| Index of Claims | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | Examiner | Art Unit |
| | M MOSTAZIR RAHMAN | 2411 |

| CLAIM | | DATE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Final | Original | 11/25/2015 | 10/16/2016 | 08/21/2017 | 08/03/2018 | 08/13/2019 | | | | |
| | 95 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 96 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 97 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 98 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 99 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 100 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 101 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 102 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 103 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 104 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 105 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 106 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 107 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 108 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 109 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 110 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 111 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 112 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 113 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 114 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 115 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 116 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 117 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 118 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 119 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 120 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 121 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 122 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 123 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 124 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 125 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 126 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 127 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 128 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 129 | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| | 130 | | ✓ | ✓ | ✓ | ✓ | | | | |
| | 131 | | ✓ | ✓ | ✓ | ✓ | | | | |
| | 132 | | ✓ | ✓ | ✓ | ✓ | | | | |
| | 133 | | ✓ | ✓ | ✓ | ✓ | | | | |
| | 134 | | ✓ | ✓ | ✓ | ✓ | | | | |
| | 135 | | | ✓ | ✓ | ✓ | | | | |
| | 136 | | | ✓ | ✓ | ✓ | | | | |
| | 137 | | | ✓ | ✓ | ✓ | | | | |
| | 138 | | | | ✓ | ✓ | | | | |
| | 139 | | | | ✓ | ✓ | | | | |
| | 140 | | | | ✓ | ✓ | | | | |
| | 141 | | | | ✓ | ✓ | | | | |

PTO/SB/08 Equivalent

| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No. | 14/035,806 |
|---|---|---|
| | Filing Date | September 24, 2013 |
| | First Named Inventor | Björsell, Johan Emil Viktor |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | Rahman, M. Mostazir |
| SHEET 1 OF 1 | Attorney Docket No. | DIGIF.004C1 |

| U.S. PATENT DOCUMENTS | | | | | |
|---|---|---|---|---|---|
| Examiner Initials | Cite No. | Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1 | Publication Date MM-DD-YYYY | Name | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|---|---|---|---|---|---|---|
| Examiner Initials | Cite No. | Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1 | Publication Date MM-DD-YYYY | Name | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear | T[1] |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---|---|---|---|
| Examiner Initials | Cite No. | *Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.* | T[1] |
| | 1 | **COMPLAINT FOR PATENT INFRINGEMENT**, UNITED STATES DISTRICT COURT, DISTRICT OF NEVADA, *CASE NO.: 2:16-cv-2338*, VOIP-PAL.COM, INC., a Nevada corporation, Plaintiff v. TWITTER, INC., a California corporation, Defendant, Filed 10/06/16, 8 pages. | |
| | 2 | **CIVIL DOCKET** FOR CASE #: 2:16-cv-02338-RFB-CWH, United States District Court, District of Nevada (Las Vegas), Voip-Pal.com, Inc. v. Twitter, Inc., Date Filed: 10-06-2016, 2 pages. | |
| | 3 | **TABLE OF EXHIBITS**, *Case 2:16-cv-02338-RFB-CWH, Filed 10/06/16*, 1 page. | |
| | 4 | **EXHIBIT A**, *Case 2:16-cv-02338-RFB-CWH, Filed 10/06/16*, U.S. Patent 8,542,815 B2, Issued September 24, 2013, to Clay Perrault et al., 60 pages. | |
| | 5 | **EXHIBIT B**, *Case 2:16-cv-02338-RFB-CWH, Filed 10/06/16*, U.S. Patent 9,179,005 B2, Issued November 3, 2015, to Clay Perrault et al., 63 pages. | |
| | 6 | **EXHIBIT C**, *Case 2:16-cv-02338-RFB-CWH, Filed 10/06/16*, Letter dated December 18, 2015 giving notice of U.S. Patents 8,542,815 B2; 9,179,005 B2; *and* related Patents listed in Attachment A, 4 pages. | |
| | 7 | **EXHIBIT D**, *Case 2:16-cv-02338-RFB-CWH, Filed 10/06/16*, ASSERTED CLAIMS AND INFRINGEMENT CONDITIONS, UNITED STATES DISTRICT COURT, DISTRICT OF NEVADA, VOIP-PAL.COM, INC., a Nevada corporation, Plaintiff v. TWITTER, INC., a California corporation, Defendants, 6 pages | |
| | 8 | **Chart 1 to Exhibit D**, *Case 2:16-cv-02338-RFB-CWH, Filed 10/06/16*, CHART 1, ASSERTED CLAIMS AND INFRINGEMENT CONDITIONS CONCERNING U.S. PATENT NO. 8,542,815, UNITED STATES DISTRICT COURT, DISTRICT OF NEVADA, VOIP-PAL.COM, INC., a Nevada corporation, Plaintiff v. TWITTER, INC., a California corporation, Defendants, 20 pages | |
| | 9 | **Chart 2 to Exhibit D**, *Case 2:16-cv-02338-RFB-CWH, Filed 10/06/16*, CHART 2, ASSERTED CLAIMS AND INFRINGEMENT CONDITIONS CONCERNING U.S. PATENT NO. 9,179,005, UNITED STATES DISTRICT COURT, DISTRICT OF NEVADA, VOIP-PAL.COM, INC., a Nevada corporation, Plaintiff v. TWITTER, INC., a California corporation, Defendants, 28 pages | |
| | 10 | **EXHIBIT E**, *Case 2:16-cv-02338-RFB-CWH, Filed 10/06/16*, VPLM ACTIVE U.S. PATENT MATTERS AS OF OCTOBER 1, 2016, 2 pages. | |
| | 11 | **EXHIBIT F**, *Case 2:16-cv-02338-RFB-CWH, Filed 10/06/16*, TWITTER ROYALTY MONETIZATION ANALYSIS OVERVIEW, 4 pages. | |

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| Examiner Signature | /M Mostazir Rahman/ | Date Considered | 06/10/2019 |
|---|---|---|---|

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

T[1] - Place a check mark in this area when an English language Translation is attached.

PTO/SB/08 Equivalent

| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No. | 14/035,806 |
|---|---|---|
| | Filing Date | September 24, 2013 |
| | First Named Inventor | Björsell, Johan Emil Viktor |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | Rahman, M. Mostazir |
| SHEET 1 OF 1 | Attorney Docket No. | DIGIF.004C1 |

| U.S. PATENT DOCUMENTS | | | | | |
|---|---|---|---|---|---|
| Examiner Initials | Cite No. | Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1 | Publication Date MM-DD-YYYY | Name | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|---|---|---|---|---|---|---|
| Examiner Initials | Cite No. | Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1 | Publication Date MM-DD-YYYY | Name | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear | T[1] |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---|---|---|---|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[1] |
| | 1 | PATENT OWNER'S PRELIMINARY RESPONSE, *Case No. IPR2016-01082, U.S. Patent 8,542,815*, UNIFIED PATENTS INC., Petitioner, v. VOIP-PAL.COM INC., Patent Owner, Filing Date: 08/26/2016, 80 pages. | |
| | 2 | Voip-Pal.com, Inc. EXHIBIT 2001, Comparison of portions of Petition with portions of Declaration, *IPR2016-01082, Unified Patents v. Voip-Pal*, Filing Date: 08/26/2016, 9 pages. | |
| | 3 | PATENT OWNER'S PRELIMINARY RESPONSE TO PETITION FOR *INTER PARTES* REVIEW, *Case No. IPR2016-01201, U.S. Patent 8,542,815*, APPLE INC., Petitioner, v. VOIP-PAL.COM INC., Patent Owner, Filing Date: 09/19/2016, 74 pages. | |
| | 4 | Voip-Pal.com, Inc. EXHIBIT 2001, Comparison of Petition (Ground 1) with Petition (Ground 2), *IPR2016-01201, Apple v. Voip-Pal*, Filing Date: 09/19/2016, 19 pages. | |
| | 5 | PATENT OWNER'S PRELIMINARY RESPONSE TO PETITION FOR *INTER PARTES* REVIEW, *Case No. IPR2016-01198, U.S. Patent 9,179,005*, APPLE INC., Petitioner, v. VOIP-PAL.COM INC., Patent Owner, Filing Date: 09/21/2016, 74 pages. | |
| | 6 | Voip-Pal.com, Inc. EXHIBIT 2001, Comparison of Petition (Ground 1) with Petition (Ground 2), *IPR2016-01198, Apple v. Voip-Pal*, Filing Date: 09/21/2016, 21 pages. | |

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| Examiner Signature | /M Mostazir Rahman/ | Date Considered | 06/10/2019 |
|---|---|---|---|

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

[1] - Place a check mark in this area when an English language Translation is attached.

**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 3 | (US-20080056235-$ or US-20070286170-$ or US-20070230423-$).did. | US-PGPUB | OR | ON | 2019/08/15 01:45 |
| L2 | 3 | L1 and (server$4 and (data voice video ) and (sms short$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:45 |
| L3 | 2 | L2 and (IP NEAR5 address) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:45 |
| L4 | 2 | L2 and (IP NEAR5 address) AND (router$4 gateway$4 switch$4 network near2 (equipment device element ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:46 |
| L5 | 48 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:47 |
| L6 | 34 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$ or US-20080261560-$ or US-20030087648-$).did. or (US-20060043164-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO- | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/08/15 01:47 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 2010012090-$).did. | | | | |
| L7 | 27 | (L5 L6) and (IP NEAR5 address) AND (router$4 gateway$4 switch$4 network near2 (equipment device element ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:47 |
| L8 | 27 | (L5 L6) and (IP NEAR5 address) AND (router$4 gateway$4 switch$4 network near2 (equipment device element ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:48 |
| L9 | 25 | (L5 L6) and (IP NEAR5 address) SAME2 (router$4 gateway$4 switch$4 network near2 (equipment device element ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:48 |
| L10 | 8 | (L5 L6) and ((second another different alternativ$4 third fourth "2nd" "3rd" ) WITH IP NEAR5 address) SAME2 (router$4 gateway$4 switch$4 network near2 (equipment device element ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:49 |
| L11 | 1 | "36462815".FMID. | US-PGPUB; USPAT; FPRS | OR | ON | 2019/08/15 01:55 |
| L12 | 24 | (L5 L6) and (IP NEAR5 address) SAME2 (router$4 gateway$4 switch$4 network near2 (equipment device element ) and (location$4 gps ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 02:01 |
| L13 | 24 | (L5 L6) and (IP NEAR5 address) SAME2 (router$4 gateway$4 switch$4 network near2 (equipment device element ) SAME3 (location$4 gps ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 02:01 |
| L14 | 24 | (L5 L6) and (IP NEAR5 address) SAME3 (router$4 gateway$4 switch$4 network near2 (equipment device element ) SAME3 (location$4 gps ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 02:01 |
| L15 | 20 | (L5 L6) and (IP NEAR5 address) SAME (router$4 gateway$4 switch$4 network near2 (equipment device element ) SAME (location$4 gps ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 02:02 |
| S1 | 2 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/25 16:48 |
| S2 | 34 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| | US-PGPUB; USPAT; | OR | ON | 2013/02/25 18:09 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S3 | 2 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:03 |
| S4 | 34 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:03 |
| S5 | 34 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:03 |
| S6 | 4 | ((JOHAN) near2 (BJORSELL)).INV. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:16 |
| S7 | 3 | ((MAKSYM) near2 (SOBOLYEV)).INV. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:16 |
| S8 | 2 | ((PENTTI) near2 (HUTTUNEN)).INV. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:17 |
| S10 | 5 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:21 |
| S11 | 5 | S6 or S7 or S8 or S10 | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:21 |
| S12 | 288340 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:29 |
| S13 | 1195 | ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 ) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:33 |
| S14 | 701 | S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 ) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:33 |
| S15 | 40 | S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:34 |
| S16 | 23 | S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5))) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:36 |
| S18 | 2 | us-20070112964-$.did. us- | US-PGPUB; | OR | ON | 2013/03/13 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 20040022237-$.did. | USPAT | | | 16:49 |
| S19 | 4 | us-20070112964-$.did. us-20040022237-$.did. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:49 |
| S20 | 245256 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:52 |
| S21 | 1 | S20 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:53 |
| S22 | 366030 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:54 |
| S24 | 354 | S22 and ((access adj code) same (channel ID identification) same request) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:55 |
| S25 | 8 | S22 and ((access adj code) same (channel with (ID identification)) same request) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:56 |
| S26 | 10 | S22 and ((access adj2 code) same caller same callee) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:59 |
| S27 | 58 | S22 and ((phone caller callee 'calling party') same server same router same (initiat$4 or setup or sett$4)same channel) | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:05 |
| S28 | 10 | S22 and ((phone caller callee "calling party" "called party" "called terminal" "calling party") same server same rout$5 same (call near5 (initiat$4 or setup)) same channel same request same (ID identif$7)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:19 |
| S29 | 257 | S22 and (caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:27 |
| S30 | 72 | S22 and (caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) same access$5 | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:28 |
| S31 | 11 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$).did. or (US-7068684-$ or US-6963635-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:13 |
| S32 | 9 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:13 |
| S33 | 3 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:16 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | party") same (call$3 near server) same (router gateway rout$3 adj control$5) and processor and interface and identification) | | | | |
| S34 | 7 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) ) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:18 |
| S35 | 7 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:21 |
| S36 | 2 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number and expir$5) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:22 |
| S37 | 2 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number and expir$5 and (access adj code)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:54 |
| S39 | 3 | "7079526".pn. us-20030114145-$.did. "6016319".pn. | US-PGPUB; USPAT | OR | ON | 2013/03/14 11:27 |
| S40 | 409041 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:17 |
| S43 | 21100 | S40 and (initiat$4 adj3 call) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:21 |
| S44 | 128 | S40 and ((initiat$4 adj2 call) same (access adj2 code)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:22 |
| S45 | 101 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:23 |

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| S46 | 38 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((voice data) adj2 network)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:23 |
| S47 | 33 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:25 |
| S48 | 11 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:26 |
| S49 | 35 | ("2006/0189337").URPN. | USPAT | OR | ON | 2013/03/15 11:34 |
| S50 | 5 | S46 not S47 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:46 |
| S51 | 63 | S45 not S46 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:47 |
| S52 | 409041 | ("370".clas. "709".clas. "455".clas.) and (@ad < "20080728" @rlad < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:52 |
| S53 | 0 | S52 and ((initiat$4 adj2 call) same (access adj2 code) same (data adj2 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:52 |
| S54 | 213 | S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:53 |
| S55 | 159 | S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5) and (wirless mobile handfree)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:54 |
| S56 | 22 | S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5) and (wirless mobile handfree) adj5 (IP or (internet adj2 | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/15 11:54 |

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| | | protocol))) | DERWENT; IBM_TDB | | | |
| S57 | 20 | S52 and ((initiat$4 with call) same (access adj5 code) and (data adj5 network$5) and (wirless mobile handfree) adj5 (IP or (internet adj2 protocol))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:55 |
| S58 | 17 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 12:01 |
| S62 | 17 | S58 and (server) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 12:02 |
| S63 | 11 | S58 and (server and client) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 12:03 |
| S64 | 181 | S52 and (channel same (ID indentifier indentification) same request same server same (router rout$5 gateway adj control$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:32 |
| S65 | 27 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway adj control$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:33 |
| S67 | 154 | S64 not S65 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:34 |
| S68 | 32 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:34 |
| S69 | 2 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) and (wireless adj2 ip adj4 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:35 |
| S72 | 2 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless adj2 ip | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/15 12:36 |

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| | | adj4 network$5)) | DERWENT; IBM_TDB | | | |
| S73 | 5 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless with (ip or (internet adj2 protocol)))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:46 |
| S74 | 12 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND ((wireless mobile) with (ip or (internet adj2 protocol)))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:48 |
| S76 | 7 | S74 not S73 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:49 |
| S77 | 432569 | ("370".clas. "709".clas. "455".clas. "725".clas.) and (@ad < "20080728" @rlad < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 13:10 |
| S79 | 2 | S77 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless adj5 IP)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 13:11 |
| S82 | 0 | S79 and (POOL) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:32 |
| S83 | 0 | S79 and (indenfi$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S84 | 2 | S79 and (identifi$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S85 | 2 | S79 and (identifi$5 and access) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S86 | 0 | S79 and (identifi$5 with access) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/15 15:33 |

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| | | | DERWENT; IBM_TDB | | | |
| S87 | 2 | S79 and (identifi$5 and access and number) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S88 | 2 | S79 and (identifi$5 and access and number and associat$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:34 |
| S89 | 2 | S79 and (identifi$5 and access and number and associat$5 and select$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:34 |
| S90 | 900 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:57 |
| S91 | 0 | S52 and (pool database) with (access adj code) with (phone adj number) with (associat$3 respective) same (wireless IP)\ | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:57 |
| S92 | 0 | S52 and (pool database) with (access adj code) with (phone adj number) with (associat$3 respective) and (wireless IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:58 |
| S93 | 820 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) and (wireless IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:58 |
| S94 | 181 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) same (wireless IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:58 |
| S95 | 8 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) same (wireless with IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:59 |
| S98 | 20 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:13 |

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| | | or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$).did. or (WO-2010012090-$).did. | | | | |
| S99 | 11 | S98 and (local with number) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:17 |
| S100 | 9 | S98 and (local near7 number) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:19 |
| S101 | 7 | S98 and (local near4 number) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:19 |
| S102 | 3 | (US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/15 16:49 |
| S103 | 3 | S102 AND (ip adj2 address) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:49 |
| S104 | 0 | S102 AND (ip adj2 address with mobile) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:50 |
| S105 | 2 | S102 AND (ip adj2 address with (receiv$5 reception)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:50 |
| S106 | 3 | S102 AND (ip adj2 address with server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:52 |
| S107 | 0 | S102 AND (ip adj2 address with server with receiv$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:53 |
| S108 | 1 | S102 AND (ip adj2 address with receiv$3 same server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:53 |
| S109 | 0 | S102 AND ((ip adj address) with caller) | US-PGPUB; USPAT; FPRS; | OR | ON | 2013/03/15 16:54 |

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| | | | EPO; JPO; DERWENT; IBM_TDB | | | |
| S110 | 2 | S102 AND ((ip adj address) with call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:54 |
| S111 | 1 | "12116756" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 14:43 |
| S112 | 3 | (US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/16 15:36 |
| S115 | 1 | S112 AND (identif$5 same wireless) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 15:37 |
| S116 | 3 | S112 AND (identif$5 and (mobile wireless)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:09 |
| S117 | 1 | S112 AND (identif$5 with (mobile wireless)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:09 |
| S118 | 2 | S112 AND (identif$5 same (mobile wireless)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:09 |
| S119 | 3 | S112 AND (identi$6 and (mobile wireless) and config$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:11 |
| S122 | 3 | S112 AND (identi$6 and (mobile wireless) and config$5 and user) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:11 |
| S123 | 3 | S112 AND (identi$6 and (mobile wireless) and config$5 and user and location) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:12 |

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| S124 | 2 | S112 AND (identi$6 same (mobile wireless) and config$5 and user and location) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:12 |
| S126 | 1 | S112 AND (identi$6 same (mobile wireless) and (config$5 same location) and user) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:13 |
| S127 | 1 | S112 AND (identi$6 same (mobile wireless) same location and (config$5 same user)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:17 |
| S128 | 2 | S112 AND (location same identi$6 same user) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:50 |
| S129 | 3 | S112 AND (local same number) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:08 |
| S130 | 2 | S112 AND (local near5 number) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:12 |
| S131 | 3 | S112 AND (IP adj2 network same rout$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:19 |
| S136 | 3 | S112 AND (call same channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:39 |
| S137 | 1 | S112 AND (call same channel same establ$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:39 |
| S141 | 1 | S112 AND (establ$5 same call same channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:41 |

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| S142 | 2 | S112 AND (call$5 same identif$6 same access) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 18:31 |
| S143 | 1 | S112 AND (call$5 same identif$6 same access same code) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 18:31 |
| S144 | 3 | (US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:29 |
| S145 | 3 | S144 and (telephone same number) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:30 |
| S146 | 2 | S144 and ((number or code) with match$4) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:31 |
| S147 | 3 | S144 and ((number or code or ID or identifier) with called) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:37 |
| S148 | 2 | S144 and ((number or code or ID or identifier) with channel) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:45 |
| S149 | 1 | S144 and ((number or code) same (ID or identifier) same channel) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:46 |
| S150 | 2 | S144 and ((number or code or ID or identifier) same channel same (called dialed)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:49 |
| S151 | 2 | S144 and (channel same (called dialed)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:51 |
| S152 | 3 | S144 and (TTL expir$5 timestap) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:56 |
| S153 | 3 | S144 and (TTL expir$5 timestamp) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:56 |
| S154 | 2 | S144 and (data non$1voice) with (reply respon$4) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:09 |
| S155 | 2 | S144 and (data non$1voice) same (code numer ID identifier) same (reply respon$4) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:10 |
| S156 | 3 | S144 and (data non$1voice) same (code numer ID identifier) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:12 |
| S157 | 3 | S144 and (data non$1voice) same (code numer ID identifier) same2 (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:14 |
| S158 | 3 | S144 and (data non$1voice) same (code number ID identifier) same2 (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:14 |
| S159 | 3 | S144 and (data non$1voice) same (code number ID identifier) same (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:17 |
| S160 | 1 | S144 and code with (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:19 |
| S161 | 3 | S144 and (number ID identifier) with (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:21 |
| S162 | 2 | S144 and (access adj code) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:23 |

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| S163 | 0 | S144 and (access adj code) same (reply reponse respond$3) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:23 |
| S164 | 1 | S144 and (access adj code) same2 (reply reponse respond$3) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:24 |
| S165 | 1 | S144 and code same query | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:26 |
| S166 | 0 | "L29" and (data with interface with access adj code with (reply response respond$3)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:26 |
| S167 | 366130 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:27 |
| S168 | 6 | S167 and (data with interface with access adj code with (reply response respond$3)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:27 |
| S169 | 1 | S167 and (access adj code) with expir$5 with (establish$4 ssetup) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:41 |
| S170 | 3 | S167 and (access adj code) with expir$5 with (establish$4 setup) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:41 |
| S171 | 8 | S167 and (access adj code) with expir$5 with call$3 | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:43 |
| S172 | 5 | (US-20040022237-$ or US-20080056235-$ or US-20020122391-$).did. or (US-6674745-$ or US-5454030-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/22 14:46 |
| S173 | 3 | S172 and (dial$3 with number) | US-PGPUB; USPAT | OR | ON | 2013/03/22 15:52 |
| S174 | 2 | S172 and (called with number with request) | US-PGPUB; USPAT | OR | ON | 2013/03/22 15:58 |
| S175 | 1 | S172 and (calling with number with request) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:00 |
| S176 | 1 | S172 and (calling with request) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:01 |
| S178 | 2 | S172 and (request with access) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:03 |
| S179 | 4 | S172 and (access near code) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:04 |
| S180 | 1 | S172 and (access with soft) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:06 |
| S181 | 1 | S172 and (access same soft same (caller calling)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:08 |
| S182 | 1 | S172 and (access same request$3 same (caller calling)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:09 |
| S185 | 1 | S172 and (reply with request$3) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:15 |
| S186 | 5 | S172 and (reply response) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:16 |
| S187 | 4 | S172 and ((reply response) with (code id identif$8)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:19 |
| S188 | 4 | S172 and ((calling caller) with (code id identif$8)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:21 |
| S189 | 3 | S172 and ((calling caller) with (reply$3 respon$5)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:23 |
| S190 | 1 | S172 and ((calling caller) same called same (initial$5 code access)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:24 |

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|---|---|---|---|---|---|---|
| S191 | 4 | S172 and ((reply response) with (code id identif$8) with (reply$3 respon$5)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:38 |
| S193 | 5 | (US-20040022237-$ or US-20080056235-$ or US-20020122391-$).did. or (US-6674745-$ or US-5454030-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:05 |
| S194 | 3 | S193 and (ip adj2 address) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:06 |
| S195 | 0 | S193 and (ip adj2 address with mobile) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:07 |
| S196 | 1 | S193 and (ip adj2 address same mobile) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:07 |
| S197 | 3 | S193 and (ip adj2 address) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:08 |
| S198 | 3 | S193 and (ip adj1 address) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:17 |
| S199 | 1 | S193 and (mobile same routed) | US-PGPUB; USPAT | OR | ON | 2013/03/23 13:17 |
| S200 | 2 | S193 and (mobile same rout$4) | US-PGPUB; USPAT | OR | ON | 2013/03/23 13:18 |
| S201 | 2 | US-20070112964-$.did. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/25 12:44 |
| S202 | 2 | "5519769".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/25 12:55 |
| S203 | 5 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2015/11/09 13:30 |
| S204 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2015/11/09 13:30 |
| S205 | 68 | ("20020116464" \| "20040255126" \| "20060072547" \| "20060093135" \| "20060153342" \| "20080056302" \| "20120099599" \| "20120227101" \| "5469497" \| "5608786" \| "5712907" \| "5838682" \| "5905736" \| "5930343" \| "5991291" \| "6005926" \| "20120170574" \| "20040203582" \| "20050287979" \| "20070047548" \| "20080167019" \| "20080167020" \| "20080187122" \| "20100177671" \| "20110201321" \| "6993015" \| "7400881" \| "7573982" \| "7738384" \| "8041022" \| "8189568" \| "8437340" \| "8462915" \| "8605714" \| "8750290" \| | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:04 |

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|---|---|---|---|---|---|---|
| | | "7587036" \| "20140349602" \| "8111690" \| "8713098" \| "20090213839" \| "20100083364" \| "20100115018" \| "20110208859" \| "20110276903" \| "20110276904" \| "20110292929" \| "20120089717" \| "20130329722" \| "20140016764" \| "8078164" \| "8396445" \| "8634838" \| "8903051" \| "8909556" \| "8938534" \| "20050222952" \| "6636833" \| "7447707" \| "7676431" \| "7765261" \| "8161078" \| "8627211" \| "20020122391" \| "20060160565" \| "20060177035" \| "20060209768" \| "20080037715" \| "5146491").pn. | | | | |
| S206 | 7 | ((Pentti) near2 (Huttunen)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:08 |
| S208 | 4 | ((Emil) near2 (Malak)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:08 |
| S209 | 19 | ((bjorsell) near2 (johan)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:09 |
| S210 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:09 |
| S211 | 9 | ((Maksym) near2 (Sobolyev)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:10 |
| S212 | 25 | S206 S208 S209 S210 S211 | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:10 |
| S213 | 267985 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:12 |
| S214 | 9728 | S213 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:12 |
| S215 | 1 | S212 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:12 |
| S216 | 3 | S212 and ((location$4 GPS ) AND (ID identificat$4 key flag$4 number digit)).clm. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:13 |
| S217 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2015/11/09 14:14 |
| S218 | 22 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/09 15:24 |
| S219 | 20 | (US-20070281705-$ or US- | US-PGPUB; | OR | OFF | 2015/11/09 |

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| | | 20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | USPAT; DERWENT | | | 16:15 |
| S220 | 22 | (US-20070281705-$ or US-20090252159-$ or US-20130028251-$ or US-20040042607-$ or US-20080049732-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/09 16:15 |
| S221 | 21 | S220 and (locat$4 GPS) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:15 |
| S222 | 17 | S220 and (locat$4 GPS) AND (ID identificat$4 key$4 flag$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S223 | 13 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S224 | 13 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) AND (mobile wireless cellular portable) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S225 | 10 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S226 | 10 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) AND (server$4 router$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; | OR | OFF | 2015/11/09 16:17 |

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| | | | IBM_TDB | | | |
| S227 | 9 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) SAME (server$4 router$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:17 |
| S228 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:28 |
| S230 | 4816 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2015/11/09 16:29 |
| S231 | 5819 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:31 |
| S233 | 5844 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:32 |
| S235 | 27 | S230 AND (plac$3 WITH VOIP same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:33 |
| S236 | 56 | (S230 S231 S233) AND (plac$3 WITH VOIP same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:19 |
| S237 | 48 | (S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular ) WITH VOIP same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:20 |
| S238 | 63 | (S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular ) SAME (voice adj2 over adj2 internet VOIP) same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:20 |
| S239 | 2 | (US-20040022237-$ or US-20080056235-$).did. | US-PGPUB | OR | OFF | 2015/11/09 17:34 |
| S240 | 28 | (S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular ) SAME (voice adj2 over adj2 internet VOIP) same call$3 AND (SMS short adj2 messag$4 adj2 serv$4)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; | OR | OFF | 2015/11/09 17:35 |

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| | | | IBM_TDB | | | |
| S241 | 4816 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2015/11/09 19:23 |
| S242 | 5819 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:23 |
| S243 | 5844 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:23 |
| S244 | 976 | (S241 S242 S243) AND (SMS short adj2 messag$4 adj2 servic$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:23 |
| S245 | 397 | (S241 S242 S243) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:24 |
| S246 | 259 | (S241 S242 S243) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:25 |
| S247 | 29 | (S241 S242 S243) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:26 |
| S248 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:35 |
| S249 | 1 | S248 and (receiv$$ SAME user SAME identifier SAME destination) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:36 |
| S250 | 1 | S248 and (receiv$$ SAME user SAME identifier) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:36 |
| S251 | 20 | (US-20070281705-$ or US- | US-PGPUB; | OR | OFF | 2015/11/29 |

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| | | 20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | USPAT; DERWENT | | | 22:07 |
| S252 | 252985 | ( (H04L29/06027 OR H04L29/06 OR H04L29/1216 OR H04L61/157 OR H04L65/1069 OR H04L12/4608 OR H04L12/66 OR H04L29/12122 OR H04L61/1547 OR H04L65/1026 OR H04L65/103 OR H04L65/1036 OR H04L65/104 OR H04L67/14 OR H04L69/329 OR H04L12/1813 OR H04L12/5695 OR H04L12/6418 OR H04L2012/5626 OR H04L2012/563 OR H04L2012/5645 OR H04L2012/5667 OR H04L2012/5668 OR H04L2012/6472 OR H04L29/12094 OR H04L29/12584 OR H04L29/12896 OR H04L29/12933 OR H04L47/724 OR H04L47/803 OR H04L47/805 OR H04L61/1529 OR H04L61/2015 OR H04L61/2596 OR H04L61/605 OR H04L61/6068 OR H04L63/061 OR H04L63/0823 OR H04L63/126 OR H04L63/164 OR H04L65/1003 OR H04L65/1006 OR H04L65/1009 OR H04L65/1013 OR H04L65/1043 OR H04L65/1046 OR H04L65/1083 OR H04L65/1096 OR H04L65/4007 OR H04L65/403 OR H04L65/604 OR H04L65/605 OR H04L67/02 OR H04L67/04 OR H04L67/24 OR H04L67/34 OR H04L67/40 OR H04L69/08 OR H04M15/00 OR H04M7/006 OR H04M7/009 OR H04M11/066 OR H04M15/06 OR H04M15/08 OR H04M15/41 OR H04M15/43 OR H04M15/48 OR H04M15/56 OR H04M15/63 OR H04M15/68 OR H04M15/745 OR H04M15/8292 OR H04M1/2473 OR H04M1/2535 OR H04M2203/2022 OR H04M2203/4536 OR H04M2207/12 OR H04M2207/18 OR H04M2207/20 OR H04M2215/0108 OR H04M2215/0156 OR H04M2215/0164 OR H04M2215/0168 OR H04M2215/0196 OR H04M2215/202 OR H04M2215/62 OR H04M2215/68 OR H04M2242/14 OR H04M3/20 OR H04M3/42 OR H04M3/42008 OR H04M3/42042 OR H04M3/42068 OR H04M3/4228 OR H04M3/42314 OR H04M3/42348 OR H04M3/42365 OR H04M3/523 OR H04M3/53325 OR H04M3/545 OR H04M3/567 OR H04M7/00 OR | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:25 |

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| | | H04M7/0021 OR H04M7/0057 OR H04M7/123 OR H04M7/1245 OR H04M7/125 OR H04M7/1255 OR H04M7/126 OR H04M7/128 OR H04M7/1285 OR H04Q3/0025 OR H04Q3/0045 OR H04Q11/0478 OR H04Q2213/13098 OR H04Q2213/1324 OR H04Q2213/13288 OR G06Q20/3674 OR H04H60/43 OR H04H60/51 OR H04H60/91 OR H04N21/2665 OR H04N21/4126 OR H04N21/42203 OR H04N21/6581 OR H04N21/6582 OR H04N7/17318 OR H04W28/16 OR H04W4/06 OR H04W4/10 OR H04W4/22 OR H04W60/04 OR H04W76/005 OR H04W76/007 OR H04W76/02 OR H04W76/021 OR H04W76/025 OR H04W80/00 OR H04W80/04 OR H04W84/005 OR H04W88/08 OR H04W8/02 OR H04W8/085 OR Y10S379/90).CPC. ) | | | | |
| S253 | 1 | "14035806" | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:26 |
| S254 | 6639 | ( (H04W76/021 OR H04W76/025 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:45 |
| S255 | 268033 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/29 23:32 |
| S256 | 4832 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2015/11/29 23:32 |
| S257 | 5881 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:32 |
| S258 | 5933 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:32 |
| S259 | 29 | (S256 S257 S258) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:32 |
| S260 | 265 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:33 |
| S261 | 95 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) SAME | US-PGPUB; USPAT; | OR | OFF | 2015/11/29 23:33 |

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|---|---|---|---|---|---|---|
| | | (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S262 | 25 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 adj2 servic$3) AND server SAME (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:33 |
| S263 | 4 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 adj2 servic$3) SAME server SAME (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:34 |
| S264 | 6575 | (reply with mobile) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:57 |
| S265 | 2208 | (reply with mobile same server) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:57 |
| S266 | 168 | (reply with mobile same server same sms) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:57 |
| S267 | 35 | (reply with mobile same server same sms same gateway) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:58 |
| S268 | 25 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 02:11 |
| S269 | 12 | S268 and SMS | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 02:11 |
| S270 | 12 | S268 and (SMS same server$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 02:12 |
| S271 | 1 | S268 and (SMS same server$3 same locat$4 NEAR5 (ID address identificat$4)) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | OFF | 2015/11/30 02:12 |

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| | | | DERWENT; IBM_TDB | | | |
| S272 | 25 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 09:34 |
| S273 | 12 | S272 and (SMS same server$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:34 |
| S274 | 5 | S272 and (SMS same server$3 SAME (location GPS )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:38 |
| S275 | 5 | "20080101370" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:42 |
| S276 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 09:47 |
| S277 | 6 | S276 and (SMS SAME server SAME (location GPS)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:47 |
| S278 | 8 | S276 and (SMS SAME server SAME3 (location GPS)) | US-PGPUB; USPAT; | OR | OFF | 2015/11/30 10:08 |

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| | | | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S279 | 17 | S276 and ((ID identification key flag address ) SAME (location GPS)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:00 |
| S280 | 15 | S276 and ((ID identification key flag address ) SAME (location GPS) SAME server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:01 |
| S281 | 11 | S276 and ((transmit$4 send$4) SAME (ID identification key flag address ) SAME (location GPS) SAME server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:03 |
| S282 | 3 | S276 and ((transmit$4 send$4) SAME (ID identification key flag address ) WITH (location GPS) WITH server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:11 |
| S283 | 2 | (US-20080160953-$ or US-20080056235-$).did. | US-PGPUB | OR | OFF | 2015/11/30 12:07 |
| S284 | 2 | S283 and (SMS SAME server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 12:07 |
| S285 | 2 | S283 and (location SAME channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 12:25 |
| S286 | 1 | "14035806" | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 12:59 |
| S287 | 0 | S283 and (poll) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:04 |
| S288 | 1 | S283 and (poll multiple) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:05 |
| S289 | 2 | S283 and (local and call) | US-PGPUB; USPAT; FPRS; | OR | OFF | 2015/11/30 14:07 |

