 4417348 |
| 4391657 | 4396704 | 4400624 | 4405840 | 4412313 | 4417478 |
| 4391683 | 4396796 | 4400627 | 4405983 | 4412322 | 4417692 |
| 4391901 | 4396801 | 4400631 | 4406516 | 4412326 | 4417778 |
| 4392031 | 4396809 | 4400663 | 4406545 | 4412327 | 4417786 |
| 4392083 | 4396989 | 4400712 | 4406709 | 4412341 | 4418312 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0425

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4418371 | 4423125 | 4429189 | 4435199 | 4441124 | 4448379 |
| 4418416 | 4423292 | 4429190 | 4435258 | 4441183 | 4448472 |
| 4418465 | 4423330 | 4429191 | 4435809 | 4441188 | 4448479 |
| 4418906 | 4423589 | 4429192 | 4435836 | 4441189 | 4448485 |
| 4418971 | 4424096 | 4429193 | 4435895 | 4441249 | 4448524 |
| 4418976 | 4424174 | 4429231 | 4435896 | 4441309 | 4449017 |
| 4419115 | 4424241 | 4429238 | 4436365 | 4441391 | 4449102 |
| 4419148 | 4424418 | 4429256 | 4436474 | 4441931 | 4449174 |
| 4419201 | 4424479 | 4429271 | 4436648 | 4442402 | 4449190 |
| 4419304 | 4424544 | 4429282 | 4436958 | 4442437 | 4449197 |
| 4419417 | 4424565 | 4429298 | 4436960 | 4442529 | 4449238 |
| 4419542 | 4424617 | 4429391 | 4436962 | 4442540 | 4449282 |
| 4419557 | 4424899 | 4429454 | 4436963 | 4442582 | 4450333 |
| 4419562 | 4425074 | 4429933 | 4437087 | 4443305 | 4450565 |
| 4419623 | 4425196 | 4430255 | 4437148 | 4443532 | 4450620 |
| 4419632 | 4425292 | 4430385 | 4437229 | 4443586 | 4451104 |
| 4419671 | 4425474 | 4430526 | 4437362 | 4443667 | 4451704 |
| 4419707 | 4425482 | 4430583 | 4437605 | 4443809 | 4451705 |
| 4419723 | 4425566 | 4430585 | 4437717 | 4443876 | 4451747 |
| 4419728 | 4425618 | 4430601 | 4437948 | 4443882 | 4451773 |
| 4419756 | 4425664 | 4430663 | 4438247 | 4444620 | 4451947 |
| 4419757 | 4425708 | 4430670 | 4438298 | 4444848 | 4451948 |
| 4420125 | 4425775 | 4430726 | 4438448 | 4445008 | 4452168 |
| 4420206 | 4426246 | 4430734 | 4438447 | 4445213 | 4453133 |
| 4420724 | 4426255 | 4430837 | 4438450 | 4445218 | 4453306 |
| 4420732 | 4426656 | 4431474 | 4438504 | 4445355 | 4453414 |
| 4420771 | 4426722 | 4432087 | 4438530 | 4445360 | 4453805 |
| 4420879 | 4426729 | 4432132 | 4439007 | 4445980 | 4454001 |
| 4420880 | 4427464 | 4432604 | 4439265 | 4446336 | 4454010 |
| 4421265 | 4427469 | 4432607 | 4439268 | 4446341 | 4454221 |
| 4421266 | 4427502 | 4432663 | 4439467 | 4446402 | 4454383 |
| 4421368 | 4427516 | 4433075 | 4439632 | 4446422 | 4454477 |
| 4421374 | 4427998 | 4433331 | 4439691 | 4446686 | 4454479 |
| 4421786 | 4428044 | 4433477 | 4439748 | 4446689 | 4454506 |
| 4421814 | 4428092 | 4433970 | 4439759 | 4447109 | 4454586 |
| 4421951 | 4428111 | 4434012 | 4439760 | 4447124 | 4454586 |
| 4421957 | 4428644 | 4434120 | 4439761 | 4447125 | 4454593 |
| 4422141 | 4428761 | 4434327 | 4439763 | 4447127 | 4454809 |
| 4422159 | 4428762 | 4434378 | 4439773 | 4447675 | 4455351 |
| 4422179 | 4428773 | 4434405 | 4439870 | 4447744 | 4455643 |
| 4422235 | 4428779 | 4434449 | 4439918 | 4447822 | 4455741 |
| 4422652 | 4428815 | 4434497 | 4440985 | 4447905 | 4456499 |
| 4422898 | 4429185 | 4435040 | 4441080 | 4447948 | 4456790 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0426

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4456792 | 4462938 | 4468857 | 4475047 | 4479226 | 4484187 |
| 4456793 | 4463431 | 4469554 | 4475189 | 4479922 | 4484197 |
| 4456876 | 4463445 | 4469564 | 4475190 | 4479984 | 4484260 |
| 4456996 | 4464013 | 4470112 | 4475191 | 4479991 | 4484274 |
| 4457004 | 4464022 | 4470190 | 4475192 | 4480014 | 4484323 |
| 4457951 | 4464211 | 4470368 | 4475213 | 4480152 | 4484324 |
| 4458247 | 4464227 | 4470552 | 4475227 | 4480178 | 4484326 |
| 4458288 | 4464342 | 4470830 | 4475685 | 4480898 | 4484330 |
| 4458310 | 4464545 | 4470875 | 4475961 | 4480990 | 4484963 |
| 4458314 | 4464650 | 4470894 | 4475983 | 4481049 | 4484979 |
| 4458356 | 4464658 | 4471005 | 4476349 | 4481091 | 4485290 |
| 4458968 | 4464681 | 4471038 | 4476350 | 4481251 | 4485370 |
| 4459194 | 4464762 | 4471164 | 4476448 | 4481383 | 4485440 |
| 4459320 | 4464767 | 4471310 | 4476458 | 4481467 | 4485468 |
| 4459436 | 4464879 | 4471331 | 4476477 | 4481577 | 4485469 |
| 4459658 | 4465708 | 4471367 | 4476484 | 4481583 | 4485484 |
| 4459892 | 4465968 | 4471370 | 4476557 | 4481624 | 4485550 |
| 4460236 | 4466060 | 4471524 | 4476559 | 4481631 | 4485553 |
| 4460241 | 4466689 | 4471931 | 4477141 | 4481645 | 4486071 |
| 4460327 | 4466791 | 4472026 | 4477244 | 4482197 | 4486214 |
| 4460421 | 4466852 | 4472212 | 4477273 | 4482204 | 4486274 |
| 4460430 | 4466864 | 4472218 | 4477298 | 4482413 | 4486626 |
| 4460434 | 4466872 | 4472237 | 4477308 | 4482423 | 4486740 |
| 4460806 | 4466989 | 4472596 | 4477580 | 4482424 | 4486765 |
| 4460807 | 4467147 | 4472602 | 4477697 | 4482442 | 4486833 |
| 4460808 | 4467149 | 4472712 | 4477780 | 4482443 | 4486856 |
| 4460897 | 4467344 | 4472727 | 4477782 | 4482863 | 4486861 |
| 4460976 | 4467441 | 4472784 | 4477824 | 4482897 | 4486876 |
| 4460988 | 4467468 | 4472798 | 4477897 | 4482898 | 4486877 |
| 4460994 | 4467523 | 4472801 | 4477964 | 4482899 | 4486884 |
| 4461013 | 4467891 | 4472832 | 4478103 | 4482977 | 4486900 |
| 4461073 | 4468069 | 4472875 | 4478488 | 4482997 | 4487464 |
| 4461197 | 4468086 | 4473433 | 4478650 | 4482998 | 4487641 |
| 4461535 | 4468118 | 4473455 | 4478691 | 4483003 | 4487828 |
| 4461670 | 4468296 | 4473719 | 4479066 | 4483012 | 4488002 |
| 4461934 | 4468438 | 4473794 | 4479092 | 4483725 | 4488004 |
| 4462004 | 4468528 | 4473835 | 4479115 | 4483808 | 4488006 |
| 4462016 | 4468612 | 4473942 | 4479122 | 4483898 | 4488038 |
| 4462077 | 4468640 | 4474423 | 4479195 | 4484030 | 4488066 |
| 4462555 | 4468641 | 4474424 | 4479196 | 4484089 | 4488111 |
| 4462580 | 4468672 | 4474593 | 4479211 | 4484105 | 4488164 |
| 4462686 | 4468701 | 4474830 | 4479212 | 4484119 | 4488175 |
| 4462860 | 4468728 | 4475010 | 4479216 | 4484179 | 4488218 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0427

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4488229 | 4493029 | 4498173 | 4503676 | 4510346 | 4514756 |
| 4488230 | 4493031 | 4498182 | 4504008 | 4510348 | 4514843 |
| 4488243 | 4493053 | 4498186 | 4504297 | 4510351 | 4514845 |
| 4488267 | 4493073 | 4498451 | 4504299 | 4510514 | 4514893 |
| 4488288 | 4493077 | 4498767 | 4504427 | 4510550 | 4514896 |
| 4488289 | 4493094 | 4498953 | 4504898 | 4510594 | 4515297 |
| 4488294 | 4493113 | 4499162 | 4504902 | 4510595 | 4515354 |
| 4488295 | 4493142 | 4499455 | 4504922 | 4510596 | 4515429 |
| 4488302 | 4493747 | 4499532 | 4504944 | 4511201 | 4515436 |
| 4488355 | 4493754 | 4499551 | 4504949 | 4511445 | 4515484 |
| 4488662 | 4494033 | 4499555 | 4504952 | 4511757 | 4515612 |
| 4489102 | 4494144 | 4499576 | 4504955 | 4511859 | 4516037 |
| 4489310 | 4494193 | 4499577 | 4505035 | 4511969 | 4516070 |
| 4489386 | 4494220 | 4499578 | 4505184 | 4512011 | 4516123 |
| 4489418 | 4494230 | 4500149 | 4505548 | 4512013 | 4516130 |
| 4489488 | 4494239 | 4500367 | 4506165 | 4512016 | 4516136 |
| 4489508 | 4494242 | 4500394 | 4506231 | 4512017 | 4516140 |
| 4490230 | 4494303 | 4500481 | 4506310 | 4512022 | 4516214 |
| 4490582 | 4494815 | 4500628 | 4506346 | 4512034 | 4516216 |
| 4490681 | 4494816 | 4500844 | 4506358 | 4512509 | 4516238 |
| 4490689 | 4495007 | 4500859 | 4506785 | 4512627 | 4516239 |
| 4490817 | 4495022 | 4500960 | 4506938 | 4512630 | 4516241 |
| 4491492 | 4495255 | 4500985 | 4506955 | 4512707 | 4516250 |
| 4491499 | 4495396 | 4500995 | 4507008 | 4512941 | 4516258 |
| 4491509 | 4495472 | 4501003 | 4507330 | 4512944 | 4516318 |
| 4491691 | 4495494 | 4501060 | 4507362 | 4512963 | 4516737 |
| 4491701 | 4495515 | 4501368 | 4507401 | 4513281 | 4516739 |
| 4491848 | 4495565 | 4501442 | 4507648 | 4513411 | 4516787 |
| 4491945 | 4495619 | 4501935 | 4507760 | 4513412 | 4516826 |
| 4491947 | 4495620 | 4502116 | 4507776 | 4513426 | 4516922 |
| 4491953 | 4495648 | 4502209 | 4507783 | 4513432 | 4517513 |
| 4491982 | 4496200 | 4502215 | 4508688 | 4513498 | 4517680 |
| 4492428 | 4496425 | 4502655 | 4508758 | 4513852 | 4518085 |
| 4492436 | 4496432 | 4502745 | 4508937 | 4513855 | 4518455 |
| 4492463 | 4496448 | 4502785 | 4509019 | 4514027 | 4518456 |
| 4492466 | 4496797 | 4502898 | 4509098 | 4514100 | 4518469 |
| 4492652 | 4497683 | 4503090 | 4509120 | 4514130 | 4518830 |
| 4492824 | 4497979 | 4503283 | 4509145 | 4514250 | 4518870 |
| 4492825 | 4498001 | 4503289 | 4509167 | 4514436 | 4518921 |
| 4492852 | 4498093 | 4503435 | 4509171 | 4514647 | 4518926 |
| 4492876 | 4498122 | 4503490 | 4509187 | 4514728 | 4518934 |
| 4492935 | 4498128 | 4503545 | 4509647 | 4514748 | 4518950 |
| 4492971 | 4498146 | 4503609 | 4510176 | 4514749 | 4519024 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0428

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4519032 | 4525860 | 4532477 | 4536940 | 4541970 | 4547877 |
| 4519073 | 4526043 | 4532626 | 4537461 | 4541980 | 4547960 |
| 4519084 | 4526599 | 4532697 | 4537498 | 4542006 | 4548341 |
| 4519094 | 4526810 | 4532953 | 4537663 | 4542083 | 4548883 |
| 4519132 | 4527080 | 4533207 | 4537799 | 4542304 | 4549308 |
| 4519552 | 4527218 | 4533378 | 4537813 | 4542375 | 4549782 |
| 4519671 | 4527267 | 4533570 | 4538021 | 4542380 | 4549788 |
| 4520437 | 4527731 | 4533795 | 4538030 | 4542439 | 4549807 |
| 4520477 | 4528464 | 4533833 | 4538156 | 4542456 | 4549914 |
| 4520490 | 4528521 | 4533877 | 4538224 | 4542483 | 4550074 |
| 4521272 | 4528615 | 4533919 | 4538271 | 4542497 | 4550224 |
| 4521274 | 4528670 | 4534003 | 4538342 | 4542502 | 4550249 |
| 4521739 | 4528681 | 4534023 | 4538351 | 4542504 | 4550256 |
| 4521755 | 4528747 | 4534024 | 4538771 | 4542534 | 4550284 |
| 4521828 | 4529116 | 4534040 | 4538782 | 4543524 | 4550397 |
| 4521880 | 4529262 | 4534103 | 4539226 | 4543627 | 4550401 |
| 4521886 | 4529271 | 4534254 | 4539434 | 4543651 | 4550404 |
| 4522148 | 4529299 | 4534586 | 4539437 | 4543713 | 4550415 |
| 4522459 | 4529353 | 4534776 | 4539445 | 4544234 | 4550432 |
| 4522842 | 4529426 | 4535198 | 4539552 | 4544438 | 4550436 |
| 4523140 | 4529427 | 4535199 | 4539554 | 4544804 | 4550975 |
| 4523162 | 4529455 | 4535206 | 4539635 | 4544878 | 4551185 |
| 4523183 | 4529839 | 4535338 | 4539637 | 4544918 | 4551416 |
| 4523311 | 4529840 | 4535352 | 4539652 | 4544950 | 4551580 |
| 4523315 | 4529842 | 4535360 | 4539676 | 4545024 | 4551581 |
| 4523498 | 4529847 | 4535445 | 4539686 | 4545043 | 4551670 |
| 4523712 | 4529889 | 4535448 | 4539687 | 4545053 | 4551674 |
| 4523961 | 4529942 | 4535454 | 4539743 | 4545520 | 4551833 |
| 4523972 | 4530049 | 4535455 | 4539748 | 4545542 | 4551838 |
| 4524247 | 4530071 | 4535472 | 4539776 | 4545636 | 4552578 |
| 4524321 | 4530091 | 4535476 | 4540030 | 4545644 | 4552818 |
| 4524412 | 4530092 | 4535532 | 4540229 | 4545713 | 4553155 |
| 4524440 | 4530095 | 4535535 | 4540453 | 4545761 | 4553706 |
| 4524516 | 4530139 | 4536052 | 4540476 | 4546216 | 4553810 |
| 4525087 | 4531024 | 4536229 | 4540846 | 4546244 | 4554045 |
| 4525538 | 4531108 | 4536622 | 4540850 | 4546276 | 4554047 |
| 4525687 | 4531110 | 4536696 | 4540950 | 4546468 | 4554048 |
| 4525716 | 4531154 | 4536703 | 4540952 | 4546475 | 4554050 |
| 4525776 | 4531176 | 4536706 | 4541034 | 4546543 | 4554078 |
| 4525789 | 4531209 | 4536715 | 4541056 | 4547042 | 4554229 |
| 4525795 | 4531277 | 4536741 | 4541078 | 4547089 | 4554412 |
| 4525846 | 4532005 | 4536826 | 4541685 | 4547246 | 4554417 |
| 4525847 | 4532377 | 4536939 | 4541771 | 4547644 | 4554515 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0429

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4554530 | 4558812 | 4568801 | 4575646 | 4580267 | 4585961 |
| 4554537 | 4558921 | 4568844 | 4575648 | 4580279 | 4586073 |
| 4554631 | 4559609 | 4568982 | 4575845 | 4580873 | 4586120 |
| 4554642 | 4560420 | 4569032 | 4575859 | 4581529 | 4586242 |
| 4554656 | 4560837 | 4569042 | 4575860 | 4581545 | 4586608 |
| 4554659 | 4561090 | 4569445 | 4575919 | 4581601 | 4587517 |
| 4554726 | 4561102 | 4569701 | 4576691 | 4581691 | 4587545 |
| 4555105 | 4561726 | 4569704 | 4577065 | 4581735 | 4587632 |
| 4555175 | 4561913 | 4569718 | 4577066 | 4581737 | 4587656 |
| 4555301 | 4562312 | 4569722 | 4577068 | 4581746 | 4587670 |
| 4555591 | 4562436 | 4570058 | 4577119 | 4581747 | 4588348 |
| 4555594 | 4562538 | 4570080 | 4577169 | 4581758 | 4588904 |
| 4555598 | 4562548 | 4570121 | 4577190 | 4581814 | 4588928 |
| 4555622 | 4563276 | 4570176 | 4577207 | 4582245 | 4588940 |
| 4555774 | 4563540 | 4570338 | 4577209 | 4582390 | 4588941 |
| 4555790 | 4563547 | 4570930 | 4577214 | 4582439 | 4588946 |
| 4555842 | 4563661 | 4571014 | 4577274 | 4582480 | 4588961 |
| 4555954 | 4563671 | 4571104 | 4577276 | 4582564 | 4589011 |
| 4556189 | 4563774 | 4571506 | 4577287 | 4582867 | 4589018 |
| 4556276 | 4563811 | 4571576 | 4577308 | 4582956 | 4589110 |
| 4556314 | 4564110 | 4571818 | 4577312 | 4582959 | 4589729 |
| 4556362 | 4564562 | 4571824 | 4577314 | 4583007 | 4589928 |
| 4556790 | 4564857 | 4571826 | 4577330 | 4583037 | 4590388 |
| 4556841 | 4564946 | 4572972 | 4578098 | 4583068 | 4590432 |
| 4556869 | 4564952 | 4573030 | 4578101 | 4583157 | 4590470 |
| 4556903 | 4565314 | 4573038 | 4578127 | 4583182 | 4590507 |
| 4556972 | 4565903 | 4573065 | 4578253 | 4583218 | 4590583 |
| 4557411 | 4565974 | 4573099 | 4578540 | 4583219 | 4591392 |
| 4557514 | 4566007 | 4573156 | 4578630 | 4583226 | 4591660 |
| 4557557 | 4566094 | 4573163 | 4578704 | 4583228 | 4591665 |
| 4557560 | 4566171 | 4573205 | 4578736 | 4583237 | 4591669 |
| 4557782 | 4566726 | 4573255 | 4578751 | 4583372 | 4591803 |
| 4558174 | 4566934 | 4574031 | 4578761 | 4583485 | 4591889 |
| 4558180 | 4566953 | 4574093 | 4578796 | 4583539 | 4591963 |
| 4558184 | 4567323 | 4574166 | 4579622 | 4583674 | 4592019 |
| 4558229 | 4567325 | 4574236 | 4579752 | 4583708 | 4592043 |
| 4558239 | 4567333 | 4574249 | 4579807 | 4583954 | 4592044 |
| 4558272 | 4567581 | 4574254 | 4580017 | 4584241 | 4592048 |
| 4558317 | 4567595 | 4574350 | 4580103 | 4584441 | 4592064 |
| 4558390 | 4567604 | 4574374 | 4580105 | 4585351 | 4592927 |
| 4558444 | 4568016 | 4574379 | 4580156 | 4585931 | 4592955 |
| 4558449 | 4568056 | 4575187 | 4580188 | 4585956 | 4592959 |
| 4558581 | 4568414 | 4575583 | 4580218 | 4585958 | 4593191 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0430

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4593271 | 4600929 | 4608473 | 4615001 | 4622673 | 4630886 |
| 4593272 | 4600951 | 4608586 | 4615032 | 4623129 | 4630890 |
| 4593282 | 4600967 | 4608590 | 4615038 | 4623257 | 4631079 |
| 4593318 | 4601035 | 4608688 | 4615586 | 4623373 | 4631355 |
| 4594088 | 4601542 | 4608693 | 4616172 | 4623760 | 4631362 |
| 4594380 | 4601543 | 4608697 | 4616205 | 4623786 | 4631363 |
| 4594477 | 4601544 | 4609778 | 4616247 | 4623888 | 4631364 |
| 4594479 | 4601740 | 4610032 | 4616414 | 4623912 | 4631471 |
| 4594490 | 4601888 | 4610084 | 4616659 | 4623960 | 4631534 |
| 4594763 | 4601972 | 4610731 | 4616901 | 4624302 | 4631545 |
| 4595289 | 4602128 | 4610909 | 4617192 | 4625078 | 4631566 |
| 4595431 | 4602207 | 4610932 | 4617477 | 4625114 | 4631574 |
| 4595454 | 4602268 | 4611130 | 4617608 | 4625270 | 4631734 |
| 4595793 | 4602370 | 4611280 | 4617663 | 4626066 | 4631738 |
| 4595794 | 4602494 | 4611322 | 4617676 | 4626075 | 4631804 |
| 4595874 | 4602854 | 4611347 | 4617708 | 4626103 | 4632476 |
| 4595945 | 4604027 | 4611385 | 4618194 | 4626634 | 4632552 |
| 4595981 | 4604119 | 4611845 | 4618211 | 4626739 | 4633041 |
| 4595995 | 4604144 | 4611875 | 4618212 | 4627019 | 4633193 |
| 4596010 | 4604150 | 4611886 | 4618787 | 4627030 | 4633311 |
| 4596024 | 4604500 | 4612145 | 4618815 | 4627032 | 4633412 |
| 4596907 | 4604624 | 4612233 | 4618867 | 4627048 | 4633461 |
| 4597068 | 4605323 | 4612407 | 4618972 | 4627065 | 4633465 |
| 4597165 | 4605428 | 4612414 | 4618975 | 4627077 | 4633467 |
| 4597420 | 4605605 | 4612416 | 4619842 | 4627080 | 4633485 |
| 4597623 | 4605818 | 4612417 | 4620066 | 4627150 | 4633524 |
| 4597626 | 4605844 | 4612509 | 4620118 | 4627161 | 4633571 |
| 4597638 | 4605942 | 4612518 | 4620132 | 4627942 | 4634043 |
| 4597985 | 4605999 | 4612564 | 4620854 | 4628022 | 4634205 |
| 4598039 | 4606024 | 4612659 | 4620958 | 4628157 | 4634214 |
| 4598285 | 4606043 | 4613209 | 4621244 | 4628158 | 4634474 |
| 4598358 | 4606046 | 4613417 | 4621257 | 4628446 | 4634895 |
| 4598363 | 4606054 | 4613521 | 4621357 | 4628513 | 4634997 |
| 4598590 | 4606069 | 4613783 | 4621782 | 4628992 | 4635187 |
| 4599490 | 4606605 | 4613861 | 4622092 | 4629832 | 4635249 |
| 4599526 | 4607173 | 4613891 | 4622093 | 4629910 | 4635251 |
| 4599632 | 4607259 | 4613955 | 4622114 | 4630099 | 4635263 |
| 4599709 | 4607260 | 4613987 | 4622239 | 4630196 | 4635275 |
| 4599719 | 4607272 | 4613990 | 4622519 | 4630256 | 4635276 |
| 4599728 | 4607332 | 4614389 | 4622578 | 4630259 | 4635855 |
| 4599791 | 4607364 | 4614399 | 4622670 | 4630260 | 4636033 |
| 4600522 | 4607384 | 4614433 | 4622671 | 4630286 | 4636080 |
| 4600812 | 4608455 | 4614841 | 4622672 | 4630287 | 4636268 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0431