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| | | | EPO; JPO; DERWENT; IBM_TDB | | | |
| S290 | 2 | S283 and (local SAME call) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:07 |
| S291 | 2 | S283 and (IP SAME address) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:09 |
| S292 | 0 | S283 and (time with out) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:20 |
| S293 | 0 | S283 and (expired) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:21 |
| S294 | 1 | S283 and (expired out) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:21 |
| S295 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/02 22:35 |
| S296 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/02 22:36 |
| S297 | 0 | S296 and (destinat$$ adj2 (ID key flag identificat$4 ) and (location adj2 ID) and channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/02 22:37 |
| S298 | 0 | S296 and (destinat$$ SAME (ID key flag identificat$4 ) SAME (location adj2 ID) and channel$4) | US-PGPUB; USPAT; FPRS; | OR | OFF | 2016/01/02 22:37 |

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| | | | EPO; JPO; DERWENT; IBM_TDB | | | |
| S299 | 1 | S296 and (destinat$$ SAME (ID key flag identificat$4 ) SAME channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/02 22:38 |
| S300 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/03 18:45 |
| S301 | 1 | S300 and (destinat$$ SAME (ID key flag identificat$4 ) SAME channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/03 18:45 |
| S302 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/06 12:00 |
| S303 | 2 | "13710282" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/06 17:24 |
| S304 | 1 | S303 and (similar SAME power$4 same sav$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/06 17:25 |
| S305 | 1 | S303 and (similar NEAR10 power$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/06 18:18 |
| S306 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/06 21:55 |
| S307 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US- | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/07 14:24 |

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| | | 20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S308 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/07 14:24 |
| S309 | 1 | "14035806" | US-PGPUB; USPAT | OR | OFF | 2016/01/07 15:02 |
| S310 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/07 15:03 |
| S311 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/07 15:03 |
| S312 | 1 | S310 and ( (channel$4 tunnel$4 frequenc$4) WITH (ID identificat$4 key flag) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:04 |
| S313 | 2 | S310 and ( (channel$4 tunnel$4 frequenc$4) SAME (ID identificat$4 key flag) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:04 |
| S314 | 1 | S310 and ( (channel$4 tunnel$4 frequenc$4) NEAR10 (ID identificat$4 key flag) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:35 |
| S315 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/07 15:35 |
| S316 | 1 | S315 and (destinat$$ SAME (ID key flag identificat$4 ) SAME channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:35 |
| S317 | 2 | S315 and (channel ) | US-PGPUB; | OR | OFF | 2016/01/07 |

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| | | | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 16:18 |
| S319 | 2 | S315 and (channel and location) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 18:15 |
| S320 | 5569 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2016/10/17 13:25 |
| S321 | 8486 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/10/17 13:25 |
| S322 | 8300 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/10/17 13:25 |
| S323 | 46 | (S320 S321 S322) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/10/17 13:25 |
| S324 | 8 | ((Pentti) near2 (Huttunen)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S325 | 4 | ((Emil) near2 (Malak)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S326 | 22 | ((bjorsell) near2 (johan)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S327 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:25 |
| S328 | 10 | ((Maksym) near2 (Sobolyev)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S329 | 29 | S324 S325 S326 S327 S328 | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S330 | 1 | S329 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:25 |
| S331 | 313876 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S332 | 28 | S331 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5))) | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S333 | 268664 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |

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| | | @rlad <"20080728") | | | | |
| S334 | 1 | S333 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S335 | 506306 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2016/10/17 13:26 |
| S336 | 12 | S335 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2016/10/17 13:26 |
| S337 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | ON | 2016/10/17 13:55 |
| S338 | 2 | S337 and (database list table log) WITH (locat$4 GPS) | US-PGPUB | OR | ON | 2016/10/17 14:12 |
| S339 | 2 | S337 and (database list table log) WITH (locat$4 GPS) AND (IP internet adj2 protocol) | US-PGPUB | OR | ON | 2016/10/17 14:19 |
| S340 | 0 | S337 and (database list table log) WITH (locat$4 GPS) WITH (IP internet adj2 protocol) | US-PGPUB | OR | ON | 2016/10/17 14:19 |
| S341 | 2 | S337 and (database list table log) WITH (locat$4 GPS) SAME (IP internet adj2 protocol) | US-PGPUB | OR | ON | 2016/10/17 14:19 |
| S342 | 2 | S337 and (database list table log) WITH (locat$4 GPS) SAME (IP internet adj2 protocol) and location | US-PGPUB | OR | ON | 2016/10/17 14:45 |
| S343 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | ON | 2016/11/15 14:32 |
| S344 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2016/11/15 15:00 |
| S345 | 6 | cn adj2 "102307082" | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | ON | 2016/11/15 15:52 |
| S346 | 1 | "14035806" | US-PGPUB; USPAT; | OR | ON | 2016/11/15 16:54 |

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| | | | FPRS; EPO; JPO | | | |
| S347 | 1 | (US-20080056235-$).did. | US-PGPUB | OR | ON | 2016/11/15 19:52 |
| S348 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | ON | 2016/11/15 19:53 |
| S349 | 2 | S348 AND (locat$5 GPS ) WITH ( ID key identification flag$4) | US-PGPUB | OR | ON | 2016/11/15 19:54 |
| S350 | 2 | S348 AND (locat$5 GPS ) WITH ( ID key identification flag$4) AND ( ID key identification flag$4) | US-PGPUB | OR | ON | 2016/11/15 19:55 |
| S351 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | ON | 2016/11/15 20:58 |
| S352 | 2 | S351 AND (locat$5 GPS ) WITH ( ID key identification flag$4) AND ( ID key identification flag$4) | US-PGPUB | OR | ON | 2016/11/15 20:58 |
| S353 | 432 | ( (Access NEAR5 server ) AND ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB | OR | ON | 2016/11/15 21:57 |
| S354 | 752 | ( (Access NEAR5 server ) AND ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 21:58 |
| S355 | 402 | ( (Access NEAR5 server ) AND ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 21:58 |
| S356 | 11 | ( (Access NEAR5 server ) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 21:58 |
| S357 | 97 | (( request$4 NEAR5 (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 22:00 |
| S358 | 19 | (( request$4 NEAR5 (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) SAME (server) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 22:01 |
| S359 | 43 | (( request$4 SAME (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) SAME (server) SAME (channel$4 path$4 rout$4) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 22:42 |
| S360 | 29 | ((JOHAN) near2 (BJORSELL)).INV. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S361 | 14 | ((MAKSYM) near2 (SOBOLYEV)).INV. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S362 | 8 | ((PENTTI) near2 (HUTTUNEN)).INV. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S363 | 21 | (digifonica).as. | US-PGPUB; | OR | ON | 2017/08/21 |

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| | | | USPAT | | | 11:58 |
| S364 | 34 | S360 or S361 or S362 or S363 | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S365 | 313893 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S366 | 27 | S365 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5))) | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S367 | 268678 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S368 | 1 | S367 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S369 | 45 | (( request$4 SAME (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) SAME (server) SAME (channel$4 path$4 rout$4) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 11:59 |
| S370 | 400075 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S371 | 8 | S370 and ((access adj code) same (channel with (ID identification)) same request) | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S372 | 8 | ((Pentti) near2 (Huttunen)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S373 | 4 | ((Emil) near2 (Malak)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S374 | 29 | ((bjorsell) near2 (johan)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S375 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S376 | 14 | ((Maksym) near2 (Sobolyev)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S377 | 36 | S372 S373 S374 S375 S376 | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S378 | 1 | S377 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S379 | 528836 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/08/21 12:00 |
| S380 | 12 | S379 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/08/21 12:00 |
| S381 | 11 | ( (Access NEAR5 server ) SAME ( | US-PGPUB; | OR | ON | 2017/08/21 |

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| | | location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | USPAT; FPRS; EPO; JPO; IBM_TDB | | | 12:00 |
| S382 | 13 | ("20020150080" \| "20060195584" \| "20070121590" \| "20070121602" \| "20170104868" \| "20170111265" \| "20170126752" \| "20170142256" \| "576852106" \| "6947531" \| "7477843" \| "9537762" \| "9549071" \| "9565307").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S383 | 4 | ("20030043974" \| "20050069097" \| "6434143" \| "7774711").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S384 | 1 | ("7174156").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S385 | 24 | ("20020057764" \| "20050007999" \| "20060109960" \| "20060233317" \| "20070036139" \| "20070064919" \| "20090238168" \| "20100002701" \| "20150327320" \| "20150358470" \| "20160006882" \| "20160028619" \| "4747124" \| "5742596" \| "5991378" \| "6603977" \| "6961334" \| "7042985" \| "7218722" \| "7366157" \| "7486684" \| "8036366" \| "8594298" \| "9179005").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S386 | 24 | ("20020057764" \| "20050007999" \| "20060109960" \| "20060233317" \| "20070036139" \| "20070064919" \| "20090238168" \| "20100002701" \| "20150327320" \| "20150358470" \| "20160006882" \| "20160028619" \| "4747124" \| "5742596" \| "5991378" \| "6603977" \| "6961334" \| "7042985" \| "7218722" \| "7366157" \| "7486684" \| "8036366" \| "8594298" \| "9179005").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:08 |
| S387 | 43 | ("20050131813" \| "20050171898" \| "20050192897" \| "20050192901" \| "20050222952" \| "20050267842" \| "20060006224" \| "20060036522" \| "20060095320" \| "20060116892" \| "20060195398" \| "20070016524" \| "20140141884" \| "5677955" \| "5883810" \| "6173272" \| "6243689" \| "6636833" \| "6772188" \| "6892184" \| "7051072" \| "7330835" \| "7426492" \| "7437665" \| "7447707" \| "7580886" \| "7593884" \| "7599944" \| "7644037" \| "7647500" \| "7676431" \| "7680737" \| "7734544" \| "7765261" \| "7765266" \| "7882011" \| "7899742" \| "8060887" \| "8161078" \| "8200575" \| "8543477" \| "8627211" \| "8702505").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:08 |
| S388 | 71 | ("20070053382" \| "20090213839" \| "20100083364" \| "20100114896" \| "20100115018" \| "20100142382" \| "20100220852" \| "20100233991" \| "20100278534" \| "20100316195" \| "20110072095" \| "20110167164" \| "20110208859" \| "20110235543" \| "20110273526" \| "20110276903" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |

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|---|---|---|---|---|---|---|
| | | "20110276904" \| "20110292929" \| "20120089717" \| "20120096145" \| "20120155333" \| "20120195236" \| "20120259975" \| "20120270554" \| "20130039226" \| "20130097308" \| "20130128879" \| "20130148549" \| "20130173534" \| "20130229950" \| "20130287006" \| "20130310002" \| "20130318166" \| "20130329722" \| "20130329864" \| "20140010119" \| "20140016764" \| "20140153477" \| "20140215642" \| "20140307858" \| "20140321333" \| "6327351" \| "7203478" \| "7958233" \| "8078164" \| "8127005" \| "8166547" \| "8190739" \| "8223927" \| "8300632" \| "8315521" \| "8396445" \| "8526306" \| "8599747" \| "8599837" \| "8634838" \| "8774378" \| "8819566" \| "8848887" \| "8862701" \| "8885609" \| "8903051" \| "8903360" \| "8909556" \| "8938209" \| "8938534" \| "8948061" \| "8972612" \| "8982719" \| "8995428" \| "9003306").PN. | | | | |
| S389 | 6 | ("20070217354" \| "5917899" \| "6005870" \| "6597783" \| "6873599" \| "7010727").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |
| S390 | 54 | ("0000029" \| "0000030" \| "0000031" \| "0000032" \| "0000033" \| "0000034" \| "0000035" \| "0000036" \| "0000037" \| "0000038" \| "0000039" \| "0000040" \| "0000041" \| "20010027478" \| "20110255553" \| "20110261717" \| "20130223276" \| "20130237198" \| "20130254301" \| "20130272297" \| "20130281147" \| "20140220944" \| "20140227962" \| "20140244393" \| "20140247730" \| "20140269624" \| "20140324969" \| "20140337961" \| "20140349602" \| "6937713" \| "8111690" \| "8219115" \| "8228837" \| "8243730" \| "8275404" \| "8364172" \| "8410907" \| "8417791" \| "8423791" \| "8468196" \| "8493931" \| "8532075" \| "8682919" \| "8713098" \| "8749610" \| "8767717" \| "8774721" \| "8780703" \| "8792374" \| "8792905" \| "8805345" \| "8810392" \| "8837360" \| "8838539").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |
| S391 | 7 | ("6445694" \| "6574328" \| "6785266" \| "7486664" \| "7512117" \| "7587036" \| "7764777").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |
| S392 | 141 | ("20010052081" \| "20020002041" \| "20020018445" \| "20020141352" \| "20030012196" \| "20030095539" \| "20030179747" \| "20030219103" \| "20040034793" \| "20040203565" \| "20040203582" \| "20050063519" \| "20050188081" \| "20050190892" \| "20050202799" \| "20050287979" \| "20060007940" \| "20060013266" \| "20060030290" \| "20060078094" \| "20060142011" \| "20060146797" \| "20060189303" \| "20060205383" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:10 |

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|---|---|---|---|---|---|---|
| | | "20060248186" \| "20060251056" \| "20060268921" \| "20060281437" \| "20070047548" \| "20070092070" \| "20070115935" \| "20070121593" \| "20070174469" \| "20070220038" \| "20070253429" \| "20070263609" \| "20070297376" \| "20080013523" \| "20080056243" \| "20080166999" \| "20080167019" \| "20080167020" \| "20080167039" \| "20080187122" \| "20080188198" \| "20080188227" \| "20080205378" \| "20080310599" \| "20090003535" \| "20090129566" \| "20090135724" \| "20090214000" \| "20090268615" \| "20090296900" \| "20100008345" \| "20100039946" \| "20100105379" \| "20100177671" \| "20100246589" \| "20100272242" \| "20110013541" \| "20110153809" \| "20110176541" \| "20110201321" \| "20110267986" \| "20120014383" \| "20120113981" \| "20120195415" \| "20120250624" \| "20120282881" \| "20120314699" \| "20130272297" \| "20140101749" \| "20140211789" \| "5325421" \| "6553025" \| "6560224" \| "6650641" \| "6775534" \| "6934279" \| "6963739" \| "6985440" \| "6993015" \| "7006508" \| "7027564" \| "7068668" \| "7151772" \| "7177399" \| "7277528" \| "7400881" \| "7436835" \| "7440442" \| "7486667" \| "7567131" \| "7573982" \| "7593390" \| "7639792" \| "7657011" \| "7664495" \| "7676215" \| "7680114" \| "7702308" \| "7715821" \| "7738384" \| "7764944" \| "7797459" \| "7894441" \| "7907551" \| "7929955" \| "7944909" \| "7965645" \| "7979529" \| "7995589" \| "8024785" \| "8027333" \| "8041022" \| "8050273" \| "8125982" \| "8145182" \| "8166533" \| "8189568" \| "8204044" \| "8228897" \| "8244204" \| "8306063" \| "8363647" \| "8427981" \| "8437340" \| "8462915" \| "8509225" \| "8605714" \| "8605869" \| "8607323" \| "8611354" \| "8625578" \| "8724643" \| "8750290" \| "8763081" \| "8768951" \| "8774171" \| "8804705").PN. | | | | |
| S393 | 14 | ("20050198499" \| "20100150138" \| "20100150328" \| "20100172345" \| "20110122827" \| "20120170574" \| "5719926" \| "5722067" \| "5915093" \| "6029062" \| "6249573" \| "7454200" \| "8630234" \| "8675566").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:10 |
| S394 | 137 | ("20020051518" \| "20020116464" \| "20020122391" \| "20030200311" \| "20030219103" \| "20040022237" \| "20040157629" \| "20040165709" \| "20040181599" \| "20040202295" \| "20040240439" \| "20040255126" \| "20050025043" \| "20050083911" \| "20050094651" \| "20050169248" \| "20050174937" \| "20050177843" \| "20060072547" \| "20060072550" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:11 |

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|---|---|---|---|---|---|---|
| | | "20060093135" \| "20060111116" \| "20060153342" \| "20060160565" \| "20060177035" \| "20060209768" \| "20060258328" \| "20060264200" \| "20070036143" \| "20070112964" \| "20070127676" \| "20070253418" \| "20080037715" \| "20080056235" \| "20080056302" \| "20080063153" \| "20090028146" \| "20090135735" \| "20090141883" \| "20090292539" \| "20090325558" \| "20100086119" \| "20100128729" \| "20120099599" \| "20120227101" \| "20130114589" \| "4916491" \| "4992971" \| "5146491" \| "5247571" \| "5303297" \| "5359642" \| "5425085" \| "5440621" \| "5454030" \| "5469497" \| "5506893" \| "5519769" \| "5559871" \| "5590133" \| "5608786" \| "5621787" \| "5633913" \| "5661790" \| "5712907" \| "5724355" \| "5726984" \| "5737414" \| "5751961" \| "5793762" \| "5799072" \| "5802502" \| "5825863" \| "5828740" \| "5838682" \| "5845267" \| "5850433" \| "5864610" \| "5867495" \| "5883891" \| "5889774" \| "5905736" \| "5907547" \| "5910946" \| "5915005" \| "5923659" \| "5930343" \| "5937045" \| "5940598" \| "5953504" \| "5956391" \| "5970477" \| "5974043" \| "5991291" \| "6005926" \| "6014379" \| "6021126" \| "6052445" \| "6058300" \| "6069890" \| "6073013" \| "6078647" \| "6104704" \| "6104711" \| "6115737" \| "6128304" \| "6137869" \| "6141404" \| "6151385" \| "6188752" \| "6282574" \| "6298062" \| "6351464" \| "6359880" \| "6430275" \| "6507644" \| "6597686" \| "6674745" \| "6724860" \| "6744858" \| "6766159" \| "6798767" \| "6819929" \| "6954453" \| "6963557" \| "7046658" \| "7055174" \| "7068772" \| "7079526" \| "7120682" \| "7212522" \| "7454510" \| "7950046" \| "8116307" \| "8422507" \| "8537805" \| "8542815").PN. | | | | |
| S395 | 513 | S382 S383 S384 S385 S386 S387 S388 S389 S390 S391 S392 S393 S394 | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:11 |
| S396 | 21 | S395 AND ((receiv$3 or accept$3 or obtain$3 or recover$3 or retriev$3 or acquir$3 or acquisition) SAME (respons$3 or respond$3 or react$3 or feed$3back$3 or (feed$3 adj3 back) or behaviour or behavior reply$3 return$3 acknowledgment$1 answer$1) SAME (server$4 webserver$4 gate$1way system$4 proxy$4 computer) SAME (location$4 GPS position$4 origin$4 region$4 site coordinat$4 ) NEAR5 (ID identification key flag$4 tagg$4 badge$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 13:45 |
| S397 | 12 | S395 AND ((receiv$3 or accept$3 or obtain$3 or recover$3 or retriev$3 or acquir$3 or acquisition) SAME | US-PGPUB; USPAT; FPRS; | OR | ON | 2017/08/21 13:45 |

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|---|---|---|---|---|---|---|
| | | (respons$3 or respond$3 or react$3 or feed$3back$3 or (feed$3 adj3 back) or behaviour or behavior reply$3 return$3 acknowledgment$1 answer$1) SAME (server$4 webserver$4 gate$1way system$4 proxy$4 computer) SAME (location$4 GPS position$4 origin$4 region$4 site coordinat$4 ) NEAR5 (ID identification key flag$4 tagg$4 badge$4 ) ) AND (@AD <"20080728") | EPO; JPO; IBM_TDB | | | |
| S398 | 2 | (US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/08/21 14:47 |
| S399 | 2 | S398 and (wifi wi$1fi wireless cellular ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/08/21 14:47 |
| S401 | 11 | "9179005" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/11/29 23:45 |
| S402 | 2 | (US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 01:18 |
| S403 | 3 | (US-20080056235-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 01:19 |
| S404 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/11/30 01:40 |
| S405 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/11/30 13:29 |
| S406 | 3 | (US-20080056235-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 14:49 |
| S407 | 1 | S406 and (connect$4 join$4 link$4 fasten$4 connector$4 hitch$4 ) AND (IP internet$4 adj2 protocol$4) NEAR5 address$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/11/30 14:58 |
| S408 | 1 | S406 and (connect$4 join$4 link$4 fasten$4 connector$4 hitch$4 ) AND (IP internet$4 adj2 protocol$4) WITH address$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/11/30 14:59 |
| S409 | 3 | (US-20080056235-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 16:04 |
| S410 | 3 | S409 and (connect$4 join$4 link$4 fasten$4 connector$4 hitch$4 ) WITH | US-PGPUB; USPAT; | OR | ON | 2017/11/30 16:04 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | (mobile user adj2 equipment UE mobile adj2 device ) | FPRS; EPO; JPO; IBM_TDB | | | |
| S411 | 1 | (US-20080056235-$).did. | US-PGPUB | OR | ON | 2018/01/16 14:53 |
| S412 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/01/16 14:53 |
| S413 | 0 | S411 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 ) WITH (IP NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 14:54 |
| S414 | 0 | S411 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 return$4 answer$4 ) WITH ( (internet IP) NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 14:56 |
| S415 | 1 | S411 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 return$4 answer$4 ) SAME ( (internet IP) NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 14:56 |
| S416 | 11 | S412 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 return$4 answer$4 ) SAME ( (internet IP) NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:33 |
| S417 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:40 |
| S418 | 29261 | ( (H04W76/021 OR H04W76/025 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:52 |
| S419 | 56 | S418 AND (IP NEAR5 address) WITH | US-PGPUB; | OR | ON | 2018/01/16 |

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|---|---|---|---|---|---|---|
| | | (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 15:55 |
| S420 | 9 | S418 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND (@AD <"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:56 |
| S421 | 15 | S418 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND ( (@ad OR @pd OR @rlad OR @ prad OR @ptad ) <"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:56 |
| S422 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/01/24 19:29 |
| S423 | 0 | S422 and (replay$4 echo adj2 back$4 ) WITH(ip near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:30 |
| S424 | 0 | S422 and (replay$4 echo adj2 back$4 ) WITH (ip near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:30 |
| S425 | 14 | S422 and (ip near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:30 |
| S426 | 5 | S422 and (ip near5 address$4 ) and (SMS) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:39 |
| S427 | 5 | "13056277" | US-PGPUB; | OR | ON | 2018/01/25 |

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|---|---|---|---|---|---|---|
| | | | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 13:28 |
| S428 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:33 |
| S429 | 268665 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad < "20080728" @rlad < "20080728") | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:34 |
| S430 | 1 | S429 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:34 |
| S431 | 28075 | ( (H04W76/11 OR H04W76/15 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:34 |
| S432 | 541465 | ("370".clas. "709".clas. "455".clas.) and (@ad < "20080728" @rlad < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:34 |
| S433 | 12 | S432 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:34 |
| S434 | 400071 | ("370".clas. "709".clas. "455".clas.) and (@ad < "20080728" @rlad < "20080728") | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:34 |
| S435 | 8 | S434 and ((access adj code) same (channel with (ID identification)) same request) | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:34 |
| S436 | 16903 | ( (H04W76/021 OR H04W76/025 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:35 |
| S437 | 13 | S436 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND ( (@ad OR @pd OR @rlad OR @ prad OR @ptad ) < "20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:35 |
| S438 | 7 | S436 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND (@AD < "20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:35 |
| S439 | 13 | S436 AND (IP NEAR5 address) WITH | US-PGPUB; | OR | ON | 2018/06/27 |

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|---|---|---|---|---|---|---|
| | | (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND ( (@ad OR @pd OR @rlad OR @ prad OR @ptad ) < "20090728") | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 22:35 |
| S440 | 6917 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2018/06/27 22:36 |
| S441 | 4410 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 22:36 |
| S442 | 4889 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 22:36 |
| S443 | 44 | (S440 S441 S442) AND (plac$3 SAME (wireless mobile cellular ) SAME (voice adj2 over adj2 internet VOIP) same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 22:36 |
| S444 | 0 | ((("BjÃ¶rsell") near3 ("Johan") near3 ("Emil") near3 ("Viktor"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2018/06/27 22:36 |
| S445 | 15 | ((("Sobolyev") near3 ("Maksym"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2018/06/27 22:37 |
| S446 | 8 | ((("Huttunen") near3 ("Pentti") near3 ("Kalevi"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2018/06/27 22:37 |
| S447 | 4 | ((("Malak") near3 ("Emil"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2018/06/27 22:37 |
| S448 | 8 | ((("VOIP-PAL.COM") near3 ("INC"))).AS,AANM. | USPAT | OR | OFF | 2018/06/27 22:37 |
| S449 | 14 | (("VOIP-PAL.COM") ).AS,AANM. | US-PGPUB; USPAT | OR | OFF | 2018/06/27 22:38 |
| S450 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:38 |
| S451 | 0 | (S444 S445 S446 S447 S448 S449 S450) AND (IP NEAR2 addess$4 AND access ADJ2 code$3 AND (ID identification key location geographical) AND gateway ).clm. | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:41 |
| S452 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US- | US-PGPUB; USPAT; DERWENT | OR | OFF | 2018/06/27 23:10 |

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| | | 20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S453 | 13 | S452 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 23:11 |
| S454 | 6 | S452 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 23:11 |
| S455 | 2 | S452 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) AND (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 23:12 |
| S456 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:12 |
| S457 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/08/07 22:33 |
| S458 | 7 | S457 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:37 |
| S459 | 6 | S457 and ((location$4 gps station$4 office$4 site$4 place places position | US-PGPUB; USPAT; | OR | ON | 2018/08/07 22:38 |

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|---|---|---|---|---|---|---|
| | | latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) ) AND (@AD <"20080728") | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S460 | 6 | S457 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) SAME (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:40 |
| S461 | 4 | (US-20080056235-$ or US-20080160953-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2018/08/07 22:42 |
| S462 | 0 | S461 and ((desination$4 WITH connect$4 with channel$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:43 |
| S463 | 0 | S461 and ((desination$4 SAME connect$4 SAME channel$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:44 |
| S464 | 0 | S461 and ((desination$4 AND connect$4 SAME channel$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:44 |
| S465 | 1 | S461 and ((destination$4 AND connect$4 SAME channel$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:44 |
| S466 | 23710 | ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) SAME (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2018/08/07 22:55 |
| S467 | 33 | ( (request$4 packet$4 frame$4 data adj3 unit demand$4 query$4 seek$4 ) WITH (location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) WITH | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2018/08/07 22:57 |

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|---|---|---|---|---|---|---|
| | | (server$4 proxy$4 gateway$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) WITH reply$4 ) AND (@AD <"20080728") | | | | |
| S468 | 31 | ( (request$4 packet$4 frame$4 data adj3 unit demand$4 query$4 seek$4 ) WITH (location$4 gps station$4 office$4 site$4 position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) WITH (server$4 proxy$4 gateway$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) WITH reply$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2018/08/07 23:09 |
| S469 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/08/08 11:58 |
| S470 | 6 | S469 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) SAME (server$4 proxy$4 gateway$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/08 11:58 |
| S471 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US- | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/08/09 10:45 |

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| | | 7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S472 | 6 | S471 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) SAME (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) ) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/09 10:45 |
| S473 | 1 | (US-20030114145-$).did. | US-PGPUB | OR | ON | 2018/08/09 10:47 |
| S478 | 1 | S473 and (gps location$4 geograph$4) and server$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/09 10:49 |
| S479 | 0 | S473 and (gps location$4 geograph$4) and server$4 and reply$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/09 10:49 |
| S480 | 1 | S473 and (gps location$4 geograph$4) and server$4 and (reply$4 request$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/09 10:49 |
| S481 | 2 | (US-20080056235-$ or US-20030114145-$).did. | US-PGPUB | OR | ON | 2018/08/13 15:27 |
| S482 | 1 | S481 and (reply$4 echo$4 feedback$4 ack acknowledg$4 ) SAME (location$4 gps geograph$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:32 |
| S483 | 1 | S481 and (reply$4 echo$4 feedback$4 ack acknowledg$4 ) AND (location$4 gps geograph$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:32 |
| S484 | 1 | S481 and (reply$4 echo$4 feedback$4 ack acknowledg$4 ) AND (location$4 gps geograph$6) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:33 |
| S486 | 1 | S481 AND (reply$4 echo$4 feedback$4 ack acknowledg$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; | OR | ON | 2018/08/13 15:35 |

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| S487 | 2 | S481 AND (reply$4 echo$4 feedback$4 ack acknowledg$4 messag$4 packet$4 data adj2 unit$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:35 |
| S488 | 2 | (US-20080056235-$ or US-20030114145-$).did. | US-PGPUB | OR | ON | 2018/12/18 12:05 |
| S492 | 1 | 14/035806.app. | US-PGPUB | OR | ON | 2018/12/18 12:22 |
| S493 | 1 | S488 and (wireless$4 and VOIP ) | US-PGPUB | OR | ON | 2018/12/18 12:23 |
| S494 | 2 | S488 and (wireless$4 and location$4 ) | US-PGPUB | OR | ON | 2018/12/18 12:23 |
| S495 | 2 | S488 and (wireless$4 and (location$4 gps) ) | US-PGPUB | OR | ON | 2018/12/18 12:23 |
| S496 | 2 | S488 and (wireless$4 and (location$4 gps) and (id identification key flag) ) | US-PGPUB | OR | ON | 2018/12/18 12:23 |
| S498 | 9 | "41610774".FMID. | US-PGPUB; USPAT; FPRS | OR | ON | 2019/06/10 02:55 |
| S499 | 0 | ((("BjÃ¶rsell") near3 ("Johan") near3 ("Emil") near3 ("Viktor"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2019/06/10 03:00 |
| S500 | 16 | ((("Sobolyev") near3 ("Maksym"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2019/06/10 03:00 |
| S501 | 10 | ((("Huttunen") near3 ("Pentti") near3 ("Kalevi"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2019/06/10 03:00 |
| S502 | 4 | ((("Malak") near3 ("Emil"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2019/06/10 03:00 |
| S503 | 11 | ((("VOIP-PAL.COM") near3 ("INC"))).AS,AANM. | USPAT | OR | OFF | 2019/06/10 03:00 |
| S504 | 19 | (("VOIP-PAL.COM") ).AS,AANM. | US-PGPUB; USPAT | OR | OFF | 2019/06/10 03:00 |
| S505 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2019/06/10 03:00 |
| S506 | 0 | (S499 S500 S501 S502 S503 S504 S505) AND (IP NEAR2 addess$4 AND access ADJ2 code$3 AND (ID identification key location geographical) AND gateway ).clm. | US-PGPUB; USPAT | OR | ON | 2019/06/10 03:00 |
| S507 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US- | US-PGPUB; USPAT; DERWENT | OR | OFF | 2019/06/10 03:00 |

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| | | 20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S508 | 2 | S507 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) AND (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/06/10 03:00 |
| S509 | 39324 | ( (H04W76/11 OR H04W76/15 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 03:00 |
| S510 | 555 | S509 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) AND (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/06/10 03:00 |
| S511 | 0 | S510 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) SAME (access$4 NEAR5 code$4 ) SAME (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/06/10 03:01 |
| S512 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 13:48 |
| S513 | 31 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/06/10 14:00 |
| S515 | 39298 | ( (H04W76/11 OR H04W76/15 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; | OR | ON | 2019/06/10 14:00 |

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| | | | IBM_TDB | | | |
| S517 | 25768 | (access$4 ) NEAR5 (request$4 demand$4 inquiry$4 appeal$4 ) WITH (server$4 gateway$4 router$4) SAME (WD UE TE TA mobile terminal WTRU ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:04 |
| S518 | 13 | ( (wireless adj2 (device equipment terminal phone iphone ) ) NEAR10 (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) SAME (access$4 NEAR5 code$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:05 |
| S519 | 1 | S513 AND (access$4 ) NEAR5 (request$4 demand$4 inquiry$4 appeal$4 ) WITH (server$4 gateway$4 router$4) SAME (WD UE TE TA mobile terminal WTRU ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:05 |
| S520 | 25768 | (access$4 ) NEAR5 (request$4 demand$4 inquiry$4 appeal$4 ) WITH (server$4 gateway$4 router$4) SAME (WD UE TE TA mobile terminal WTRU ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:06 |
| S521 | 174 | ( (wireless adj2 (device equipment terminal phone iphone ) ) SAME (location$4 geographical$4 ) SAME (ID key$4 identificat$4 ) SAME (access$4 NEAR5 code$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:06 |
| S522 | 7 | S517 and S521 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 14:08 |
| S523 | 4 | S522 AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 14:10 |
| S524 | 8115 | ( (user UE terminal WTRU TE TA user adj2 equipment station ) NEAR5 (location$4 gps site$4 position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) SAME (server$3 proxy$3 gateway$1 webserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/07/29 22:04 |
| S525 | 15234 | ( (user UE terminal WTRU TE TA user adj2 equipment station ) NEAR5 (location$4 gps site$4 position latitude$4 coordinat$4) SAME (destination$4 deliver$4 receiver$4 ) SAME (server$3 proxy$3 gateway$1 webserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/07/29 22:05 |
| S526 | 32 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/07/29 22:05 |

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| | | or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$ or US-20080261560-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S527 | 2 | (US-20080056235-$ or US-20080261560-$).did. | US-PGPUB | OR | ON | 2019/07/29 22:06 |
| S528 | 2 | S527 and (location$4 GPS) and (user wtru terminal station ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/07/29 22:07 |
| S529 | 2 | "20130109314".PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/07/30 12:51 |
| S530 | 34 | (US-20070281705-$ or US-20090252159-$ or US-20130028251-$ or US-20040042607-$ or US-20080049732-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$).did. or (US-20080261560-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/08/13 16:07 |
| S531 | 2 | (US-20080261560-$ or US-20080056235-$).did. | US-PGPUB | OR | ON | 2019/08/13 17:22 |
| S532 | 6 | (US-20080261560-$ or US-20080056235-$ or US-20080160953-$ or US-20030114145-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2019/08/13 17:22 |
| S533 | 18 | S530 and (access$4 NEAR2 server ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; | OR | ON | 2019/08/13 17:23 |

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| | | | IBM_TDB | | | |
| S534 | 11 | S530 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) NEAR5 (location$4 gps address facility site$1 place$1 office$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:24 |
| S535 | 1 | S531 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) NEAR5 (location$4 gps address facility site$1 place$1 office$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:27 |
| S536 | 1 | S531 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) NEAR5 (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 receiver$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:36 |
| S537 | 4 | S534 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) NEAR5 (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 receiver$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:37 |
| S538 | 4 | S534 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) NEAR5 (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 receiver$4 ) and (reply$4 respons$4 feed$3back$4 return$4 acknowledgment$4 answer$4) WITH (location$4 gsp address site$1 place$1 office$3 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:42 |
| S539 | 4 | S530 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) NEAR5 (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 receiver$4 ) and (reply$4 respons$4 feed$3back$4 return$4 acknowledgment$4 answer$4) WITH (location$4 gsp address site$1 place$1 office$3 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:51 |
| S540 | 9 | S530 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) SAME (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 receiver$4 ) and (reply$4 respons$4 feed$3back$4 return$4 acknowledgment$4 answer$4) SAME (location$4 gsp address site$1 place$1 office$3 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:52 |
| S541 | 8 | S530 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment | US-PGPUB; USPAT; | OR | ON | 2019/08/13 17:53 |

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| | | UE TE TA equipment mobile cellular WTRU ) SAME (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 receiver$4 ) and (reply$4 respons$4 feed$3back$4 return$4 acknowledgment$4 answer$4) SAME (location$4 gps address site$1 place$1 office$3 ) AND (@AD <"20080728") | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S542 | 33 | S530 and ( (location$4 gps address facility site$1 place$1 office$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 18:02 |
| S543 | 21 | S530 and ( (ID identification key flag$4 ) WITH (location$4 gps address facility site$1 place$1 office$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 18:03 |
| S544 | 14 | S530 and ( (ID identification key flag$4 ) WITH (location$4 gps address facility site$1 place$1 office$4 ) and (access$4 NEAR2 server$3) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 18:03 |
| S545 | 12 | S530 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) NEAR5 (messag$4 code$4 packet$4 frame$3 ) AND (ID identification key flag$4 ) WITH (location$4 gps address facility site$1 place$1 office$4 ) and (access$4 NEAR2 server$3) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 18:04 |
| S546 | 313844 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:10 |
| S547 | 43 | S546 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) NEAR5 (messag$4 code$4 packet$4 frame$3 ) SAME (ID identification key flag$4 ) SAME (location$4 gps site$1 place$1 office$4 ) SAME (access$4 NEAR2 server$3) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 18:10 |
| S548 | 43 | S546 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) NEAR5 (messag$4 code$4 packet$4 frame$3 ) SAME (ID identification key flag$4 ) SAME (location$4 gps site$1 place$1 office$4 ) SAME (access$4 NEAR2 server$3) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/08/13 18:11 |
| S549 | 8229 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2019/08/13 18:12 |
| S550 | 1156 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; | OR | OFF | 2019/08/13 18:12 |