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4636403 | 4643752 | 4649523 | 4656661 | 4669694 | 4679061 |
| 4636584 | 4643804 | 4649670 | 4656730 | 4670086 | 4679132 |
| 4636939 | 4644101 | 4650269 | 4657346 | 4670670 | 4679171 |
| 4637035 | 4644437 | 4650933 | 4658219 | 4670770 | 4679172 |
| 4637037 | 4644472 | 4651011 | 4658260 | 4670837 | 4679186 |
| 4637067 | 4644522 | 4651103 | 4658333 | 4670871 | 4679189 |
| 4637129 | 4644527 | 4651133 | 4658394 | 4671621 | 4679232 |
| 4637685 | 4644528 | 4651134 | 4658421 | 4672158 | 4679890 |
| 4637989 | 4644533 | 4651203 | 4659175 | 4672198 | 4680084 |
| 4638259 | 4644537 | 4651316 | 4660166 | 4672243 | 4680241 |
| 4638274 | 4644562 | 4651318 | 4660177 | 4672299 | 4680563 |
| 4638401 | 4644568 | 4651320 | 4660208 | 4672427 | 4680786 |
| 4638483 | 4644576 | 4651418 | 4660979 | 4672518 | 4680810 |
| 4638559 | 4644639 | 4651652 | 4661375 | 4672604 | 4681208 |
| 4638762 | 4645116 | 4651673 | 4661829 | 4672654 | 4681773 |
| 4639074 | 4645298 | 4652701 | 4661922 | 4672658 | 4682180 |
| 4639615 | 4645523 | 4652733 | 4661947 | 4674085 | 4682284 |
| 4639781 | 4645687 | 4652757 | 4661961 | 4674114 | 4682354 |
| 4639914 | 4645689 | 4652775 | 4661974 | 4674166 | 4682358 |
| 4639934 | 4645871 | 4652973 | 4661993 | 4675089 | 4683024 |
| 4640032 | 4645874 | 4653043 | 4662572 | 4675715 | 4683563 |
| 4640992 | 4645948 | 4653045 | 4662713 | 4675717 | 4683578 |
| 4641102 | 4646101 | 4653048 | 4662983 | 4675808 | 4683584 |
| 4641179 | 4646123 | 4653085 | 4663519 | 4675848 | 4684195 |
| 4641218 | 4646229 | 4653177 | 4663583 | 4675862 | 4684198 |
| 4641266 | 4646287 | 4653606 | 4663766 | 4675906 | 4684883 |
| 4641299 | 4646325 | 4653682 | 4664480 | 4676594 | 4684971 |
| 4641420 | 4646332 | 4653823 | 4665148 | 4676841 | 4685041 |
| 4641917 | 4646346 | 4654111 | 4665414 | 4676847 | 4685123 |
| 4642424 | 4646347 | 4654654 | 4665514 | 4676869 | 4685125 |
| 4642550 | 4646419 | 4654807 | 4665545 | 4677322 | 4685129 |
| 4642630 | 4647514 | 4654820 | 4665547 | 4677323 | 4686550 |
| 4642670 | 4647719 | 4654845 | 4665548 | 4677423 | 4686620 |
| 4642728 | 4647941 | 4654863 | 4666234 | 4677430 | 4686669 |
| 4642755 | 4647957 | 4656091 | 4666247 | 4677545 | 4686701 |
| 4642758 | 4647991 | 4656366 | 4666820 | 4677609 | 4687682 |
| 4642799 | 4648036 | 4656436 | 4667149 | 4677616 | 4688160 |
| 4642873 | 4648100 | 4656437 | 4667311 | 4677624 | 4688209 |
| 4642890 | 4648547 | 4656622 | 4667331 | 4677625 | 4688214 |
| 4643499 | 4649296 | 4656623 | 4667870 | 4677626 | 4688875 |
| 4643521 | 4649298 | 4656624 | 4668880 | 4677632 | 4688885 |
| 4643532 | 4649468 | 4656627 | 4668927 | 4678073 | 4688939 |
| 4643598 | 4649522 | 4656658 | 4669090 | 4678891 | 4689065 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0432

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4689115 | 4697284 | 4704641 | 4713105 | 4724278 | 4731814 |
| 4689125 | 4698618 | 4704670 | 4713564 | 4725112 | 4731822 |
| 4689631 | 4698752 | 4704671 | 4713758 | 4725114 | 4731834 |
| 4689815 | 4698769 | 4704675 | 4713806 | 4725120 | 4731843 |
| 4689866 | 4698802 | 4704716 | 4713834 | 4725249 | 4731878 |
| 4690715 | 4698804 | 4704722 | 4714440 | 4725330 | 4731880 |
| 4690726 | 4698820 | 4705322 | 4715044 | 4725694 | 4731924 |
| 4691091 | 4698915 | 4705344 | 4715049 | 4725834 | 4732821 |
| 4691215 | 4699443 | 4705823 | 4715672 | 4725870 | 4733047 |
| 4691220 | 4699452 | 4705942 | 4716050 | 4725877 | 4733291 |
| 4691331 | 4699454 | 4705970 | 4716130 | 4725965 | 4733325 |
| 4691346 | 4699456 | 4706056 | 4716376 | 4726017 | 4733823 |
| 4691347 | 4699464 | 4706208 | 4716449 | 4726019 | 4733940 |
| 4691363 | 4700210 | 4706240 | 4716453 | 4726037 | 4734380 |
| 4691986 | 4700320 | 4706281 | 4716561 | 4726043 | 4734753 |
| 4691989 | 4700340 | 4707078 | 4717066 | 4726057 | 4734854 |
| 4691990 | 4700382 | 4707174 | 4717243 | 4726677 | 4734908 |
| 4692349 | 4700541 | 4707197 | 4718120 | 4727534 | 4734920 |
| 4692564 | 4701011 | 4707219 | 4718862 | 4727537 | 4734931 |
| 4692604 | 4701016 | 4707689 | 4719124 | 4727538 | 4736071 |
| 4692637 | 4701030 | 4707694 | 4719274 | 4727553 | 4736119 |
| 4692895 | 4701224 | 4708726 | 4719496 | 4727575 | 4736269 |
| 4692918 | 4701342 | 4708884 | 4719591 | 4727577 | 4736293 |
| 4692921 | 4701347 | 4709374 | 4719602 | 4728168 | 4736364 |
| 4693408 | 4701721 | 4709377 | 4719923 | 4728864 | 4736389 |
| 4694196 | 4701904 | 4709390 | 4720402 | 4728908 | 4736393 |
| 4694318 | 4701906 | 4709413 | 4720431 | 4729043 | 4736402 |
| 4694328 | 4701909 | 4710605 | 4720643 | 4729551 | 4736404 |
| 4694472 | 4701954 | 4710650 | 4720741 | 4729968 | 4736415 |
| 4694487 | 4701995 | 4710697 | 4720850 | 4730105 | 4736419 |
| 4694561 | 4703166 | 4710760 | 4720854 | 4730198 | 4736462 |
| 4695332 | 4703288 | 4710761 | 4721357 | 4730304 | 4737004 |
| 4695762 | 4703416 | 4710846 | 4721910 | 4730305 | 4737007 |
| 4695836 | 4703474 | 4710891 | 4722587 | 4730310 | 4737112 |
| 4695969 | 4703475 | 4710926 | 4723238 | 4730345 | 4737208 |
| 4695977 | 4703477 | 4710954 | 4723273 | 4730888 | 4737233 |
| 4696000 | 4703993 | 4711053 | 4723316 | 4730894 | 4737857 |
| 4696438 | 4703996 | 4711118 | 4723317 | 4731293 | 4737929 |
| 4697051 | 4704499 | 4711515 | 4723321 | 4731590 | 4737958 |
| 4697105 | 4704547 | 4711997 | 4723361 | 4731663 | 4737960 |
| 4697175 | 4704550 | 4712077 | 4723831 | 4731702 | 4737971 |
| 4697188 | 4704606 | 4712236 | 4724030 | 4731747 | 4738055 |
| 4697264 | 4704622 | 4712858 | 4724222 | 4731785 | 4738507 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0433

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4738508 | 4745593 | 4754479 | 4763014 | 4773034 | 4785192 |
| 4738625 | 4745603 | 4754481 | 4763019 | 4773687 | 4785244 |
| 4738934 | 4745607 | 4755016 | 4763183 | 4773750 | 4785345 |
| 4739128 | 4746902 | 4755629 | 4763317 | 4774101 | 4785408 |
| 4739196 | 4747040 | 4755715 | 4763353 | 4774188 | 4785454 |
| 4739253 | 4747127 | 4755794 | 4763412 | 4774496 | 4786616 |
| 4739385 | 4747130 | 4755860 | 4763829 | 4774554 | 4786839 |
| 4739509 | 4747657 | 4755867 | 4763978 | 4774635 | 4786884 |
| 4740261 | 4748351 | 4755963 | 4764246 | 4774661 | 4786910 |
| 4740430 | 4748450 | 4755964 | 4764889 | 4775401 | 4787082 |
| 4740433 | 4748620 | 4755995 | 4764890 | 4775640 | 4787086 |
| 4740957 | 4748639 | 4756005 | 4764919 | 4775953 | 4787689 |
| 4740975 | 4748653 | 4756590 | 4764941 | 4775971 | 4787692 |
| 4740987 | 4748656 | 4756606 | 4764950 | 4775975 | 4787693 |
| 4740992 | 4749248 | 4757232 | 4764963 | 4776006 | 4787698 |
| 4741026 | 4749255 | 4757264 | 4765706 | 4776674 | 4787706 |
| 4741038 | 4749660 | 4757526 | 4765712 | 4777146 | 4787714 |
| 4741587 | 4749850 | 4757529 | 4766090 | 4778099 | 4787759 |
| 4742020 | 4750025 | 4758947 | 4766534 | 4778635 | 4788117 |
| 4742224 | 4750136 | 4758974 | 4766592 | 4779088 | 4788510 |
| 4742233 | 4750801 | 4759018 | 4767181 | 4779350 | 4788657 |
| 4742234 | 4751194 | 4759036 | 4767196 | 4779946 | 4788693 |
| 4742308 | 4751378 | 4759037 | 4767429 | 4780696 | 4788694 |
| 4742380 | 4751458 | 4759039 | 4767695 | 4780748 | 4788697 |
| 4742518 | 4751555 | 4759374 | 4767812 | 4780870 | 4788715 |
| 4742548 | 4751607 | 4759491 | 4769341 | 4780884 | 4788719 |
| 4742577 | 4751675 | 4759667 | 4769689 | 4781433 | 4789825 |
| 4743085 | 4751697 | 4760437 | 4769810 | 4781743 | 4789980 |
| 4744023 | 4751727 | 4760442 | 4769811 | 4782034 | 4789983 |
| 4744026 | 4752590 | 4760512 | 4769815 | 4782253 | 4789984 |
| 4744027 | 4752906 | 4760543 | 4769833 | 4782460 | 4789994 |
| 4744028 | 4752924 | 4760570 | 4769834 | 4782508 | 4790003 |
| 4744048 | 4752943 | 4761053 | 4770481 | 4782516 | 4790004 |
| 4744092 | 4753859 | 4761168 | 4770494 | 4782521 | 4790008 |
| 4744105 | 4754131 | 4761620 | 4771232 | 4783602 | 4790017 |
| 4744631 | 4754132 | 4761732 | 4771325 | 4783804 | 4790619 |
| 4745299 | 4754169 | 4761751 | 4771465 | 4783809 | 4791072 |
| 4745388 | 4754185 | 4761788 | 4772084 | 4784613 | 4791395 |
| 4745446 | 4754370 | 4761800 | 4772123 | 4784719 | 4791628 |
| 4745447 | 4754384 | 4762384 | 4772860 | 4784967 | 4791640 |
| 4745449 | 4754386 | 4762387 | 4772866 | 4784971 | 4791654 |
| 4745548 | 4754451 | 4762802 | 4772924 | 4785139 | 4791660 |
| 4745567 | 4754452 | 4763013 | 4772934 | 4785156 | 4791662 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0434

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4791665 | 4800415 | 4811087 | 4820007 | 4829343 | 4841630 |
| 4793052 | 4800485 | 4811112 | 4820016 | 4829347 | 4842368 |
| 4793683 | 4800488 | 4811164 | 4820017 | 4829349 | 4842370 |
| 4794091 | 4800555 | 4811216 | 4820192 | 4829465 | 4842626 |
| 4794351 | 4800573 | 4811280 | 4820321 | 4829520 | 4843191 |
| 4794440 | 4801765 | 4811335 | 4820322 | 4829580 | 4843264 |
| 4794559 | 4802080 | 4811357 | 4820376 | 4830444 | 4843581 |
| 4794623 | 4802180 | 4811410 | 4820653 | 4830451 | 4843712 |
| 4794642 | 4802199 | 4812009 | 4821089 | 4830463 | 4844575 |
| 4795119 | 4802220 | 4812101 | 4821179 | 4830976 | 4844508 |
| 4795659 | 4802227 | 4812153 | 4821185 | 4830982 | 4844776 |
| 4795693 | 4802723 | 4812217 | 4821258 | 4831382 | 4845637 |
| 4795898 | 4802726 | 4812794 | 4821259 | 4831628 | 4845744 |
| 4795920 | 4803540 | 4813066 | 4821286 | 4831635 | 4845748 |
| 4795976 | 4803730 | 4814243 | 4821297 | 4831637 | 4846032 |
| 4796003 | 4804238 | 4814291 | 4821325 | 4831696 | 4847864 |
| 4796020 | 4805094 | 4814962 | 4821948 | 4832789 | 4847875 |
| 4796150 | 4805106 | 4814974 | 4822754 | 4833463 | 4847897 |
| 4796254 | 4805166 | 4815041 | 4822956 | 4833690 | 4847906 |
| 4796279 | 4805170 | 4815103 | 4822992 | 4834496 | 4848687 |
| 4796996 | 4805178 | 4815105 | 4823029 | 4835057 | 4849579 |
| 4797386 | 4806107 | 4815136 | 4823249 | 4835078 | 4849645 |
| 4797541 | 4806801 | 4815137 | 4823256 | 4835113 | 4849684 |
| 4797622 | 4806996 | 4815779 | 4823338 | 4835421 | 4849751 |
| 4797720 | 4806997 | 4815813 | 4824377 | 4835437 | 4849799 |
| 4797815 | 4806999 | 4816421 | 4824796 | 4835584 | 4849851 |
| 4797877 | 4807013 | 4816811 | 4824804 | 4835585 | 4849874 |
| 4797878 | 4807108 | 4816846 | 4825174 | 4835737 | 4849877 |
| 4797879 | 4807222 | 4817081 | 4825176 | 4835779 | 4849964 |
| 4797882 | 4807225 | 4817082 | 4825265 | 4836640 | 4849977 |
| 4797904 | 4807228 | 4817083 | 4825278 | 4837129 | 4850007 |
| 4797910 | 4807241 | 4817086 | 4825354 | 4837507 | 4850036 |
| 4797915 | 4807253 | 4817279 | 4825459 | 4837609 | 4850670 |
| 4797926 | 4807961 | 4818058 | 4826272 | 4837807 | 4851165 |
| 4798322 | 4807962 | 4818060 | 4826278 | 4838347 | 4851370 |
| 4798346 | 4808810 | 4818311 | 4826282 | 4839309 | 4851714 |
| 4798641 | 4809263 | 4818713 | 4826709 | 4839907 | 4851895 |
| 4798923 | 4809270 | 4818721 | 4827428 | 4840449 | 4852127 |
| 4799217 | 4810049 | 4818824 | 4827499 | 4840653 | 4852180 |
| 4799255 | 4810325 | 4818929 | 4827501 | 4841240 | 4852960 |
| 4800051 | 4810395 | 4818984 | 4827517 | 4841295 | 4852963 |
| 4800262 | 4810557 | 4819039 | 4828358 | 4841433 | 4852965 |
| 4800301 | 4810768 | 4819658 | 4829172 | 4841500 | 4852968 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0435

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4853655 | 4866588 | 4873833 | 4885749 | 4895437 | 4901348 |
| 4853753 | 4866647 | 4874219 | 4886332 | 4895813 | 4901368 |
| 4853758 | 4866656 | 4874463 | 4886765 | 4896093 | 4902086 |
| 4853889 | 4866685 | 4875037 | 4887053 | 4896108 | 4902237 |
| 4853956 | 4866708 | 4875183 | 4887079 | 4896264 | 4902631 |
| 4855996 | 4866758 | 4875206 | 4887135 | 4896319 | 4902644 |
| 4856091 | 4866763 | 4875916 | 4887233 | 4896346 | 4902857 |
| 4856866 | 4867523 | 4875952 | 4887288 | 4896350 | 4902912 |
| 4858168 | 4867526 | 4876303 | 4888226 | 4896937 | 4902913 |
| 4859023 | 4867539 | 4876457 | 4888450 | 4896938 | 4903092 |
| 4859820 | 4868093 | 4876717 | 4888624 | 4896940 | 4903181 |
| 4859827 | 4868824 | 4877645 | 4889402 | 4897361 | 4903182 |
| 4859876 | 4868889 | 4877952 | 4890271 | 4897520 | 4903399 |
| 4860009 | 4870029 | 4877971 | 4890322 | 4897711 | 4904036 |
| 4860064 | 4870032 | 4878198 | 4890328 | 4897798 | 4904042 |
| 4860068 | 4870117 | 4878295 | 4891480 | 4897863 | 4904043 |
| 4860085 | 4870497 | 4878611 | 4891580 | 4897866 | 4904045 |
| 4860163 | 4870637 | 4878726 | 4891746 | 4897867 | 4904050 |
| 4860284 | 4870649 | 4878956 | 4891803 | 4897874 | 4904087 |
| 4860296 | 4870675 | 4879256 | 4891840 | 4898444 | 4904858 |
| 4860358 | 4870679 | 4879507 | 4891843 | 4898446 | 4904859 |
| 4860903 | 4871105 | 4879519 | 4892374 | 4898547 | 4905063 |
| 4861126 | 4871235 | 4879728 | 4892617 | 4899306 | 4905073 |
| 4861134 | 4871420 | 4879743 | 4892635 | 4899333 | 4905228 |
| 4861136 | 4872157 | 4879748 | 4892795 | 4899335 | 4905231 |
| 4861277 | 4872158 | 4879763 | 4893071 | 4899358 | 4905253 |
| 4861278 | 4872159 | 4880202 | 4893270 | 4899375 | 4905255 |
| 4861393 | 4872160 | 4880291 | 4893300 | 4899385 | 4905274 |
| 4861976 | 4872163 | 4880396 | 4893302 | 4900124 | 4905285 |
| 4862315 | 4872168 | 4880771 | 4893336 | 4900126 | 4907259 |
| 4862464 | 4872205 | 4881059 | 4893886 | 4900214 | 4908772 |
| 4862498 | 4872736 | 4881790 | 4893893 | 4900879 | 4908833 |
| 4863235 | 4872895 | 4881792 | 4894526 | 4900917 | 4908935 |
| 4864561 | 4873393 | 4883335 | 4894583 | 4901013 | 4909592 |
| 4864612 | 4873492 | 4883352 | 4894620 | 4901040 | 4909816 |
| 4864617 | 4873524 | 4884119 | 4894633 | 4901121 | 4910359 |
| 4864824 | 4873558 | 4885219 | 4894689 | 4901189 | 4910452 |
| 4865408 | 4873566 | 4885435 | 4894703 | 4901231 | 4910669 |
| 4865411 | 4873577 | 4885480 | 4894749 | 4901260 | 4910777 |
| 4865564 | 4873663 | 4885551 | 4894773 | 4901271 | 4910781 |
| 4866501 | 4873716 | 4885686 | 4894822 | 4901306 | 4911519 |
| 4866510 | 4873717 | 4885738 | 4894823 | 4901331 | 4911798 |
| 4866587 | 4873762 | 4885741 | 4894824 | 4901346 | 4911799 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0436

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4912347 | 4918733 | 4928527 | 4939509 | 4947425 | 4959623 |
| 4912431 | 4919509 | 4929064 | 4939555 | 4947980 | 4959845 |
| 4912523 | 4919748 | 4929845 | 4939727 | 4948407 | 4959852 |
| 4912706 | 4920322 | 4930061 | 4939736 | 4949350 | 4959856 |
| 4912722 | 4920530 | 4930072 | 4939748 | 4950049 | 4959857 |
| 4912764 | 4920534 | 4930131 | 4939752 | 4950176 | 4960315 |
| 4913508 | 4920899 | 4930857 | 4939775 | 4950977 | 4960612 |
| 4913517 | 4921160 | 4931670 | 4940307 | 4952014 | 4960656 |
| 4913659 | 4921321 | 4931959 | 4940381 | 4952017 | 4961186 |
| 4913859 | 4922245 | 4932020 | 4941154 | 4952226 | 4961619 |
| 4914081 | 4922251 | 4932021 | 4941729 | 4952524 | 4962497 |
| 4914177 | 4922311 | 4932030 | 4941738 | 4952554 | 4962498 |
| 4914286 | 4922325 | 4932032 | 4941795 | 4952791 | 4962499 |
| 4914430 | 4922417 | 4932050 | 4941905 | 4952792 | 4962905 |
| 4914443 | 4922480 | 4932739 | 4942442 | 4952862 | 4962985 |
| 4914500 | 4922486 | 4932745 | 4942574 | 4953106 | 4962992 |
| 4914502 | 4922490 | 4932989 | 4943540 | 4953157 | 4963161 |
| 4914559 | 4922515 | 4932990 | 4943557 | 4953158 | 4963832 |
| 4914563 | 4922519 | 4933297 | 4943855 | 4953159 | 4964020 |
| 4914570 | 4923271 | 4933317 | 4943909 | 4953170 | 4965091 |
| 4914580 | 4923301 | 4933542 | 4943973 | 4953198 | 4965094 |
| 4914615 | 4923521 | 4933967 | 4943995 | 4953204 | 4965208 |
| 4914648 | 4923561 | 4934785 | 4943999 | 4953206 | 4965665 |
| 4914650 | 4923564 | 4934818 | 4944029 | 4953460 | 4965775 |
| 4914653 | 4923739 | 4935094 | 4944838 | 4954453 | 4965796 |
| 4914666 | 4924195 | 4935376 | 4944916 | 4955016 | 4965932 |
| 4914667 | 4924386 | 4935382 | 4944979 | 4955017 | 4966431 |
| 4914692 | 4924459 | 4935928 | 4945393 | 4955021 | 4966433 |
| 4914866 | 4924464 | 4935954 | 4945400 | 4955028 | 4966446 |
| 4915472 | 4924480 | 4937643 | 4946236 | 4955688 | 4966447 |
| 4915651 | 4924491 | 4937653 | 4946237 | 4955976 | 4966645 |
| 4915716 | 4924492 | 4937660 | 4946542 | 4956698 | 4966885 |
| 4915805 | 4924510 | 4937771 | 4946544 | 4956871 | 4967068 |
| 4916522 | 4924516 | 4937814 | 4946549 | 4957526 | 4967168 |
| 4916691 | 4925407 | 4937817 | 4947061 | 4957829 | 4968339 |
| 4916705 | 4926221 | 4937819 | 4947112 | 4958115 | 4968644 |
| 4917456 | 4926384 | 4937870 | 4947134 | 4958226 | 4969185 |
| 4917475 | 4926429 | 4937872 | 4947228 | 4958341 | 4969676 |
| 4918031 | 4926538 | 4938552 | 4947335 | 4958343 | 4969706 |
| 4918396 | 4926545 | 4938560 | 4947389 | 4958903 | 4970381 |
| 4918643 | 4927227 | 4938847 | 4947400 | 4959129 | 4970717 |
| 4918685 | 4927590 | 4939102 | 4947413 | 4959534 | 4970723 |
| 4918719 | 4928266 | 4939474 | 4947421 | 4959555 | 4971418 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0437