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| | | | EPO; JPO; DERWENT; IBM_TDB | | | |
| S551 | 1228 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/13 18:12 |
| S552 | 41274 | ( (H04W76/11 OR H04W76/15 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 18:12 |
| S553 | 35974 | S552 S549 S550 S551 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/08/13 18:12 |
| S554 | 0 | S548 and S553 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/08/13 18:13 |
| S555 | 29 | "8402559" | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/08/13 18:36 |
| S556 | 8 | "8402559".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/08/13 18:36 |
| S557 | 1 | "8402559".pn. | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:36 |
| S558 | 4 | "32074773".FMID. | US-PGPUB; USPAT; FPRS | OR | ON | 2019/08/13 18:37 |
| S559 | 70646 | (terminal devic$1 wtru ue user adj2 equipment) WITH (location$4 gps site geograph$5) NEAR6 (id identification key flag$4 ) | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:39 |
| S560 | 6909 | (terminal devic$1 wtru ue user adj2 equipment) WITH (location$4 gps site geograph$5) NEAR6 (id identification key flag$4 ) and (destination$4) NEAR5 (phone number identification ID identif$4 ) | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:40 |
| S561 | 1118 | (terminal devic$1 wtru ue user adj2 equipment) WITH (location$4 gps site geograph$5) NEAR6 (id identification key flag$4 ) and (destination$4) NEAR5 (phone number identification ID identif$4 ) and (access$4 NEAR2 server$4 ) and (reply$4 respons$4 feed$1back feedback$3 ack acknowledg$4) NEAR5 (messag$4 packet$4 frame$4) | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:41 |

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| S562 | 348 | S561 and (path$4 link$4 channel$4) WITH (router$4 rout$3 gateway$3 ) SAME Access$4 | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:43 |
| S563 | 117 | S561 and ((path$4 link$4 channel$4) WITH (router$4 rout$3 gateway$3 ) SAME Access$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:43 |
| S564 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 19:21 |
| S565 | 34 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$ or US-20080261560-$ or US-20030087648-$).did. or (US-20060043164-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/08/13 20:18 |
| S566 | 17 | S565 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) SAME (location$4 gps address facility site$1 place$1 office$4 ) and (access$4 NEAR2 server$3) and (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:19 |
| S567 | 12 | S565 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) SAME (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 )and (access$4 NEAR2 server$3) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:20 |
| S568 | 23 | S565 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) SAME (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 )and (access$4 NEAR2 server$3 server$4 webserver$4 computer$4 lifeserver$1 gateway$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:20 |
| S569 | 12 | S565 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) SAME (location$4 gps | US-PGPUB; USPAT; FPRS; | OR | ON | 2019/08/13 20:21 |

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| | | address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 )and (access$4 NEAR2 (server$3 server$4 webserver$4 computer$4 lifeserver$1 gateway$4) ) ) | EPO; JPO; DERWENT; IBM_TDB | | | |
| S570 | 31139 | ("370" "455" "375" "715" "725" H04W$/$ H04L$/$).clas,cpc. AND ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) SAME (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 )and (access$4 NEAR2 (server$3 server$4 webserver$4 computer$4 lifeserver$1 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:32 |
| S571 | 10309 | ("370" "455" "375" "715" "725" H04W$/$ H04L$/$).clas,cpc. AND ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) SAME (location$4 gps site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 ) SAME2 (access$4 NEAR7 (server$3 server$4 webserver$4 computer$4 lifeserver$1 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:34 |
| S572 | 3886202 | ("370" "455" "375" "715" "725" H04W$/$ H04L$/$).clas,cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:34 |
| S573 | 4311912 | ("370" "455" "375" "715" "725" H04W$/$ H04L$/$ H04B$/$ ).clas,cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:34 |
| S574 | 8840 | ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) WITH (location$4 gps site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 ) SAME2 (access$4 NEAR7 (server$3 server$4 webserver$4 computer$4 lifeserver$1 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:37 |
| S575 | 4311912 | ("370".clas. "455".clas. "375".clas. "715".clas. "725".clas. H04W$/$.cpc. H04L$/$.cpc. H04B$/$.cpc. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:39 |
| S576 | 4277 | S574 and S575 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 21:00 |
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| S578 | 7 | S576 AND ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) WITH (location$4 gps) SAME (destinat$4 NEAR4 (ID node identification identi$4 ) ) SAME (access$4 NEAR7 (server$3 webserver$4 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 21:02 |
| S579 | 3 | "38821872".FMID. | US-PGPUB; USPAT; FPRS | OR | ON | 2019/08/13 21:03 |
| S580 | 1 | S579 AND ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) AND (location$4 gps) SAME (destinat$4 NEAR6 (ID node identification identi$4 ) ) AND (access$4 NEAR7 (server$3 webserver$4 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 21:05 |
| S581 | 1 | S579 AND ( (location$4 gps) SAME (destinat$4 NEAR6 (ID node identification identi$4 ) ) AND (access$4 NEAR7 (server$3 webserver$4 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 21:06 |
| S582 | 2 | S579 AND ( (location$4 gps) AND (destinat$4 NEAR6 (ID node identification identi$4 ) ) AND (access$4 AND (server$3 webserver$4 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 21:06 |
| S583 | 1 | S530 and (access$3 WITH cod$3 SAME (location gps ) SAME (reply$4 respons$4 echoback feed$1back ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:06 |
| S584 | 8 | S530 and (access$3 SAME (location gps ) SAME (reply$4 respons$4 echoback feed$1back ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:07 |
| S585 | 8 | S530 and ((access$3 grand$4 ) SAME (location gps ) SAME (reply$4 respons$4 echoback feed$1back ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:08 |
| S586 | 6 | S530 and ((access$3 grand$4 ) SAME (location gps ) SAME (reply$4 respons$4 echoback feed$1back ) ) and (@AD< "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:08 |
| S587 | 24 | S530 and ((access$3 grand$4 ) AND (location gps ) AND (reply$4 respons$4 echoback feed$1back ) ) and (@AD< "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:12 |

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| S588 | 34 | ( (access$4 NEAR5 reply$4) SAME (wireless device wtru UE user adj2 equipment TE TA WTRU) SAME ( channel$4 rout$4 ) SAME (destinat$4 end$3 ) ) and (@AD<"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:23 |
| S589 | 0 | S553 AND ( (access$4 NEAR5 reply$4) SAME (wireless device wtru UE user adj2 equipment TE TA WTRU) SAME ( channel$4 rout$4 ) SAME (destinat$4 end$3 ) ) and (@AD<"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:23 |
| S590 | 5 | S553 AND ( (access$4 NEAR5 (reply$4 respons$4 ) ) SAME (wireless device wtru UE user adj2 equipment TE TA WTRU) SAME ( channel$4 rout$4 ) SAME (destinat$4 end$3 ) ) and (@AD<"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:24 |
| S591 | 34 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$ or US-20080261560-$ or US-20030087648-$).did. or (US-20060043164-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/08/14 13:28 |
| S592 | 1 | S591 and (access$4 NEAR4 (reply$4 respons$4) SAME Access$4 SAME channel$4 SAME (destinat$4 receiver$4 user adj3 end )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:29 |
| S593 | 1380 | (access$4 NEAR4 (reply$4 respons$4) SAME Access$4 SAME channel$4 SAME (destinat$4 receiver$4 user adj3 end )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:29 |
| S594 | 1 | S591 and (access$4 NEAR4 (reply$4 respons$4) SAME channel$4 SAME (destinat$4 receiver$4 user adj3 end )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:30 |
| S595 | 4 | S591 and (access$4 NEAR4 (reply$4 respons$4) SAME (channel$4 link$4 | US-PGPUB; USPAT; | OR | ON | 2019/08/14 13:30 |

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| | | rout$4 connection ) SAME (destinat$4 receiver$4 user adj3 end )) | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S596 | 4 | S591 and (access$4 NEAR4 (reply$4 respons$4) SAME (channel$4 link$4 rout$4 connection ) SAME (destinat$4 receiver$4 user adj3 end mobile$4 device$4 wtru )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:31 |
| S597 | 3 | S591 and (access$4 NEAR4 (reply$4 respons$4) SAME (channel$4 link$4 rout$4 connection ) SAME (destinat$4 receiver$4 user adj3 end mobile$4 device$4 wtru )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:32 |
| S598 | 3 | (access$4 NEAR4 (reply$4 respons$4) SAME Access$4 NEAR2 code SAME channel$4 SAME (destinat$4 receiver$4 user adj3 end ) SAME communicat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:34 |
| S599 | 23 | (access$4 NEAR4 (reply$4 respons$4) SAME code SAME channel$4 SAME (destinat$4 receiver$4 user adj3 end ) SAME communicat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:36 |
| S600 | 114 | (access$4 NEAR4 (reply$4 respons$4) SAME code SAME channel$4 SAME (wireless adj2 device wtru mobile terminal destinat$4 receiver$4 user adj3 end ) SAME communicat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:36 |
| S601 | 350 | (access$4 NEAR4 (reply$4 respons$4) SAME (code key id identification identif$4 ) SAME channel$4 SAME (wireless adj2 device wtru mobile terminal destinat$4 receiver$4 user adj3 end ) SAME communicat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:37 |
| S602 | 60 | (access$4 NEAR3 (reply$4 respons$4) WITH (code key id identification identif$4 ) WITH channel$4 SAME (wireless adj2 device wtru mobile terminal destinat$4 receiver$4 user adj3 end ) SAME communicat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:49 |
| S603 | 0 | (reserv$4 NEAR5 channel$4 SAME Access NEAR3 reply$4 SAME (wireless adje device ) SAME (destinat$4 receiver$4 )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:02 |
| S604 | 0 | (reserv$4 NEAR5 channel$4 SAME Access NEAR3 reply$4 SAME (wireless adj2 device ) SAME (destinat$4 receiver$4 )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:02 |
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| S605 | 2 | (reserv$4 NEAR5 channel$4 SAME (reply$4 respons$4 ) SAME (wireless adj2 device ) SAME (destinat$4 receiver$4 )) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:02 |
| S606 | 7 | (reserv$4 NEAR5 channel$4 SAME (wireless adj2 device ) SAME (destinat$4 receiver$4 )) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:09 |
| S607 | 4 | (reserv$4 NEAR5 channel$4 SAME access$4 NEAR5 (reply$4 respons$4) SAME (destinat$4 receiver$4 )) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:11 |
| S608 | 4 | ((reserv$4 retriv$4 restor$4 ) NEAR5 channel$4 SAME access$4 NEAR5 (reply$4 respons$4) SAME (destinat$4 receiver$4 )) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:12 |
| S609 | 74 | (access near3 cod$3 NEAR3 (reply$4 respons$4) ) SAME (access$4 NEAR3 cod$4) SAME (wireless NEAR2 device) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:21 |
| S610 | 20 | (access near3 cod$3 NEAR3 (reply$4 respons$4) ) SAME (access$4 NEAR3 cod$4) SAME (wireless NEAR2 device) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:22 |
| S611 | 20 | (access near3 cod$3 NEAR3 (reply$4 respons$4) ) SAME (access$4 NEAR3 cod$4) SAME (wireless NEAR2 device) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/08/14 14:22 |
| S612 | 52 | (access NEAR5 (reply$4 respons$4) ) SAME (access$4 NEAR3 cod$4) SAME (wireless NEAR2 device) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:26 |
| S613 | 91 | (access NEAR5 (reply$4 respons$4) ) SAME (access$4 NEAR3 cod$4) SAME (wireless NEAR2 (device terminal$4 equipment ) user adj2 equipment WTRU ) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:26 |
| S614 | 3736 | (access$4 NEAR5 (allow$4 grant$4) WITH (reply$4 respons$4) SAME (server$4 webserv$5 network$4) ) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:40 |
| S615 | 33 | S614 and (destination$4 receiver$4) | US-PGPUB; | OR | ON | 2019/08/14 |

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|---|---|---|---|---|---|---|
| | | SAME channel$4 NEAR4 access$5 with (grant$4 allow$4 permission$4 ) AND (@AD <"20080728") | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 14:42 |
| S616 | 5 | "6415154".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:44 |
| S617 | 4 | "20160026743" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:45 |
| S618 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:53 |
| S619 | 1 | S618 AND (access NEAR5 reply SAME (receiv$4 WITH access NEAR3 code) SAME destination SAME channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:53 |
| S620 | 3 | "20070286170" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:10 |
| S621 | 2 | S620 and (respons$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:10 |
| S622 | 2 | S620 and (respons$4 and (location$4 gps ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:10 |
| S623 | 2 | S620 and (respons$4 and (location$4 gps ) and (server$4 gateway$4 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:11 |
| S624 | 2 | S620 and (respons$4 and (location$4 gps ) and (server$4 gateway$4 ) and (path$4 rout$4 link$4 channel$4 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:11 |
| S625 | 2 | S620 and (respons$4 and (location$4 | US-PGPUB; | OR | ON | 2019/08/14 |

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|---|---|---|---|---|---|---|
| | | gps ) and (server$4 gateway$4 ) and (path$4 rout$4 link$4 channel$4 ) AND (access$4 grant$4 allow$4 ) ) | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 15:12 |
| S626 | 2 | S620 and (( respons$4 reply$4 ) and (location$4 gps ) and (server$4 gateway$4 ) and (path$4 rout$4 link$4 channel$4 ) AND (access$4 grant$4 allow$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:12 |
| S627 | 34 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$ or US-20080261560-$ or US-20030087648-$).did. or (US-20060043164-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/08/14 17:09 |
| S628 | 6 | S591 and (reply$4 respons$4 feed$1back feedback$4 ack acknowledg$4) NEAR5 (code$4 grant$4 allow$4 ) SAME (channel$4 path$3 rout$3 frequency$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:10 |
| S629 | 10 | S591 and (reply$4 respons$4 feed$1back feedback$4 ack acknowledg$4) NEAR5 (code$4 grant$4 allow$4 ) AND (channel$4 path$3 rout$3 frequency$4 ) WITH (reply$4 respons$4 feed$1back feedback$4 ack acknowledg$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:12 |
| S630 | 2 | (access$4 NEAR2 reply$4 WITH channel$4 WITH Destinat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:36 |
| S631 | 2 | (access$4 NEAR2 reply$4 SAME channel$4 SAME Destinat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:36 |
| S632 | 3 | (access$4 NEAR2 reply$4 SAME channel$4 SAME (wireless adj3 ( device terminal equipment) WTRU ) ) | US-PGPUB; USPAT; FPRS; | OR | ON | 2019/08/14 17:37 |

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| | | AND (@AD < "20080728") | EPO; JPO; DERWENT; IBM_TDB | | | |
| S633 | 3 | (access$4 NEAR2 reply$4 SAME (channel$4 frequenc$4 ) SAME (wireless adj3 ( device terminal equipment) WTRU ) ) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:37 |
| S634 | 3 | (access$4 NEAR2 reply$4 SAME (channel$4 frequenc$4 tunnel$4 ) SAME (wireless adj3 ( device terminal equipment) WTRU ) ) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:38 |
| S635 | 406 | (access$4 NEAR6 ( respons$4 reply$4) SAME (channel$4 frequenc$4 tunnel$4 ) SAME (wireless adj3 ( device terminal equipment) WTRU ) ) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:38 |
| S636 | 86 | (access$4 NEAR6 ( respons$4 reply$4) SAME (channel$4 frequenc$4 tunnel$4 ) SAME (wireless adj3 ( device terminal equipment) OR WTRU ) SAME (destination$3 end remot$4 receiver$3 )) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:39 |
| S637 | 1462 | (access$4 NEAR6 ( respons$4 reply$4) SAME (channel$4 frequenc$4 tunnel$4 ) WITH (destination$3 end remot$4 receiver$3 )) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:53 |
| S638 | 422 | (access$4 NEAR3 ( respons$4 reply$4) WITH (channel$4 frequenc$4 tunnel$4 ) WITH (destination$3 end remot$4 receiver$3 )) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:53 |
| S639 | 97 | (access$4 NEAR3 ( respons$4 reply$4) WITH (channel$4 frequenc$4 tunnel$4 ) WITH (destination$3 end remot$4 receiver$3 ) SAME (wireless cellular)) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:53 |
| S640 | 1 | (channel$4 WITH select$4 WITH (replay resons$4 ) WITH access$4 SAME destinat$3 ) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:59 |
| S641 | 1 | (channel$4 NEAR5 select$4 SAME (replay resons$4 ) SAME access$4 SAME destinat$3 ) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:00 |
| S642 | 0 | (channel$4 NEAR5 select$4 SAME access NEAR5 (replay resons$4 ) SAME (wireless cellular) ) AND (@AD | US-PGPUB; USPAT; FPRS; | OR | ON | 2019/08/14 18:01 |

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| | | < "20080728") | EPO; JPO; DERWENT; IBM_TDB | | | |
| S643 | 0 | (channel$4 NEAR5 select$4 SAME (access$4 admission$4 etner$4 servic$4 cover$4 retriev$4 ) NEAR5 (replay resons$4 ) SAME (wireless cellular) ) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:03 |
| S644 | 17 | (( channel$4 frequenc$4 ) SAME (access$4 admission$4 etner$4 servic$4 cover$4 retriev$4 ) NEAR5 (replay resons$4 ) SAME (wireless cellular) ) AND (@AD < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:03 |
| S645 | 4311912 | ("370".clas. "455".clas. "375".clas. "715".clas. "725".clas. H04W$/$.cpc. H04L$/$.cpc. H04B$/$.cpc. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:05 |
| S646 | 7 | S645 and S644 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:05 |
| S647 | 501 | S645 and ( channel$4 WITH access NEAR2 code WITH wireless ) AND (@AD < "20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:08 |
| S648 | 0 | S645 and ( channel$4 WITH access NEAR2 code NEAR5 (reply$4 resons$4 ) WITH wireless ) AND (@AD < "20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:09 |
| S649 | 1 | S645 and ( channel$4 WITH access NEAR2 code SAME (reply$4 resons$4 ) WITH wireless ) AND (@AD < "20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:09 |
| S650 | 1 | S645 and ( channel$4 WITH access NEAR2 code SAME (reply$4 resons$4 ) SAME wireless ) AND (@AD < "20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:09 |
| S651 | 36 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/08/14 18:10 |

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|---|---|---|---|---|---|---|
| | | or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$ or US-20080261560-$ or US-20030087648-$).did. or (US-20060043164-$ or US-20070286170-$ or US-20070230423-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S652 | 4 | S596 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:10 |
| S653 | 1 | S652 AND (channel$4 SAME access$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:11 |
| S654 | 1 | S652 AND (channel$4 and wireless and (reply$4 respons$4 ) and wireless ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:14 |
| S655 | 17 | S651 AND (channel$4 and wireless and (reply$4 respons$4 ) and wireless ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:15 |
| S656 | 3 | (US-20080056235-$ or US-20070286170-$ or US-20070230423-$).did. | US-PGPUB | OR | ON | 2019/08/14 18:35 |
| S657 | 3 | S656 and (server$4 and (data voice video ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:36 |
| S658 | 3 | S656 and (server$4 and (data voice video ) and (sms short$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:43 |
| S659 | 2 | S658 and (IP NEAR5 address ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 21:05 |
| S660 | 2 | S658 and (IP NEAR5 address ) same (location$4 gps ) | US-PGPUB; USPAT; | OR | ON | 2019/08/14 21:05 |

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| | | | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S661 | 3 | (US-20080056235-$ or US-20070286170-$ or US-20070230423-$).did. | US-PGPUB | OR | ON | 2019/08/14 21:47 |
| S662 | 3 | S661 and (server$4 and (data voice video ) and (sms short$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 21:47 |
| S663 | 2 | S662 and (IP NEAR5 address ) same (location$4 gps ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 21:47 |

**EAST Search History (Interference)**

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**8/15/2019 3:08:31 AM**
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**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 13:48 |
| L2 | 31 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/06/10 14:00 |
| L3 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 14:00 |
| L4 | 39298 | ( (H04W76/11 OR H04W76/15 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 14:00 |
| L6 | 25768 | (access$4 ) NEAR5 (request$4 demand$4 inquiry$4 appeal$4 ) WITH (server$4 gateway$4 router$4) SAME (WD UE TE TA mobile terminal WTRU ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:04 |
| L7 | 13 | ( (wireless adj2 (device equipment terminal phone iphone ) ) NEAR10 (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) SAME (access$4 NEAR5 code$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:05 |
| L8 | 1 | l2 AND (access$4 ) NEAR5 (request$4 demand$4 inquiry$4 appeal$4 ) WITH | US-PGPUB; USPAT; | OR | OFF | 2019/06/10 14:05 |

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|---|---|---|---|---|---|---|
| | | (server$4 gateway$4 router$4) SAME (WD UE TE TA mobile terminal WTRU ) | FPRS; EPO; JPO; IBM_TDB | | | |
| L9 | 25768 | (access$4 ) NEAR5 (request$4 demand$4 inquiry$4 appeal$4 ) WITH (server$4 gateway$4 router$4) SAME (WD UE TE TA mobile terminal WTRU ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:06 |
| L10 | 174 | ( (wireless adj2 (device equipment terminal phone iphone ) ) SAME (location$4 geographical$4 ) SAME (ID key$4 identificat$4 ) SAME (access$4 NEAR5 code$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:06 |
| L11 | 7 | 6 and 10 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 14:08 |
| L12 | 4 | l11 AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 14:10 |
| S1 | 2 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/25 16:48 |
| S2 | 34 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/25 18:09 |
| S3 | 2 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:03 |
| S4 | 34 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:03 |
| S5 | 34 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:03 |

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|---|---|---|---|---|---|---|
| S6 | 4 | ((JOHAN) near2 (BJORSELL)).INV. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:16 |
| S7 | 3 | ((MAKSYM) near2 (SOBOLYEV)).INV. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:16 |
| S8 | 2 | ((PENTTI) near2 (HUTTUNEN)).INV. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:17 |
| S10 | 5 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:21 |
| S11 | 5 | S6 or S7 or S8 or S10 | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:21 |
| S12 | 288340 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:29 |
| S13 | 1195 | ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 ) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:33 |
| S14 | 701 | S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 ) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:33 |
| S15 | 40 | S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:34 |
| S16 | 23 | S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5))) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:36 |
| S18 | 2 | us-20070112964-$.did. us-20040022237-$.did. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:49 |
| S19 | 4 | us-20070112964-$.did. us-20040022237-$.did. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:49 |
| S20 | 245256 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:52 |
| S21 | 1 | S20 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:53 |
| S22 | 366030 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:54 |
| S24 | 354 | S22 and ((access adj code) same (channel ID identification) same request) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:55 |
| S25 | 8 | S22 and ((access adj code) same (channel with (ID identification)) same request) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:56 |
| S26 | 10 | S22 and ((access adj2 code) same caller same callee) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:59 |
| S27 | 58 | S22 and ((phone caller callee 'calling party') same server same router same (initiat$4 or setup or sett$4)same channel) | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:05 |

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|---|---|---|---|---|---|---|
| S28 | 10 | S22 and ((phone caller callee "calling party" "called party" "called terminal" "calling party") same server same rout$5 same (call near5 (initiat$4 or setup)) same channel same request same (ID identif$7)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:19 |
| S29 | 257 | S22 and (caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:27 |
| S30 | 72 | S22 and (caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) same access$5 | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:28 |
| S31 | 11 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$).did. or (US-7068684-$ or US-6963635-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:13 |
| S32 | 9 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:13 |
| S33 | 3 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and processor and interface and identification) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:16 |
| S34 | 7 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) ) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:18 |
| S35 | 7 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:21 |
| S36 | 2 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number and expir$5) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:22 |
| S37 | 2 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:54 |

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|---|---|---|---|---|---|---|
| | | and expir$5 and (access adj code)) | | | | |
| S39 | 3 | "7079526".pn. us-20030114145-$.did. "6016319".pn. | US-PGPUB; USPAT | OR | ON | 2013/03/14 11:27 |
| S40 | 409041 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:17 |
| S43 | 21100 | S40 and (initiat$4 adj3 call) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:21 |
| S44 | 128 | S40 and ((initiat$4 adj2 call) same (access adj2 code)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:22 |
| S45 | 101 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:23 |
| S46 | 38 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((voice data) adj2 network)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:23 |
| S47 | 33 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:25 |
| S48 | 11 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:26 |
| S49 | 35 | ("2006/0189337").URPN. | USPAT | OR | ON | 2013/03/15 11:34 |
| S50 | 5 | S46 not S47 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:46 |
| S51 | 63 | S45 not S46 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:47 |
| S52 | 409041 | ("370".clas. "709".clas. "455".clas.) and | US-PGPUB; | OR | ON | 2013/03/15 |

PTO/SB/08 Equivalent

| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No. | 14/035,806 |
|---|---|---|
| | Filing Date | September 24, 2013 |
| | First Named Inventor | Björsell, Johan Emil Viktor |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | Rahman, M. Mostazir |
| SHEET 7 OF 8 | Attorney Docket No. | DIGIF.004C1 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---|---|---|---|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[1] |
| | 85 | Voip-Pal Ex. 2021, IPR2016-01198, DF DigiFonica International Inc Memo - "Software roll out for supernodes.::Salm Rev 341, RBR Rev 341 added, 1 message" Fuad A. To: E. Björsell, Tue, May 31, 2005 at 1:13 PM, 1 page. | |
| | 86 | Voip-Pal Ex. 2022, IPR2016-01198, DF DigiFonica International Inc Memo - "Salm Rev 341, RBR Rev 341, 2 messages" Emil Björsell To: Fuad, et al., Tue, May 31, 2005 at 2:38 *and* 2:44 PM, 1 page. | |
| | 87 | Voip-Pal Ex. 2023, IPR2016-01198, DF DigiFonica International Inc Memo - "Software roll out for supernodes.::RBR Roll out Rev 353 added, 1 message" Fuad A. To: E. Björsell, Thu, Jun 2, 2005 at 1:12 PM, 1 page. | |
| | 88 | Voip-Pal Ex. 2024, IPR2016-01198, DF DigiFonica International Inc Memo - "Software roll out for supernodes.::RBR Roll out Rev 358 added, 1 message" Fuad A. To: E. Björsell, Sun, Jun 5, 2005 at 1:18 PM, 1 page. | |
| | 89 | Voip-Pal Ex. 2025, IPR2016-01198, DF DigiFonica International Inc Memo - "Software roll out for supernodes.::RBR Roll out Rev 361 updated, 1 message" Fuad A. To: E. Björsell, Mon., Jun 6, 2005 at 9:26 AM, 1 page. | |
| | 90 | Voip-Pal Ex. 2026, IPR2016-01198, DF DigiFonica International Inc Memo - "RBR Roll out Rev 361, 1 message" David Terry To: Fuad, et al., Mon., Jun 6, 2005 at 9:33 AM, 1 page. | |
| | 91 | Voip-Pal Ex. 2027, IPR2016-01198, DF DigiFonica International Inc Memo - "RBR Roll out Rev 361, 1 message" Emil Björsell To: Fuad, et al., Mon., Jun 6, 2005 at 11:33 AM, 1 page. | |
| | 92 | Voip-Pal Ex. 2030, IPR2016-01198, DF DigiFonica International Inc Memo - "Software roll out for supernodes.::RBR Rev 541 updated, 1 message" Fuad A. To: E. Björsell, Thu, Aug 4, 2005 at 11:57 AM, 1 page. | |
| | 93 | Voip-Pal Ex. 2031, IPR2016-01198, DF DigiFonica International Inc Memo - "RBR Rev 541, 1 message" David Terry To: Fuad, et al., Thu, Aug 4, 2005 at 1:58 PM, 1 page. | |
| | 94 | Voip-Pal Ex. 2032, IPR2016-01198, DF DigiFonica International Inc Memo - "RBR Rev 541, 1 message" Emil Björsell To: Fuad, et al., Thu, Aug 4, 2005 at 3:59 PM, 1 page. | |
| | 95 | Voip-Pal Ex. 2033, IPR2016-01198, DF DigiFonica International Inc Memo - "Software roll out for supernodes.::RBR Roll out Rev 554 added, 1 message" Fuad A. To: Emil Björsell, Mon, Aug 8, 2005 at 10:55 AM, 1 page. | |
| | 96 | Voip-Pal Ex. 2034, IPR2016-01198, DF DigiFonica International Inc Memo - "RBR Roll out Rev 554, 2 messages" David Terry To: Fuad, et al., Mon, Aug 8, 2005 at 11:48 AM and 12:00 PM, 1 page. | |
| | 97 | Voip-Pal Ex. 2035, IPR2016-01198, DF DigiFonica International Inc Memo - "RBR Roll out Rev 554, 1 message" Emil Björsell To: Fuad, et al., Mon, Aug 8, 2005 at 12:09 PM, 1 page. | |
| | 98 | Voip-Pal Ex. 2036, IPR2016-01198, DF DigiFonica International Inc Memo - "Digifonica : RBR and Salma Deployment," Samantha Edwards To: everyone@digifonica.com, Mon, Aug 8, 2005 at 4:12 PM, 4 pages. | |
| | 99 | Voip-Pal Ex. 2042, IPR2016-01198, DF DigiFonica International Inc Memo - "RBR Roll out Rev 693==>694, 1 message" Chris Huff To: Fuad, et al., Tue, Aug 23, 2005 at 1:33 PM, 1 page. | |
| | 100 | Voip-Pal Ex. 2043, IPR2016-01198, "DEPOSITION OF HENRY H. HOUH, PH.D., VOLUME I, TAKEN ON BEHALF OF THE PATENT OWNER," APPLE INC., Petitioner, v. VOIP-PAL.COM, INC., Patent Owner, Case No. IPR2016-01201, U.S. Patent 8,542,815, UNITED STATES PATENT AND TRADEMARK OFFICE, BEFORE THE PATENT TRIAL AND APPEAL BOARD, Dated: January 25, 2017, 128 pages. | |

| Examiner Signature | /M Mostazir Rahman/ | Date Considered | 08/21/2017 |
|---|---|---|---|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

T[1] - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

| | | | | | | |
|---|---|---|---|---|---|---|
| | | indentification) same request same (call$5 near5 server) same (router rout$5 gateway adj control$5)) | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 12:33 |
| S67 | 154 | S64 not S65 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:34 |
| S68 | 32 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:34 |
| S69 | 2 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) and (wireless adj2 ip adj4 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:35 |
| S72 | 2 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless adj2 ip adj4 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:36 |
| S73 | 5 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless with (ip or (internet adj2 protocol)))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:46 |
| S74 | 12 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND ((wireless mobile) with (ip or (internet adj2 protocol)))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:48 |
| S76 | 7 | S74 not S73 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:49 |
| S77 | 432569 | ("370".clas. "709".clas. "455".clas. "725".clas.) and (@ad < "20080728" @rlad < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 13:10 |
| S79 | 2 | S77 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless adj5 IP)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 13:11 |
| S82 | 0 | S79 and (POOL) | US-PGPUB; | OR | ON | 2013/03/15 |

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|---|---|---|---|---|---|---|
| | | | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 15:32 |
| S83 | 0 | S79 and (indenfi$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S84 | 2 | S79 and (identifi$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S85 | 2 | S79 and (identifi$5 and access) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S86 | 0 | S79 and (identifi$5 with access) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S87 | 2 | S79 and (identifi$5 and access and number) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S88 | 2 | S79 and (identifi$5 and access and number and associat$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:34 |
| S89 | 2 | S79 and (identifi$5 and access and number and associat$5 and select$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:34 |
| S90 | 900 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:57 |
| S91 | 0 | S52 and (pool database) with (access adj code) with (phone adj number) with (associat$3 respective) same (wireless IP)\ | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:57 |
| S92 | 0 | S52 and (pool database) with (access | US-PGPUB; | OR | ON | 2013/03/15 |

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|---|---|---|---|---|---|---|
| | | adj code) with (phone adj number) with (associat$3 respective) and (wireless IP) | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 15:58 |
| S93 | 820 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) and (wireless IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:58 |
| S94 | 181 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) same (wireless IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:58 |
| S95 | 8 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) same (wireless with IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:59 |
| S98 | 20 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:13 |
| S99 | 11 | S98 and (local with number) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:17 |
| S100 | 9 | S98 and (local near7 number) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:19 |
| S101 | 7 | S98 and (local near4 number) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:19 |
| S102 | 3 | (US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/15 16:49 |
| S103 | 3 | S102 AND (ip adj2 address) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:49 |
| S104 | 0 | S102 AND (ip adj2 address with mobile) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:50 |

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|---|---|---|---|---|---|---|
| S105 | 2 | S102 AND (ip adj2 address with (receiv$5 reception)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:50 |
| S106 | 3 | S102 AND (ip adj2 address with server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:52 |
| S107 | 0 | S102 AND (ip adj2 address with server with receiv$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:53 |
| S108 | 1 | S102 AND (ip adj2 address with receiv$3 same server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:53 |
| S109 | 0 | S102 AND ((ip adj address) with caller) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:54 |
| S110 | 2 | S102 AND ((ip adj address) with call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:54 |
| S111 | 1 | "12116756" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 14:43 |
| S112 | 3 | (US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/16 15:36 |
| S115 | 1 | S112 AND (identif$5 same wireless) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 15:37 |
| S116 | 3 | S112 AND (identif$5 and (mobile wireless)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:09 |
| S117 | 1 | S112 AND (identif$5 with (mobile wireless)) | US-PGPUB; USPAT; FPRS; | OR | ON | 2013/03/16 16:09 |

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|---|---|---|---|---|---|---|
| | | | EPO; JPO; DERWENT; IBM_TDB | | | |
| S118 | 2 | S112 AND (identif$5 same (mobile wireless)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:09 |
| S119 | 3 | S112 AND (identi$6 and (mobile wireless) and config$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:11 |
| S122 | 3 | S112 AND (identi$6 and (mobile wireless) and config$5 and user) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:11 |
| S123 | 3 | S112 AND (identi$6 and (mobile wireless) and config$5 and user and location) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:12 |
| S124 | 2 | S112 AND (identi$6 same (mobile wireless) and config$5 and user and location) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:12 |
| S126 | 1 | S112 AND (identi$6 same (mobile wireless) and (config$5 same location) and user) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:13 |
| S127 | 1 | S112 AND (identi$6 same (mobile wireless) same location and (config$5 same user)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:17 |
| S128 | 2 | S112 AND (location same identi$6 same user) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:50 |
| S129 | 3 | S112 AND (local same number) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:08 |
| S130 | 2 | S112 AND (local near5 number) | US-PGPUB; USPAT; FPRS; | OR | ON | 2013/03/16 17:12 |

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| | | | EPO; JPO; DERWENT; IBM_TDB | | | |
| S131 | 3 | S112 AND (IP adj2 network same rout$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:19 |
| S136 | 3 | S112 AND (call same channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:39 |
| S137 | 1 | S112 AND (call same channel same establ$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:39 |
| S141 | 1 | S112 AND (establ$5 same call same channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:41 |
| S142 | 2 | S112 AND (call$5 same identif$6 same access) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 18:31 |
| S143 | 1 | S112 AND (call$5 same identif$6 same access same code) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 18:31 |
| S144 | 3 | (US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:29 |
| S145 | 3 | S144 and (telephone same number) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:30 |
| S146 | 2 | S144 and ((number or code) with match$4) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:31 |
| S147 | 3 | S144 and ((number or code or ID or identifier) with called) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:37 |
| S148 | 2 | S144 and ((number or code or ID or identifier) with channel) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:45 |
| S149 | 1 | S144 and ((number or code) same (ID or identifier) same channel) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:46 |
| S150 | 2 | S144 and ((number or code or ID or identifier) same channel same (called dialed)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:49 |
| S151 | 2 | S144 and (channel same (called dialed)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:51 |
| S152 | 3 | S144 and (TTL expir$5 timestap) | US-PGPUB; | OR | ON | 2013/03/18 |