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 4971419 | 4979234 | 4989022 | 4999627 | 5004321 | 5012245 |
| 4971614 | 4979389 | 4989199 | 4999687 | 5004325 | 5012319 |
| 4972106 | 4979664 | 4989201 | 4999694 | 5004433 | 5012466 |
| 4972162 | 4979795 | 4989936 | 4999697 | 5005170 | 5012484 |
| 4972453 | 4980007 | 4990802 | 4999705 | 5005171 | 5012486 |
| 4972465 | 4980252 | 4990989 | 4999743 | 5005175 | 5012490 |
| 4972485 | 4980301 | 4991062 | 4999808 | 5005212 | 5012512 |
| 4972490 | 4980304 | 4991168 | 4999829 | 5005284 | 5013119 |
| 4972514 | 4980314 | 4991171 | 4999830 | 5006504 | 5013130 |
| 4973120 | 4980767 | 4991176 | 4999832 | 5007046 | 5013685 |
| 4973126 | 4980778 | 4991179 | 4999842 | 5007059 | 5013691 |
| 4973127 | 4980892 | 4991975 | 4999843 | 5007067 | 5013903 |
| 4973343 | 4980906 | 4992394 | 4999907 | 5007076 | 5014162 |
| 4973922 | 4980971 | 4992623 | 5000532 | 5007093 | 5014262 |
| 4973961 | 4981335 | 4992848 | 5000536 | 5007102 | 5014265 |
| 4974044 | 4981341 | 4993014 | 5000541 | 5007106 | 5014266 |
| 4974256 | 4981550 | 4993015 | 5000771 | 5007520 | 5014286 |
| 4974926 | 4981770 | 4993016 | 5000772 | 5007741 | 5014413 |
| 4974930 | 4981811 | 4993047 | 5000795 | 5008217 | 5015063 |
| 4974931 | 4982139 | 4994349 | 5001304 | 5008644 | 5015068 |
| 4975389 | 4982190 | 4995057 | 5001439 | 5008672 | 5015508 |
| 4975829 | 4982262 | 4995075 | 5001443 | 5008717 | 5016012 |
| 4975972 | 4982325 | 4995104 | 5001474 | 5008777 | 5016076 |
| 4976596 | 4982333 | 4995149 | 5001534 | 5008881 | 5016081 |
| 4977103 | 4982349 | 4995686 | 5001561 | 5008903 | 5016243 |
| 4977582 | 4982421 | 4995690 | 5001701 | 5008930 | 5016271 |
| 4977934 | 4982428 | 4995695 | 5001702 | 5008935 | 5016952 |
| 4978189 | 4983804 | 4995815 | 5001706 | 5008958 | 5016968 |
| 4978423 | 4984268 | 4996136 | 5001710 | 5009477 | 5017155 |
| 4978712 | 4984272 | 4996167 | 5001720 | 5009724 | 5017263 |
| 4978842 | 4984298 | 4996189 | 5001742 | 5010306 | 5017799 |
| 4978907 | 4984864 | 4996576 | 5001766 | 5010374 | 5017807 |
| 4978910 | 4985371 | 4996704 | 5002350 | 5010554 | 5017815 |
| 4978915 | 4985373 | 4996705 | 5002631 | 5010574 | 5017885 |
| 4979049 | 4986761 | 4997500 | 5002898 | 5011254 | 5017889 |
| 4979163 | 4987471 | 4997994 | 5003361 | 5011260 | 5017917 |
| 4979164 | 4988209 | 4998793 | 5003451 | 5011416 | 5017986 |
| 4979165 | 4988311 | 4998796 | 5003466 | 5011418 | 5018129 |
| 4979174 | 4988405 | 4999315 | 5003535 | 5011792 | 5018157 |
| 4979184 | 4988587 | 4999317 | 5003546 | 5011794 | 5018184 |
| 4979206 | 4988834 | 4999485 | 5003574 | 5011823 | 5018187 |
| 4979211 | 4988875 | 4999507 | 5003577 | 5012142 | 5018938 |
| 4979228 | 4988993 | 4999529 | 5003595 | 5012233 | 5020003 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0438

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 5020049 | 5025211 | 5034944 | 5043982 | 5052000 | 5063473 |
| 5020050 | 5025258 | 5034975 | 5043983 | 5052015 | 5063501 |
| 5020054 | 5025300 | 5035169 | 5043986 | 5052025 | 5063502 |
| 5020055 | 5025423 | 5036023 | 5043992 | 5052031 | 5063503 |
| 5020059 | 5025456 | 5036378 | 5044010 | 5053383 | 5063504 |
| 5020098 | 5026411 | 5036452 | 5044113 | 5053852 | 5063564 |
| 5020112 | 5026666 | 5036512 | 5044724 | 5054035 | 5063569 |
| 5020123 | 5027079 | 5037180 | 5044990 | 5054050 | 5063578 |
| 5020153 | 5027083 | 5037476 | 5045249 | 5055795 | 5063585 |
| 5020875 | 5027330 | 5037763 | 5045364 | 5055971 | 5063586 |
| 5021072 | 5027353 | 5038209 | 5045486 | 5056088 | 5063592 |
| 5021302 | 5027358 | 5038307 | 5045898 | 5056098 | 5064051 |
| 5021362 | 5027362 | 5038315 | 5046100 | 5056101 | 5064136 |
| 5021630 | 5027435 | 5039190 | 5046183 | 5056112 | 5064490 |
| 5021997 | 5027436 | 5039195 | 5046658 | 5056117 | 5064497 |
| 5022053 | 5027935 | 5039325 | 5046800 | 5056889 | 5064685 |
| 5022070 | 5028892 | 5039578 | 5047369 | 5057186 | 5065050 |
| 5022730 | 5029163 | 5039653 | 5047810 | 5057441 | 5065309 |
| 5022958 | 5029166 | 5039963 | 5047835 | 5057455 | 5065396 |
| 5023198 | 5029185 | 5039993 | 5048013 | 5057462 | 5065692 |
| 5023557 | 5029200 | 5040033 | 5048015 | 5057781 | 5065931 |
| 5023565 | 5029215 | 5040035 | 5048021 | 5057789 | 5065933 |
| 5023611 | 5029297 | 5040062 | 5048057 | 5057877 | 5066566 |
| 5023673 | 5030266 | 5040111 | 5048080 | 5058178 | 5066615 |
| 5023685 | 5030926 | 5040173 | 5048081 | 5058179 | 5066998 |
| 5023864 | 5030966 | 5040183 | 5048747 | 5058976 | 5067047 |
| 5023868 | 5031012 | 5040186 | 5048908 | 5059230 | 5067104 |
| 5023878 | 5031053 | 5040193 | 5048909 | 5059635 | 5067164 |
| 5023881 | 5031188 | 5040217 | 5048965 | 5060276 | 5067173 |
| 5023902 | 5031983 | 5040228 | 5049721 | 5060302 | 5067783 |
| 5023910 | 5032001 | 5040327 | 5049981 | 5060312 | 5068207 |
| 5023917 | 5032492 | 5041018 | 5049982 | 5061924 | 5068631 |
| 5023947 | 5032798 | 5041393 | 5050004 | 5062038 | 5068657 |
| 5024415 | 5032803 | 5042032 | 5050163 | 5062040 | 5068868 |
| 5024497 | 5032991 | 5042040 | 5050949 | 5062103 | 5068877 |
| 5024506 | 5033028 | 5042062 | 5050954 | 5062105 | 5068892 |
| 5024733 | 5033076 | 5042064 | 5050957 | 5062108 | 5069730 |
| 5024864 | 5033083 | 5042889 | 5051275 | 5062684 | 5070453 |
| 5024873 | 5033389 | 5043539 | 5051326 | 5063017 | 5072179 |
| 5024966 | 5033830 | 5043605 | 5051791 | 5063359 | 5072309 |
| 5024967 | 5034334 | 5043794 | 5051816 | 5063422 | 5072327 |
| 5025165 | 5034344 | 5043808 | 5051880 | 5063426 | 5072443 |
| 5025170 | 5034783 | 5043870 | 5051979 | 5063444 | 5073003 |

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AT&T PROPRIETARY (RESTRICTED)
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USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0439

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 5073004 | 5084802 | 5093914 | 5104433 | 5111522 | 5119372 |
| 5073716 | 5084815 | 5093920 | 5105164 | 5112238 | 5119406 |
| 5073890 | 5084869 | 5095176 | 5105165 | 5113036 | 5119460 |
| 5073981 | 5084877 | 5095281 | 5105293 | 5113041 | 5120680 |
| 5074633 | 5085070 | 5095381 | 5105305 | 5113159 | 5120939 |
| 5074640 | 5085913 | 5095495 | 5105368 | 5113286 | 5121290 |
| 5074643 | 5087521 | 5095497 | 5105420 | 5113404 | 5121388 |
| 5074646 | 5088057 | 5095519 | 5105438 | 5113431 | 5121426 |
| 5074727 | 5088095 | 5096404 | 5105442 | 5113466 | 5122479 |
| 5075559 | 5088099 | 5096439 | 5105443 | 5114233 | 5122892 |
| 5075749 | 5088113 | 5096442 | 5105468 | 5115185 | 5123033 |
| 5075756 | 5088587 | 5096840 | 5106175 | 5115294 | 5123066 |
| 5075843 | 5088601 | 5097148 | 5106453 | 5115309 | 5123073 |
| 5075963 | 5088931 | 5097499 | 5106764 | 5115338 | 5123940 |
| 5076008 | 5089057 | 5097501 | 5106766 | 5115391 | 5123996 |
| 5076096 | 5089438 | 5097516 | 5106771 | 5115425 | 5124014 |
| 5076654 | 5089442 | 5097529 | 5106783 | 5115426 | 5124216 |
| 5076824 | 5090790 | 5099149 | 5106786 | 5115427 | 5124281 |
| 5076881 | 5090927 | 5099478 | 5106826 | 5115430 | 5125024 |
| 5077176 | 5090978 | 5099489 | 5107323 | 5115432 | 5125057 |
| 5077483 | 5091053 | 5100507 | 5107330 | 5115441 | 5125063 |
| 5077728 | 5091641 | 5100518 | 5107397 | 5115442 | 5125560 |
| 5078464 | 5091767 | 5100827 | 5107452 | 5115452 | 5126007 |
| 5078468 | 5091826 | 5100836 | 5107493 | 5115453 | 5126289 |
| 5078482 | 5091872 | 5100870 | 5107497 | 5115487 | 5126660 |
| 5078499 | 5091908 | 5101090 | 5107499 | 5115488 | 5126661 |
| 5079112 | 5091916 | 5101290 | 5107501 | 5115505 | 5126730 |
| 5079130 | 5091931 | 5101291 | 5107538 | 5115995 | 5126889 |
| 5080279 | 5091945 | 5101400 | 5107627 | 5116718 | 5127047 |
| 5080461 | 5091979 | 5101439 | 5109329 | 5117130 | 5127061 |
| 5080722 | 5091988 | 5101442 | 5109392 | 5117291 | 5127081 |
| 5081075 | 5092264 | 5101454 | 5109408 | 5117372 | 5127991 |
| 5081377 | 5093565 | 5101456 | 5109457 | 5117472 | 5128006 |
| 5081421 | 5093634 | 5101457 | 5109458 | 5118333 | 5128738 |
| 5081647 | 5093695 | 5101465 | 5109515 | 5118904 | 5128756 |
| 5082343 | 5093725 | 5102040 | 5110036 | 5118964 | 5128787 |
| 5082345 | 5093743 | 5102827 | 5110211 | 5119016 | 5128800 |
| 5082346 | 5093803 | 5102829 | 5110335 | 5119051 | 5129013 |
| 5082348 | 5093827 | 5103227 | 5110756 | 5119075 | 5129023 |
| 5082719 | 5093856 | 5103374 | 5110765 | 5119196 | 5129030 |
| 5083206 | 5093876 | 5103376 | 5111255 | 5119228 | 5130213 |
| 5083308 | 5093900 | 5103444 | 5111475 | 5119366 | 5130512 |
| 5084415 | 5093913 | 5103475 | 5111512 | 5119368 | 5130535 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0440

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 5130894 | 5136428 | 5147432 | 5155780 | 5166785 | 5179707 |
| 5130897 | 5136538 | 5147433 | 5155785 | 5166930 | 5179708 |
| 5130986 | 5136581 | 5147820 | 5155788 | 5166931 | 5180482 |
| 5131012 | 5136584 | 5147825 | 5155833 | 5166954 | 5181134 |
| 5131013 | 5136603 | 5148274 | 5155858 | 5166993 | 5181179 |
| 5131041 | 5136612 | 5148504 | 5157017 | 5167726 | 5181210 |
| 5131064 | 5136617 | 5149404 | 5157744 | 5168071 | 5181216 |
| 5132244 | 5136671 | 5149672 | 5157747 | 5168089 | 5181242 |
| 5132280 | 5136690 | 5150246 | 5157759 | 5169422 | 5181269 |
| 5132553 | 5136707 | 5150277 | 5158136 | 5169798 | 5182536 |
| 5132685 | 5138177 | 5150358 | 5158907 | 5170407 | 5182750 |
| 5132829 | 5138475 | 5150377 | 5158908 | 5170455 | 5182751 |
| 5132976 | 5138543 | 5150789 | 5159290 | 5171373 | 5182766 |
| 5133034 | 5138570 | 5150829 | 5159445 | 5171704 | 5182787 |
| 5133039 | 5138614 | 5150832 | 5159447 | 5172213 | 5184115 |
| 5133129 | 5138633 | 5150852 | 5159594 | 5172259 | 5184280 |
| 5134090 | 5138657 | 5151306 | 5159600 | 5172371 | 5184311 |
| 5134447 | 5138685 | 5151784 | 5159634 | 5172383 | 5184347 |
| 5134475 | 5140299 | 5151817 | 5161584 | 5172408 | 5185291 |
| 5134476 | 5140655 | 5152055 | 5162609 | 5172414 | 5185742 |
| 5134477 | 5140656 | 5152476 | 5162613 | 5172420 | 5185781 |
| 5134480 | 5140658 | 5153083 | 5162753 | 5173269 | 5185782 |
| 5134617 | 5141794 | 5153145 | 5162762 | 5173980 | 5185785 |
| 5134633 | 5141878 | 5153147 | 5162792 | 5174021 | 5185824 |
| 5134671 | 5141897 | 5153541 | 5162812 | 5174803 | 5185826 |
| 5134673 | 5144308 | 5153693 | 5163016 | 5175640 | 5185827 |
| 5134679 | 5144324 | 5153701 | 5163044 | 5175662 | 5185843 |
| 5134709 | 5144375 | 5153757 | 5163045 | 5175878 | 5185844 |
| 5134711 | 5144423 | 5153778 | 5163046 | 5175989 | 5185845 |
| 5135555 | 5144435 | 5153846 | 5163047 | 5176792 | 5185846 |
| 5135590 | 5144637 | 5153909 | 5163066 | 5177737 | 5185966 |
| 5135605 | 5146046 | 5153919 | 5163081 | 5177780 | 5186647 |
| 5135622 | 5146078 | 5153932 | 5163083 | 5178319 | 5186649 |
| 5135838 | 5146079 | 5154886 | 5163086 | 5178723 | 5186756 |
| 5135886 | 5146175 | 5155302 | 5163115 | 5178745 | 5187027 |
| 5136120 | 5146361 | 5155303 | 5163156 | 5178916 | 5187149 |
| 5136121 | 5146396 | 5155304 | 5164041 | 5179029 | 5187329 |
| 5136252 | 5146405 | 5155620 | 5164963 | 5179251 | 5187432 |
| 5136263 | 5146455 | 5155623 | 5165543 | 5179365 | 5187610 |
| 5136264 | 5146494 | 5155692 | 5165956 | 5179419 | 5187637 |
| 5136302 | 5146517 | 5155732 | 5165959 | 5179609 | 5187660 |
| 5136374 | 5146534 | 5155760 | 5165984 | 5179626 | 5187706 |
| 5136377 | 5146661 | 5155779 | 5166091 | 5179669 | 5187712 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0441

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 5187722 | 5204902 | 5212457 | 5220630 | 5228976 | 5239128 |
| 5187733 | 5204925 | 5212486 | 5221130 | 5229231 | 5239193 |
| 5187741 | 5205033 | 5212491 | 5221306 | 5229255 | 5239460 |
| 5187759 | 5205668 | 5212578 | 5221413 | 5229303 | 5239510 |
| 5187763 | 5205867 | 5212584 | 5221417 | 5229304 | 5239521 |
| 5189694 | 5205890 | 5212701 | 5221847 | 5229876 | 5239562 |
| 5189725 | 5206317 | 5212702 | 5221860 | 5229990 | 5239744 |
| 5190285 | 5206497 | 5212704 | 5222061 | 5230000 | 5240090 |
| 5190460 | 5206524 | 5212711 | 5222122 | 5230010 | 5240432 |
| 5191462 | 5206526 | 5212743 | 5222128 | 5230145 | 5240488 |
| 5191631 | 5206538 | 5212752 | 5222177 | 5230852 | 5240866 |
| 5191970 | 5206585 | 5212754 | 5222213 | 5230970 | 5241190 |
| 5193259 | 5206722 | 5212757 | 5222908 | 5231631 | 5241275 |
| 5193761 | 5206753 | 5212758 | 5223704 | 5232873 | 5241414 |
| 5194105 | 5206820 | 5212761 | 5223705 | 5233129 | 5241552 |
| 5194117 | 5206854 | 5212821 | 5223723 | 5233184 | 5241599 |
| 5194765 | 5206857 | 5213748 | 5223724 | 5233200 | 5242477 |
| 5194948 | 5206871 | 5213864 | 5223809 | 5233606 | 5243221 |
| 5195023 | 5206872 | 5213995 | 5224113 | 5233652 | 5243229 |
| 5195085 | 5206878 | 5214370 | 5224126 | 5233660 | 5243413 |
| 5195086 | 5206901 | 5214507 | 5224151 | 5234149 | 5243419 |
| 5195087 | 5206902 | 5214645 | 5224179 | 5234153 | 5243437 |
| 5195090 | 5206903 | 5214656 | 5224190 | 5234157 | 5243438 |
| 5195091 | 5207583 | 5214734 | 5224194 | 5234198 | 5243627 |
| 5195103 | 5208183 | 5215602 | 5225922 | 5235508 | 5243629 |
| 5195107 | 5208546 | 5215801 | 5225966 | 5235658 | 5243641 |
| 5195137 | 5208705 | 5215867 | 5225998 | 5235659 | 5243644 |
| 5195161 | 5208809 | 5215930 | 5226042 | 5235669 | 5243669 |
| 5196400 | 5208816 | 5216519 | 5226053 | 5236552 | 5243672 |
| 5197654 | 5208817 | 5216694 | 5226055 | 5236792 | 5243674 |
| 5198656 | 5208821 | 5216702 | 5226071 | 5237234 | 5243675 |
| 5199049 | 5208824 | 5216727 | 5226073 | 5237290 | 5244195 |
| 5199096 | 5208885 | 5217518 | 5226076 | 5237576 | 5244408 |
| 5199966 | 5208886 | 5217792 | 5226082 | 5237577 | 5244749 |
| 5199993 | 5208892 | 5217808 | 5226835 | 5237591 | 5244759 |
| 5200024 | 5208976 | 5217811 | 5227006 | 5237604 | 5244821 |
| 5200029 | 5210071 | 5217831 | 5227314 | 5237605 | 5244868 |
| 5200358 | 5210428 | 5217906 | 5227335 | 5237607 | 5245131 |
| 5200544 | 5210810 | 5218655 | 5227788 | 5237637 | 5245454 |
| 5201114 | 5211764 | 5219623 | 5227878 | 5237691 | 5245607 |
| 5201584 | 5212112 | 5219772 | 5228030 | 5237879 | 5245796 |
| 5202946 | 5212116 | 5220325 | 5228040 | 5238175 | 5246799 |
| 5203691 | 5212395 | 5220578 | 5228893 | 5238426 | 5246801 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0442

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 5246887 | 5257397 | 5267317 | 5276746 | 5282198 | 5289303 |
| 5247608 | 5258243 | 5268087 | 5277730 | 5282214 | 5289370 |
| 5247651 | 5258246 | 5268329 | 5277752 | 5282244 | 5289464 |
| 5249180 | 5258901 | 5268332 | 5278076 | 5282293 | 5289467 |
| 5249195 | 5258946 | 5268556 | 5278096 | 5283500 | 5289472 |
| 5249223 | 5258978 | 5268582 | 5278404 | 5283540 | 5289473 |
| 5249248 | 5258987 | 5268635 | 5278509 | 5283746 | 5289499 |
| 5249354 | 5259046 | 5268656 | 5278646 | 5283833 | 5289501 |
| 5249733 | 5259051 | 5268666 | 5278647 | 5285086 | 5289535 |
| 5250096 | 5259054 | 5268830 | 5278681 | 5285305 | 5289542 |
| 5251179 | 5259067 | 5268935 | 5278689 | 5285441 | 5289579 |
| 5251208 | 5259920 | 5268936 | 5278812 | 5285468 | 5289694 |
| 5251215 | 5260151 | 5268981 | 5278823 | 5285477 | 5290101 |
| 5251236 | 5260972 | 5270486 | 5278824 | 5285498 | 5290720 |
| 5251255 | 5261016 | 5270813 | 5278855 | 5285511 | 5291156 |
| 5251328 | 5261023 | 5270927 | 5278865 | 5285513 | 5291324 |
| 5252434 | 5261090 | 5271090 | 5278890 | 5286338 | 5291481 |
| 5252520 | 5263033 | 5272118 | 5278892 | 5286969 | 5291482 |
| 5252934 | 5263103 | 5272132 | 5278894 | 5286970 | 5291490 |
| 5252941 | 5263390 | 5272330 | 5278905 | 5286971 | 5291493 |
| 5253055 | 5263865 | 5272596 | 5278932 | 5287103 | 5291521 |
| 5253056 | 5264076 | 5272697 | 5278959 | 5287182 | 5291541 |
| 5253104 | 5264107 | 5273554 | 5278969 | 5287211 | 5291552 |
| 5253248 | 5264377 | 5273621 | 5278972 | 5287296 | 5291572 |
| 5253294 | 5264392 | 5273849 | 5279633 | 5287344 | 5291600 |
| 5253304 | 5264723 | 5274347 | 5279740 | 5287347 | 5292390 |
| 5253314 | 5264752 | 5274543 | 5279925 | 5287426 | 5293480 |
| 5254854 | 5264960 | 5274644 | 5280191 | 5287427 | 5293597 |
| 5254881 | 5265109 | 5274659 | 5280383 | 5288368 | 5294260 |
| 5255221 | 5265127 | 5274703 | 5280470 | 5288572 | 5294831 |
| 5255265 | 5265143 | 5274718 | 5280503 | 5288591 | 5296956 |
| 5255314 | 5265150 | 5274729 | 5280525 | 5288657 | 5297191 |
| 5255315 | 5265177 | 5274730 | 5280526 | 5288659 | 5297192 |
| 5255330 | 5265186 | 5274734 | 5280551 | 5288951 | 5297198 |
| 5255383 | 5265191 | 5274748 | 5280556 | 5288990 | 5297868 |
| 5256851 | 5265250 | 5274807 | 5281248 | 5288996 | 5298037 |
| 5256958 | 5266352 | 5275687 | 5281301 | 5288997 | 5298047 |
| 5257000 | 5266506 | 5275711 | 5281542 | 5288998 | 5298105 |
| 5257268 | 5266880 | 5275841 | 5281552 | 5288999 | 5298117 |
| 5257329 | 5267063 | 5275896 | 5281557 | 5289015 | 5298436 |
| 5257332 | 5267077 | 5276303 | 5281884 | 5289025 | 5298454 |
| 5257336 | 5267243 | 5276425 | 5282123 | 5289055 | 5298800 |
| 5257339 | 5267304 | 5276730 | 5282174 | 5289179 | 5298817 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0443