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| | | | USPAT | | | 19:56 |
| S153 | 3 | S144 and (TTL expir$5 timestamp) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:56 |
| S154 | 2 | S144 and (data non$1voice) with (reply respon$4) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:09 |
| S155 | 2 | S144 and (data non$1voice) same (code numer ID identifier) same (reply respon$4) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:10 |
| S156 | 3 | S144 and (data non$1voice) same (code numer ID identifier) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:12 |
| S157 | 3 | S144 and (data non$1voice) same (code numer ID identifier) same2 (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:14 |
| S158 | 3 | S144 and (data non$1voice) same (code number ID identifier) same2 (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:14 |
| S159 | 3 | S144 and (data non$1voice) same (code number ID identifier) same (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:17 |
| S160 | 1 | S144 and code with (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:19 |
| S161 | 3 | S144 and (number ID identifier) with (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:21 |
| S162 | 2 | S144 and (access adj code) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:23 |
| S163 | 0 | S144 and (access adj code) same (reply reponse respond$3) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:23 |
| S164 | 1 | S144 and (access adj code) same2 (reply reponse respond$3) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:24 |
| S165 | 1 | S144 and code same query | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:26 |
| S166 | 0 | "L29" and (data with interface with access adj code with (reply response respond$3)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:26 |
| S167 | 366130 | ("370".clas. "709".clas. "455".clas.) and (@ad < "20080728" @rlad < "20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:27 |
| S168 | 6 | S167 and (data with interface with access adj code with (reply response respond$3)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:27 |
| S169 | 1 | S167 and (access adj code) with expir$5 with (establish$4 ssetup) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:41 |
| S170 | 3 | S167 and (access adj code) with expir$5 with (establish$4 setup) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:41 |
| S171 | 8 | S167 and (access adj code) with expir$5 with call$3 | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:43 |
| S172 | 5 | (US-20040022237-$ or US-20080056235-$ or US-20020122391-$).did. or (US-6674745-$ or US-5454030-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/22 14:46 |
| S173 | 3 | S172 and (dial$3 with number) | US-PGPUB; USPAT | OR | ON | 2013/03/22 15:52 |
| S174 | 2 | S172 and (called with number with request) | US-PGPUB; USPAT | OR | ON | 2013/03/22 15:58 |
| S175 | 1 | S172 and (calling with number with | US-PGPUB; | OR | ON | 2013/03/22 |

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| | | request) | USPAT | | | 16:00 |
| S176 | 1 | S172 and (calling with request) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:01 |
| S178 | 2 | S172 and (request with access) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:03 |
| S179 | 4 | S172 and (access near code) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:04 |
| S180 | 1 | S172 and (access with soft) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:06 |
| S181 | 1 | S172 and (access same soft same (caller calling)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:08 |
| S182 | 1 | S172 and (access same request$3 same (caller calling)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:09 |
| S185 | 1 | S172 and (reply with request$3) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:15 |
| S186 | 5 | S172 and (reply response) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:16 |
| S187 | 4 | S172 and ((reply response) with (code id identif$8)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:19 |
| S188 | 4 | S172 and ((calling caller) with (code id identif$8)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:21 |
| S189 | 3 | S172 and ((calling caller) with (reply$3 respon$5)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:23 |
| S190 | 1 | S172 and ((calling caller) same called same (initial$5 code access)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:24 |
| S191 | 4 | S172 and ((reply response) with (code id identif$8) with (reply$3 respon$5)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:38 |
| S193 | 5 | (US-20040022237-$ or US-20080056235-$ or US-20020122391-$).did. or (US-6674745-$ or US-5454030-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:05 |
| S194 | 3 | S193 and (ip adj2 address) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:06 |
| S195 | 0 | S193 and (ip adj2 address with mobile) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:07 |
| S196 | 1 | S193 and (ip adj2 address same mobile) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:07 |
| S197 | 3 | S193 and (ip adj2 address) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:08 |
| S198 | 3 | S193 and (ip adj1 address) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:17 |
| S199 | 1 | S193 and (mobile same routed) | US-PGPUB; USPAT | OR | ON | 2013/03/23 13:17 |
| S200 | 2 | S193 and (mobile same rout$4) | US-PGPUB; USPAT | OR | ON | 2013/03/23 13:18 |
| S201 | 2 | US-20070112964-$.did. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/25 12:44 |
| S202 | 2 | "5519769".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/25 12:55 |

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| | | | DERWENT; IBM_TDB | | | |
| S203 | 5 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2015/11/09 13:30 |
| S204 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2015/11/09 13:30 |
| S205 | 68 | ("20020116464" \| "20040255126" \| "20060072547" \| "20060093135" \| "20060153342" \| "20080056302" \| "20120099599" \| "20120227101" \| "5469497" \| "5608786" \| "5712907" \| "5838682" \| "5905736" \| "5930343" \| "5991291" \| "6005926" \| "20120170574" \| "20040203582" \| "20050287979" \| "20070047548" \| "20080167019" \| "20080167020" \| "20080187122" \| "20100177671" \| "20110201321" \| "6993015" \| "7400881" \| "7573982" \| "7738384" \| "8041022" \| "8189568" \| "8437340" \| "8462915" \| "8605714" \| "8750290" \| "7587036" \| "20140349602" \| "8111690" \| "8713098" \| "20090213839" \| "20100083364" \| "20100115018" \| "20110208859" \| "20110276903" \| "20110276904" \| "20110292929" \| "20120089717" \| "20130329722" \| "20140016764" \| "8078164" \| "8396445" \| "8634838" \| "8903051" \| "8909556" \| "8938534" \| "20050222952" \| "6636833" \| "7447707" \| "7676431" \| "7765261" \| "8161078" \| "8627211" \| "20020122391" \| "20060160565" \| "20060177035" \| "20060209768" \| "20080037715" \| "5146491").pn. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:04 |
| S206 | 7 | ((Pentti) near2 (Huttunen)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:08 |
| S208 | 4 | ((Emil) near2 (Malak)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:08 |
| S209 | 19 | ((bjorsell) near2 (johan)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:09 |
| S210 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:09 |
| S211 | 9 | ((Maksym) near2 (Sobolyev)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:10 |
| S212 | 25 | S206 S208 S209 S210 S211 | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:10 |
| S213 | 267985 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:12 |
| S214 | 9728 | S213 and ((location$4 GPS ) AND (ID | US-PGPUB; | OR | ON | 2015/11/09 |

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| | | identificat$4)).clm. | USPAT | | | 14:12 |
| S215 | 1 | S212 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:12 |
| S216 | 3 | S212 and ((location$4 GPS ) AND (ID identificat$4 key flag$4 number digit)).clm. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:13 |
| S217 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2015/11/09 14:14 |
| S218 | 22 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/09 15:24 |
| S219 | 20 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/09 16:15 |
| S220 | 22 | (US-20070281705-$ or US-20090252159-$ or US-20130028251-$ or US-20040042607-$ or US-20080049732-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/09 16:15 |
| S221 | 21 | S220 and (locat$4 GPS) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:15 |

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| S222 | 17 | S220 and (locat$4 GPS) AND (ID identificat$4 key$4 flag$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S223 | 13 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S224 | 13 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) AND (mobile wireless cellular portable) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S225 | 10 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S226 | 10 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) AND (server$4 router$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:17 |
| S227 | 9 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) SAME (server$4 router$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:17 |
| S228 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:28 |
| S230 | 4816 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2015/11/09 16:29 |
| S231 | 5819 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:31 |
| S233 | 5844 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:32 |
| S235 | 27 | S230 AND (plac$3 WITH VOIP same call$3) | US-PGPUB; USPAT; | OR | OFF | 2015/11/09 16:33 |

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| | | | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S236 | 56 | (S230 S231 S233) AND (plac$3 WITH VOIP same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:19 |
| S237 | 48 | (S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular ) WITH VOIP same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:20 |
| S238 | 63 | (S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular ) SAME (voice adj2 over adj2 internet VOIP) same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:20 |
| S239 | 2 | (US-20040022237-$ or US-20080056235-$).did. | US-PGPUB | OR | OFF | 2015/11/09 17:34 |
| S240 | 28 | (S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular ) SAME (voice adj2 over adj2 internet VOIP) same call$3 AND (SMS short adj2 messag$4 adj2 serv$4)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:35 |
| S241 | 4816 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2015/11/09 19:23 |
| S242 | 5819 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:23 |
| S243 | 5844 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:23 |
| S244 | 976 | (S241 S242 S243) AND (SMS short adj2 messag$4 adj2 servic$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:23 |
| S245 | 397 | (S241 S242 S243) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:24 |
| S246 | 259 | (S241 S242 S243) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND | US-PGPUB; USPAT; | OR | OFF | 2015/11/09 19:25 |

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| | | (SMS short adj2 messag$4 adj2 servic$3) AND server and controller ) | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S247 | 29 | (S241 S242 S243) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:26 |
| S248 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:35 |
| S249 | 1 | S248 and (receiv$$ SAME user SAME identifier SAME destination) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:36 |
| S250 | 1 | S248 and (receiv$$ SAME user SAME identifier) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:36 |
| S251 | 20 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:07 |
| S252 | 252985 | ( (H04L29/06027 OR H04L29/06 OR H04L29/1216 OR H04L61/157 OR H04L65/1069 OR H04L12/4608 OR H04L12/66 OR H04L29/12122 OR H04L61/1547 OR H04L65/1026 OR H04L65/103 OR H04L65/1036 OR H04L65/104 OR H04L67/14 OR H04L69/329 OR H04L12/1813 OR H04L12/5695 OR H04L12/6418 OR H04L2012/5626 OR H04L2012/563 OR H04L2012/5645 OR H04L2012/5667 OR H04L2012/5668 OR H04L2012/6472 OR H04L29/12094 OR H04L29/12584 OR H04L29/12896 OR H04L29/12933 OR H04L47/724 OR H04L47/803 OR H04L47/805 OR H04L61/1529 OR H04L61/2015 OR H04L61/2596 OR H04L61/605 OR H04L61/6068 OR H04L63/061 OR H04L63/0823 OR H04L63/126 OR H04L63/164 OR H04L65/1003 OR H04L65/1006 OR | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:25 |

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| | | H04L65/1009 OR H04L65/1013 OR H04L65/1043 OR H04L65/1046 OR H04L65/1083 OR H04L65/1096 OR H04L65/4007 OR H04L65/403 OR H04L65/604 OR H04L65/605 OR H04L67/02 OR H04L67/04 OR H04L67/24 OR H04L67/34 OR H04L67/40 OR H04L69/08 OR H04M15/00 OR H04M7/006 OR H04M7/009 OR H04M11/066 OR H04M15/06 OR H04M15/08 OR H04M15/41 OR H04M15/43 OR H04M15/48 OR H04M15/56 OR H04M15/63 OR H04M15/68 OR H04M15/745 OR H04M15/8292 OR H04M1/2473 OR H04M1/2535 OR H04M2203/2022 OR H04M2203/4536 OR H04M2207/12 OR H04M2207/18 OR H04M2207/20 OR H04M2215/0108 OR H04M2215/0156 OR H04M2215/0164 OR H04M2215/0168 OR H04M2215/0196 OR H04M2215/202 OR H04M2215/62 OR H04M2215/68 OR H04M2242/14 OR H04M3/20 OR H04M3/42 OR H04M3/42008 OR H04M3/42042 OR H04M3/42068 OR H04M3/4228 OR H04M3/42314 OR H04M3/42348 OR H04M3/42365 OR H04M3/523 OR H04M3/53325 OR H04M3/545 OR H04M3/567 OR H04M7/00 OR H04M7/0021 OR H04M7/0057 OR H04M7/123 OR H04M7/1245 OR H04M7/125 OR H04M7/1255 OR H04M7/126 OR H04M7/128 OR H04M7/1285 OR H04Q3/0025 OR H04Q3/0045 OR H04Q11/0478 OR H04Q2213/13098 OR H04Q2213/1324 OR H04Q2213/13288 OR G06Q20/3674 OR H04H60/43 OR H04H60/51 OR H04H60/91 OR H04N21/2665 OR H04N21/4126 OR H04N21/42203 OR H04N21/6581 OR H04N21/6582 OR H04N7/17318 OR H04W28/16 OR H04W4/06 OR H04W4/10 OR H04W4/22 OR H04W60/04 OR H04W76/005 OR H04W76/007 OR H04W76/02 OR H04W76/021 OR H04W76/025 OR H04W80/00 OR H04W80/04 OR H04W84/005 OR H04W88/08 OR H04W8/02 OR H04W8/085 OR Y10S379/90).CPC. ) | | | | |
| S253 | 1 | "14035806" | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:26 |
| S254 | 6639 | ( (H04W76/021 OR H04W76/025 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:45 |
| S255 | 268033 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad < "20080728" @rlad < "20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/29 23:32 |
| S256 | 4832 | H04W8/02.cpc. | US-PGPUB; USPAT; | OR | OFF | 2015/11/29 23:32 |

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| | | | FPRS; EPO; JPO | | | |
| S257 | 5881 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:32 |
| S258 | 5933 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:32 |
| S259 | 29 | (S256 S257 S258) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:32 |
| S260 | 265 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:33 |
| S261 | 95 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:33 |
| S262 | 25 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 adj2 servic$3) AND server SAME (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:33 |
| S263 | 4 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 adj2 servic$3) SAME server SAME (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:34 |
| S264 | 6575 | (reply with mobile) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:57 |
| S265 | 2208 | (reply with mobile same server) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:57 |
| S266 | 168 | (reply with mobile same server same sms) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:57 |
| S267 | 35 | (reply with mobile same server same sms same gateway) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:58 |
| S268 | 25 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US- | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 02:11 |

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| | | 20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S269 | 12 | S268 and SMS | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 02:11 |
| S270 | 12 | S268 and (SMS same server$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 02:12 |
| S271 | 1 | S268 and (SMS same server$3 same locat$4 NEAR5 (ID address identificat$4)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 02:12 |
| S272 | 25 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 09:34 |
| S273 | 12 | S272 and (SMS same server$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:34 |
| S274 | 5 | S272 and (SMS same server$3 SAME (location GPS )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:38 |
| S275 | 5 | "20080101370" | US-PGPUB; USPAT; FPRS; | OR | OFF | 2015/11/30 09:42 |

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| | | | EPO; JPO; DERWENT; IBM_TDB | | | |
| S276 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 09:47 |
| S277 | 6 | S276 and (SMS SAME server SAME (location GPS)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:47 |
| S278 | 8 | S276 and (SMS SAME server SAME3 (location GPS)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 10:08 |
| S279 | 17 | S276 and ((ID identification key flag address ) SAME (location GPS)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:00 |
| S280 | 15 | S276 and ((ID identification key flag address ) SAME (location GPS) SAME server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:01 |
| S281 | 11 | S276 and ((transmit$4 send$4) SAME (ID identification key flag address ) SAME (location GPS) SAME server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:03 |
| S282 | 3 | S276 and ((transmit$4 send$4) SAME (ID identification key flag address ) WITH (location GPS) WITH server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:11 |
| S283 | 2 | (US-20080160953-$ or US-20080056235-$).did. | US-PGPUB | OR | OFF | 2015/11/30 12:07 |
| S284 | 2 | S283 and (SMS SAME server) | US-PGPUB; USPAT; FPRS; | OR | OFF | 2015/11/30 12:07 |

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| | | | EPO; JPO; DERWENT; IBM_TDB | | | |
| S285 | 2 | S283 and (location SAME channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 12:25 |
| S286 | 1 | "14035806" | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 12:59 |
| S287 | 0 | S283 and (poll) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:04 |
| S288 | 1 | S283 and (poll multiple) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:05 |
| S289 | 2 | S283 and (local and call) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:07 |
| S290 | 2 | S283 and (local SAME call) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:07 |
| S291 | 2 | S283 and (IP SAME address) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:09 |
| S292 | 0 | S283 and (time with out) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:20 |
| S293 | 0 | S283 and (expired) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:21 |
| S294 | 1 | S283 and (expired out) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:21 |

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| S295 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/02 22:35 |
| S296 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/02 22:36 |
| S297 | 0 | S296 and (destinat$$ adj2 (ID key flag identificat$4 ) and (location adj2 ID) and channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/02 22:37 |
| S298 | 0 | S296 and (destinat$$ SAME (ID key flag identificat$4 ) SAME (location adj2 ID) and channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/02 22:37 |
| S299 | 1 | S296 and (destinat$$ SAME (ID key flag identificat$4 ) SAME channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/02 22:38 |
| S300 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/03 18:45 |
| S301 | 1 | S300 and (destinat$$ SAME (ID key flag identificat$4 ) SAME channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/03 18:45 |
| S302 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/06 12:00 |

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| S303 | 2 | "13710282" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/06 17:24 |
| S304 | 1 | S303 and (similar SAME power$4 same sav$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/06 17:25 |
| S305 | 1 | S303 and (similar NEAR10 power$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/06 18:18 |
| S306 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/06 21:55 |
| S307 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/07 14:24 |
| S308 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/07 14:24 |
| S309 | 1 | "14035806" | US-PGPUB; USPAT | OR | OFF | 2016/01/07 15:02 |
| S310 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/07 15:03 |
| S311 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/07 15:03 |
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| S312 | 1 | S310 and ( (channel$4 tunnel$4 frequenc$4) WITH (ID identificat$4 key flag) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:04 |
| S313 | 2 | S310 and ( (channel$4 tunnel$4 frequenc$4) SAME (ID identificat$4 key flag) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:04 |
| S314 | 1 | S310 and ( (channel$4 tunnel$4 frequenc$4) NEAR10 (ID identificat$4 key flag) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:35 |
| S315 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/07 15:35 |
| S316 | 1 | S315 and (destinat$$ SAME (ID key flag identificat$4 ) SAME channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:35 |
| S317 | 2 | S315 and (channel ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 16:18 |
| S319 | 2 | S315 and (channel and location) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 18:15 |
| S320 | 5569 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2016/10/17 13:25 |
| S321 | 8486 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/10/17 13:25 |
| S322 | 8300 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/10/17 13:25 |
| S323 | 46 | (S320 S321 S322) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/10/17 13:25 |

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| S324 | 8 | ((Pentti) near2 (Huttunen)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S325 | 4 | ((Emil) near2 (Malak)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S326 | 22 | ((bjorsell) near2 (johan)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S327 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:25 |
| S328 | 10 | ((Maksym) near2 (Sobolyev)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S329 | 29 | S324 S325 S326 S327 S328 | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S330 | 1 | S329 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:25 |
| S331 | 313876 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S332 | 28 | S331 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5))) | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S333 | 268664 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S334 | 1 | S333 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S335 | 506306 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2016/10/17 13:26 |
| S336 | 12 | S335 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2016/10/17 13:26 |
| S337 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | ON | 2016/10/17 13:55 |
| S338 | 2 | S337 and (database list table log) WITH (locat$4 GPS) | US-PGPUB | OR | ON | 2016/10/17 14:12 |
| S339 | 2 | S337 and (database list table log) WITH (locat$4 GPS) AND (IP internet adj2 protocol) | US-PGPUB | OR | ON | 2016/10/17 14:19 |
| S340 | 0 | S337 and (database list table log) WITH (locat$4 GPS) WITH (IP internet adj2 protocol) | US-PGPUB | OR | ON | 2016/10/17 14:19 |
| S341 | 2 | S337 and (database list table log) WITH (locat$4 GPS) SAME (IP internet adj2 protocol) | US-PGPUB | OR | ON | 2016/10/17 14:19 |
| S342 | 2 | S337 and (database list table log) WITH (locat$4 GPS) SAME (IP internet adj2 protocol) and location | US-PGPUB | OR | ON | 2016/10/17 14:45 |
| S343 | 1 | "14035806" | US-PGPUB; | OR | ON | 2016/11/15 |

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|---|---|---|---|---|---|---|
| | | | USPAT; FPRS; EPO; JPO | | | 14:32 |
| S344 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2016/11/15 15:00 |
| S345 | 6 | cn adj2 "102307082" | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | ON | 2016/11/15 15:52 |
| S346 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | ON | 2016/11/15 16:54 |
| S347 | 1 | (US-20080056235-$).did. | US-PGPUB | OR | ON | 2016/11/15 19:52 |
| S348 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | ON | 2016/11/15 19:53 |
| S349 | 2 | S348 AND (locat$5 GPS ) WITH ( ID key identification flag$4) | US-PGPUB | OR | ON | 2016/11/15 19:54 |
| S350 | 2 | S348 AND (locat$5 GPS ) WITH ( ID key identification flag$4) AND ( ID key identification flag$4) | US-PGPUB | OR | ON | 2016/11/15 19:55 |
| S351 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | ON | 2016/11/15 20:58 |
| S352 | 2 | S351 AND (locat$5 GPS ) WITH ( ID key identification flag$4) AND ( ID key identification flag$4) | US-PGPUB | OR | ON | 2016/11/15 20:58 |
| S353 | 432 | ( (Access NEAR5 server ) AND ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB | OR | ON | 2016/11/15 21:57 |
| S354 | 752 | ( (Access NEAR5 server ) AND ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 21:58 |
| S355 | 402 | ( (Access NEAR5 server ) AND ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 21:58 |
| S356 | 11 | ( (Access NEAR5 server ) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD | US-PGPUB; USPAT; FPRS; | OR | ON | 2016/11/15 21:58 |

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|---|---|---|---|---|---|---|
| | | <"201080728") | EPO; JPO; IBM_TDB | | | |
| S357 | 97 | (( request$4 NEAR5 (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 22:00 |
| S358 | 19 | (( request$4 NEAR5 (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) SAME (server) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 22:01 |
| S359 | 43 | (( request$4 SAME (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) SAME (server) SAME (channel$4 path$4 rout$4) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 22:42 |
| S360 | 29 | ((JOHAN) near2 (BJORSELL)).INV. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S361 | 14 | ((MAKSYM) near2 (SOBOLYEV)).INV. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S362 | 8 | ((PENTTI) near2 (HUTTUNEN)).INV. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S363 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S364 | 34 | S360 or S361 or S362 or S363 | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S365 | 313893 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S366 | 27 | S365 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5))) | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S367 | 268678 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S368 | 1 | S367 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S369 | 45 | (( request$4 SAME (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) SAME (server) SAME (channel$4 path$4 rout$4) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 11:59 |
| S370 | 400075 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S371 | 8 | S370 and ((access adj code) same (channel with (ID identification)) same request) | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S372 | 8 | ((Pentti) near2 (Huttunen)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S373 | 4 | ((Emil) near2 (Malak)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |

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|---|---|---|---|---|---|---|
| S374 | 29 | ((bjorsell) near2 (johan)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S375 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S376 | 14 | ((Maksym) near2 (Sobolyev)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S377 | 36 | S372 S373 S374 S375 S376 | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S378 | 1 | S377 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S379 | 528836 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/08/21 12:00 |
| S380 | 12 | S379 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/08/21 12:00 |
| S381 | 11 | ( (Access NEAR5 server ) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 12:00 |
| S382 | 13 | ("20020150080" \| "20060195584" \| "20070121590" \| "20070121602" \| "20170104868" \| "20170111265" \| "20170126752" \| "20170142256" \| "576852106" \| "6947531" \| "7477843" \| "9537762" \| "9549071" \| "9565307").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S383 | 4 | ("20030043974" \| "20050069097" \| "6434143" \| "7774711").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S384 | 1 | ("7174156").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S385 | 24 | ("20020057764" \| "20050007999" \| "20060109960" \| "20060233317" \| "20070036139" \| "20070064919" \| "20090238168" \| "20100002701" \| "20150327320" \| "20150358470" \| "20160006882" \| "20160028619" \| "4747124" \| "5742596" \| "5991378" \| "6603977" \| "6961334" \| "7042985" \| "7218722" \| "7366157" \| "7486684" \| "8036366" \| "8594298" \| "9179005").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S386 | 24 | ("20020057764" \| "20050007999" \| "20060109960" \| "20060233317" \| "20070036139" \| "20070064919" \| "20090238168" \| "20100002701" \| "20150327320" \| "20150358470" \| "20160006882" \| "20160028619" \| "4747124" \| "5742596" \| "5991378" \| "6603977" \| "6961334" \| "7042985" \| "7218722" \| "7366157" \| "7486684" \| "8036366" \| "8594298" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:08 |

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|---|---|---|---|---|---|---|
| | | "9179005").PN. | | | | |
| S387 | 43 | ("20050131813" \| "20050171898" \| "20050192897" \| "20050192901" \| "20050222952" \| "20050267842" \| "20060006224" \| "20060036522" \| "20060095320" \| "20060116892" \| "20060195398" \| "20070016524" \| "20140141884" \| "5677955" \| "5883810" \| "6173272" \| "6243689" \| "6636833" \| "6772188" \| "6892184" \| "7051072" \| "7330835" \| "7426492" \| "7437665" \| "7447707" \| "7580886" \| "7593884" \| "7599944" \| "7644037" \| "7647500" \| "7676431" \| "7680737" \| "7734544" \| "7765261" \| "7765266" \| "7882011" \| "7899742" \| "8060887" \| "8161078" \| "8200575" \| "8543477" \| "8627211" \| "8702505").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:08 |
| S388 | 71 | ("20070053382" \| "20090213839" \| "20100083364" \| "20100114896" \| "20100115018" \| "20100142382" \| "20100220852" \| "20100233991" \| "20100278534" \| "20100316195" \| "20110072095" \| "20110167164" \| "20110208859" \| "20110235543" \| "20110273526" \| "20110276903" \| "20110276904" \| "20110292929" \| "20120089717" \| "20120096145" \| "20120155333" \| "20120195236" \| "20120259975" \| "20120270554" \| "20130039226" \| "20130097308" \| "20130128879" \| "20130148549" \| "20130173534" \| "20130229950" \| "20130287006" \| "20130310002" \| "20130318166" \| "20130329722" \| "20130329864" \| "20140010119" \| "20140016764" \| "20140153477" \| "20140215642" \| "20140307858" \| "20140321333" \| "6327351" \| "7203478" \| "7958233" \| "8078164" \| "8127005" \| "8166547" \| "8190739" \| "8223927" \| "8300632" \| "8315521" \| "8396445" \| "8526306" \| "8599747" \| "8599837" \| "8634838" \| "8774378" \| "8819566" \| "8848887" \| "8862701" \| "8885609" \| "8903051" \| "8903360" \| "8909556" \| "8938209" \| "8938534" \| "8948061" \| "8972612" \| "8982719" \| "8995428" \| "9003306").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |
| S389 | 6 | ("20070217354" \| "5917899" \| "6005870" \| "6597783" \| "6873599" \| "7010727").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |
| S390 | 54 | ("0000029" \| "0000030" \| "0000031" \| "0000032" \| "0000033" \| "0000034" \| "0000035" \| "0000036" \| "0000037" \| "0000038" \| "0000039" \| "0000040" \| "0000041" \| "20010027478" \| "20110255553" \| "20110261717" \| "20130223276" \| "20130237198" \| "20130254301" \| "20130272297" \| "20130281147" \| "20140220944" \| "20140227962" \| "20140244393" \| "20140247730" \| "20140269624" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |

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|---|---|---|---|---|---|---|
| | | "20140324969" \| "20140337961" \| "20140349602" \| "6937713" \| "8111690" \| "8219115" \| "8228837" \| "8243730" \| "8275404" \| "8364172" \| "8410907" \| "8417791" \| "8423791" \| "8468196" \| "8493931" \| "8532075" \| "8682919" \| "8713098" \| "8749610" \| "8767717" \| "8774721" \| "8780703" \| "8792374" \| "8792905" \| "8805345" \| "8810392" \| "8837360" \| "8838539").PN. | | | | |
| S391 | 7 | ("6445694" \| "6574328" \| "6785266" \| "7486664" \| "7512117" \| "7587036" \| "7764777").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |
| S392 | 141 | ("20010052081" \| "20020002041" \| "20020018445" \| "20020141352" \| "20030012196" \| "20030095539" \| "20030179747" \| "20030219103" \| "20040034793" \| "20040203565" \| "20040203582" \| "20050063519" \| "20050188081" \| "20050190892" \| "20050202799" \| "20050287979" \| "20060007940" \| "20060013266" \| "20060030290" \| "20060078094" \| "20060142011" \| "20060146797" \| "20060189303" \| "20060205383" \| "20060248186" \| "20060251056" \| "20060268921" \| "20060281437" \| "20070047548" \| "20070092070" \| "20070115935" \| "20070121593" \| "20070174469" \| "20070220038" \| "20070253429" \| "20070263609" \| "20070297376" \| "20080013523" \| "20080056243" \| "20080166999" \| "20080167019" \| "20080167020" \| "20080167039" \| "20080187122" \| "20080188198" \| "20080188227" \| "20080205378" \| "20080310599" \| "20090003535" \| "20090129566" \| "20090135724" \| "20090214000" \| "20090268615" \| "20090296900" \| "20100008345" \| "20100039946" \| "20100105379" \| "20100177671" \| "20100246589" \| "20100272242" \| "20110013541" \| "20110153809" \| "20110176541" \| "20110201321" \| "20110267986" \| "20120014383" \| "20120113981" \| "20120195415" \| "20120250624" \| "20120282881" \| "20120314699" \| "20130272297" \| "20140101749" \| "20140211789" \| "5325421" \| "6553025" \| "6560224" \| "6650641" \| "6775534" \| "6934279" \| "6963739" \| "6985440" \| "6993015" \| "7006508" \| "7027564" \| "7068668" \| "7151772" \| "7177399" \| "7277528" \| "7400881" \| "7436835" \| "7440442" \| "7486667" \| "7567131" \| "7573982" \| "7593390" \| "7639792" \| "7657011" \| "7664495" \| "7676215" \| "7680114" \| "7702308" \| "7715821" \| "7738384" \| "7764944" \| "7797459" \| "7894441" \| "7907551" \| "7929955" \| "7944909" \| "7965645" \| "7979529" \| "7995589" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:10 |

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|---|---|---|---|---|---|---|
| | | "8024785" \| "8027333" \| "8041022" \| "8050273" \| "8125982" \| "8145182" \| "8166533" \| "8189568" \| "8204044" \| "8228897" \| "8244204" \| "8306063" \| "8363647" \| "8427981" \| "8437340" \| "8462915" \| "8509225" \| "8605714" \| "8605869" \| "8607323" \| "8611354" \| "8625578" \| "8724643" \| "8750290" \| "8763081" \| "8768951" \| "8774171" \| "8804705").PN. | | | | |
| S393 | 14 | ("20050198499" \| "20100150138" \| "20100150328" \| "20100172345" \| "20110122827" \| "20120170574" \| "5719926" \| "5722067" \| "5915093" \| "6029062" \| "6249573" \| "7454200" \| "8630234" \| "8675566").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:10 |
| S394 | 137 | ("20020051518" \| "20020116464" \| "20020122391" \| "20030200311" \| "20030219103" \| "20040022237" \| "20040157629" \| "20040165709" \| "20040181599" \| "20040202295" \| "20040240439" \| "20040255126" \| "20050025043" \| "20050083911" \| "20050094651" \| "20050169248" \| "20050174937" \| "20050177843" \| "20060072547" \| "20060072550" \| "20060093135" \| "20060111116" \| "20060153342" \| "20060160565" \| "20060177035" \| "20060209768" \| "20060258328" \| "20060264200" \| "20070036143" \| "20070112964" \| "20070127676" \| "20070253418" \| "20080037715" \| "20080056235" \| "20080056302" \| "20080063153" \| "20090028146" \| "20090135735" \| "20090141883" \| "20090292539" \| "20090325558" \| "20100086119" \| "20100128729" \| "20120099599" \| "20120227101" \| "20130114589" \| "4916491" \| "4992971" \| "5146491" \| "5247571" \| "5303297" \| "5359642" \| "5425085" \| "5440621" \| "5454030" \| "5469497" \| "5506893" \| "5519769" \| "5559871" \| "5590133" \| "5608786" \| "5621787" \| "5633913" \| "5661790" \| "5712907" \| "5724355" \| "5726984" \| "5737414" \| "5751961" \| "5793762" \| "5799072" \| "5802502" \| "5825863" \| "5828740" \| "5838682" \| "5845267" \| "5850433" \| "5864610" \| "5867495" \| "5883891" \| "5889774" \| "5905736" \| "5907547" \| "5910946" \| "5915005" \| "5923659" \| "5930343" \| "5937045" \| "5940598" \| "5953504" \| "5956391" \| "5970477" \| "5974043" \| "5991291" \| "6005926" \| "6014379" \| "6021126" \| "6052445" \| "6058300" \| "6069890" \| "6073013" \| "6078647" \| "6104704" \| "6104711" \| "6115737" \| "6128304" \| "6137869" \| "6141404" \| "6151385" \| "6188752" \| "6282574" \| "6298062" \| "6351464" \| "6359880" \| "6430275" \| "6507644" \| "6597686" \| "6674745" \| "6724860" \| "6744858" \| "6766159" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:11 |

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|---|---|---|---|---|---|---|
| | | "6798767" \| "6819929" \| "6954453" \| "6963557" \| "7046658" \| "7055174" \| "7068772" \| "7079526" \| "7120682" \| "7212522" \| "7454510" \| "7950046" \| "8116307" \| "8422507" \| "8537805" \| "8542815").PN. | | | | |
| S395 | 513 | S382 S383 S384 S385 S386 S387 S388 S389 S390 S391 S392 S393 S394 | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:11 |
| S396 | 21 | S395 AND ((receiv$3 or accept$3 or obtain$3 or recover$3 or retriev$3 or acquir$3 or acquisition) SAME (respons$3 or respond$3 or react$3 or feed$3back$3 or (feed$3 adj3 back) or behaviour or behavior reply$3 return$3 acknowledgment$1 answer$1) SAME (server$4 webserver$4 gate$1way system$4 proxy$4 computer) SAME (location$4 GPS position$4 origin$4 region$4 site coordinat$4 ) NEAR5 (ID identification key flag$4 tagg$4 badge$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 13:45 |
| S397 | 12 | S395 AND ((receiv$3 or accept$3 or obtain$3 or recover$3 or retriev$3 or acquir$3 or acquisition) SAME (respons$3 or respond$3 or react$3 or feed$3back$3 or (feed$3 adj3 back) or behaviour or behavior reply$3 return$3 acknowledgment$1 answer$1) SAME (server$4 webserver$4 gate$1way system$4 proxy$4 computer) SAME (location$4 GPS position$4 origin$4 region$4 site coordinat$4 ) NEAR5 (ID identification key flag$4 tagg$4 badge$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 13:45 |
| S398 | 2 | (US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/08/21 14:47 |
| S399 | 2 | S398 and (wifi wi$1fi wireless cellular ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/08/21 14:47 |
| S401 | 11 | "9179005" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/11/29 23:45 |
| S402 | 2 | (US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 01:18 |
| S403 | 3 | (US-20080056235-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 01:19 |
| S404 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/11/30 01:40 |
| S405 | 1 | "14035806" | US-PGPUB; | OR | ON | 2017/11/30 |

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|---|---|---|---|---|---|---|
| | | | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 13:29 |
| S406 | 3 | (US-20080056235-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 14:49 |
| S407 | 1 | S406 and (connect$4 join$4 link$4 fasten$4 connector$4 hitch$4 ) AND (IP internet$4 adj2 protocol$4) NEAR5 address$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/11/30 14:58 |
| S408 | 1 | S406 and (connect$4 join$4 link$4 fasten$4 connector$4 hitch$4 ) AND (IP internet$4 adj2 protocol$4) WITH address$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/11/30 14:59 |
| S409 | 3 | (US-20080056235-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 16:04 |
| S410 | 3 | S409 and (connect$4 join$4 link$4 fasten$4 connector$4 hitch$4 ) WITH (mobile user adj2 equipment UE mobile adj2 device ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/11/30 16:04 |
| S411 | 1 | (US-20080056235-$).did. | US-PGPUB | OR | ON | 2018/01/16 14:53 |
| S412 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/01/16 14:53 |
| S413 | 0 | S411 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 ) WITH (IP NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 14:54 |
| S414 | 0 | S411 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 return$4 answer$4 ) WITH ( (internet IP) NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 14:56 |
| S415 | 1 | S411 and ( reply echo packet$4 | US-PGPUB; | OR | ON | 2018/01/16 |