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 5299044 | 5305336 | 5311305 | 5317480 | 5328872 | 5334885 |
| 5299047 | 5305352 | 5311344 | 5317630 | 5329113 | 5335228 |
| 5299090 | 5305353 | 5311345 | 5317658 | 5329136 | 5335229 |
| 5299212 | 5305410 | 5311346 | 5319585 | 5329144 | 5335405 |
| 5299257 | 5305411 | 5311456 | 5319666 | 5329151 | 5335408 |
| 5299259 | 5305416 | 5311512 | 5320918 | 5329170 | 5336371 |
| 5299261 | 5305443 | 5311520 | 5321541 | 5329210 | 5336970 |
| 5299268 | 5306867 | 5311526 | 5321691 | 5329392 | 5337022 |
| 53 5644 | 5307434 | 5311547 | 5321743 | 5329393 | 5337334 |
| 5300789 | 5307693 | 5311551 | 5321788 | 5329396 | 5337353 |
| 5300837 | 5307983 | 5311557 | 5321842 | 5329424 | 5337372 |
| 5300894 | 5308444 | 5311569 | 5322463 | 5329524 | 5337375 |
| 5301008 | 5308555 | 5311570 | 5322807 | 5329533 | 5337382 |
| 5301201 | 5308721 | 5311574 | 5323053 | 5329551 | 5337384 |
| 5301209 | 5308742 | 5311576 | 5323390 | 5329570 | 5337398 |
| 5301246 | 5308796 | 5311578 | 5323404 | 5329572 | 5338223 |
| 5301286 | 5308947 | 5311584 | 5323447 | 5329573 | 5338626 |
| 5301988 | 5308954 | 5311585 | 5324603 | 5329579 | 5339157 |
| 5302140 | 5309003 | 5311586 | 5325427 | 5329582 | 5339346 |
| 5302555 | 5309028 | 5311589 | 5325438 | 5329583 | 5339384 |
| 5302914 | 5309232 | 5311596 | 5326626 | 5329586 | 5340016 |
| 5302916 | 5309260 | 5311598 | 5326638 | 5329587 | 5340796 |
| 5303079 | 5309267 | 5311608 | 5326671 | 5329605 | 5341314 |
| 5303138 | 5309395 | 5312266 | 5326727 | 5329608 | 5341364 |
| 5303235 | 5309432 | 5312780 | 5326948 | 5330629 | 5341395 |
| 5303290 | 5309447 | 5312781 | 5327302 | 5330925 | 5341416 |
| 5303307 | 5309469 | 5313382 | 5327319 | 5331274 | 5341444 |
| 5304437 | 5309501 | 5313463 | 5327333 | 5331348 | 5341457 |
| 5304460 | 5309509 | 5313554 | 5327421 | 5331591 | 5343032 |
| 5304816 | 5309512 | 5313567 | 5327484 | 5331628 | 5343162 |
| 5304834 | 5309526 | 5313614 | 5327487 | 5331631 | 5343192 |
| 5304839 | 5309534 | 5313840 | 5327488 | 5331632 | 5343240 |
| 5304846 | 5309635 | 5314519 | 5327489 | 5331670 | 5343490 |
| 5304856 | 5310457 | 5314712 | 5327492 | 5332690 | 5343500 |
| 5304867 | 5310999 | 5314838 | 5327511 | 5332996 | 5343517 |
| 5304945 | 5311008 | 5315128 | 5327515 | 5333185 | 5343523 |
| 5304962 | 5311009 | 5315270 | 5327516 | 5333188 | 5343526 |
| 5304987 | 5311045 | 5315629 | 5327520 | 5333209 | 5344475 |
| 5305102 | 5311080 | 5316562 | 5327537 | 5333219 | 5344797 |
| 5305191 | 5311084 | 5316879 | 5327544 | 5333521 | 5345119 |
| 5305308 | 5311088 | 5316968 | 5328550 | 5334029 | 5345323 |
| 5305312 | 5311155 | 5317196 | 5328552 | 5334306 | 5345327 |
| 5305320 | 5311171 | 5317439 | 5328854 | 5334541 | 5345356 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0444

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 5345357 | 5353309 | 5363440 | 5371784 | 5377896 | 5384840 |
| 5345419 | 5353312 | 5363441 | 5371786 | 5377900 | 5384876 |
| 5345441 | 5353313 | 5363443 | 5371788 | 5378664 | 5384877 |
| 5345443 | 5353327 | 5363461 | 5371815 | 5379358 | 5384885 |
| 5345444 | 5353333 | 5363489 | 5371818 | 5379364 | 5385097 |
| 5345445 | 5353341 | 5364427 | 5372088 | 5380398 | 5385290 |
| 5345446 | 5353351 | 5364472 | 5372622 | 5380400 | 5385487 |
| 5345454 | 5355019 | 5364836 | 5372899 | 5380551 | 5385632 |
| 5345462 | 5355345 | 5365430 | 5373100 | 5380559 | 5385809 |
| 5345468 | 5355369 | 5365524 | 5373133 | 5381031 | 5386156 |
| 5345499 | 5355376 | 5365528 | 5373149 | 5381058 | 5386314 |
| 5345525 | 5355404 | 5365656 | 5373180 | 5381062 | 5386383 |
| 5345528 | 5355405 | 5366557 | 5373248 | 5381125 | 5386414 |
| 5345529 | 5355845 | 5366851 | 5373265 | 5381387 | 5386417 |
| 5345542 | 5356447 | 5366924 | 5373288 | 5381405 | 5386457 |
| 5345670 | 5356449 | 5367140 | 5373385 | 5381419 | 5386460 |
| 5346118 | 5356526 | 5367273 | 5373387 | 5381461 | 5386466 |
| 5346581 | 5356659 | 5367336 | 5373516 | 5381463 | 5386641 |
| 5346583 | 5356662 | 5367539 | 5373517 | 5381464 | 5387269 |
| 5346655 | 5357146 | 5367566 | 5373549 | 5381471 | 5387899 |
| 5346775 | 5357208 | 5367586 | 5373551 | 5381475 | 5388088 |
| 5346855 | 5358827 | 5367589 | 5373552 | 5381701 | 5388102 |
| 5347227 | 5359189 | 5369519 | 5373553 | 5382300 | 5388147 |
| 5348912 | 5359678 | 5369520 | 5373578 | 5382314 | 5388149 |
| 5348913 | 5360979 | 5369694 | 5374504 | 5382340 | 5388153 |
| 5349341 | 5360987 | 5369696 | 5375036 | 5382498 | 5388163 |
| 5349503 | 5360991 | 5369701 | 5375074 | 5382794 | 5388170 |
| 5349635 | 5361259 | 5369703 | 5375164 | 5383015 | 5388174 |
| 5349743 | 5361270 | 5370237 | 5375167 | 5383016 | 5388186 |
| 5350303 | 5361276 | 5370547 | 5375180 | 5383118 | 5388188 |
| 5351146 | 5361298 | 5370553 | 5375244 | 5383180 | 5388238 |
| 5351236 | 5361362 | 5370768 | 5376236 | 5383212 | 5388756 |
| 5351261 | 5362575 | 5371325 | 5376505 | 5384153 | 5389193 |
| 5351371 | 5362585 | 5371534 | 5376880 | 5384497 | 5389428 |
| 5352328 | 5362977 | 5371544 | 5377014 | 5384504 | 5389442 |
| 5353114 | 5363068 | 5371597 | 5377194 | 5384635 | 5389603 |
| 5353147 | 5363141 | 5371682 | 5377201 | 5384771 | 5389776 |
| 5353155 | 5363204 | 5371742 | 5377230 | 5384774 | 5389779 |
| 5353164 | 5363239 | 5371762 | 5377231 | 5384806 | 5389892 |
| 5353192 | 5363289 | 5371763 | 5377261 | 5384810 | 5389900 |
| 5353212 | 5363369 | 5371780 | 5377262 | 5384822 | 5389965 |
| 5353245 | 5363394 | 5371781 | 5377281 | 5384823 | 5390164 |
| 5353302 | 5363398 | 5371782 | 5377301 | 5384826 | 5390169 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0445

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 5390175 | 5394504 | 5404002 | 5412263 | 5416872 | 5422963 |
| 5390177 | 5394540 | 5404123 | 5412346 | 5417577 | 5424611 |
| 5390200 | 5395741 | 5404167 | 5412499 | 5417802 | 5424613 |
| 5390209 | 5395776 | 5404350 | 5412506 | 5418173 | 5424739 |
| 5390233 | 5395787 | 5404395 | 5412565 | 5418178 | 5425087 |
| 5390241 | 5395789 | 5404413 | 5412606 | 5418183 | 5425097 |
| 5390242 | 5395799 | 5404507 | 5412646 | 5418190 | 5425102 |
| 5391095 | 5395803 | 5404574 | 5412657 | 5418369 | 5425116 |
| 5391269 | 5396059 | 5405566 | 5412712 | 5418463 | 5425495 |
| 5391323 | 5396068 | 5405710 | 5412713 | 5418476 | 5425831 |
| 5391976 | 5396126 | 5405721 | 5412714 | 5418531 | 5425846 |
| 5391994 | 5396192 | 5406194 | 5412716 | 5418559 | 5426460 |
| 5392005 | 5396195 | 5406199 | 5412740 | 5418637 | 5426636 |
| 5392153 | 5396196 | 5406247 | 5412744 | 5418776 | 5426639 |
| 5392277 | 5396486 | 5406401 | 5412754 | 5418792 | 5426657 |
| 5392281 | 5396492 | 5406404 | 5412774 | 5418793 | 5426689 |
| 5392293 | 5396494 | 5406549 | 5413294 | 5418798 | 5426716 |
| 5392335 | 5396507 | 5406583 | 5413755 | 5418845 | 5427327 |
| 5392337 | 5396519 | 5406586 | 5413884 | 5418868 | 5427659 |
| 5392346 | 5396536 | 5406592 | 5413954 | 5418874 | 5427984 |
| 5392349 | 5396541 | 5406615 | 5414219 | 5418881 | 5428318 |
| 5392357 | 5396543 | 5406619 | 5414307 | 5418925 | 5428562 |
| 5392429 | 5396547 | 5406622 | 5414444 | 5418943 | 5428607 |
| 5392432 | 5396548 | 5406623 | 5414785 | 5418947 | 5428609 |
| 5392510 | 5396553 | 5407488 | 5414788 | 5420058 | 5428663 |
| 5392635 | 5396572 | 5407531 | 5415570 | 5420457 | 5429697 |
| 5394031 | 5396591 | 5407532 | 5415730 | 5420551 | 5430396 |
| 5394116 | 5396612 | 5407602 | 5416033 | 5420584 | 5430418 |
| 5394124 | 5396655 | 5407788 | 5416063 | 5420599 | 5430473 |
| 5394125 | 5396702 | 5407859 | 5416361 | 5420754 | 5430572 |
| 5394159 | 5397133 | 5408126 | 5416419 | 5420868 | 5430713 |
| 5394198 | 5397241 | 5408174 | 5416431 | 5420870 | 5430716 |
| 5394265 | 5397372 | 5408351 | 5416432 | 5420871 | 5430747 |
| 5394361 | 5398073 | 5408463 | 5416446 | 5420908 | 5430766 |
| 5394389 | 5398162 | 5408467 | 5416668 | 5420957 | 5430791 |
| 5394392 | 5399532 | 5408537 | 5416769 | 5420973 | 5430808 |
| 5394435 | 5399880 | 5410416 | 5416772 | 5420981 | 5430817 |
| 5394437 | 5399955 | 5410629 | 5416779 | 5421930 | 5430819 |
| 5394461 | 5400164 | 5411566 | 5416834 | 5422582 | 5430827 |
| 5394464 | 5400165 | 5411814 | 5416836 | 5422838 | 5430868 |
| 5394489 | 5400361 | 5411899 | 5416862 | 5422882 | 5430893 |
| 5394498 | 5402256 | 5412161 | 5416863 | 5422943 | 5431770 |
| 5394500 | 5402516 | 5412245 | 5416867 | 5422961 | 5432123 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0446