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| | | frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 return$4 answer$4 ) SAME ( (internet IP) NEAR10 address$4 ) | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 14:56 |
| S416 | 11 | S412 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 return$4 answer$4 ) SAME ( (internet IP) NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:33 |
| S417 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:40 |
| S418 | 29261 | ( (H04W76/021 OR H04W76/025 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:52 |
| S419 | 56 | S418 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:55 |
| S420 | 9 | S418 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND (@AD <"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:56 |
| S421 | 15 | S418 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND ( (@ad OR @pd OR @rlad OR @prad OR @ptad )<"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:56 |
| S422 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/01/24 19:29 |
| S423 | 0 | S422 and (replay$4 echo adj2 back$4 ) | US-PGPUB; | OR | ON | 2018/01/24 |

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| | | WITH(ip near5 address$4 ) | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 19:30 |
| S424 | 0 | S422 and (replay$4 echo adj2 back$4 ) WITH (ip near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:30 |
| S425 | 14 | S422 and (ip near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:30 |
| S426 | 5 | S422 and (ip near5 address$4 ) and (SMS) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:39 |
| S427 | 5 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/25 13:28 |
| S428 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:33 |
| S429 | 268665 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad < "20080728" @rlad < "20080728") | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:34 |
| S430 | 1 | S429 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:34 |
| S431 | 28075 | ( (H04W76/11 OR H04W76/15 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:34 |
| S432 | 541465 | ("370".clas. "709".clas. "455".clas.) and (@ad < "20080728" @rlad < "20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:34 |
| S433 | 12 | S432 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:34 |
| S434 | 400071 | ("370".clas. "709".clas. "455".clas.) and | US-PGPUB; | OR | ON | 2018/06/27 |

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|---|---|---|---|---|---|---|
| | | (@ad <"20080728" @rlad <"20080728") | USPAT | | | 22:34 |
| S435 | 8 | S434 and ((access adj code) same (channel with (ID identification)) same request) | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:34 |
| S436 | 16903 | ( (H04W76/021 OR H04W76/025 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:35 |
| S437 | 13 | S436 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND ( (@ad OR @pd OR @rlad OR @ prad OR @ptad )<"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:35 |
| S438 | 7 | S436 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND (@AD <"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:35 |
| S439 | 13 | S436 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND ( (@ad OR @pd OR @rlad OR @ prad OR @ptad )<"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:35 |
| S440 | 6917 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2018/06/27 22:36 |
| S441 | 4410 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 22:36 |
| S442 | 4889 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 22:36 |
| S443 | 44 | (S440 S441 S442) AND (plac$3 SAME (wireless mobile cellular ) SAME (voice adj2 over adj2 internet VOIP) same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 22:36 |
| S444 | 0 | ((("BjÃ¶rsell") near3 ("Johan") near3 ("Emil") near3 ("Viktor"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2018/06/27 22:36 |
| S445 | 15 | ((("Sobolyev") near3 ("Maksym"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2018/06/27 22:37 |
| S446 | 8 | ((("Huttunen") near3 ("Pentti") near3 ("Kalevi"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2018/06/27 22:37 |

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| S447 | 4 | ((("Malak") near3 ("Emil"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2018/06/27 22:37 |
| S448 | 8 | ((("VOIP-PAL.COM") near3 ("INC"))).AS,AANM. | USPAT | OR | OFF | 2018/06/27 22:37 |
| S449 | 14 | (("VOIP-PAL.COM") ).AS,AANM. | US-PGPUB; USPAT | OR | OFF | 2018/06/27 22:38 |
| S450 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:38 |
| S451 | 0 | (S444 S445 S446 S447 S448 S449 S450) AND (IP NEAR2 addess$4 AND access ADJ2 code$3 AND (ID identification key location geographical) AND gateway ).clm. | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:41 |
| S452 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2018/06/27 23:10 |
| S453 | 13 | S452 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 23:11 |
| S454 | 6 | S452 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 23:11 |
| S455 | 2 | S452 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) AND (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 23:12 |
| S456 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:12 |
| S457 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US- | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/08/07 22:33 |

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| | | 20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S458 | 7 | S457 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:37 |
| S459 | 6 | S457 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:38 |
| S460 | 6 | S457 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) SAME (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:40 |
| S461 | 4 | (US-20080056235-$ or US-20080160953-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2018/08/07 22:42 |
| S462 | 0 | S461 and ((desination$4 WITH connect$4 with channel$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:43 |
| S463 | 0 | S461 and ((desination$4 SAME connect$4 SAME channel$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:44 |
| S464 | 0 | S461 and ((desination$4 AND connect$4 SAME channel$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:44 |

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| S465 | 1 | S461 and ((destination$4 AND connect$4 SAME channel$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:44 |
| S466 | 23710 | ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) SAME (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2018/08/07 22:55 |
| S467 | 33 | ( (request$4 packet$4 frame$4 data adj3 unit demand$4 query$4 seek$4 ) WITH (location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) WITH (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) WITH reply$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2018/08/07 22:57 |
| S468 | 31 | ( (request$4 packet$4 frame$4 data adj3 unit demand$4 query$4 seek$4 ) WITH (location$4 gps station$4 office$4 site$4 position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) WITH (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) WITH reply$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2018/08/07 23:09 |
| S469 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/08/08 11:58 |
| S470 | 6 | S469 and ((location$4 gps station$4 | US-PGPUB; | OR | ON | 2018/08/08 |

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|---|---|---|---|---|---|---|
| | | office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) SAME (server$4 proxy$4 gateway$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) ) AND (@AD <"20080728") | USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | | | 11:58 |
| S471 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/08/09 10:45 |
| S472 | 6 | S471 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) SAME (server$4 proxy$4 gateway$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/09 10:45 |
| S473 | 1 | (US-20030114145-$).did. | US-PGPUB | OR | ON | 2018/08/09 10:47 |
| S478 | 1 | S473 and (gps location$4 geograph$4) and server$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/09 10:49 |
| S479 | 0 | S473 and (gps location$4 geograph$4) and server$4 and reply$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/09 10:49 |
| S480 | 1 | S473 and (gps location$4 geograph$4) and server$4 and (reply$4 request$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/09 10:49 |
| S481 | 2 | (US-20080056235-$ or US-20030114145-$).did. | US-PGPUB | OR | ON | 2018/08/13 15:27 |

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| S482 | 1 | S481 and (reply$4 echo$4 feedback$4 ack acknowledg$4 ) SAME (location$4 gps geograph$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:32 |
| S483 | 1 | S481 and (reply$4 echo$4 feedback$4 ack acknowledg$4 ) AND (location$4 gps geograph$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:32 |
| S484 | 1 | S481 and (reply$4 echo$4 feedback$4 ack acknowledg$4 ) AND (location$4 gps geograph$6) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:33 |
| S486 | 1 | S481 AND (reply$4 echo$4 feedback$4 ack acknowledg$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:35 |
| S487 | 2 | S481 AND (reply$4 echo$4 feedback$4 ack acknowledg$4 messag$4 packet$4 data adj2 unit$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:35 |
| S488 | 2 | (US-20080056235-$ or US-20030114145-$).did. | US-PGPUB | OR | ON | 2018/12/18 12:05 |
| S492 | 1 | 14/035806.app. | US-PGPUB | OR | ON | 2018/12/18 12:22 |
| S493 | 1 | S488 and (wireless$4 and VOIP ) | US-PGPUB | OR | ON | 2018/12/18 12:23 |
| S494 | 2 | S488 and (wireless$4 and location$4 ) | US-PGPUB | OR | ON | 2018/12/18 12:23 |
| S495 | 2 | S488 and (wireless$4 and (location$4 gps) ) | US-PGPUB | OR | ON | 2018/12/18 12:23 |
| S496 | 2 | S488 and (wireless$4 and (location$4 gps) and (id identification key flag) ) | US-PGPUB | OR | ON | 2018/12/18 12:23 |
| S498 | 9 | "41610774".FMID. | US-PGPUB; USPAT; FPRS | OR | ON | 2019/06/10 02:55 |
| S499 | 0 | ((("BjÃ¶rsell") near3 ("Johan") near3 ("Emil") near3 ("Viktor"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2019/06/10 03:00 |
| S500 | 16 | ((("Sobolyev") near3 ("Maksym"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2019/06/10 03:00 |
| S501 | 10 | ((("Huttunen") near3 ("Pentti") near3 ("Kalevi"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2019/06/10 03:00 |
| S502 | 4 | ((("Malak") near3 ("Emil"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2019/06/10 03:00 |
| S503 | 11 | ((("VOIP-PAL.COM") near3 | USPAT | OR | OFF | 2019/06/10 |

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|---|---|---|---|---|---|---|
| | | ("INC"))).AS,AANM. | | | | 03:00 |
| S504 | 19 | (("VOIP-PAL.COM") ).AS,AANM. | US-PGPUB; USPAT | OR | OFF | 2019/06/10 03:00 |
| S505 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2019/06/10 03:00 |
| S506 | 0 | (S499 S500 S501 S502 S503 S504 S505) AND (IP NEAR2 addess$4 AND access ADJ2 code$3 AND (ID identification key location geographical) AND gateway ).clm. | US-PGPUB; USPAT | OR | ON | 2019/06/10 03:00 |
| S507 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2019/06/10 03:00 |
| S508 | 2 | S507 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) AND (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/06/10 03:00 |
| S509 | 39324 | ( (H04W76/11 OR H04W76/15 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 03:00 |
| S510 | 555 | S509 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) AND (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/06/10 03:00 |
| S511 | 0 | S510 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) SAME (access$4 NEAR5 code$4 ) SAME (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/06/10 03:01 |

**6/10/2019 2:15:14 PM**
**C:\Users\mrahman6\Documents\EAST\Workspaces\14035806_10098_MOBILE GATEWAY_DigifonicaInternational.wsp**

PTO/SB/08 Equivalent

| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No. | 14/035,806 |
|---|---|---|
| | Filing Date | September 24, 2013 |
| | First Named Inventor | Björsell, Johan Emil Viktor |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | Rahman, M. Mostazir |
| SHEET 1 OF 1 | Attorney Docket No. | DIGIF.004C1 |

| U.S. PATENT DOCUMENTS | | | | | |
|---|---|---|---|---|---|
| Examiner Initials | Cite No. | Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1 | Publication Date MM-DD-YYYY | Name | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|---|---|---|---|---|---|---|
| Examiner Initials | Cite No. | Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1 | Publication Date MM-DD-YYYY | Name | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear | T[1] |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---|---|---|---|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[1] |
| | 1 | Canadian Office Action dated August 16, 2016 for Canadian Patent Application No. 2,681,984. | |
| | 2 | European Examination Report dated August 29, 2016 for European Patent Application No. EP 07 855 436.7. | |
| | 3 | Communication under Rule 71(3) EPC - Intention to Grant - dated October 14, 2016 for European Patent Application No. EP 07 816 106.4. | |

24465503
101916

| Examiner Signature | /M Mostazir Rahman/ | Date Considered | 06/10/2019 |
|---|---|---|---|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

T[1] - Place a check mark in this area when an English language Translation is attached.

**To:** patentdocket@tnw.com,warren.archibald@tnw.com,
**From:** PAIR_eOfficeAction@uspto.gov
**Cc:** PAIR_eOfficeAction@uspto.gov
**Subject:** Private PAIR Correspondence Notification for Customer Number 20551

Aug 22, 2019 03:32:19 AM

Dear PAIR Customer:

THORPE NORTH & WESTERN, LLP.
P.O. Box 1219
SANDY, UT 84091-1219
UNITED STATES

The following USPTO patent application(s) associated with your Customer Number, 20551 , have new outgoing correspondence. This correspondence is now available for viewing in Private PAIR.

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| Application | Document | Mailroom Date | Attorney Docket No. |
|---|---|---|---|
| 14035806 | CTFR | 08/22/2019 | 4278-004.PCT.US.CON1 |
| | 892 | 08/22/2019 | 4278-004.PCT.US.CON1 |
| | 1449 | 08/22/2019 | 4278-004.PCT.US.CON1 |
| | 1449 | 08/22/2019 | 4278-004.PCT.US.CON1 |
| | 1449 | 08/22/2019 | 4278-004.PCT.US.CON1 |

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Thank you for prompt attention to this notice,

UNITED STATES PATENT AND TRADEMARK OFFICE

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# REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
## (Submitted Only via EFS-Web)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Application Number | 14/035,806 | Filing Date | 2013-09-24 | Docket Number (if applicable) | 4278-004.PCT.US.CON1 | Art Unit | 2411 |
| First Named Inventor | Johan Emil Viktor Björseii | | | Examiner Name | M. Mostazir Rahman | | |

**This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.**
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

### SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☒ Amendment/Reply
- ☐ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

### MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

### FEES

**The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 200100

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature



T-Mobile Exhibit 1002

PTO/SB/30EFS (03-09)
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| Signature of Registered U.S. Patent Practitioner | | | |
|---|---|---|---|
| Signature | /Sean F. Parmenter/ | Date (YYYY-MM-DD) | 2020-02-24 |
| Name | Sean F. Parmenter | Registration Number | 45357 |

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*



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# Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

# Electronic Patent Application Fee Transmittal

| | |
|---|---|
| **Application Number:** | 14035806 |
| **Filing Date:** | 24-Sep-2013 |
| **Title of Invention:** | MOBILE GATEWAY |
| **First Named Inventor/Applicant Name:** | Johan Emil Viktor Björsell |
| **Filer:** | Sean Franklin Parmenter/Jenny Morison |
| **Attorney Docket Number:** | 4278-004.PCT.US.CON1 |

Filed as Small Entity

**Filing Fees for Utility under 35 USC 111(a)**

| Description | Fee Code | Quantity | Amount | Sub-Total in USD($) |
|---|---|---|---|---|
| **Basic Filing:** | | | | |
| **Pages:** | | | | |
| **Claims:** | | | | |
| **Miscellaneous-Filing:** | | | | |
| **Petition:** | | | | |
| **Patent-Appeals-and-Interference:** | | | | |
| **Post-Allowance-and-Post-Issuance:** | | | | |
| **Extension-of-Time:** | | | | |



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| Description | Fee Code | Quantity | Amount | Sub-Total in USD($) |
|---|---|---|---|---|
| Extension - 3 months with $0 paid | 2253 | 1 | 700 | 700 |
| **Miscellaneous:** | | | | |
| RCE- 2ND AND SUBSEQUENT REQUEST | 2820 | 1 | 950 | 950 |
| | | **Total in USD ($)** | | **1650** |

# Electronic Acknowledgement Receipt

| | |
|---|---|
| **EFS ID:** | 38677583 |
| **Application Number:** | 14035806 |
| **International Application Number:** | |
| **Confirmation Number:** | 5562 |
| **Title of Invention:** | MOBILE GATEWAY |
| **First Named Inventor/Applicant Name:** | Johan Emil Viktor Björsell |
| **Customer Number:** | 20551 |
| **Filer:** | Sean Franklin Parmenter/Jenny Morison |
| **Filer Authorized By:** | Sean Franklin Parmenter |
| **Attorney Docket Number:** | 4278-004.PCT.US.CON1 |
| **Receipt Date:** | 24-FEB-2020 |
| **Filing Date:** | 24-SEP-2013 |
| **Time Stamp:** | 22:35:36 |
| **Application Type:** | Utility under 35 USC 111(a) |

## Payment information:

| | |
|---|---|
| Submitted with Payment | yes |
| Payment Type | CARD |
| Payment was successfully received in RAM | $1650 |
| RAM confirmation Number | E20202NM36432240 |
| Deposit Account | |
| Authorized User | |
| The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: | |

## File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|---|---|---|---|---|---|
| 1 | | FinalOAResponse.pdf | 419684<br>6fad266434181bc9f4aaa59fb103ba2831d85238 | yes | 36 |

| | Multipart Description/PDF files in .zip description | | |
|---|---|---|---|
| | **Document Description** | **Start** | **End** |
| | Amendment Submitted/Entered with Filing of CPA/RCE | 1 | 1 |
| | Claims | 2 | 26 |
| | Applicant Arguments/Remarks Made in an Amendment | 27 | 36 |

**Warnings:**

**Information:**

| | | | | | |
|---|---|---|---|---|---|
| 2 | Request for Continued Examination (RCE) | RCETransmittal.pdf | 79850<br>623493f9717f056a8701a875fd5126744c0da2de | no | 3 |

**Warnings:**

This is not a USPTO supplied RCE SB30 form.

**Information:**

| | | | | | |
|---|---|---|---|---|---|
| 3 | Fee Worksheet (SB06) | fee-info.pdf | 32723<br>0e1fafd5c454716eb70dca5facd26a538187ffdb | no | 2 |

**Warnings:**

**Information:**

| | |
|---|---|
| **Total Files Size (in bytes):** | 532257 |



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**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

| | |
|---|---|
| ART UNIT: 2411<br><br>EXAMINER: M. Mostazir Rahman<br><br>FIRST NAMED INVENTOR: Johan Emil Viktor Björsell<br><br>SERIAL NO.: 14/035,806<br><br>FILED: 9/24/2013<br><br>CONF. NO.: 5562<br><br>FOR: MOBILE GATEWAY<br><br>DOCKET NO.: 4278-004.PCT.US.CON1 | **CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8**<br><br>DATE OF DEPOSIT: February 24, 2020<br><br>I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being submitted on the date indicated above via:<br>☒ EFS Web<br>☐ facsimile to _____<br>☐ the United States Postal Service with sufficient postage as first class mail addressed to: Mail Stop _____, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.<br><br>/Sean F. Parmenter/<br>Sean F. Parmenter |

THORPE NORTH & WESTERN, LLP
Customer No. 20,551
P.O. Box 1219
Sandy, Utah 84091-1219

**AMENDMENT / RESPONSE**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In reply to the Final Office Action dated August 22, 2019, Applicant presents the following amendments and remarks.

**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Summary of Interview** begins on page 27 of this paper.

**Remarks** begin on page 28 of this paper


T-Mobile Exhibit 1002

This listing of claims will replace all prior versions, and listings, of claims in the application:

## LISTING OF CLAIMS

## AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A method of establishing communications between a wireless device and a destination node of a communications network, the method comprising:

receiving from a user of the wireless device a destination node identifier associated with the destination node;

transmitting an access code request message to an access server, the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device;

receiving an access code reply message from the access server in response to the access code request message, the access code reply message including an access code based on the location identifier in the access code request message, the access code identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, the access code being distinct from the destination node identifier; and

in response to receiving the access code reply message, causing the wireless device to use the access code received in the access code reply message to initiate communications from the wireless device to the destination node through the channel identified by the access code, wherein the access code is based on the location identifier transmitted in the access code request message and enables the communications to be established from the wireless device to the destination node through the channel on the gateway identified by the access code.

2. (Original) The method of claim 1, wherein transmitting comprises transmitting the access code request message to the access server on a non-voice network.

3. (Original) The method of claim 1, wherein transmitting comprises transmitting the access code request message as a Short Messaging Service (SMS) message.

4. (Original) The method of claim 1, wherein transmitting comprises transmitting the access code request message on a voice network.

5. (Original) The method of claim 4, wherein transmitting the access code request message on a voice network comprises transmitting the access code request message as a Short Messaging Service (SMS) message.

6. (Original) The method of claim 1, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless device in a wireless Internet Protocol (IP) network.

7. (Original) The method of claim 1, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless device.

8. (Original) The method of claim 1, wherein the location identifier comprises a user-configured identifier of a location associated with the wireless device.

9. (Original) The method of claim 1, wherein receiving the access code reply message comprises receiving the access code reply message from the access server on a non-voice network.

10. (Original) The method of claim 1, wherein receiving the access code reply message comprises receiving the access code reply message as a Short Messaging Service (SMS) message.

11. (Original) The method of claim 1, wherein receiving comprises receiving the access code reply message on a voice network.

12. (Original) The method of claim 11, wherein receiving the access code reply message on a voice network comprises receiving the access code reply message as a Short Messaging Service (SMS) message.

13. (Original) The method of claim 1, wherein receiving the access code reply message comprises receiving, in the access code reply message, an access code temporarily associated with the destination node identifier.

14. (Original) The method of claim 1, wherein receiving the access code reply message comprises receiving, in the access code reply message, a telephone number or an Internet Protocol (IP) address.

15. (Original) The method of claim 14, wherein establishing communications between the wireless device and the destination node comprises engaging a routing controller to route the call on a public switched telephone network (PSTN) or an IP network to the destination node.

16. (Original) The method of claim 1 further comprising:

receiving at the access server, the access code request message from the wireless device;

causing the access server to communicate with a routing controller to obtain from the routing controller the access code, wherein the access code identifies a communications channel associated with the location identifier and wherein the access code is useable by the wireless device in a subsequent communication to cause the routing controller to establish a call to the destination node using the communications channel; and

causing the access server to transmit the access code reply message to the wireless device.

17. (Original) The method of claim 16, wherein transmitting the access code reply message comprises transmitting the access code reply message as a Short Messaging Service (SMS) message.

18. (Original) The method of claim 16, wherein transmitting the access code reply message comprises transmitting the access code reply message on a voice network.

19. (Original) The method of claim 18, wherein transmitting the access code reply message on a voice network comprises transmitting the access code request message as a Short Messaging Service (SMS) message.

20. (Previously Presented) A wireless apparatus comprising:

means for receiving from a user of the wireless apparatus a destination node identifier associated with a destination node with which the user wishes to communicate;

means for transmitting an access code request message to an access server, the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless apparatus;

means for receiving an access code reply message from the access server in response to the access code request message, the access code reply message including an access code based on the location identifier in the access code request message, the access code identifying a communications channel on a gateway through which communications between the wireless apparatus and the destination node can be conducted, the access code being distinct from the destination node identifier; and

means for causing the wireless apparatus to establish communications with the destination node through the communications channel identified by the access code in the access code reply message, the access code being based on the location identifier transmitted in the access code request message.

21. (Previously presented) The apparatus of claim 20, wherein the means for transmitting comprises a non-voice network interface for transmitting the access code request message to the access server on a non-voice network.

22. (Original) The apparatus of claim 20, wherein the means for transmitting includes means for transmitting the access code request message as a Short Messaging Service (SMS) message.

23. (Original) The apparatus of claim 20, wherein the means for transmitting comprises means for transmitting the access code request message on a voice network.

24. (Original) The apparatus of claim 23, wherein the means for transmitting the access code request message on a voice network comprises means for transmitting the access code request message as a Short Messaging Service (SMS) message.

25. (Original) The apparatus of claim 20, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless apparatus in a wireless IP network.

26. (Original) The apparatus of claim 20, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless apparatus.

27. (Original) The apparatus of claim 20, wherein the location identifier comprises a user-configured identifier of a location associated with the wireless apparatus.

28. (Original) The apparatus of claim 20, wherein the means for receiving an access code reply message comprises a non-voice network interface for receiving the access code reply message on a non-voice network.

29. (Original) The apparatus of claim 20, wherein the means for receiving the access code request message comprises means for receiving the access code request message as a Short Messaging Service (SMS) message.

30. (Currently Amended) The apparatus of claim 20, wherein the means for receiving the access code request message comprises means for receiving the access code request message on a voice network.

31. (Original) The apparatus of claim 30, wherein the means for receiving the access code request message on a voice network comprises means for receiving the access code request message as a Short Messaging Service (SMS) message.

32. (Original) The apparatus of claim 20, wherein the access code includes a telephone number or an IP address.

33. (Currently Amended) The wireless apparatus of claim 20, wherein the means for causing the wireless apparatus to establish~~establishing~~ communications comprises a mobile telephone network interface.

34. (Previously presented) A system for enabling roaming by a wireless apparatus, the system comprising the wireless apparatus of claim 20 and further comprising:

a routing controller;

the access server, wherein the access server comprises:

means for receiving from the wireless apparatus the access code request message;

means for communicating with the routing controller to obtain from the routing controller the access code wherein the access code identifies a communications channel associated with the location identifier and wherein the access code is useable by the wireless apparatus to cause the routing controller to establish a call to the destination node using the communications channel; and

means for transmitting the access code reply message including the access code to the wireless apparatus.

35. (Original) The system of claim 34, wherein the means for transmitting the access code reply message comprises means for transmitting the access code reply message as a Short Messaging Service (SMS) message.

36. (Original) The system of claim 34, wherein the means for transmitting the access code reply message comprises means for transmitting the access code reply message on a voice network.

37. (Original) The system of claim 36, wherein the means for transmitting the access code reply message on a voice network comprises means for transmitting the access code request message as a Short Messaging Service (SMS) message.

38. (Previously Presented) A wireless apparatus comprising:

a processor circuit comprising at least one processor;

a network interface in communication with the processor circuit; and

a non-transitory computer readable medium having computer executable codes stored thereon for directing the processor circuit to:

receive from a user of the wireless apparatus a destination node identifier associated with a destination node with which the user wishes to communicate;

transmit an access code request message to an access server, the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless apparatus;

receive an access code reply message from the access server in response to the access code request message, the access code reply message including an access code based on the location identifier in the access code request message, the access code identifying a communications channel on a gateway through which communications between the wireless apparatus and the destination node can be conducted, the access code being distinct from the destination node identifier; and

initiate communications from the wireless apparatus, via the network interface, using the access code based on the location identifier, to establish communications between the wireless apparatus and the destination node through the communications channel identified by the access code.

39. (Original) The apparatus of claim 38, wherein the network interface comprises a non-voice network interface, and wherein the codes for directing the processor circuit to cause the access code request message to be transmitted include codes for directing the processor circuit to cause the access code request message to be transmitted to the access server using the non-voice network interface on a non-voice network.

40. (Original) The apparatus of claim 38, wherein the codes for directing the processor circuit to cause an access code to be transmitted to the access code server include codes for directing the processor circuit to cause the access code request message to be transmitted as a Short Messaging Service (SMS) message.

41. (Original) The apparatus of claim 38, wherein the network interface comprises a voice network interface and wherein the codes for directing the processor circuit to cause an access code to be transmitted to the access code server include codes for directing the processor circuit to cause the access code request message to be transmitted on a voice network.

42. (Original) The apparatus of claim 41, wherein the codes for directing the processor circuit to cause an access code to be transmitted to the access code server include codes for directing the processor circuit to cause the access code request message to be transmitted as a Short Messaging Service (SMS) message on the voice network.

43. (Original) The wireless apparatus of claim 38, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless apparatus in a wireless IP network.

44. (Original) The wireless apparatus of claim 38, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless apparatus.

45. (Original) The wireless apparatus of claim 38, wherein the location identifier comprises a user-configured identifier of a location associated with the wireless apparatus.

46. (Original) The wireless apparatus of claim 38, wherein the network interface comprises a non-voice network interface, and wherein the codes for directing the processor circuit to receive an access code reply message include codes for directing the processor circuit to cause the access code reply message to be received from the access server using the non-voice network interface on a non-voice network.

47. (Original) The wireless apparatus of claim 38, wherein the access code includes a telephone number or an IP address.

48. (Previously presented) The wireless apparatus of claim 38, wherein the network interface comprises a mobile telephone network interface, and wherein the codes for directing the

processor circuit to establish communications between the wireless apparatus and the destination node to include codes for directing the processor circuit to cause a call to be initiated using the mobile telephone network interface on a mobile telephone network.

49. (Original) A system for enabling roaming by a wireless apparatus, the system comprising the wireless apparatus of claim 38 and further comprising:

a routing controller; and

an access server comprising a processor circuit and a computer readable medium in communication with the processor circuit, the computer readable medium encoded with codes for directing the processor circuit of the access server to:

receive the access code request message from the wireless apparatus;

communicate with the routing controller to obtain from the routing controller the access code wherein the access code identifies a communications channel associated with the location identifier and wherein the access code is useable by the wireless apparatus to cause the routing controller to establish a call to the destination node using the communications channel; and

transmit the access code reply message to the wireless apparatus.

50. (Previously Presented) A non-transitory computer readable medium having stored thereon computer executable codes for directing a processor circuit of a wireless device to establish communications with a destination node on a network, the codes comprising codes for directing the processor circuit to:

cause the wireless device to receive from a user of the wireless device a destination node identifier associated with the destination node;

cause the wireless device to transmit an access code request message to an access server, the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device;

cause the wireless device to receive an access code reply message comprising an access code identifying an Internet Protocol (IP) address based on the location identifier in the access code request message, the access code representing a communications channel of a

network element in the network through which communications between the wireless device and the destination node can be conducted, the communications channel being associated with the geographical location of the wireless device, the access code being distinct from the destination node identifier; and

cause the wireless device to use the access code comprising the Internet Protocol (IP) address based on the location identifier to establish communications between the wireless device and the destination node through the communications channel of the network element identified by the access code.

51. (Previously Presented) A method for enabling a wireless device to establish communications with a destination node, the method comprising:

receiving from the wireless device an access code request message including a destination node identifier associated with the destination node and a location identifier identifying a geographical location of the wireless device;

in response to receiving the access code request message, causing a routing controller to produce an access code identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, the access code being based on the location identifier of the access code request message received from the wireless device, wherein the access code is useable by the wireless device to initiate communications with the destination node through the communications channel; and

transmitting, to the wireless device, an access code reply message including the access code based on the location identifier, to cause the wireless device to use the access code to initiate communications with the destination node through the communications channel.

52. (Original) The method of claim 51, wherein receiving comprises receiving the access code request message on a non-voice network.

53. (Original) The method of claim 51, wherein receiving the access code request message comprises receiving the access code request message as a Short Messaging Service (SMS) message.

54. (Original) The method of claim 51, wherein receiving comprises receiving the access code request message on a voice network.

55. (Original) The method of claim 54, wherein receiving the access code request message on a voice network comprises receiving the access code request message as a Short Messaging Service (SMS) message.

56. (Original) The method of claim 51, wherein the routing controller is operably configured to route a call between the wireless device and the destination node when the wireless device uses the access code to establish communications between the wireless device and the destination node.

57. (Original) The method of claim 51, wherein causing the routing controller to produce the access code comprises causing the access code to be selected from a pool of access codes.

58. (Original) The method of claim 57 further comprising determining from the location identifier a local calling area associated with the wireless device and causing the access server to select an access code associated with a calling area matching the local calling area associated with the wireless device.

59. (Original) The method of claim 57, further comprising accessing a location field of a dialing profile associated with the wireless device when a local calling area cannot be determined from the location identifier and determining a local calling area associated with the wireless device from the contents of the location field and selecting an access code associated with a calling area matching the local calling area associated with the wireless device.

60. (Original) The method of claim 51, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless device in a wireless IP network.

61. (Original) The method of claim 51, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless device.

62. (Original) The method of claim 51, wherein the location identifier comprises a user-configured identifier of a location associated with the wireless device.

63. (Original) The method of claim 57, wherein at least one of the access codes in the pool of access codes identifies an IP network address as a possible communications channel through which the communications can be conducted.

64. (Previously presented) The method of claim 51, wherein the access code identifies an IP network address as a possible communications channel through which the communications can be conducted, the method further comprising enabling communications between the wireless device and the destination node to be established through an IP network in response to a call received at the IP network address from the wireless device using the access code identifying the IP network address.

65. (Original) The method of claim 57, wherein at least one of the access codes identifies a telephone number as a possible communications channel through which the communications can be conducted.

66. (Original) The method of claim 65, further comprising enabling communications between the wireless device and the destination node to be established through a public switched telephone network (PSTN) in response to a call received at the telephone number from the wireless device using the access code identifying the telephone number.

67. (Original) The method of claim 51, wherein the access code request message includes a caller identifier and wherein the method further comprises associating the caller identifier included in the access code request message with the access code produced by the routing controller.

68. (Original) The method of claim 64, further comprising enabling the routing controller to facilitate communications in response to use of the access code by the wireless device

only if the caller identifier associated with the access code used by the wireless device to establish communications with the destination node identifies the wireless device.

69. (Original) The method of claim 67, further comprising associating the destination node identifier included in the access code request message with the access code produced by the routing controller.

70. (Original) The method of claim 69, wherein the associating the caller identifier and the destination node identifier with the selected access code occurs only when:

a) the access code is not already associated with a destination node identifier; or

b) the access code is already associated with another destination node identifier, and a timeout value associated with the another destination node identifier has expired.

71. (Original) The method of claim 51, further comprising causing a timestamp to be associated with the access code, for use in determining when the usability of the access code to initiate a call to the destination node will expire, and causing the timestamp to be included in the access code reply message transmitted to the wireless device.

72. (Original) The method of claim 70, further comprising causing communications to be permitted between the wireless device and the destination node when the wireless device seeks to establish a call to the destination node using the access code transmitted in the access code reply message when the timestamp associated with the access code indicates the usability of the access code has not expired, and causing the communications to be prevented when the timestamp indicates the usability of the access code has expired.

73. (Original) The method of claim 51, wherein transmitting comprises transmitting the access code reply message on a non-voice network.

74. (Original) The method of claim 51, wherein transmitting the access code reply message comprises transmitting the access code reply message as a Short Messaging Service (SMS) message.

75. (Original) The method of claim 51, wherein transmitting comprises transmitting the access code reply message on a voice network.

76. (Original) The method of claim 75, wherein transmitting the access code reply message on a voice network comprises transmitting the access code reply message as a Short Messaging Service (SMS) message.

77. (Previously Presented) An apparatus for enabling a wireless device to establish communications with a destination node, the apparatus comprising:

means for receiving from the wireless device an access code request message including a destination node identifier associated with the destination node and a location identifier identifying a geographical location of the wireless device;

means for causing a routing controller to produce an access code identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, in response to receiving the access code request message, such that the access code is produced based on the location identifier of the access code request message received from the wireless device and such that the access code is useable by the wireless device to initiate communications with the destination node through the communications channel; and

means for transmitting an access code reply message including the access code to the wireless device, wherein the access code in the access code reply message is based on the location identifier and is used by the wireless device to initiate communications with the destination node through the communication channel on the gateway.

78. (Original) The apparatus of claim 77, wherein the means for receiving comprises a non-voice network interface for receiving the access code request message on a non-voice network.

79. (Original) The apparatus of claim 77, wherein the means for receiving the access code request message comprises means for receiving the access code request message as a Short Messaging Service (SMS) message.

80. (Original) The apparatus of claim 77, wherein the means for receiving comprises means for receiving the access code request message on a voice network.

81. (Original) The apparatus of claim 80, wherein the means for receiving the access code request message on a voice network comprises means for receiving the access code request message as a Short Messaging Service (SMS) message.

82. (Original) The apparatus of claim 77, further comprising the routing controller and wherein routing controller is operably configured to route a call between the wireless device and the destination node.

83. (Original) The apparatus of claim 82, wherein the routing controller is operably configured to select the access code from a pool of access codes.

84. (Original) The apparatus of claim 83, wherein the routing controller is operably configured to determine a local calling area associated with the wireless device from the location identifier and to select an access code associated with a calling area matching the local calling area associated with the wireless device.

85. (Original) The apparatus of claim 83, further comprising:

a dialing profile associated with the wireless device, the dialing profile including a location field; and

wherein the routing controller is operably configured to determine a local calling area associated with the wireless device from the contents of the location field and to select an access code associated with a calling area matching the local calling area associated with the wireless device, when a local calling area associated with the wireless device cannot be determined from the location identifier.

86. (Original) The apparatus of claim 77, wherein the location identifier includes an Internet Protocol (IP) address of the wireless device in a wireless IP network.

87. (Original) The apparatus of claim 77, wherein the location identifier includes an identifier of a wireless voice signal station in wireless communication with the wireless device.

88. (Original) The apparatus of claim 77, wherein the location identifier includes a user-configured identifier of a location associated with the wireless device.

89. (Original) The apparatus of claim 83, wherein at least one of the access codes in the pool of access codes identifies an IP network address as a possible communications channel through which the communications can be conducted.

90. (Previously presented) The apparatus of claim 77, wherein the access code identifies an IP network address as a possible communications channel through which the communications can be conducted, and wherein the routing controller is operably configured to enable communications between the wireless device and the destination node to be established through an IP network in response to a call received at the IP network address from the wireless device using the access code identifying the IP network address.

91. (Original) The apparatus of claim 83, wherein at least one of the access codes in the pool of access codes identifies a telephone number as a possible communications channel through which the communications can be conducted.

92. (Original) The apparatus of claim 91, wherein the routing controller is operably configured to enable communications between the wireless device and the destination node to be established through a public switched telephone network (PSTN) in response to a call received at the telephone number from the wireless device using the access code identifying the telephone number.

93. (Original) The apparatus of claim 83, wherein the access code request message includes a caller identifier and wherein the routing controller is operably configured to associate the caller identifier with the selected access code.

94. (Original) The apparatus of claim 93, wherein the routing controller is operably configured to facilitate communications between the wireless device and the destination node in

response to use of the access code by the wireless device only if the caller identifier associated with the access code used by the wireless device to establish communications with the destination node identifies the wireless device.

95. (Original) The apparatus of claim 93, wherein the routing controller is operably configured to associate the destination node identifier included in the access code request message with the selected access code.

96. (Original) The apparatus of claim 95, wherein the routing controller is operably configured to associate the caller identifier and the destination node identifier with the selected access code only when:

a) the access code is not already associated with a destination node identifier; or

b) the access code is already associated with another destination node identifier, and a timeout value associated with the another destination node identifier has expired.

97. (Original) The apparatus of claim 82, wherein the routing controller is operably configured to associate a timestamp with the access code, for use in determining when the usability of the access code to initiate a call to the destination node will expire, and to cause the timestamp to be included in the access code reply message transmitted to the wireless device.

98. (Original) The apparatus of claim 97, wherein the routing controller is operably configured to enable communications to be established between the wireless device and the destination node when the wireless device seeks to establish a call to the destination node using the access code transmitted in the access code reply message when the timestamp associated with the access code indicates the usability of the access code has not expired and to prevent the communications from being established when the timestamp indicates the usability of the access code has expired.

99. (Original) The apparatus of claim 77, wherein the means for transmitting comprises a non-voice network interface for transmitting the access code reply message on a non-voice network.

100. (Original) The apparatus of claim 77, wherein the means for transmitting the access code reply message comprises means for transmitting the access code reply message as a Short Messaging Service (SMS) message.

101. (Original) The apparatus of claim 77, wherein the means for transmitting comprises means for transmitting the access code reply message on a voice network.

102. (Previously presented) The apparatus of claim 101, wherein the means for transmitting the access code reply message on a voice network comprises means for transmitting the access code reply message as a Short Messaging Service (SMS) message.

103. (Previously Presented) An apparatus for enabling a wireless device to establish communications with a destination node, the apparatus comprising:

a processor circuit including at least one processor;

a network interface in communication with the processor circuit; and

a non-transitory computer readable medium having stored thereon computer executable codes for directing the at least one processor to:

receive from the wireless device an access code request message including a destination node identifier associated with the destination node and a location identifier identifying a geographical location of the wireless device;

cause a routing controller to produce an access code identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, in response to receiving the access code request message, such that the access code is produced based on the location identifier of the access code request message received from the wireless device and such that the access code is useable by the wireless device to initiate communications with the destination node through the communications channel; and

transmit an access code reply message including the access code to the wireless device, wherein the access code in the access code reply message is based on

the location identifier and is used by the wireless device to initiate communications with the destination node through the communication channel.

104. (Original) The apparatus of claim 103, wherein the network interface comprises a non-voice network interface, and wherein the codes for directing the processor circuit to receive include codes for directing the processor circuit to cause the access code request message to be received using the non-voice network interface on a non-voice network.

105. (Original) The apparatus of claim 103, wherein the codes includes codes for directing the processor circuit to receive the access code request message as a Short Messaging Service (SMS) message.

106. (Original) The apparatus of claim 103, wherein the codes include codes for directing the processor circuit to receive the access code request message on a voice network.

107. (Original) The apparatus of claim 106, wherein the codes include codes for directing the processor circuit to receive the access code request message as a Short Messaging Service (SMS) message.

108. (Original) The apparatus of claim 103 further comprising the routing controller.

109. (Previously presented) The apparatus of claim 108, wherein the routing controller is operably configured to cause the access code to be selected from a pool of access codes, wherein none of the access codes in the pool of access codes identifies a respective telephone number.

110. (Original) The apparatus of claim 109, wherein the routing controller is operably configured to determine from the location identifier a local calling area associated with the wireless device and to select an access code associated with a calling area matching the local calling area associated with the wireless device.

111. (Original) The apparatus of claim 109, wherein the routing controller is operably configured to access a location field of a dialing profile associated with the wireless device when a

local calling area cannot be determined from the contents of the location identifier and to determine a local calling area associated with the wireless device from the contents of the location field and to select an access code associated with a calling area matching the local calling area associated with the wireless device.

112. (Original) The apparatus of claim 103, wherein the location identifier comprises an Internet Protocol (IP) address of the wireless device in a wireless IP network.

113. (Original) The apparatus of claim 103, wherein the location identifier comprises an identifier of a wireless voice signal station in wireless communication with the wireless device.

114. (Original) The apparatus of claim 103, wherein the location identifier comprises a user-configured identifier of a location associated with the wireless device.

115. (Original) The apparatus of claim 109, wherein at least one of the access codes in the pool of access codes identifies an IP network address as a possible communications channel through which the communications can be conducted.

116. (Previously presented) The apparatus of claim 103, wherein the access code identifies an IP network address as a possible communications channel through which the communications can be conducted, and wherein the routing controller is operably configured to enable communications between the wireless device and the destination node to be established through an IP network in response to a call received at the IP network address from the wireless device using the access code identifying the IP network address.

117. (Previously presented) The apparatus of claim 108, wherein the routing controller is operably configured to cause the access code to be selected from a pool of access codes, and wherein at least one of the access codes in the pool of access codes identifies a telephone number as a possible communications channel through which the communications can be conducted.

118. (Original) The apparatus of claim 117, wherein the routing controller is operably configured to enable communications between the wireless device and the destination node to be

established through a public switched telephone network (PSTN) in response to a call received at the telephone number from the wireless device using the access code identifying the telephone number.

119. (Previously presented) The apparatus of claim 108, wherein the access code request message includes a caller identifier and wherein the routing controller is operably configured to associate the caller identifier included in the access code request message with an access code selected by the routing controller.

120. (Previously presented) The apparatus of claim 119, wherein the routing controller is operably configured to facilitate communications between the wireless device and the destination node in response to the access code used by the wireless device only if the caller identifier associated with the access code used by the wireless device to establish communications with the destination node identifies the wireless device.

121. (Original) The apparatus of claim 119, wherein the routing controller is operably configured to associate the destination node identifier included in the access code request message with the selected access code.

122. (Original) The apparatus of claim 121, wherein the routing controller is operably configured to associate the caller identifier and the destination node identifier with the selected access code only when:

a) the access code is not already associated with another destination node identifier; or

b) the access code is already associated with a destination node identifier, and a timeout value associated with the another destination node identifier has expired.

123. (Original) The apparatus of claim 122, wherein the routing controller is operably configured to associate a timestamp with the access code, for use in determining when the usability of the access code to initiate a call to the destination node will expire, and to cause the timestamp to be included in the access code reply message.

124. (Previously presented) The apparatus of claim 103, wherein the routing controller is operably configured to enable communications to be established between the wireless device and the destination node when the wireless device seeks to establish a call to the destination node using the access code transmitted in the access code reply message when a timestamp associated with the access code indicates that usability of the access code has not expired and to prevent the communications from being established when the timestamp indicates that the usability of the access code has expired.

125. (Original) The apparatus of claim 103, wherein the network interface comprises a non-voice network interface, and wherein codes for directing the processor circuit to transmit include codes for directing the processor circuit to cause the access code reply message to be transmitted using the non-voice network interface on a non-voice network.

126. (Original) The apparatus of claim 103, wherein the codes include codes for directing the processor circuit to cause the access code reply message to be transmitted as a Short Messaging Service (SMS) message.

127. (Original) The apparatus of claim 103, wherein the codes include codes for directing the processor circuit to cause the access code reply message to be transmitted on a voice network.

128. (Original) The apparatus of claim 127, wherein the codes include codes for directing the processor circuit to cause the access code reply message to be transmitted as a Short Messaging Service (SMS) message.

129. (Previously Presented) A non-transitory computer readable medium encoded with computer executable codes for directing a processor circuit of a wireless device to establish communications with a destination node, the codes comprising codes for directing the processor circuit to:

receive from the wireless device an access code request message including a destination node identifier associated with the destination node and a location identifier identifying a geographical location of the wireless device;

cause a routing controller to produce an access code comprising an Internet Protocol (IP) network address identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, in response to receiving the access code request message, such that the access code is produced based on the location identifier of the access code request message received from the wireless device and such that the access code is useable by the wireless device to initiate communications with the destination node through the communications channel; and

transmit an access code reply message including the access code to the wireless device, wherein the Internet Protocol (IP) address of the access code is based on the location identifier and is used by the wireless device to initiate communications with the destination node through the communication channel on the gateway.

130. (Previously Presented) A method of operating an apparatus for enabling a wireless device to establish communications with a destination node, the method comprising:

receiving from the wireless device a request message including a destination node identifier associated with the destination node and a location identifier associated with a geographical location of the wireless device, wherein the location identifier comprises a first Internet Protocol (IP) address associated with the wireless device;

in response to receiving the request message, producing an access code identifying a second Internet Protocol (IP) address associated with a IP network communication device through which communications between the wireless device and the destination node can be conducted, wherein the access code is produced based on the location identifier received from the wireless device, wherein the access code is useable by the wireless device to initiate communications with the destination node through the IP network communication device; and

transmitting a reply message including the access code to the wireless device, wherein the second Internet Protocol (IP) address is based on the location identifier and is used by the

wireless device to initiate communications with the destination node through the communication channel on the IP network communication device.

131. (Previously presented) The method of claim 130 wherein the access code is produced based on the destination node identifier.

132. (Previously presented) The method of claim 131 wherein the destination node identifier comprises a phone number associated with the destination node.

133. (Previously presented) The method of claim 130 further comprising, if the destination node is a PSTN telephone on the public switched telephone network (PSTN), establishing communications from the wireless device to a communications supplier gateway operable to connect to the PSTN telephone via the public switched telephone network (PSTN).

134. (Previously presented) The method of claim 51, wherein causing the routing controller to produce the access code further comprises:

determining, from the location identifier, a current location of the wireless device; and

searching an access code association database table to identify an access code associated with the current location of the wireless device but not presently associated with communications to any destination node, to produce the access code transmitted in the access code reply message.

135. (Previously presented) The method of claim 1 wherein the access code request message is transmitted from the wireless device via a WiFi network and the access code reply message is received by the wireless device via the WiFi network.

136. (Previously presented) The method of claim 1, wherein the destination node identifier and the location identifier are transmitted at the same time.

137. (Previously Presented) The method of claim 51, wherein the access code is based on an area code corresponding to a location identified by the location identifier.

138. (Previously presented) The method of claim 51, wherein the access code reply message identifies an Internet Protocol (IP) network address of the communications channel through which the communications can be conducted, wherein the access code is useable by the wireless device to initiate the communications with the destination node through the communications channel.

139. (Previously presented) The apparatus of claim 103, wherein the access code reply message identifies an Internet Protocol (IP) network address associated with the communications channel through which the communications can be conducted, wherein the Internet Protocol (IP) network address is useable by the wireless device to initiate the communications with the destination node through the communications channel.

140. (Previously presented) The method of claim 1, further comprising:

(a) receiving, in the access code reply message, an Internet Protocol (IP) address; and

(b) establishing the communications between the wireless device and the destination node based on the Internet Protocol (IP) address received in the access code reply message.

141. (Previously presented) The method of claim 1, wherein the access code received in the access code reply message does not comprise a telephone number.

## REMARKS

In response to the Office Action dated November 22, 2019, no claims are canceled or added. Claims 30 and 33 have been amended to correct minor typographical issues.

Claims 1-141 are thus pending. Claims 1, 20, 38, 50, 51, 77, 103, 129 and 130 are the independent claims.

### ***Discussion of 35 U.S.C. §112***

Applicant acknowledges that certain means-plus-function elements of claims 20-37 and 77-102 should be interpreted in accordance with pre-AIA 35 U.S.C. 112, sixth paragraph to cover corresponding steps and structure disclosed in the specification for the claimed function, and equivalents thereof, but Applicant should not be taken as necessarily agreeing with some or all of the identifications of corresponding steps or structure in the Office action. Applicant has explained in a previous paper (July 14, 2016) that particular portions of the published specification disclose steps and structure that correspond to the recited means.

### ***Discussion of Claim Rejections under 35 U.S.C. §103(a)***

Claims 1-129 and 134-141 were rejected under pre-*AIA* 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. Publication No. 20080056235A1 ("Albina") in view of U.S. Pat. Publication No. 20070286170A1 ("Kahn") and further in view of U.S. Pat. Publication No. 20070230423A1 ("Yoshida"). Claims 130-133 were rejected under pre-*AIA* 35 U.S.C. 103(a) as being unpatentable over Albina in view of Kahn and further in view of U.S. Pat. Publication No. 20040240439A1 ("Castleberry").

The standard for obviousness has been addressed by the Supreme Court in *KSR International Co. v. Teleflex Inc.* 127 S. Ct. 1727 (2007) (hereinafter, "*KSR*"). In *KSR*, the Supreme Court affirmed that the factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1 (1966), form the basis of the obviousness inquiry. Accordingly, obviousness is a question of law based on underlying factual inquiries. The Graham factual inquiries are: (1) determining the scope and content of the prior art; (2) ascertaining the differences between the claimed

invention and the prior art; (3) resolving the level of ordinary skill in the pertinent art; and (4) considering objective evidence indicating obviousness or non-obviousness.

With reference to at least the second *Graham* factual inquiry, Applicant respectfully submits that important differences exist between the claimed invention and the cited prior art, as will be explained below, and in view of these differences, it is respectfully submitted that the cited prior art references do not provide a proper basis for a rejection under 35 U.S.C. § 103(a).

Applicant respectfully submits that the current Office Action overlooks that the proposed combination of Albina, Kahn and Yoshida fails to supply all the elements recited in Applicant's claims 1-129 and 134-141 and that the proposed combination of Albina, Kahn and Castleberry likewise fails to supply all of the elements in Applicant's claims 130-133. Thus, the proposed combinations are incapable of rendering the claimed invention obvious.

The Court in *KSR* also indicated that a proper finding of obviousness requires an explicit analysis based on an "apparent reason to combine the known elements in the fashion claimed by the patent at issue," and has warned against basing such an analysis on hindsight. *KSR*, pp. 14 and 17. In the present case, the Office action has provided insufficient explanation of how or why the cited references would have been combined by a skilled person without using hindsight.

Albina

Albina discloses a system of establishing a VoIP communication between a mobile device and a VoIP destination device through a PSTN-to-VoIP gateway. *See* Abstract, Fig. 1. The system of Albina discloses the use of a temporary directory number (TDN) associated with the VoIP destination device for use in establishing the communication. *See* [0007]-[0011].

Kahn

Kahn discloses a system for processing a communication request from a VoIP terminal and a mechanism to determine if the terminal is roaming. *See* Abstract. Kahn uses the MAC address of a gateway connected to a VoIP terminal in order to determine if the VoIP terminal is at its home location "by way of detecting a mismatch between the MAC address received and that of its home network." *See* [0029], [0030], [0031]. In some embodiments, location information can be supplied from the VoIP terminal. *See* Fig. 3 (steps 318, 326), [0025], [0032], [0033].

However, in Kahn, the determination of whether the VoIP terminal is roaming and/or the location information from the VoIP terminal is used simply to provide location information to public service access (PSAP) services. *See* Fig. 3 (step 312), [0004], [0014], [0031], [0032].

Yoshida

Yoshida discloses a wireless LAN in which terminals can communicate either directly or via an access point. *See* Abstract. Yoshida discloses that inter-terminal direct communication can take place over a different channel than communications between a terminal and an access point. *See* Abstract, [0021], [0026], [0028]. In the system of Yoshida, a terminal negotiates with an access point based on its capabilities to support inter-terminal direct communication and permission to communicate can be granted by the access point. *See* [0010], [0011], [0023].

Castleberry

Castleberry discloses a method of intercepting call content in a packet-based Internet Protocol (IP) network. *See* Abstract. The system of Castleberry includes a Softswitch 20 and an Intercept Router 22 which are utilized to intercept VoIP communications for law enforcement purposes. *See* [0018]-[0020].

**Independent Claim 1**

Claim 1 recites:

1. A method of establishing communications between a wireless device and a destination node of a communications network, the method comprising:

receiving from a user of the wireless device a destination node identifier associated with the destination node;

transmitting an access code request message to an access server, the access code request message including the destination node identifier and a location identifier identifying a geographical location of the wireless device;

receiving an access code reply message from the access server in response to the access code request message, the access code reply message including an access code based

on the location identifier in the access code request message, the access code identifying a communications channel on a gateway through which communications between the wireless device and the destination node can be conducted, the access code being distinct from the destination node identifier; and

in response to receiving the access code reply message, causing the wireless device to use the access code received in the access code reply message to initiate communications from the wireless device to the destination node through the channel identified by the access code, wherein the access code is based on the location identifier transmitted in the access code request message and enables the communications to be established from the wireless device to the destination node through the channel on the gateway identified by the access code.

[emphasis added]

Claim 1 recites, *inter alia*, an "access code reply message including an access code based on the location identifier in the access code request message" and "causing the wireless device to use the access code received in the access code reply message to initiate communications from the wireless device to the destination node through the channel identified by the access code" The cited references fail to disclose or suggest this claim limitation, whether the references are taken alone or in combination.

In the Office Action, the Examiner states that: "Albina appears silent on … the access code reply message including an access code based on the location identifier in the access code request message … causing the wireless device to use the access code received in the access code reply message to initiate communications from the wireless device to the destination node through the channel identified by the access code" (*see* Office Action at 8) and relies on the combination of Kahn and Yoshida to supply these missing elements.

However, the apparently missing elements of Albina are not cured by Kahn and Yoshida. Kahn discloses the transmission of location information, but does not disclose a reply message that includes an access code based on the location information, and furthermore doesn't disclose a reply message that causes the wireless device to initiate communications using information in the reply message. Kahn discloses only the use of location information so that it can be supplied to

PSAP (*i.e.*, emergency 911) services. Kahn does not appear to disclose any communication back to VoIP terminal that is based on the location information.

The Examiner cites to Kahn paragraph [0031] in connection with the claimed feature of the "access code reply message including an access code based on the location identifier in the access code request message" (*see* Office Action at 9), but the Examiner does not specifically identify precisely *what* in the paragraph corresponds to the claimed "access code." In fact, Kahn doesn't appear to disclose sending any information back to the VoIP terminal based on the location information. As discussed above, Kahn only discloses the location information used by the network proxy so that it can be sent to the PSAP. No location-based information needs be sent to the VoIP terminal. *See* Kahn at Fig. 3 (step 312), [0004], [0014], [0031], [0032].

The Examiner also cites to Kahn paragraphs [0011], [0028] and [0033] in connection with the claimed feature of "causing the wireless device to use the access code received in the access code reply message to initiate communications from the wireless device to the destination node" (*see* Office Action at 9), but the Examiner still does not specifically identify *what* in these paragraphs corresponds to the claimed "access code." The Examiner asserts that Kahn discloses that "[t]wo Voice Over IP (VoIP) terminals communicate with each other using gateway" (*see* Office Action at 9), however, this disclosure is not sufficient to necessarily disclose the claimed features. As noted above, Kahn only discloses that the location information is used so that it can be sent to the PSAP. Ultimately, there is no disclosure in Kahn of sending anything like an access code back to the VoIP terminal that is "based on the location identifier in the access code request message," and which the VoIP terminal would then use to "initiate communications … to the destination node," as recited in pending claim 1. *See* Kahn at Fig. 3 (step 312), [0004], [0014], [0031], [0032].

The Examiner also states that the combination of Albina and Kahn "does not explicitly disclose: "causing the wireless device ... [to] initiate communications … through the channel on the gateway identified by the access code" (*see* Office Action at 10) and relies on Yoshida to supply the missing claim elements.

However, the addition of Yoshida to the combination of Albina and Kahn still does not disclose nor render obvious the claimed features. Yoshida discloses a wireless LAN in which terminals can communicate directly and through an access point. Yoshida does not utilize

location information for the terminals and does not disclose an access code that is based on a location identifier. Even accepting, *arguendo*, that Yoshida discloses the identification of a channel in an access code and the initiation of communication using such an access code, this still does not disclose nor render obvious the claimed features because there is no disclosure of an "access code reply message including an access code based on the location identifier in the access code request message." Yoshida discloses very specific techniques for a wireless communication system that have no bearing on the subject-matter of the claims. Indeed, Yoshida appears to be non-analogous art.

Neither Albina nor Yoshida appear to disclose the use of location information for a wireless device, and, as already discussed above, the location information disclosed in Kahn is used by the network proxy but not to generate an "access code reply message". Thus, the Office action has not presented any plausible reason or way, absent reliance on impermissible hindsight, for a skilled person to combine Albina, Kahn and Yoshida so as to provide all of the features recited in claim 1. Accordingly, the Office action has not established a *prima facie* case of obviousness of claim 1. It is respectfully submitted that the obviousness rejection of claim 1 under § 103 is improper and should be withdrawn.

In addition, the Office action is incomplete because it does not clearly state what elements in the cited patent references correspond to what claimed features, nor does it explain the manner in which they will function together in the proposed combination. "In rejecting claims for want of novelty or for obviousness, the examiner must cite the best references at his or her command. When a reference is complex or shows or describes inventions other than that claimed by the applicant, the particular part relied on must be designated as nearly as practicable. The pertinence of each reference, if not apparent, must be clearly explained and each rejected claim specified." *See* 37 C.F.R. § 1.104 (c)(2). Therefore, this Office action should be withdrawn and replaced with a complete *non-final* Office action.

**Independent Claim 130**

Claim 130 recites, *inter alia*, "transmitting a reply message including the access code to the wireless device, wherein the second Internet Protocol (IP) address is based on the location identifier and is used by the wireless device to initiate communications with the destination node

through the communication channel on the IP network communication device." However, the cited references, whether alone or in combination, fail to disclose or suggest this claim limitation.

The Examiner rejected independent claim 130 over the combination of Albina, Kahn and Castleberry under essentially the same basis as claim 1 was rejected over the combination of Albina, Kahn and Yoshida. *See* Office Action at 51-58. The substitution of Castleberry for Yoshida does not supply the claim elements that the Office action believes are missing from claim 1.

Castleberry discloses a system in which a determination is made that a communication is to be intercepted and communication takes place through an Intercept Router 22. See Castleberry at [0017]-[0021]. The combination of Albina, Kahn and Castleberry still does not disclose or suggest the claimed features because there is no disclosure of an "access code reply message including an access code based on the location identifier in the access code request message." Neither Albina nor Yoshida appear to disclose the use of location information for a wireless device. Furthermore, the IP address of the target 12 in Castleberry is used by the Softswitch 20 to configure Intercept Router 22, but not to generate an "access code reply message" that is sent to the target 12. *See* Castleberry at Fig. 7, [0039]. In fact, it would defeat the purpose of Castleberry if a message were sent to the target 12 that was based on whether the communication was being intercepted since the goal of Castleberry's invention is to prevent the target 12 from being aware that communications are being monitored. *See* Castleberry at [0003]. Thus, the Office action suggests no plausible reason or way to combine Albina, Kahn and Castleberry so as to provide all of the features recited in claim 1.

**Independent Claims 20, 38, 50, 51, 77, 103 and 129**

Applicant respectfully submits that each of the independent Claims 20, 38, 50, 51, 77, 103, 129 and 130 recite elements similar to the elements discussed above regarding Claim 1, for example:

(a) claim 20 recites, *inter alia*, "means for causing the wireless apparatus to establish communications with the destination node through the communications channel identified by the access code in the access code reply message, the access code being based on the location identifier transmitted in the access code request message";

(b) claim 38 recites, *inter alia*, "initiate communications from the wireless apparatus, via the network interface, using the access code based on the location identifier, to establish communications between the wireless apparatus and the destination node through the communications channel identified by the access code";

(c) claim 50 recites, *inter alia*, "cause the wireless device to use the access code comprising the Internet Protocol (IP) address based on the location identifier to establish communications between the wireless device and the destination node through the communications channel of the network element identified by the access code";

(d) claim 51 recites, *inter alia*, "the access code being based on the location identifier of the access code request message received from the wireless device, wherein the access code is useable by the wireless device to initiate communications with the destination node through the communications channel";

(e) claim 77 recites, *inter alia*, "means for transmitting an access code reply message including the access code to the wireless device, wherein the access code in the access code reply message is based on the location identifier and is used by the wireless device to initiate communications with the destination node through the communication channel on the gateway";

(f) claim 103 recites, *inter alia*, "transmit an access code reply message including the access code to the wireless device, wherein the access code in the access code reply message is based on the location identifier and is used by the wireless device to initiate communications with the destination node through the communication channel"; and

(g) claim 129 recites, *inter alia*, "transmit an access code reply message including the access code to the wireless device, wherein the Internet Protocol (IP) address of the access code is based on the location identifier and is used by the wireless device to initiate communications with the destination node through the communication channel on the gateway."

Thus, for reasons similar to those given above, *mutatis mutandis*, it is respectfully submitted that the Examiner's rejections under 35 U.S.C. §103(a) of each of Applicant's independent claims 20, 38, 50, 51, 77, 103 and 129 are improper and should be withdrawn.

**Discussion of Dependent Claims**

Although Applicant has not addressed the dependent claims, Applicant respectfully submits that Applicant does not necessarily agree with the characterization and assessments of the dependent claims in the Office action, and Applicant believes that each of the dependent claims is patentable on its own merits.

In particular, Applicant respectfully submits that claims 2-19, 21-37, 39-49, 52-76, 78-102, 104-128 and 131-137 should be allowable over the cited references due to their respective direct or indirect dependence from one of independent claims 1, 20, 38, 51, 77, 103, and 130, and also due to the additional subject-matter that each of these dependent claims recites.

***Co-Pending Applications of Assignee***

Applicant wishes to draw the Examiner's attention to the following co-pending applications assigned to Applicant's assignee.

| **Serial No.** | **Title** | **Filed** |
|---|---|---|
| 14/853705 | Determining A Time To Permit A Communications Session To Be Conducted | Sep. 14, 2015 |
| 15/861572 | Intercepting Voice Over IP Communications and Other Data Communications | Jan. 3, 2018 |
| 15/421058 | Emergency Assistance Calling For Voice Over IP Communications Systems | Jan. 31, 2017 |
| 16/030761 | Uninterrupted Transmission Of Internet Protocol Transmissions During Endpoint Changes | July 9, 2018 |
| 16/285162 | Producing Routing Messages For Voice Over IP Communications | Feb. 25, 2019 |

**CONCLUSION**

Although the present communication includes alterations to and/or characterizations of the claims, Applicant does not concede in this communication that previously pending claims are not patentable over the cited references. Rather, any alterations or characterizations are being made to facilitate expeditious prosecution of this application. Applicant reserves the right to pursue at a later date any previously pending or other broader or narrower claims that capture any subject matter supported by the present disclosure, including subject matter found to be specifically disclaimed herein or by any prior prosecution. Accordingly, reviewers of this or any parent, child

or related prosecution history shall not reasonably infer that Applicant has made any disclaimers or disavowals of any subject matter supported by the present application.

Applicant has endeavored to address all of the Examiner's concerns as expressed in the outstanding Office Action. If the Examiner has any outstanding concerns following this response, Applicant respectfully requests an Interview with the Examiner to be able to address any such outstanding concerns as expeditiously as possible.

In light of the above, Applicant respectfully submits that pending claims 1-141 are now in condition for allowance. Applicant requests that the rejections and objections be withdrawn, and that the claims be allowed and passed to issue. If any impediment to the allowance of these claims remains after entry of this Amendment, the Examiner is strongly encouraged to call Sean F. Parmenter at (801) 566-6633 so that such matters may be resolved expeditiously.

The Commissioner is hereby authorized to charge any additional fee or to credit any overpayment in connection with this Amendment to Deposit Account No. 20-0100.

DATED this 24th day of February, 2020.

Respectfully submitted,

/Sean F. Parmenter/

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SE/jm

PTO/SB/06 (09-11)
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| PATENT APPLICATION FEE DETERMINATION RECORD<br>Substitute for Form PTO-875 | Application or Docket Number<br>14/035,806 | Filing Date<br>09/24/2013 | ☐ To be Mailed |
|---|---|---|---|

**ENTITY:** ☐ LARGE ☑ SMALL ☐ MICRO

**APPLICATION AS FILED - PART I**

| FOR | (Column 1)<br>NUMBER FILED | (Column 2)<br>NUMBER EXTRA | | RATE ($) | FEE ($) |
|---|---|---|---|---|---|
| ☐ BASIC FEE (37 CFR 1.16(a), (b), or (c)) | N/A | N/A | | N/A | |
| ☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m)) | N/A | N/A | | N/A | |
| ☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q)) | N/A | N/A | | N/A | |
| TOTAL CLAIMS (37 CFR 1.16(i)) | minus 20 = | * | | x $40 = | |
| INDEPENDENT CLAIMS (37 CFR 1.16(h)) | minus 3 = | * | | x $210 = | |
| ☐ APPLICATION SIZE FEE (37 CFR 1.16(s)) | If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). | | | | |
| ☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j)) | | | | | |
| * If the difference in column 1 is less than zero, enter "0" in column 2. | | | | TOTAL | |

**APPLICATION AS AMENDED - PART II**

| | | (Column 1) | | (Column 2) | (Column 3) | | | |
|---|---|---|---|---|---|---|---|---|
| AMENDMENT | 02/24/2020 | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | | RATE ($) | ADDITIONAL FEE ($) |
| | Total (37 CFR 1.16(i)) | * 141 | Minus | ** 141 | = 0 | | x $50 = | 0 |
| | Independent (37 CFR 1.16(h)) | * 9 | Minus | *** 9 | = 0 | | x $230 = | 0 |
| | ☐ Application Size Fee (37 CFR 1.16(s)) | | | | | | | |
| | ☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) | | | | | | | |
| | | | | | | | TOTAL ADD'L FEE | 0 |

| | | (Column 1) | | (Column 2) | (Column 3) | | | |
|---|---|---|---|---|---|---|---|---|
| AMENDMENT | | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA | | RATE ($) | ADDITIONAL FEE ($) |
| | Total (37 CFR 1.16(i)) | * | Minus | ** | = | | x $0 = | |
| | Independent (37 CFR 1.16(h)) | * | Minus | *** | = | | x $0 = | |
| | ☐ Application Size Fee (37 CFR 1.16(s)) | | | | | | | |
| | ☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) | | | | | | | |
| | | | | | | | TOTAL ADD'L FEE | |

| | |
|---|---|
| * If the entry in column 1 is less than the entry in column 2, write "0" in column 3. | LIE |
| ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". | /JAMES E MASON/ |
| *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". | |
| The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1. | |

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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# NOTICE OF ALLOWANCE AND FEE(S) DUE

20551 7590 05/13/2020

THORPE NORTH & WESTERN, LLP.
P.O. Box 1219
SANDY, UT 84091-1219

| EXAMINER | |
|---|---|
| RAHMAN, M MOSTAZIR | |
| ART UNIT | PAPER NUMBER |
| 2411 | |

DATE MAILED: 05/13/2020

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 14/035,806 | 09/24/2013 | Johan Emil Viktor Björsell | 4278-004.PCT.US.CON1 | 5562 |

TITLE OF INVENTION: MOBILE GATEWAY

| APPLN. TYPE | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|---|---|---|---|---|---|---|
| nonprovisional | SMALL | $500 | $0.00 | $0.00 | $500 | 08/13/2020 |

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

**HOW TO REPLY TO THIS NOTICE:**

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

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By fax, send to: (571)-273-2885

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THORPE NORTH & WESTERN, LLP.
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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

| (Typed or printed name) |
|---|
| (Signature) |
| (Date) |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 14/035,806 | 09/24/2013 | Johan Emil Viktor Björsell | 4278-004.PCT.US.CON1 | 5562 |

TITLE OF INVENTION: MOBILE GATEWAY

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|---|---|---|---|---|---|---|
| nonprovisional | SMALL | $500 | $0.00 | $0.00 | $500 | 08/13/2020 |

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|---|---|---|
| RAHMAN, M MOSTAZIR | 2411 | 370-328000 |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

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(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

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❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
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| 14/035,806 | 09/24/2013 | Johan Emil Viktor Björsell | 4278-004.PCT.US.CON1 | 5562 |

20551 7590 05/13/2020

THORPE NORTH & WESTERN, LLP.
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| EXAMINER | |
|---|---|
| RAHMAN, M MOSTAZIR | |
| ART UNIT | PAPER NUMBER |
| 2411 | |

DATE MAILED: 05/13/2020

**Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## Privacy Act Statement

**The Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

| Notice of Allowability | Application No. 14/035,806 | Applicant(s) Björsell et al. | |
|---|---|---|---|
| | Examiner M MOSTAZIR RAHMAN | Art Unit 2411 | AIA (FITF) Status No |

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 02/24/2020.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 1-141 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   **Certified copies:**

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   **Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

| /M Mostazir Rahman/<br>Examiner, Art Unit 2411 | /ANDREW LAI/<br>Supervisory Patent Examiner, Art Unit 2411 |
|---|---|

## DETAILED ACTION

### *Notice of Pre-AIA or AIA Status*

The present application is being examined under the pre-AIA first to invent provisions.

### *Continued Examination Under 37 CFR 1.114*

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on ***02/24/2020*** has been entered.

### *Allowable Subject Matter*

**Claims 1-141** are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

***Regarding independent claim 1:***

The prior art of record fails to teach *"in response to receiving the access code reply message, causing the wireless device to use the access code received in the access code reply message to initiate communications from the wireless device to the destination node through the channel identified by the access code, wherein the access*

*code is based on the location identifier transmitted in the access code request message and enables the communications to be established from the wireless device to the destination node through the channel on the gateway identified by the access code."* as substantially described in independent claim 1. These limitations, in combination with the other features of claim 1, are not taught nor suggested by the prior art of record. Accordingly, applicant's claim is allowed for these reasons and for the reasons recited by the applicant remarks filed on February 24th, 2020.

***Regarding independent claim 20:***

The prior art of record fails to teach *" means for receiving an access code reply message from the access server in response to the access code request message, the access code reply message including an access code based on the location identifier in the access code request message, .. means for causing the wireless apparatus to establish communications with the destination node through the communications channel identified by the access code in the access code reply message, the access code being based on the location identifier transmitted in the access code request message."* as substantially described in independent claim 20. These limitations, in combination with the other features of claim 20, are not taught nor suggested by the prior art of record. Accordingly, applicant's claim is allowed for these reasons and for the reasons recited by the applicant remarks filed on February 24th, 2020.

***Regarding independent claim 38:***

The prior art of record fails to teach *" initiate communications from the wireless apparatus, via the network interface, using the access code based on the location identifier, to establish communications between the wireless apparatus and the destination node through the communications channel identified by the access code."* as substantially described in independent claim 38. These limitations, in combination with the other features of claim 38, are not taught nor suggested by the prior art of record. Accordingly, applicant's claim is allowed for these reasons and for the reasons recited by the applicant remarks filed on February 24th, 2020.

***Regarding independent claim 50:***

The prior art of record fails to teach *"cause the wireless device to use the access code comprising the Internet Protocol (IP) address based on the location identifier to establish communications between the wireless device and the destination node through the communications channel of the network element identified by the access code."* as substantially described in independent claim 50. These limitations, in combination with the other features of claim 50, are not taught nor suggested by the prior art of record. Accordingly, applicant's claim is allowed for these reasons and for the reasons recited by the applicant remarks filed on February 24th, 2020.

***Regarding independent claim 51:***

The prior art of record fails to teach *"transmitting, to the wireless device, an access code reply message including the access code based on the location identifier, to cause the wireless device to use the access code to initiate communications with the destination*

*node through the communications channel."* as substantially described in independent claim 51. These limitations, in combination with the other features of claim 51, are not taught nor suggested by the prior art of record. Accordingly, applicant's claim is allowed for these reasons and for the reasons recited by the applicant remarks filed on February 24th, 2020.