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 5432388 | 5439849 | 5444270 | 5450414 | 5457712 | 5463615 |
| 5432440 | 5440142 | 5444401 | 5450431 | 5457734 | 5463620 |
| 5432631 | 5440317 | 5444693 | 5450438 | 5457737 | 5463623 |
| 5432804 | 5440415 | 5444704 | 5450449 | 5457760 | 5463641 |
| 5432880 | 5440416 | 5444712 | 5450468 | 5457796 | 5463659 |
| 5434403 | 5440417 | 5444713 | 5450481 | 5457877 | 5463665 |
| 5434525 | 5440575 | 5444716 | 5450482 | 5459097 | 5463670 |
| 5434541 | 5440585 | 5444718 | 5450491 | 5459304 | 5463675 |
| 5434701 | 5440613 | 5444725 | 5450511 | 5459396 | 5463681 |
| 5434852 | 5440615 | 5444760 | 5450518 | 5459414 | 5463728 |
| 5434853 | 5440626 | 5444766 | 5450524 | 5459506 | 5464664 |
| 5434854 | 5440635 | 5444774 | 5450535 | 5459530 | 5464783 |
| 5434876 | 5440655 | 5444777 | 5450577 | 5459606 | 5465113 |
| 5434877 | 5440662 | 5444800 | 5450615 | 5459722 | 5465275 |
| 5434908 | 5440666 | 5445489 | 5451435 | 5459727 | 5465294 |
| 5434928 | 5440726 | 5446375 | 5451480 | 5459779 | 5465319 |
| 5434937 | 5441013 | 5446830 | 5451548 | 5459780 | 5465365 |
| 5434943 | 5441614 | 5446865 | 5452297 | 5459841 | 5465389 |
| 5434945 | 5441616 | 5446880 | 5452343 | 5461005 | 5465478 |
| 5434975 | 5442205 | 5446881 | 5452441 | 5461245 | 5466972 |
| 5436551 | 5442218 | 5448193 | 5454014 | 5461302 | 5467351 |
| 5436756 | 5442306 | 5448200 | 5454034 | 5461308 | 5467415 |
| 5436896 | 5442324 | 5448251 | 5455699 | 5461333 | 5467418 |
| 5436930 | 5442389 | 5448393 | 5455701 | 5461379 | 5467607 |
| 5436966 | 5442474 | 5448555 | 5455835 | 5461390 | 5467732 |
| 5436967 | 5442519 | 5448585 | 5455861 | 5461413 | 5467883 |
| 5438006 | 5442620 | 5448586 | 5457379 | 5461472 | 5468338 |
| 5438022 | 5442624 | 5448590 | 5457414 | 5461573 | 5468669 |
| 5438112 | 5442626 | 5448629 | 5457428 | 5461610 | 5468689 |
| 5438265 | 5442636 | 5448669 | 5457456 | 5461685 | 5469119 |
| 5438301 | 5442637 | 5448672 | 5457495 | 5461690 | 5469268 |
| 5438374 | 5442679 | 5448674 | 5457568 | 5461693 | 5469284 |
| 5438565 | 5442683 | 5448675 | 5457569 | 5461707 | 5469328 |
| 5438592 | 5442689 | 5448852 | 5457601 | 5462012 | 5469438 |
| 5438627 | 5442693 | 5449266 | 5457620 | 5462358 | 5469467 |
| 5438896 | 5442696 | 5449955 | 5457679 | 5462438 | 5470217 |
| 5439395 | 5442702 | 5450026 | 5457682 | 5462888 | 5470530 |
| 5439396 | 5442725 | 5450027 | 5457684 | 5463337 | 5470783 |
| 5439634 | 5442727 | 5450029 | 5457691 | 5463388 | 5471318 |
| 5439780 | 5442769 | 5450229 | 5457697 | 5463472 | 5471500 |
| 5439781 | 5443685 | 5450249 | 5457700 | 5463488 | 5472160 |
| 5439782 | 5443996 | 5450356 | 5457704 | 5463489 | 5472516 |
| 5439847 | 5444226 | 5450372 | 5457709 | 5463520 | 5472562 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0447

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 5472585 | 5476388 | 5481540 | 5486263 | 5499208 | 5504450 |
| 5472886 | 5477164 | 5481544 | 5486783 | 5499244 | 5504606 |
| 5473157 | 5477197 | 5481565 | 5486798 | 5499249 | 5504608 |
| 5473254 | 5477215 | 5481566 | 5487104 | 5499289 | 5504657 |
| 5473269 | 5477375 | 5481570 | 5487117 | 5499291 | 5504736 |
| 5473270 | 5477933 | 5481574 | 5487125 | 5499292 | 5504805 |
| 5473367 | 5478005 | 5481580 | 5487675 | 5499923 | 5504810 |
| 5473379 | 5478371 | 5481590 | 5487967 | 5499935 | 5504896 |
| 5473384 | 5478658 | 5481592 | 5488248 | 5500031 | 5505367 |
| 5473433 | 5478758 | 5481596 | 5488412 | 5500157 | 5506419 |
| 5473439 | 5478776 | 5481597 | 5488425 | 5500312 | 5506519 |
| 5473456 | 5479117 | 5481614 | 5488500 | 5500391 | 5506848 |
| 5473460 | 5479129 | 5481634 | 5488633 | 5500497 | 5506859 |
| 5473467 | 5479398 | 5481635 | 5488665 | 5500605 | 5506870 |
| 5473512 | 5479411 | 5481638 | 5488680 | 5500671 | 5506872 |
| 5473531 | 5479448 | 5481639 | 5488693 | 5500673 | 5506893 |
| 5473596 | 5479482 | 5481642 | 5488715 | 5500678 | 5506898 |
| 5473604 | 5479484 | 5481650 | 5489552 | 5500761 | 5506901 |
| 5473621 | 5479489 | 5481680 | 5489905 | 5500867 | 5506908 |
| 5473622 | 5479493 | 5482802 | 5490055 | 5500889 | 5506925 |
| 5473630 | 5479494 | 5483186 | 5490150 | 5500916 | 5506926 |
| 5473640 | 5479528 | 5483191 | 5490151 | 5501098 | D208534 |
| 5473651 | 5479551 | 5483201 | 5490178 | 5501617 | D243899 |
| 5473684 | 5479582 | 5483207 | 5490199 | 5501761 | D245112 |
| 5473696 | 5479650 | 5483235 | 5490229 | 5501777 | D245113 |
| 5473701 | 5479695 | 5483236 | 5490233 | 5502162 | D245602 |
| 5473714 | 5479729 | 5483237 | 5490253 | 5502328 | D246584 |
| 5473719 | 5480046 | 5483238 | 5490436 | 5502407 | D247643 |
| 5473720 | 5480049 | 5483251 | 5491424 | 5502438 | D247813 |
| 5473730 | 5480529 | 5483369 | 5491741 | 5502587 | D248234 |
| 5473771 | 5480813 | 5483375 | 5491747 | 5502644 | D249882 |
| 5474659 | 5480842 | 5483470 | 5493165 | 5502688 | D250108 |
| 5475345 | 5481104 | 5483527 | 5493611 | 5502727 | D250109 |
| 5475497 | 5481186 | 5483542 | 5493625 | 5502756 | D250307 |
| 5475579 | 5481205 | 5483551 | 5493712 | 5502757 | D250602 |
| 5475682 | 5481219 | 5483590 | 5494697 | 5502763 | D250890 |
| 5475733 | 5481297 | 5483611 | 5495235 | 5502781 | D252087 |
| 5475738 | 5481308 | 5483613 | 5495521 | 5502786 | D252331 |
| 5475747 | 5481312 | 5483884 | 5495543 | 5502787 | D252569 |
| 5475756 | 5481391 | 5484966 | 5496743 | 5502816 | D252570 |
| 5475757 | 5481399 | 5485298 | 5498863 | 5504279 | D252929 |
| 5475780 | 5481440 | 5485512 | 5498923 | 5504385 | D253211 |
| 5476316 | 5481534 | 5485613 | 5498925 | 5504401 | D253344 |

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AT&T PROPRIETARY (RESTRICTED)
SOLELY FOR THOSE PERSONS HAVING A NEED TO KNOW
USE PURSUANT TO COMPANY INSTRUCTIONS

(Final Version)

PATENT
REEL: 013361 FRAME: 0448

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| D253821 | D273584 | D278813 | D285795 | D297325 | D321172 |
| D254006 | D273637 | D278814 | D286045 | D297534 | D321348 |
| D254195 | D273646 | D278816 | D286150 | D298637 | D321870 |
| D254554 | D273909 | D278819 | D286285 | D301143 | D322961 |
| D256120 | D273955 | D279005 | D286533 | D301144 | D322962 |
| D256465 | D274247 | D279010 | D286636 | D301146 | D323489 |
| D256692 | D274724 | D279185 | D287494 | D302266 | D323656 |
| D257978 | D274731 | D279286 | D288445 | D302267 | D323657 |
| D258131 | D274959 | D279287 | D289155 | D302682 | D324037 |
| D258656 | D275004 | D279288 | D289240 | D303111 | D324515 |
| D258736 | D275005 | D279289 | D289284 | D303114 | D325197 |
| D258882 | D275006 | D279375 | D289285 | D303115 | D325199 |
| D259420 | D275096 | D279777 | D289286 | D303638 | D326089 |
| D261582 | D275097 | D279902 | D289287 | D303664 | D326098 |
| D262286 | D275483 | D279982 | D289643 | D304032 | D326649 |
| D262625 | D275484 | D280098 | D289644 | D304587 | D326850 |
| D262626 | D275669 | D280196 | D289648 | D304726 | D327479 |
| D262762 | D276046 | D280197 | D289762 | D305423 | D330705 |
| D263046 | D276228 | D280325 | D289897 | D305537 | D330888 |
| D263048 | D276232 | D280505 | D290006 | D305538 | D332465 |
| D263824 | D276431 | D280816 | D290457 | D306429 | D332610 |
| D264210 | D277001 | D280896 | D290703 | D306576 | D334568 |
| D264967 | D277002 | D281160 | D291083 | D306999 | D334937 |
| D265401 | D277181 | D281599 | D293321 | D307039 | D335670 |
| D265478 | D277282 | D282257 | D293440 | D307560 | D337097 |
| D265558 | D277378 | D282358 | D293441 | D307748 | D337571 |
| D266381 | D277379 | D282467 | D294028 | D308965 | D337770 |
| D266927 | D277479 | D283024 | D294262 | D309605 | D338469 |
| D268342 | D277480 | D283025 | D294357 | D310665 | D338470 |
| D269088 | D277570 | D283814 | D294496 | D311389 | D338659 |
| D269432 | D277571 | D283890 | D294500 | D312070 | D339113 |
| D269528 | D277573 | D283894 | D294579 | D313233 | D339328 |
| D270834 | D277664 | D283979 | D294943 | D313795 | D339795 |
| D271016 | D277665 | D284280 | D295169 | D313796 | D340036 |
| D271691 | D277666 | D284471 | D295411 | D313976 | D341586 |
| D271971 | D277958 | D284764 | D295415 | D314191 | D342261 |
| D271972 | D278056 | D285073 | D295512 | D314746 | D344514 |
| D272149 | D278239 | D285076 | D295748 | D315343 | D344515 |
| D272150 | D278336 | D285198 | D295976 | D315557 | D344516 |
| D272354 | D278531 | D285305 | D296328 | D318051 | D344525 |
| D272624 | D278534 | D285306 | D296329 | D318469 | D345556 |
| D273110 | D278630 | D285561 | D296560 | D319439 | D345971 |
| D273449 | D278711 | D285576 | D296693 | D320985 | D345972 |

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| D345975 | D363731 | RE30973 | RE32858 | RE35050 | H204 |
| D345976 | D364621 | RE31053 | RE32893 | RE35119 | H208 |
| D346154 | D364621 | RE31180 | RE32900 | T955001 | H36 |
| D346199 | D365808 | RE31188 | RE33041 | T958009 | H40 |
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| D355137 | RE29215 | RE31423 | RE33622 | H1 | H610 |
| D355186 | RE29234 | RE31510 | RE33651 | H102 | H64 |
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| D355188 | RE29535 | RE31651 | RE33671 | H1155 | H66 |
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| D355190 | RE29677 | RE32012 | RE33693 | H118 | H73 |
| D355651 | RE29879 | RE32090 | RE33900 | H13 | H763 |
| D355652 | RE29886 | RE32124 | RE34247 | H1373 | H842 |
| D355659 | RE30182 | RE32172 | RE34269 | H147 | H965 |
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REEL: 013361 FRAME: 0450

| Case Name or Docket No. | US Patent No. Appn. Ser No. |
|---|--------------------------------|
| 1. GIS No. 5170.00 | ABANDONED |
| 2. GIS No. 5170.01 | 08/164661 |
| 3. GIS No. 5620 | ABANDONED |
| 4. ATT109805/268380 Kamerman 1-1 | authorized |
| 5. ATT110402/270122 Boer 1-1-2-1-2 | authorized |
| 6. ATT110401/270125 Awater 1-2-1-1 | DROPPED |
| 7. GIS No. 5399 | 07/992956 |
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| 10. GIS No. 6330 ATT109662/268222 Greenstein 11-7-18 | 08/530687 |
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| 13. GIS No. 6185 ATT109658/268356 Bakker 1-1 | 08/498738 |
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| 24. Tuch | 5040175 |
| 25. Van Driest | 5128960 |
| 26. Kamerman | 5131006 |
| 27. Haagh | 5151920 |
| 28. Kamerman | 5164942 |
| 29. Tuch | 5220564 |
| 30. Busking | 5313218 |
| 31. Diepstraten | 5329531 |
| 32. Diepstraten | 5339316 |
| 33. Kamerman | 5369639 |
| 34. Moeland | 5371738 |

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| Case Name or Docket No. | US Patent No. Appl. Ser. No. |
|-----------------------------------|---|
| 35. Kleijne | 5379290 |
| 36. Tuch | 5390165 |
| 37. Diepstraten | 5410738 |
| 38. Erkocevic | 5420599 |
| 39. Diepstraten | 5422887 |
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RECORDED: 10/09/2002

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