***Regarding independent claim 77:***

The prior art of record fails to teach *"means for transmitting an access code reply message including the access code to the wireless device, wherein the access code in the access code reply message is based on the location identifier and is used by the wireless device to initiate communications with the destination node through the communication channel on the gateway."* as substantially described in independent claim 77. These limitations, in combination with the other features of claim 77, are not taught nor suggested by the prior art of record. Accordingly, applicant's claim is allowed for these reasons and for the reasons recited by the applicant remarks filed on February 24th, 2020.

***Regarding independent claim 103:***

The prior art of record fails to teach *"transmit an access code reply message including the access code to the wireless device, wherein the access code in the access code reply message is based on the location identifier and is used by the wireless device to initiate communications with the destination node through the communication channel."* as substantially described in independent claim 103. These limitations, in

combination with the other features of claim 103, are not taught nor suggested by the prior art of record. Accordingly, applicant's claim is allowed for these reasons and for the reasons recited by the applicant remarks filed on February 24th, 2020.

***Regarding independent claim 129:***

The prior art of record fails to teach *"transmit an access code reply message including the access code to the wireless device, wherein the Internet Protocol (IP) address of the access code is based on the location identifier and is used by the wireless device to initiate communications with the destination node through the communication channel on the gateway."* as substantially described in independent claim 129. These limitations, in combination with the other features of claim 129, are not taught nor suggested by the prior art of record. Accordingly, applicant's claim is allowed for these reasons and for the reasons recited by the applicant remarks filed on February 24th, 2020.

***Regarding independent claim 130:***

The prior art of record fails to teach *"transmitting a reply message including the access code to the wireless device, wherein the second Internet Protocol (IP) address is based on the location identifier and is used by the wireless device to initiate communications with the destination node through the communication channel on the IP network communication device."* as substantially described in independent claim 130. These limitations, in combination with the other features of claim 130, are not taught nor suggested by the prior art of record. Accordingly, applicant's claim is allowed for these

reasons and for the reasons recited by the applicant remarks filed on February 24th, 2020.

Application's all dependent claims are allowed for the same reason as set forth above for their respective independent claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**CONCLUSION**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M MOSTAZIR RAHMAN whose telephone number is (571)272-4785. The examiner can normally be reached on 8:30am-5:00pm PST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ANDREW LAI can be reached on 571-272-9741. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M MOSTAZIR RAHMAN/
Examiner, Art Unit 2411

/ANDREW LAI/
Supervisory Patent Examiner, Art Unit 2411

| Search Notes | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | Examiner | Art Unit |
| | M MOSTAZIR RAHMAN | 2411 |

| CPC - Searched* | | |
|---|---|---|
| Symbol | Date | Examiner |
| H04W76/021 OR H04W76/025 OR H04W8/02 | 11/29/2015 | MR |

| CPC Combination Sets - Searched* | | |
|---|---|---|
| Symbol | Date | Examiner |
| | | |

| US Classification - Searched* | | | |
|---|---|---|---|
| Class | Subclass | Date | Examiner |
| | | | |

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

| /M MOSTAZIR RAHMAN/<br>Examiner.Art Unit 2411 | |
|---|---|

| Search Notes | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | Examiner | Art Unit |
| | M MOSTAZIR RAHMAN | 2411 |

| Search Notes | | |
|---|---|---|
| **Search Notes** | **Date** | **Examiner** |
| EAST Search: 1)keyword search in USPAT, US-PGPUB, DERWENT , EPO, JPO, IBM_TDB; | 11/29/2015 | MR |
| class/subclasses with keyword, inventors, assignee | 11/29/2015 | MR |
| Inventor and assignee search in EAST, eDAN and PALM. | 11/29/2015 | MR |
| NPL Search: IP.COM | 11/29/2015 | MR |
| Updated search | 10/16/2016 | MR |
| Consulted with SPE, Andrew Lai | 10/18/2016 | MR |
| Updated search | 11/15/2016 | MR |
| Updated search | 08/21/2017 | MR |
| Updated search | 06/27/2018 | MR |
| Updated search | 08/07/2018 | MR |
| Updated search | 06/10/2019 | MR |
| Consulted with SPE, Andrew Lai | 06/11/2019 | MR |
| Updated search | 08/13/2019 | MR |
| Consulted with SPE, Andrew Lai | 04/28/2020 | MR |
| Updated search | 05/05/2020 | MR |

| Interference Search | | | |
|---|---|---|---|
| **US Class/CPC Symbol** | **US Subclass/CPC Group** | **Date** | **Examiner** |
| Please see search report | | 05/05/2020 | MR |

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| /M MOSTAZIR RAHMAN/<br>Examiner.Art Unit 2411 | |

| Issue Classification | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | **Examiner** | **Art Unit** |
| | M MOSTAZIR RAHMAN | 2411 |

| CPC | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Symbol** | | | | | | **Type** | **Version** |
| H04W | / | 8 | / | 02 | | F | 2013-01-01 |
| H04W | / | 76 | / | 11 | | I | 2018-02-01 |
| H04W | / | 76 | / | 15 | | A | 2018-02-01 |

| CPC Combination Sets | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Symbol** | | | | | | **Type** | **Set** | **Ranking** | **Version** |
| | / | | / | | | | | | |

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|---|---|---|---|
| /M Mostazir Rahman/<br>Examiner, Art Unit 2411 | 05 May 2020 | **Total Claims Allowed:** | |
| (Assistant Examiner) | (Date) | 141 | |
| /ANDREW LAI/<br>Supervisory Patent Examiner, Art Unit 2411 | 07 May 2020 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 1 | 1 |

U.S. Patent and Trademark Office — Part of Paper No.: 20200505

| Issue Classification | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | **Examiner** | **Art Unit** |
| | M MOSTAZIR RAHMAN | 2411 |

| INTERNATIONAL CLASSIFICATION | | | | |
|---|---|---|---|---|
| **CLAIMED** | | | | |
| H04W | / | 8 | / | 02 |

| NON-CLAIMED | | | | |
|---|---|---|---|---|
| H04W | / | 76 | / | 11 |

| US ORIGINAL CLASSIFICATION | |
|---|---|
| **CLASS** | **SUBCLASS** |
| | |

| CROSS REFERENCES(S) | | | | | | |
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| **CLASS** | **SUBCLASS (ONE SUBCLASS PER BLOCK)** | | | | | |
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| /M Mostazir Rahman/<br>Examiner, Art Unit 2411 | 05 May 2020 | **Total Claims Allowed:** | |
| (Assistant Examiner) | (Date) | 141 | |
| /ANDREW LAI/<br>Supervisory Patent Examiner, Art Unit 2411 | 07 May 2020 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 1 | 1 |

U.S. Patent and Trademark Office — Part of Paper No.: 20200505

| Issue Classification | Application/Control No. | Applicant(s)/Patent Under Reexamination |
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| | 14/035,806 | Björsell et al. |
| | **Examiner** | **Art Unit** |
| | M MOSTAZIR RAHMAN | 2411 |

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

**CLAIMS**

| Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | | 19 | | 37 | | 55 | | 73 | | 91 | | 109 | | 127 |
| | 2 | | 20 | | 38 | | 56 | | 74 | | 92 | | 110 | | 128 |
| | 3 | | 21 | | 39 | | 57 | | 75 | | 93 | | 111 | | 129 |
| | 4 | | 22 | | 40 | | 58 | | 76 | | 94 | | 112 | | 130 |
| | 5 | | 23 | | 41 | | 59 | | 77 | | 95 | | 113 | | 131 |
| | 6 | | 24 | | 42 | | 60 | | 78 | | 96 | | 114 | | 132 |
| | 7 | | 25 | | 43 | | 61 | | 79 | | 97 | | 115 | | 133 |
| | 8 | | 26 | | 44 | | 62 | | 80 | | 98 | | 116 | | 134 |
| | 9 | | 27 | | 45 | | 63 | | 81 | | 99 | | 117 | | 135 |
| | 10 | | 28 | | 46 | | 64 | | 82 | | 100 | | 118 | | 136 |
| | 11 | | 29 | | 47 | | 65 | | 83 | | 101 | | 119 | | 137 |
| | 12 | | 30 | | 48 | | 66 | | 84 | | 102 | | 120 | | 138 |
| | 13 | | 31 | | 49 | | 67 | | 85 | | 103 | | 121 | | 139 |
| | 14 | | 32 | | 50 | | 68 | | 86 | | 104 | | 122 | | 140 |
| | 15 | | 33 | | 51 | | 69 | | 87 | | 105 | | 123 | | 141 |
| | 16 | | 34 | | 52 | | 70 | | 88 | | 106 | | 124 | | |
| | 17 | | 35 | | 53 | | 71 | | 89 | | 107 | | 125 | | |
| | 18 | | 36 | | 54 | | 72 | | 90 | | 108 | | 126 | | |

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|---|---|---|---|
| /M Mostazir Rahman/<br>Examiner, Art Unit 2411 | 05 May 2020 | **Total Claims Allowed:** | |
| (Assistant Examiner) | (Date) | 141 | |
| /ANDREW LAI/<br>Supervisory Patent Examiner, Art Unit 2411 | 07 May 2020 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 1 | 1 |

U.S. Patent and Trademark Office — Part of Paper No.: 20200505

| Index of Claims | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | Examiner | Art Unit |
| | M MOSTAZIR RAHMAN | 2411 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ✓ | Rejected | - | Cancelled | N | Non-Elected | A | Appeal |
| = | Allowed | ÷ | Restricted | I | Interference | O | Objected |

| CLAIMS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ☐ Claims renumbered in the same order as presented by applicant | | | | | | ☐ CPA | ☐ T.D. | ☐ R.1.47 | | |
| CLAIM | | DATE | | | | | | | | |
| Final | Original | 11/25/2015 | 10/16/2016 | 08/21/2017 | 08/03/2018 | 08/13/2019 | 05/05/2020 | | | |
| | 1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 10 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 11 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 12 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 13 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 14 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 15 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
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| | 18 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 19 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 20 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
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| | 22 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 23 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 24 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 25 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 26 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 27 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 28 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 29 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 30 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 31 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 32 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 33 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 34 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 35 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 36 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 37 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 38 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 39 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 40 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 41 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 42 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

| Index of Claims | Application/Control No. | Applicant(s)/Patent Under Reexamination |
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| | **Examiner** | **Art Unit** |
| | M MOSTAZIR RAHMAN | 2411 |

| CLAIM | | DATE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Final | Original | 11/25/2015 | 10/16/2016 | 08/21/2017 | 08/03/2018 | 08/13/2019 | 05/05/2020 | | | |
| | 43 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 44 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 45 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 46 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 47 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 48 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 49 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 51 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 52 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 53 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 54 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 55 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 56 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 57 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 58 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 59 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 61 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 62 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 63 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 64 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 65 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 66 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 67 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 68 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 69 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 70 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 71 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 72 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 73 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 74 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 75 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 76 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 77 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 78 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 79 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 80 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 81 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 82 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 83 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 84 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 85 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 86 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 87 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 88 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 89 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 90 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 91 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 92 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 93 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 94 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

| Index of Claims | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | Examiner | Art Unit |
| | M MOSTAZIR RAHMAN | 2411 |

| CLAIM | | DATE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Final | Original | 11/25/2015 | 10/16/2016 | 08/21/2017 | 08/03/2018 | 08/13/2019 | 05/05/2020 | | | |
| | 95 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 96 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 97 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 98 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 99 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 100 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 101 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 102 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 103 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 104 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 105 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 106 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 107 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 108 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 109 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 110 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 111 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 112 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 113 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 114 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 115 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 116 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 117 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 118 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 119 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 120 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 121 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 122 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 123 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 124 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 125 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 126 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 127 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 128 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 129 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 130 | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 131 | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 132 | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 133 | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 134 | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| | 135 | | | ✓ | ✓ | ✓ | ✓ | | | |
| | 136 | | | ✓ | ✓ | ✓ | ✓ | | | |
| | 137 | | | ✓ | ✓ | ✓ | ✓ | | | |
| | 138 | | | | ✓ | ✓ | ✓ | | | |
| | 139 | | | | ✓ | ✓ | ✓ | | | |
| | 140 | | | | ✓ | ✓ | ✓ | | | |
| | 141 | | | | ✓ | ✓ | ✓ | | | |

# Bibliographic Data

Application No: 14/035,806

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /M Mostazir Rahman/ (Examiner's Signature) | (Initials)

Title: MOBILE GATEWAY

| FILING or 371(c) DATE | CLASS | GROUP ART UNIT | ATTORNEY DOCKET NO. |
|---|---|---|---|
| 09/24/2013 | 370 | 2411 | 4278-004.PCT.US.CON1 |
| RULE | | | |

**APPLICANTS**

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**INVENTORS**

Johan Emil Viktor Björsell Vancouver, CANADA

Maksym Sobolyev New Westminster, CANADA

Pentti Kalevi Huttunen Vancouver, CANADA

Emil Malak Vancouver, CANADA

**CONTINUING DATA**

This application is a CON of 13056277 01/27/2011 PAT 8630234

13056277 is a 371 of PCT/CA2009/001062 07/28/2009

PCT/CA2009/001062 has PRO of 61129898 07/28/2008

**FOREIGN APPLICATIONS**

**IF REQUIRED, FOREIGN LICENSE GRANTED****

10/08/2013

**** SMALL ENTITY ****

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**FILING FEE RECEIVED**

$6,140

**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 11 | ((("VOIP-PAL.COM") near3 ("INC"))).AS,AANM. | USPAT | OR | ON | 2020/05/05 19:25 |
| L2 | 16 | ((("Sobolyev") near3 ("Maksym"))).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2020/05/05 19:25 |
| L3 | 10 | ((("Huttunen") near3 ("Pentti") near3 ("Kalevi"))).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2020/05/05 19:25 |
| L4 | 4 | ((("Malak") near3 ("Emil"))).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2020/05/05 19:25 |
| L5 | 29 | (digifonica).as,AANM. | US-PGPUB; USPAT | OR | ON | 2020/05/05 19:25 |
| L6 | 20 | ((("VOIP-PAL.COM") )).AS,AANM. | US-PGPUB; USPAT | OR | ON | 2020/05/05 19:25 |
| L7 | 0 | (L6 L5 L4 L3 L2 L1) AND (source$4 and destinat$4 and (access$4 NEAR4 (code$4 id idenfication$4 key flag$4 ) ) AND (location$4 gps) AND (reply$4 feedback$4 ) ).clm. | US-PGPUB; USPAT | OR | ON | 2020/05/05 19:25 |
| L8 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US- | US-PGPUB; USPAT; DERWENT | OR | OFF | 2020/05/05 19:25 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| L9 | 2 | L8 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) AND (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2020/05/05 19:25 |
| L10 | 582394 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2020/05/05 19:25 |
| L11 | 12 | L10 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2020/05/05 19:25 |
| L12 | 3 | (L6 L5 L4 L3 L2 L1) AND ( (destinat$4 UE terminal$4 phone mobile$4 WTRU STA STA TE TA ) and (access$4 AND (code$4 id idenfication$4 key flag$4 ) ) AND (location$4 gps) AND (reply$4 feedback$4 ) ).clm. | US-PGPUB; USPAT | OR | ON | 2020/05/05 19:27 |
| L13 | 45 | ( reply$3 feedback$4 feed$1back$3 acknowledg$4 ACK respons$4) NEAR3 (messag$4 packet$4 frame$1 PDU data adj2 gram$1 data adj2 unit$4 ) SAME access$3 NEAR3 code$3 SAME (location$3 GPS position$4 coordinat$4 latitud$4 ) NEAR5 (identifier$3 ID information$4 data$1) SAME (request$4 demand$4 ask$4 query$4 solicit$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/05 19:27 |
| L14 | 34 | ( (server$4 gatewar$4 rout$4) NEAR6 (reply$4 feed$1back$4 feedbck$1 acknowledg$5 ACK) NEAR5 (channel$4 frequency$4 path$4 rout$4 access$1 near2 code$4) SAME (location$4 gps$4 ) NEAR5 (WD wireless adj2 device$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/05 19:27 |


T-Mobile Exhibit 1002

| | | | | | | |
|---|---|---|---|---|---|---|
| | | WTRU terminal TA TE user adj2 equipment UE STA STB) ) AND (@AD <"20080728" ) | | | | |
| L15 | 34 | ( (server$4 gatewar$4 rout$4) NEAR6 (reply$4 feed$1back$4 feedbck$1 acknowledg$5 ACK) NEAR5 (channel$4 frequency$4 path$4 rout$4 access$1 near2 code$4) SAME (location$4 gps$4 ) NEAR5 (WD wireless adj2 device$4 WTRU terminal TA TE user adj2 equipment UE STA STB) ) AND (@AD <"20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/05 19:27 |
| L16 | 104 | ( (server$4 gatewar$4 rout$4) NEAR6 (reply$4 feed$1back$4 feedbck$1 acknowledg$5 ACK) SAME (channel$4 frequency$4 path$4 rout$4 access$1 near2 code$4) SAME (location$4 gps$4 ) SAME (WD wireless adj2 device$4 WTRU terminal TA TE user adj2 equipment UE STA STB) ) AND (@AD <"20080728" ) NOT L15 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/05 19:27 |
| S1 | 2 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/25 16:48 |
| S2 | 34 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/25 18:09 |
| S3 | 2 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:03 |

| | | | | | | |
|---|---|---|---|---|---|---|
| S4 | 34 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:03 |
| S5 | 34 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:03 |
| S6 | 4 | ((JOHAN) near2 (BJORSELL)).INV. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:16 |
| S7 | 3 | ((MAKSYM) near2 (SOBOLYEV)).INV. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:16 |
| S8 | 2 | ((PENTTI) near2 (HUTTUNEN)).INV. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:17 |
| S10 | 5 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:21 |
| S11 | 5 | S6 or S7 or S8 or S10 | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:21 |
| S12 | 288340 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:29 |
| S13 | 1195 | ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 ) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:33 |
| S14 | 701 | S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 ) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:33 |
| S15 | 40 | S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:34 |

| | | | | | | |
|---|---|---|---|---|---|---|
| S16 | 23 | S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5))) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:36 |
| S18 | 2 | us-20070112964-$.did. us-20040022237-$.did. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:49 |
| S19 | 4 | us-20070112964-$.did. us-20040022237-$.did. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:49 |
| S20 | 245256 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:52 |
| S21 | 1 | S20 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:53 |
| S22 | 366030 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:54 |
| S24 | 354 | S22 and ((access adj code) same (channel ID identification) same request) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:55 |
| S25 | 8 | S22 and ((access adj code) same (channel with (ID identification)) same request) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:56 |
| S26 | 10 | S22 and ((access adj2 code) same caller same callee) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:59 |
| S27 | 58 | S22 and ((phone caller callee 'calling party') same server same router same (initiat$4 or setup or sett$4)same channel) | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:05 |
| S28 | 10 | S22 and ((phone caller callee "calling party" "called party" "called terminal" "calling party") same server same rout$5 same (call near5 (initiat$4 or | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:19 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | setup)) same channel same request same (ID identif$7)) | | | | |
| S29 | 257 | S22 and (caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:27 |
| S30 | 72 | S22 and (caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) same access$5 | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:28 |
| S31 | 11 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$).did. or (US-7068684-$ or US-6963635-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:13 |
| S32 | 9 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:13 |
| S33 | 3 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and processor and interface and identification) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:16 |
| S34 | 7 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) ) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:18 |
| S35 | 7 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:21 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | (identi$7 ID) and voice and (location local$3 geograph$5 area) and number) | | | | |
| S36 | 2 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number and expir$5) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:22 |
| S37 | 2 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number and expir$5 and (access adj code)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:54 |
| S39 | 3 | "7079526".pn. us-20030114145-$.did. "6016319".pn. | US-PGPUB; USPAT | OR | ON | 2013/03/14 11:27 |
| S40 | 409041 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:17 |
| S43 | 21100 | S40 and (initiat$4 adj3 call) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:21 |
| S44 | 128 | S40 and ((initiat$4 adj2 call) same (access adj2 code)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:22 |
| S45 | 101 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID)) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/15 11:23 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | DERWENT; IBM_TDB | | | |
| S46 | 38 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((voice data) adj2 network)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:23 |
| S47 | 33 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:25 |
| S48 | 11 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:26 |
| S49 | 35 | ("2006/0189337").URPN. | USPAT | OR | ON | 2013/03/15 11:34 |
| S50 | 5 | S46 not S47 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:46 |
| S51 | 63 | S45 not S46 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:47 |
| S52 | 409041 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:52 |

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| S53 | 0 | S52 and ((initiat$4 adj2 call) same (access adj2 code) same (data adj2 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:52 |
| S54 | 213 | S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:53 |
| S55 | 159 | S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5) and (wirless mobile handfree)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:54 |
| S56 | 22 | S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5) and (wirless mobile handfree) adj5 (IP or (internet adj2 protocol))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:54 |
| S57 | 20 | S52 and ((initiat$4 with call) same (access adj5 code) and (data adj5 network$5) and (wirless mobile handfree) adj5 (IP or (internet adj2 protocol))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:55 |
| S58 | 17 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 12:01 |

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| S62 | 17 | S58 and (server) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 12:02 |
| S63 | 11 | S58 and (server and client) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 12:03 |
| S64 | 181 | S52 and (channel same (ID indentifier indentification) same request same server same (router rout$5 gateway adj control$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:32 |
| S65 | 27 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway adj control$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:33 |
| S67 | 154 | S64 not S65 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:34 |
| S68 | 32 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:34 |
| S69 | 2 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) and (wireless adj2 ip adj4 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:35 |
| S72 | 2 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless adj2 ip adj4 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/15 12:36 |

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| | | | DERWENT; IBM_TDB | | | |
| S73 | 5 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless with (ip or (internet adj2 protocol)))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:46 |
| S74 | 12 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND ((wireless mobile) with (ip or (internet adj2 protocol)))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:48 |
| S76 | 7 | S74 not S73 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:49 |
| S77 | 432569 | ("370".clas. "709".clas. "455".clas. "725".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 13:10 |
| S79 | 2 | S77 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless adj5 IP)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 13:11 |
| S82 | 0 | S79 and (POOL) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:32 |
| S83 | 0 | S79 and (indenfi$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/15 15:33 |

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| | | | DERWENT; IBM_TDB | | | |
| S84 | 2 | S79 and (identifi$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S85 | 2 | S79 and (identifi$5 and access) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S86 | 0 | S79 and (identifi$5 with access) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S87 | 2 | S79 and (identifi$5 and access and number) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S88 | 2 | S79 and (identifi$5 and access and number and associat$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:34 |
| S89 | 2 | S79 and (identifi$5 and access and number and associat$5 and select$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:34 |
| S90 | 900 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/15 15:57 |

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| | | | DERWENT; IBM_TDB | | | |
| S91 | 0 | S52 and (pool database) with (access adj code) with (phone adj number) with (associat$3 respective) same (wireless IP)\ | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:57 |
| S92 | 0 | S52 and (pool database) with (access adj code) with (phone adj number) with (associat$3 respective) and (wireless IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:58 |
| S93 | 820 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) and (wireless IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:58 |
| S94 | 181 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) same (wireless IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:58 |
| S95 | 8 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) same (wireless with IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:59 |
| S98 | 20 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:13 |

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| | | US-6016319-$ or US-6674745-$).did. or (WO-2010012090-$).did. | | | | |
| S99 | 11 | S98 and (local with number) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:17 |
| S100 | 9 | S98 and (local near7 number) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:19 |
| S101 | 7 | S98 and (local near4 number) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:19 |
| S102 | 3 | (US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/15 16:49 |
| S103 | 3 | S102 AND (ip adj2 address) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:49 |
| S104 | 0 | S102 AND (ip adj2 address with mobile) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:50 |
| S105 | 2 | S102 AND (ip adj2 address with (receiv$5 reception)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:50 |
| S106 | 3 | S102 AND (ip adj2 address with server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:52 |
| S107 | 0 | S102 AND (ip adj2 address with server with receiv$3) | US-PGPUB; USPAT; | OR | ON | 2013/03/15 16:53 |

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| | | | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S108 | 1 | S102 AND (ip adj2 address with receiv$3 same server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:53 |
| S109 | 0 | S102 AND ((ip adj address) with caller) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:54 |
| S110 | 2 | S102 AND ((ip adj address) with call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:54 |
| S111 | 1 | "12116756" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 14:43 |
| S112 | 3 | (US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/16 15:36 |
| S115 | 1 | S112 AND (identif$5 same wireless) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 15:37 |
| S116 | 3 | S112 AND (identif$5 and (mobile wireless)) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/16 16:09 |

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| | | | DERWENT; IBM_TDB | | | |
| S117 | 1 | S112 AND (identif$5 with (mobile wireless)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:09 |
| S118 | 2 | S112 AND (identif$5 same (mobile wireless)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:09 |
| S119 | 3 | S112 AND (identi$6 and (mobile wireless) and config$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:11 |
| S122 | 3 | S112 AND (identi$6 and (mobile wireless) and config$5 and user) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:11 |
| S123 | 3 | S112 AND (identi$6 and (mobile wireless) and config$5 and user and location) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:12 |
| S124 | 2 | S112 AND (identi$6 same (mobile wireless) and config$5 and user and location) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:12 |
| S126 | 1 | S112 AND (identi$6 same (mobile wireless) and (config$5 same location) and user) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/16 16:13 |

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| | | | DERWENT; IBM_TDB | | | |
| S127 | 1 | S112 AND (identi$6 same (mobile wireless) same location and (config$5 same user)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:17 |
| S128 | 2 | S112 AND (location same identi$6 same user) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:50 |
| S129 | 3 | S112 AND (local same number) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:08 |
| S130 | 2 | S112 AND (local near5 number) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:12 |
| S131 | 3 | S112 AND (IP adj2 network same rout$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:19 |
| S136 | 3 | S112 AND (call same channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:39 |
| S137 | 1 | S112 AND (call same channel same establ$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/16 17:39 |

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| | | | DERWENT; IBM_TDB | | | |
| S141 | 1 | S112 AND (establ$5 same call same channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:41 |
| S142 | 2 | S112 AND (call$5 same identif$6 same access) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 18:31 |
| S143 | 1 | S112 AND (call$5 same identif$6 same access same code) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 18:31 |
| S144 | 3 | (US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:29 |
| S145 | 3 | S144 and (telephone same number) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:30 |
| S146 | 2 | S144 and ((number or code) with match$4) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:31 |
| S147 | 3 | S144 and ((number or code or ID or identifier) with called) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:37 |
| S148 | 2 | S144 and ((number or code or ID or identifier) with channel) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:45 |
| S149 | 1 | S144 and ((number or code) same (ID or identifier) same channel) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:46 |
| S150 | 2 | S144 and ((number or code or ID or identifier) same channel same (called dialed)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:49 |
| S151 | 2 | S144 and (channel same (called dialed)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:51 |

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| S152 | 3 | S144 and (TTL expir$5 timestap) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:56 |
| S153 | 3 | S144 and (TTL expir$5 timestamp) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:56 |
| S154 | 2 | S144 and (data non$1voice) with (reply respon$4) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:09 |
| S155 | 2 | S144 and (data non$1voice) same (code numer ID identifier) same (reply respon$4) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:10 |
| S156 | 3 | S144 and (data non$1voice) same (code numer ID identifier) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:12 |
| S157 | 3 | S144 and (data non$1voice) same (code numer ID identifier) same2 (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:14 |
| S158 | 3 | S144 and (data non$1voice) same (code number ID identifier) same2 (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:14 |
| S159 | 3 | S144 and (data non$1voice) same (code number ID identifier) same (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:17 |
| S160 | 1 | S144 and code with (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:19 |
| S161 | 3 | S144 and (number ID identifier) with (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:21 |
| S162 | 2 | S144 and (access adj code) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:23 |
| S163 | 0 | S144 and (access adj code) same (reply reponse respond$3) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:23 |
| S164 | 1 | S144 and (access adj code) same2 (reply reponse respond$3) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:24 |
| S165 | 1 | S144 and code same query | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:26 |
| S166 | 0 | "L29" and (data with interface with access adj code with (reply response respond$3)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:26 |

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| S167 | 366130 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:27 |
| S168 | 6 | S167 and (data with interface with access adj code with (reply response respond$3)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:27 |
| S169 | 1 | S167 and (access adj code) with expir$5 with (establish$4 ssetup) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:41 |
| S170 | 3 | S167 and (access adj code) with expir$5 with (establish$4 setup) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:41 |
| S171 | 8 | S167 and (access adj code) with expir$5 with call$3 | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:43 |
| S172 | 5 | (US-20040022237-$ or US-20080056235-$ or US-20020122391-$).did. or (US-6674745-$ or US-5454030-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/22 14:46 |
| S173 | 3 | S172 and (dial$3 with number) | US-PGPUB; USPAT | OR | ON | 2013/03/22 15:52 |
| S174 | 2 | S172 and (called with number with request) | US-PGPUB; USPAT | OR | ON | 2013/03/22 15:58 |
| S175 | 1 | S172 and (calling with number with request) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:00 |
| S176 | 1 | S172 and (calling with request) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:01 |
| S178 | 2 | S172 and (request with access) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:03 |
| S179 | 4 | S172 and (access near code) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:04 |
| S180 | 1 | S172 and (access with soft) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:06 |
| S181 | 1 | S172 and (access same soft same (caller calling)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:08 |
| S182 | 1 | S172 and (access same request$3 same (caller calling)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:09 |

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| S185 | 1 | S172 and (reply with request$3) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:15 |
| S186 | 5 | S172 and (reply response) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:16 |
| S187 | 4 | S172 and ((reply response) with (code id identif$8)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:19 |
| S188 | 4 | S172 and ((calling caller) with (code id identif$8)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:21 |
| S189 | 3 | S172 and ((calling caller) with (reply$3 respon$5)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:23 |
| S190 | 1 | S172 and ((calling caller) same called same (initial$5 code access)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:24 |
| S191 | 4 | S172 and ((reply response) with (code id identif$8) with (reply$3 respon$5)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:38 |
| S193 | 5 | (US-20040022237-$ or US-20080056235-$ or US-20020122391-$).did. or (US-6674745-$ or US-5454030-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:05 |
| S194 | 3 | S193 and (ip adj2 address) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:06 |
| S195 | 0 | S193 and (ip adj2 address with mobile) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:07 |
| S196 | 1 | S193 and (ip adj2 address same mobile) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:07 |
| S197 | 3 | S193 and (ip adj2 address) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:08 |
| S198 | 3 | S193 and (ip adj1 address) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:17 |
| S199 | 1 | S193 and (mobile same routed) | US-PGPUB; USPAT | OR | ON | 2013/03/23 13:17 |
| S200 | 2 | S193 and (mobile same rout$4) | US-PGPUB; USPAT | OR | ON | 2013/03/23 13:18 |
| S201 | 2 | US-20070112964-$.did. | US-PGPUB; USPAT; | OR | ON | 2013/03/25 12:44 |

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| | | | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S202 | 2 | "5519769".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/25 12:55 |
| S203 | 5 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2015/11/09 13:30 |
| S204 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2015/11/09 13:30 |
| S205 | 68 | ("20020116464" \| "20040255126" \| "20060072547" \| "20060093135" \| "20060153342" \| "20080056302" \| "20120099599" \| "20120227101" \| "5469497" \| "5608786" \| "5712907" \| "5838682" \| "5905736" \| "5930343" \| "5991291" \| "6005926" \| "20120170574" \| "20040203582" \| "20050287979" \| "20070047548" \| "20080167019" \| "20080167020" \| "20080187122" \| "20100177671" \| "20110201321" \| "6993015" \| "7400881" \| "7573982" \| "7738384" \| "8041022" \| "8189568" \| "8437340" \| "8462915" \| "8605714" \| "8750290" \| "7587036" \| "20140349602" \| "8111690" \| "8713098" \| "20090213839" \| "20100083364" \| "20100115018" \| "20110208859" \| "20110276903" \| "20110276904" \| "20110292929" \| "20120089717" \| "20130329722" \| "20140016764" \| "8078164" \| "8396445" \| "8634838" \| | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:04 |

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|---|---|---|---|---|---|---|
| | | "8903051" \| "8909556" \| "8938534" \| "20050222952" \| "6636833" \| "7447707" \| "7676431" \| "7765261" \| "8161078" \| "8627211" \| "20020122391" \| "20060160565" \| "20060177035" \| "20060209768" \| "20080037715" \| "5146491").pn. | | | | |
| S206 | 7 | ((Pentti) near2 (Huttunen)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:08 |
| S208 | 4 | ((Emil) near2 (Malak)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:08 |
| S209 | 19 | ((bjorsell) near2 (johan)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:09 |
| S210 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:09 |
| S211 | 9 | ((Maksym) near2 (Sobolyev)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:10 |
| S212 | 25 | S206 S208 S209 S210 S211 | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:10 |
| S213 | 267985 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:12 |
| S214 | 9728 | S213 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:12 |
| S215 | 1 | S212 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:12 |
| S216 | 3 | S212 and ((location$4 GPS ) AND (ID identificat$4 key flag$4 number digit)).clm. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:13 |
| S217 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2015/11/09 14:14 |

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| S218 | 22 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/09 15:24 |
| S219 | 20 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/09 16:15 |
| S220 | 22 | (US-20070281705-$ or US-20090252159-$ or US-20130028251-$ or US-20040042607-$ or US-20080049732-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/09 16:15 |
| S221 | 21 | S220 and (locat$4 GPS) | US-PGPUB; USPAT; FPRS; EPO; | OR | OFF | 2015/11/09 16:15 |

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| | | | JPO; DERWENT; IBM_TDB | | | |
| S222 | 17 | S220 and (locat$4 GPS) AND (ID identificat$4 key$4 flag$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S223 | 13 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S224 | 13 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) AND (mobile wireless cellular portable) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S225 | 10 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S226 | 10 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) AND (server$4 router$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:17 |
| S227 | 9 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) SAME (server$4 router$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:17 |
| S228 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; | OR | OFF | 2015/11/09 16:28 |

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| | | | JPO; DERWENT; IBM_TDB | | | |
| S230 | 4816 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2015/11/09 16:29 |
| S231 | 5819 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:31 |
| S233 | 5844 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:32 |
| S235 | 27 | S230 AND (plac$3 WITH VOIP same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:33 |
| S236 | 56 | (S230 S231 S233) AND (plac$3 WITH VOIP same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:19 |
| S237 | 48 | (S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular ) WITH VOIP same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:20 |
| S238 | 63 | (S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular ) SAME (voice adj2 over adj2 internet VOIP) same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | OFF | 2015/11/09 17:20 |

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| | | | DERWENT; IBM_TDB | | | |
| S239 | 2 | (US-20040022237-$ or US-20080056235-$).did. | US-PGPUB | OR | OFF | 2015/11/09 17:34 |
| S240 | 28 | (S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular ) SAME (voice adj2 over adj2 internet VOIP) same call$3 AND (SMS short adj2 messag$4 adj2 serv$4)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:35 |
| S241 | 4816 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2015/11/09 19:23 |
| S242 | 5819 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:23 |
| S243 | 5844 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:23 |
| S244 | 976 | (S241 S242 S243) AND (SMS short adj2 messag$4 adj2 servic$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:23 |
| S245 | 397 | (S241 S242 S243) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:24 |
| S246 | 259 | (S241 S242 S243) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND | US-PGPUB; USPAT; FPRS; EPO; | OR | OFF | 2015/11/09 19:25 |

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| | | (SMS short adj2 messag$4 adj2 servic$3) AND server and controller ) | JPO; DERWENT; IBM_TDB | | | |
| S247 | 29 | (S241 S242 S243) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:26 |
| S248 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:35 |
| S249 | 1 | S248 and (receiv$$ SAME user SAME identifier SAME destination) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:36 |
| S250 | 1 | S248 and (receiv$$ SAME user SAME identifier) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:36 |
| S251 | 20 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:07 |

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| S252 | 252985 | ( (H04L29/06027 OR H04L29/06 OR H04L29/1216 OR H04L61/157 OR H04L65/1069 OR H04L12/4608 OR H04L12/66 OR H04L29/12122 OR H04L61/1547 OR H04L65/1026 OR H04L65/103 OR H04L65/1036 OR H04L65/104 OR H04L67/14 OR H04L69/329 OR H04L12/1813 OR H04L12/5695 OR H04L12/6418 OR H04L2012/5626 OR H04L2012/563 OR H04L2012/5645 OR H04L2012/5667 OR H04L2012/5668 OR H04L2012/6472 OR H04L29/12094 OR H04L29/12584 OR H04L29/12896 OR H04L29/12933 OR H04L47/724 OR H04L47/803 OR H04L47/805 OR H04L61/1529 OR H04L61/2015 OR H04L61/2596 OR H04L61/605 OR H04L61/6068 OR H04L63/061 OR H04L63/0823 OR H04L63/126 OR H04L63/164 OR H04L65/1003 OR H04L65/1006 OR H04L65/1009 OR H04L65/1013 OR H04L65/1043 OR H04L65/1046 OR H04L65/1083 OR H04L65/1096 OR H04L65/4007 OR H04L65/403 OR H04L65/604 OR H04L65/605 OR H04L67/02 OR H04L67/04 OR H04L67/24 OR H04L67/34 OR H04L67/40 OR H04L69/08 OR H04M15/00 OR H04M7/006 OR H04M7/009 OR H04M11/066 OR H04M15/06 OR H04M15/08 OR H04M15/41 OR H04M15/43 OR H04M15/48 OR H04M15/56 OR H04M15/63 OR H04M15/68 OR H04M15/745 OR H04M15/8292 OR H04M1/2473 OR H04M1/2535 OR H04M2203/2022 OR H04M2203/4536 OR H04M2207/12 OR H04M2207/18 OR H04M2207/20 OR H04M2215/0108 OR H04M2215/0156 OR H04M2215/0164 OR H04M2215/0168 OR H04M2215/0196 OR H04M2215/202 OR H04M2215/62 OR H04M2215/68 OR H04M2242/14 OR H04M3/20 OR H04M3/42 OR H04M3/42008 OR H04M3/42042 OR H04M3/42068 OR H04M3/4228 OR H04M3/42314 OR H04M3/42348 OR H04M3/42365 OR | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:25 |

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| | | H04M3/523 OR H04M3/53325 OR H04M3/545 OR H04M3/567 OR H04M7/00 OR H04M7/0021 OR H04M7/0057 OR H04M7/123 OR H04M7/1245 OR H04M7/125 OR H04M7/1255 OR H04M7/126 OR H04M7/128 OR H04M7/1285 OR H04Q3/0025 OR H04Q3/0045 OR H04Q11/0478 OR H04Q2213/13098 OR H04Q2213/1324 OR H04Q2213/13288 OR G06Q20/3674 OR H04H60/43 OR H04H60/51 OR H04H60/91 OR H04N21/2665 OR H04N21/4126 OR H04N21/42203 OR H04N21/6581 OR H04N21/6582 OR H04N7/17318 OR H04W28/16 OR H04W4/06 OR H04W4/10 OR H04W4/22 OR H04W60/04 OR H04W76/005 OR H04W76/007 OR H04W76/02 OR H04W76/021 OR H04W76/025 OR H04W80/00 OR H04W80/04 OR H04W84/005 OR H04W88/08 OR H04W8/02 OR H04W8/085 OR Y10S379/90).CPC. ) | | | | |
| S253 | 1 | "14035806" | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:26 |
| S254 | 6639 | ( (H04W76/021 OR H04W76/025 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:45 |
| S255 | 268033 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/29 23:32 |
| S256 | 4832 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2015/11/29 23:32 |
| S257 | 5881 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:32 |

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| S258 | 5933 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:32 |
| S259 | 29 | (S256 S257 S258) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:32 |
| S260 | 265 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:33 |
| S261 | 95 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:33 |
| S262 | 25 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 adj2 servic$3) AND server SAME (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:33 |
| S263 | 4 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 adj2 servic$3) SAME server SAME (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:34 |
| S264 | 6575 | (reply with mobile) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:57 |
| S265 | 2208 | (reply with mobile same server) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:57 |

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| S266 | 168 | (reply with mobile same server same sms) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:57 |
| S267 | 35 | (reply with mobile same server same sms same gateway) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:58 |
| S268 | 25 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 02:11 |
| S269 | 12 | S268 and SMS | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 02:11 |
| S270 | 12 | S268 and (SMS same server$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 02:12 |
| S271 | 1 | S268 and (SMS same server$3 same locat$4 NEAR5 (ID address identificat$4)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 02:12 |

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| S272 | 25 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 09:34 |
| S273 | 12 | S272 and (SMS same server$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:34 |
| S274 | 5 | S272 and (SMS same server$3 SAME (location GPS )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:38 |
| S275 | 5 | "20080101370" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:42 |
| S276 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 09:47 |

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| | | or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S277 | 6 | S276 and (SMS SAME server SAME (location GPS)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:47 |
| S278 | 8 | S276 and (SMS SAME server SAME3 (location GPS)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 10:08 |
| S279 | 17 | S276 and ((ID identification key flag address ) SAME (location GPS)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:00 |
| S280 | 15 | S276 and ((ID identification key flag address ) SAME (location GPS) SAME server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:01 |
| S281 | 11 | S276 and ((transmit$4 send$4) SAME (ID identification key flag address ) SAME (location GPS) SAME server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:03 |
| S282 | 3 | S276 and ((transmit$4 send$4) SAME (ID identification key flag address ) WITH (location GPS) WITH server) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | OFF | 2015/11/30 11:11 |

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| | | | DERWENT; IBM_TDB | | | |
| S283 | 2 | (US-20080160953-$ or US-20080056235-$).did. | US-PGPUB | OR | OFF | 2015/11/30 12:07 |
| S284 | 2 | S283 and (SMS SAME server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 12:07 |
| S285 | 2 | S283 and (location SAME channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 12:25 |
| S286 | 1 | "14035806" | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 12:59 |
| S287 | 0 | S283 and (poll) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:04 |
| S288 | 1 | S283 and (poll multiple) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:05 |
| S289 | 2 | S283 and (local and call) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:07 |
| S290 | 2 | S283 and (local SAME call) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | OFF | 2015/11/30 14:07 |

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| | | | DERWENT; IBM_TDB | | | |
| S291 | 2 | S283 and (IP SAME address) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:09 |
| S292 | 0 | S283 and (time with out) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:20 |
| S293 | 0 | S283 and (expired) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:21 |
| S294 | 1 | S283 and (expired out) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:21 |
| S295 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/02 22:35 |

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|---|---|---|---|---|---|---|
| S296 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/02 22:36 |
| S297 | 0 | S296 and (destinat$$ adj2 (ID key flag identificat$4 ) and (location adj2 ID) and channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/02 22:37 |
| S298 | 0 | S296 and (destinat$$ SAME (ID key flag identificat$4 ) SAME (location adj2 ID) and channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/02 22:37 |
| S299 | 1 | S296 and (destinat$$ SAME (ID key flag identificat$4 ) SAME channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/02 22:38 |
| S300 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/03 18:45 |
| S301 | 1 | S300 and (destinat$$ SAME (ID key flag identificat$4 ) SAME channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/03 18:45 |
| S302 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US- | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/06 12:00 |

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| | | 6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S303 | 2 | "13710282" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/06 17:24 |
| S304 | 1 | S303 and (similar SAME power$4 same sav$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/06 17:25 |
| S305 | 1 | S303 and (similar NEAR10 power$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/06 18:18 |
| S306 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/06 21:55 |
| S307 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/07 14:24 |
| S308 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/07 14:24 |

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|---|---|---|---|---|---|---|
| S309 | 1 | "14035806" | US-PGPUB; USPAT | OR | OFF | 2016/01/07 15:02 |
| S310 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/07 15:03 |
| S311 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/07 15:03 |
| S312 | 1 | S310 and ( (channel$4 tunnel$4 frequenc$4) WITH (ID identificat$4 key flag) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:04 |
| S313 | 2 | S310 and ( (channel$4 tunnel$4 frequenc$4) SAME (ID identificat$4 key flag) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:04 |
| S314 | 1 | S310 and ( (channel$4 tunnel$4 frequenc$4) NEAR10 (ID identificat$4 key flag) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:35 |
| S315 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/07 15:35 |

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| S316 | 1 | S315 and (destinat$$ SAME (ID key flag identificat$4 ) SAME channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:35 |
| S317 | 2 | S315 and (channel ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 16:18 |
| S319 | 2 | S315 and (channel and location) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 18:15 |
| S320 | 5569 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2016/10/17 13:25 |
| S321 | 8486 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/10/17 13:25 |
| S322 | 8300 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/10/17 13:25 |
| S323 | 46 | (S320 S321 S322) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/10/17 13:25 |

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| S324 | 8 | ((Pentti) near2 (Huttunen)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S325 | 4 | ((Emil) near2 (Malak)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S326 | 22 | ((bjorsell) near2 (johan)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S327 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:25 |
| S328 | 10 | ((Maksym) near2 (Sobolyev)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S329 | 29 | S324 S325 S326 S327 S328 | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S330 | 1 | S329 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:25 |
| S331 | 313876 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S332 | 28 | S331 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5))) | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S333 | 268664 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S334 | 1 | S333 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S335 | 506306 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2016/10/17 13:26 |
| S336 | 12 | S335 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) | US-PGPUB; USPAT; FPRS; EPO; | OR | ON | 2016/10/17 13:26 |

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| | | and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | JPO; DERWENT; IBM_TDB | | | |
| S337 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | ON | 2016/10/17 13:55 |
| S338 | 2 | S337 and (database list table log) WITH (locat$4 GPS) | US-PGPUB | OR | ON | 2016/10/17 14:12 |
| S339 | 2 | S337 and (database list table log) WITH (locat$4 GPS) AND (IP internet adj2 protocol) | US-PGPUB | OR | ON | 2016/10/17 14:19 |
| S340 | 0 | S337 and (database list table log) WITH (locat$4 GPS) WITH (IP internet adj2 protocol) | US-PGPUB | OR | ON | 2016/10/17 14:19 |
| S341 | 2 | S337 and (database list table log) WITH (locat$4 GPS) SAME (IP internet adj2 protocol) | US-PGPUB | OR | ON | 2016/10/17 14:19 |
| S342 | 2 | S337 and (database list table log) WITH (locat$4 GPS) SAME (IP internet adj2 protocol) and location | US-PGPUB | OR | ON | 2016/10/17 14:45 |
| S343 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | ON | 2016/11/15 14:32 |
| S344 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2016/11/15 15:00 |

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| S345 | 6 | cn adj2 "102307082" | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | ON | 2016/11/15 15:52 |
| S346 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | ON | 2016/11/15 16:54 |
| S347 | 1 | (US-20080056235-$).did. | US-PGPUB | OR | ON | 2016/11/15 19:52 |
| S348 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | ON | 2016/11/15 19:53 |
| S349 | 2 | S348 AND (locat$5 GPS ) WITH ( ID key identification flag$4) | US-PGPUB | OR | ON | 2016/11/15 19:54 |
| S350 | 2 | S348 AND (locat$5 GPS ) WITH ( ID key identification flag$4) AND ( ID key identification flag$4) | US-PGPUB | OR | ON | 2016/11/15 19:55 |
| S351 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | ON | 2016/11/15 20:58 |
| S352 | 2 | S351 AND (locat$5 GPS ) WITH ( ID key identification flag$4) AND ( ID key identification flag$4) | US-PGPUB | OR | ON | 2016/11/15 20:58 |
| S353 | 432 | ( (Access NEAR5 server ) AND ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB | OR | ON | 2016/11/15 21:57 |
| S354 | 752 | ( (Access NEAR5 server ) AND ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 21:58 |
| S355 | 402 | ( (Access NEAR5 server ) AND ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 21:58 |
| S356 | 11 | ( (Access NEAR5 server ) SAME ( location$4 GPS ) WITH (destinat$4 | US-PGPUB; USPAT; | OR | ON | 2016/11/15 21:58 |

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| | | NEAR5 ID ) ) AND (@AD <"201080728") | FPRS; EPO; JPO; IBM_TDB | | | |
| S357 | 97 | (( request$4 NEAR5 (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 22:00 |
| S358 | 19 | (( request$4 NEAR5 (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) SAME (server) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 22:01 |
| S359 | 43 | (( request$4 SAME (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) SAME (server) SAME (channel$4 path$4 rout$4) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 22:42 |
| S360 | 29 | ((JOHAN) near2 (BJORSELL)).INV. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S361 | 14 | ((MAKSYM) near2 (SOBOLYEV)).INV. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S362 | 8 | ((PENTTI) near2 (HUTTUNEN)).INV. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S363 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S364 | 34 | S360 or S361 or S362 or S363 | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S365 | 313893 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S366 | 27 | S365 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5))) | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |

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| S367 | 268678 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S368 | 1 | S367 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S369 | 45 | (( request$4 SAME (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) SAME (server) SAME (channel$4 path$4 rout$4) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 11:59 |
| S370 | 400075 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S371 | 8 | S370 and ((access adj code) same (channel with (ID identification)) same request) | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S372 | 8 | ((Pentti) near2 (Huttunen)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S373 | 4 | ((Emil) near2 (Malak)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S374 | 29 | ((bjorsell) near2 (johan)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S375 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S376 | 14 | ((Maksym) near2 (Sobolyev)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S377 | 36 | S372 S373 S374 S375 S376 | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S378 | 1 | S377 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S379 | 528836 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2017/08/21 12:00 |

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|---|---|---|---|---|---|---|
| | | | DERWENT; IBM_TDB | | | |
| S380 | 12 | S379 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/08/21 12:00 |
| S381 | 11 | ( (Access NEAR5 server ) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 12:00 |
| S382 | 13 | ("20020150080" \| "20060195584" \| "20070121590" \| "20070121602" \| "20170104868" \| "20170111265" \| "20170126752" \| "20170142256" \| "576852106" \| "6947531" \| "7477843" \| "9537762" \| "9549071" \| "9565307").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S383 | 4 | ("20030043974" \| "20050069097" \| "6434143" \| "7774711").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S384 | 1 | ("7174156").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S385 | 24 | ("20020057764" \| "20050007999" \| "20060109960" \| "20060233317" \| "20070036139" \| "20070064919" \| "20090238168" \| "20100002701" \| "20150327320" \| "20150358470" \| "20160006882" \| "20160028619" \| "4747124" \| "5742596" \| "5991378" \| "6603977" \| "6961334" \| "7042985" \| "7218722" \| "7366157" \| "7486684" \| "8036366" \| "8594298" \| "9179005").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S386 | 24 | ("20020057764" \| "20050007999" \| "20060109960" \| "20060233317" \| "20070036139" \| "20070064919" \| "20090238168" \| "20100002701" \| "20150327320" \| "20150358470" \| "20160006882" \| "20160028619" \| "4747124" \| "5742596" \| "5991378" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:08 |

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|---|---|---|---|---|---|---|
| | | "6603977" \| "6961334" \| "7042985" \| "7218722" \| "7366157" \| "7486684" \| "8036366" \| "8594298" \| "9179005").PN. | | | | |
| S387 | 43 | ("20050131813" \| "20050171898" \| "20050192897" \| "20050192901" \| "20050222952" \| "20050267842" \| "20060006224" \| "20060036522" \| "20060095320" \| "20060116892" \| "20060195398" \| "20070016524" \| "20140141884" \| "5677955" \| "5883810" \| "6173272" \| "6243689" \| "6636833" \| "6772188" \| "6892184" \| "7051072" \| "7330835" \| "7426492" \| "7437665" \| "7447707" \| "7580886" \| "7593884" \| "7599944" \| "7644037" \| "7647500" \| "7676431" \| "7680737" \| "7734544" \| "7765261" \| "7765266" \| "7882011" \| "7899742" \| "8060887" \| "8161078" \| "8200575" \| "8543477" \| "8627211" \| "8702505").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:08 |
| S388 | 71 | ("20070053382" \| "20090213839" \| "20100083364" \| "20100114896" \| "20100115018" \| "20100142382" \| "20100220852" \| "20100233991" \| "20100278534" \| "20100316195" \| "20110072095" \| "20110167164" \| "20110208859" \| "20110235543" \| "20110273526" \| "20110276903" \| "20110276904" \| "20110292929" \| "20120089717" \| "20120096145" \| "20120155333" \| "20120195236" \| "20120259975" \| "20120270554" \| "20130039226" \| "20130097308" \| "20130128879" \| "20130148549" \| "20130173534" \| "20130229950" \| "20130287006" \| "20130310002" \| "20130318166" \| "20130329722" \| "20130329864" \| "20140010119" \| "20140016764" \| "20140153477" \| "20140215642" \| "20140307858" \| "20140321333" \| "6327351" \| "7203478" \| "7958233" \| "8078164" \| "8127005" \| "8166547" \| "8190739" \| "8223927" \| "8300632" \| "8315521" \| "8396445" \| "8526306" \| "8599747" \| "8599837" \| "8634838" \| "8774378" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |

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|---|---|---|---|---|---|---|
| | | "8819566" \| "8848887" \| "8862701" \| "8885609" \| "8903051" \| "8903360" \| "8909556" \| "8938209" \| "8938534" \| "8948061" \| "8972612" \| "8982719" \| "8995428" \| "9003306").PN. | | | | |
| S389 | 6 | ("20070217354" \| "5917899" \| "6005870" \| "6597783" \| "6873599" \| "7010727").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |
| S390 | 54 | ("0000029" \| "0000030" \| "0000031" \| "0000032" \| "0000033" \| "0000034" \| "0000035" \| "0000036" \| "0000037" \| "0000038" \| "0000039" \| "0000040" \| "0000041" \| "20010027478" \| "20110255553" \| "20110261717" \| "20130223276" \| "20130237198" \| "20130254301" \| "20130272297" \| "20130281147" \| "20140220944" \| "20140227962" \| "20140244393" \| "20140247730" \| "20140269624" \| "20140324969" \| "20140337961" \| "20140349602" \| "6937713" \| "8111690" \| "8219115" \| "8228837" \| "8243730" \| "8275404" \| "8364172" \| "8410907" \| "8417791" \| "8423791" \| "8468196" \| "8493931" \| "8532075" \| "8682919" \| "8713098" \| "8749610" \| "8767717" \| "8774721" \| "8780703" \| "8792374" \| "8792905" \| "8805345" \| "8810392" \| "8837360" \| "8838539").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |
| S391 | 7 | ("6445694" \| "6574328" \| "6785266" \| "7486664" \| "7512117" \| "7587036" \| "7764777").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |
| S392 | 141 | ("20010052081" \| "20020002041" \| "20020018445" \| "20020141352" \| "20030012196" \| "20030095539" \| "20030179747" \| "20030219103" \| "20040034793" \| "20040203565" \| "20040203582" \| "20050063519" \| "20050188081" \| "20050190892" \| "20050202799" \| "20050287979" \| "20060007940" \| "20060013266" \| "20060030290" \| "20060078094" \| "20060142011" \| "20060146797" \| "20060189303" \| "20060205383" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:10 |

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|---|---|---|---|---|---|---|
| | | "20060248186" \| "20060251056" \|<br>"20060268921" \| "20060281437" \|<br>"20070047548" \| "20070092070" \|<br>"20070115935" \| "20070121593" \|<br>"20070174469" \| "20070220038" \|<br>"20070253429" \| "20070263609" \|<br>"20070297376" \| "20080013523" \|<br>"20080056243" \| "20080166999" \|<br>"20080167019" \| "20080167020" \|<br>"20080167039" \| "20080187122" \|<br>"20080188198" \| "20080188227" \|<br>"20080205378" \| "20080310599" \|<br>"20090003535" \| "20090129566" \|<br>"20090135724" \| "20090214000" \|<br>"20090268615" \| "20090296900" \|<br>"20100008345" \| "20100039946" \|<br>"20100105379" \| "20100177671" \|<br>"20100246589" \| "20100272242" \|<br>"20110013541" \| "20110153809" \|<br>"20110176541" \| "20110201321" \|<br>"20110267986" \| "20120014383" \|<br>"20120113981" \| "20120195415" \|<br>"20120250624" \| "20120282881" \|<br>"20120314699" \| "20130272297" \|<br>"20140101749" \| "20140211789" \|<br>"5325421" \| "6553025" \| "6560224" \|<br>"6650641" \| "6775534" \| "6934279" \|<br>"6963739" \| "6985440" \| "6993015" \|<br>"7006508" \| "7027564" \| "7068668" \|<br>"7151772" \| "7177399" \| "7277528" \|<br>"7400881" \| "7436835" \| "7440442" \|<br>"7486667" \| "7567131" \| "7573982" \|<br>"7593390" \| "7639792" \| "7657011" \|<br>"7664495" \| "7676215" \| "7680114" \|<br>"7702308" \| "7715821" \| "7738384" \|<br>"7764944" \| "7797459" \| "7894441" \|<br>"7907551" \| "7929955" \| "7944909" \|<br>"7965645" \| "7979529" \| "7995589" \|<br>"8024785" \| "8027333" \| "8041022" \|<br>"8050273" \| "8125982" \| "8145182" \|<br>"8166533" \| "8189568" \| "8204044" \|<br>"8228897" \| "8244204" \| "8306063" \|<br>"8363647" \| "8427981" \| "8437340" \|<br>"8462915" \| "8509225" \| "8605714" \|<br>"8605869" \| "8607323" \| "8611354" \|<br>"8625578" \| "8724643" \| "8750290" \|<br>"8763081" \| "8768951" \| "8774171" \|<br>"8804705").PN. | | | | |

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|---|---|---|---|---|---|---|
| S393 | 14 | ("20050198499" \| "20100150138" \| "20100150328" \| "20100172345" \| "20110122827" \| "20120170574" \| "5719926" \| "5722067" \| "5915093" \| "6029062" \| "6249573" \| "7454200" \| "8630234" \| "8675566").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:10 |
| S394 | 137 | ("20020051518" \| "20020116464" \| "20020122391" \| "20030200311" \| "20030219103" \| "20040022237" \| "20040157629" \| "20040165709" \| "20040181599" \| "20040202295" \| "20040240439" \| "20040255126" \| "20050025043" \| "20050083911" \| "20050094651" \| "20050169248" \| "20050174937" \| "20050177843" \| "20060072547" \| "20060072550" \| "20060093135" \| "20060111116" \| "20060153342" \| "20060160565" \| "20060177035" \| "20060209768" \| "20060258328" \| "20060264200" \| "20070036143" \| "20070112964" \| "20070127676" \| "20070253418" \| "20080037715" \| "20080056235" \| "20080056302" \| "20080063153" \| "20090028146" \| "20090135735" \| "20090141883" \| "20090292539" \| "20090325558" \| "20100086119" \| "20100128729" \| "20120099599" \| "20120227101" \| "20130114589" \| "4916491" \| "4992971" \| "5146491" \| "5247571" \| "5303297" \| "5359642" \| "5425085" \| "5440621" \| "5454030" \| "5469497" \| "5506893" \| "5519769" \| "5559871" \| "5590133" \| "5608786" \| "5621787" \| "5633913" \| "5661790" \| "5712907" \| "5724355" \| "5726984" \| "5737414" \| "5751961" \| "5793762" \| "5799072" \| "5802502" \| "5825863" \| "5828740" \| "5838682" \| "5845267" \| "5850433" \| "5864610" \| "5867495" \| "5883891" \| "5889774" \| "5905736" \| "5907547" \| "5910946" \| "5915005" \| "5923659" \| "5930343" \| "5937045" \| "5940598" \| "5953504" \| "5956391" \| "5970477" \| "5974043" \| "5991291" \| "6005926" \| "6014379" \| "6021126" \| "6052445" \| "6058300" \| "6069890" \| "6073013" \| "6078647" \| "6104704" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:11 |

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|---|---|---|---|---|---|---|
| | | "6104711" \| "6115737" \| "6128304" \| "6137869" \| "6141404" \| "6151385" \| "6188752" \| "6282574" \| "6298062" \| "6351464" \| "6359880" \| "6430275" \| "6507644" \| "6597686" \| "6674745" \| "6724860" \| "6744858" \| "6766159" \| "6798767" \| "6819929" \| "6954453" \| "6963557" \| "7046658" \| "7055174" \| "7068772" \| "7079526" \| "7120682" \| "7212522" \| "7454510" \| "7950046" \| "8116307" \| "8422507" \| "8537805" \| "8542815").PN. | | | | |
| S395 | 513 | S382 S383 S384 S385 S386 S387 S388 S389 S390 S391 S392 S393 S394 | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:11 |
| S396 | 21 | S395 AND ((receiv$3 or accept$3 or obtain$3 or recover$3 or retriev$3 or acquir$3 or acquisition) SAME (respons$3 or respond$3 or react$3 or feed$3back$3 or (feed$3 adj3 back) or behaviour or behavior reply$3 return$3 acknowledgment$1 answer$1) SAME (server$4 webserver$4 gate$1way system$4 proxy$4 computer) SAME (location$4 GPS position$4 origin$4 region$4 site coordinat$4 ) NEAR5 (ID identification key flag$4 tagg$4 badge$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 13:45 |
| S397 | 12 | S395 AND ((receiv$3 or accept$3 or obtain$3 or recover$3 or retriev$3 or acquir$3 or acquisition) SAME (respons$3 or respond$3 or react$3 or feed$3back$3 or (feed$3 adj3 back) or behaviour or behavior reply$3 return$3 acknowledgment$1 answer$1) SAME (server$4 webserver$4 gate$1way system$4 proxy$4 computer) SAME (location$4 GPS position$4 origin$4 region$4 site coordinat$4 ) NEAR5 (ID identification key flag$4 tagg$4 badge$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 13:45 |
| S398 | 2 | (US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/08/21 14:47 |

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|---|---|---|---|---|---|---|
| S399 | 2 | S398 and (wifi wi$1fi wireless cellular ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/08/21 14:47 |
| S401 | 11 | "9179005" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/11/29 23:45 |
| S402 | 2 | (US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 01:18 |
| S403 | 3 | (US-20080056235-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 01:19 |
| S404 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/11/30 01:40 |
| S405 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/11/30 13:29 |
| S406 | 3 | (US-20080056235-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 14:49 |
| S407 | 1 | S406 and (connect$4 join$4 link$4 fasten$4 connector$4 hitch$4 ) AND (IP internet$4 adj2 protocol$4) NEAR5 address$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/11/30 14:58 |
| S408 | 1 | S406 and (connect$4 join$4 link$4 fasten$4 connector$4 hitch$4 ) AND (IP | US-PGPUB; USPAT; FPRS; EPO; | OR | ON | 2017/11/30 14:59 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | internet$4 adj2 protocol$4) WITH address$4 | JPO; IBM_TDB | | | |
| S409 | 3 | (US-20080056235-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 16:04 |
| S410 | 3 | S409 and (connect$4 join$4 link$4 fasten$4 connector$4 hitch$4 ) WITH (mobile user adj2 equipment UE mobile adj2 device ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/11/30 16:04 |
| S411 | 1 | (US-20080056235-$).did. | US-PGPUB | OR | ON | 2018/01/16 14:53 |
| S412 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/01/16 14:53 |
| S413 | 0 | S411 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 ) WITH (IP NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 14:54 |
| S414 | 0 | S411 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2018/01/16 14:56 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | return$4 answer$4 ) WITH ( (internet IP) NEAR10 address$4 ) | DERWENT; IBM_TDB | | | |
| S415 | 1 | S411 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 return$4 answer$4 ) SAME ( (internet IP) NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 14:56 |
| S416 | 11 | S412 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 return$4 answer$4 ) SAME ( (internet IP) NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:33 |
| S417 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:40 |
| S418 | 29261 | ( (H04W76/021 OR H04W76/025 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:52 |
| S419 | 56 | S418 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:55 |
| S420 | 9 | S418 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND (@AD <"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:56 |
| S421 | 15 | S418 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2018/01/16 15:56 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | ) AND ( (@ad OR @pd OR @rlad OR @ prad OR @ptad )<"20090728") | DERWENT; IBM_TDB | | | |
| S422 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/01/24 19:29 |
| S423 | 0 | S422 and (replay$4 echo adj2 back$4 ) WITH(ip near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:30 |
| S424 | 0 | S422 and (replay$4 echo adj2 back$4 ) WITH (ip near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:30 |
| S425 | 14 | S422 and (ip near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:30 |
| S426 | 5 | S422 and (ip near5 address$4 ) and (SMS) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2018/01/24 19:39 |

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|---|---|---|---|---|---|---|
| | | | DERWENT; IBM_TDB | | | |
| S427 | 5 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/25 13:28 |
| S428 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:33 |
| S429 | 268665 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:34 |
| S430 | 1 | S429 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:34 |
| S431 | 28075 | ( (H04W76/11 OR H04W76/15 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:34 |
| S432 | 541465 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:34 |
| S433 | 12 | S432 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:34 |

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|---|---|---|---|---|---|---|
| S434 | 400071 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:34 |
| S435 | 8 | S434 and ((access adj code) same (channel with (ID identification)) same request) | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:34 |
| S436 | 16903 | ( (H04W76/021 OR H04W76/025 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:35 |
| S437 | 13 | S436 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND ( (@ad OR @pd OR @rlad OR @ prad OR @ptad )<"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:35 |
| S438 | 7 | S436 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND (@AD <"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:35 |
| S439 | 13 | S436 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND ( (@ad OR @pd OR @rlad OR @ prad OR @ptad )<"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:35 |
| S440 | 6917 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2018/06/27 22:36 |
| S441 | 4410 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 22:36 |

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|---|---|---|---|---|---|---|
| S442 | 4889 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 22:36 |
| S443 | 44 | (S440 S441 S442) AND (plac$3 SAME (wireless mobile cellular ) SAME (voice adj2 over adj2 internet VOIP) same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 22:36 |
| S444 | 0 | ((("BjÃ¶rsell") near3 ("Johan") near3 ("Emil") near3 ("Viktor"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2018/06/27 22:36 |
| S445 | 15 | ((("Sobolyev") near3 ("Maksym"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2018/06/27 22:37 |
| S446 | 8 | ((("Huttunen") near3 ("Pentti") near3 ("Kalevi"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2018/06/27 22:37 |
| S447 | 4 | ((("Malak") near3 ("Emil"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2018/06/27 22:37 |
| S448 | 8 | ((("VOIP-PAL.COM") near3 ("INC"))).AS,AANM. | USPAT | OR | OFF | 2018/06/27 22:37 |
| S449 | 14 | (("VOIP-PAL.COM") ).AS,AANM. | US-PGPUB; USPAT | OR | OFF | 2018/06/27 22:38 |
| S450 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:38 |
| S451 | 0 | (S444 S445 S446 S447 S448 S449 S450) AND (IP NEAR2 addess$4 AND access ADJ2 code$3 AND (ID identification key location geographical) AND gateway ).clm. | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:41 |
| S452 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ | US-PGPUB; USPAT; DERWENT | OR | OFF | 2018/06/27 23:10 |

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| | | or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S453 | 13 | S452 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 23:11 |
| S454 | 6 | S452 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 23:11 |
| S455 | 2 | S452 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) AND (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2018/06/27 23:12 |
| S456 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:12 |
| S457 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US- | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/08/07 22:33 |

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| | | 20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S458 | 7 | S457 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:37 |
| S459 | 6 | S457 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:38 |
| S460 | 6 | S457 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) SAME (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:40 |
| S461 | 4 | (US-20080056235-$ or US-20080160953-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2018/08/07 22:42 |

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| S462 | 0 | S461 and ((desination$4 WITH connect$4 with channel$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:43 |
| S463 | 0 | S461 and ((desination$4 SAME connect$4 SAME channel$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:44 |
| S464 | 0 | S461 and ((desination$4 AND connect$4 SAME channel$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:44 |
| S465 | 1 | S461 and ((destination$4 AND connect$4 SAME channel$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/07 22:44 |
| S466 | 23710 | ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) SAME (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2018/08/07 22:55 |
| S467 | 33 | ( (request$4 packet$4 frame$4 data adj3 unit demand$4 query$4 seek$4 ) WITH (location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) WITH (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2018/08/07 22:57 |

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|---|---|---|---|---|---|---|
| | | webserver$4 systerm$4 timeserver$4 cloud$4 ) WITH reply$4 ) AND (@AD <"20080728") | | | | |
| S468 | 31 | ( (request$4 packet$4 frame$4 data adj3 unit demand$4 query$4 seek$4 ) WITH (location$4 gps station$4 office$4 site$4 position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) WITH (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) WITH reply$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2018/08/07 23:09 |
| S469 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/08/08 11:58 |
| S470 | 6 | S469 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) SAME (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/08 11:58 |

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| S471 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/08/09 10:45 |
| S472 | 6 | S471 and ((location$4 gps station$4 office$4 site$4 place places position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) WITH (ID identificat$4 key flag$4 PIN code$4 tag$4 password$4 ) SAME (server$4 proxy$4 gatewary$4 computer$4 process$4 processor$4 fileserver$4 webserver$4 systerm$4 timeserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/09 10:45 |
| S473 | 1 | (US-20030114145-$).did. | US-PGPUB | OR | ON | 2018/08/09 10:47 |
| S478 | 1 | S473 and (gps location$4 geograph$4) and server$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/09 10:49 |
| S479 | 0 | S473 and (gps location$4 geograph$4) and server$4 and reply$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/09 10:49 |

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| S480 | 1 | S473 and (gps location$4 geograph$4) and server$4 and (reply$4 request$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/09 10:49 |
| S481 | 2 | (US-20080056235-$ or US-20030114145-$).did. | US-PGPUB | OR | ON | 2018/08/13 15:27 |
| S482 | 1 | S481 and (reply$4 echo$4 feedback$4 ack acknowledg$4 ) SAME (location$4 gps geograph$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:32 |
| S483 | 1 | S481 and (reply$4 echo$4 feedback$4 ack acknowledg$4 ) AND (location$4 gps geograph$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:32 |
| S484 | 1 | S481 and (reply$4 echo$4 feedback$4 ack acknowledg$4 ) AND (location$4 gps geograph$6) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:33 |
| S486 | 1 | S481 AND (reply$4 echo$4 feedback$4 ack acknowledg$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:35 |
| S487 | 2 | S481 AND (reply$4 echo$4 feedback$4 ack acknowledg$4 messag$4 packet$4 data adj2 unit$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/08/13 15:35 |
| S488 | 2 | (US-20080056235-$ or US-20030114145-$).did. | US-PGPUB | OR | ON | 2018/12/18 12:05 |

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| S492 | 1 | 14/035806.app. | US-PGPUB | OR | ON | 2018/12/18 12:22 |
| S493 | 1 | S488 and (wireless$4 and VOIP ) | US-PGPUB | OR | ON | 2018/12/18 12:23 |
| S494 | 2 | S488 and (wireless$4 and location$4 ) | US-PGPUB | OR | ON | 2018/12/18 12:23 |
| S495 | 2 | S488 and (wireless$4 and (location$4 gps) ) | US-PGPUB | OR | ON | 2018/12/18 12:23 |
| S496 | 2 | S488 and (wireless$4 and (location$4 gps) and (id identification key flag) ) | US-PGPUB | OR | ON | 2018/12/18 12:23 |
| S498 | 9 | "41610774".FMID. | US-PGPUB; USPAT; FPRS | OR | ON | 2019/06/10 02:55 |
| S499 | 0 | ((("BjÃ¶rsell") near3 ("Johan") near3 ("Emil") near3 ("Viktor"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2019/06/10 03:00 |
| S500 | 16 | ((("Sobolyev") near3 ("Maksym"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2019/06/10 03:00 |
| S501 | 10 | ((("Huttunen") near3 ("Pentti") near3 ("Kalevi"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2019/06/10 03:00 |
| S502 | 4 | ((("Malak") near3 ("Emil"))).INV. | US-PGPUB; USPAT; USOCR | OR | OFF | 2019/06/10 03:00 |
| S503 | 11 | ((("VOIP-PAL.COM") near3 ("INC"))).AS,AANM. | USPAT | OR | OFF | 2019/06/10 03:00 |
| S504 | 19 | (("VOIP-PAL.COM") ).AS,AANM. | US-PGPUB; USPAT | OR | OFF | 2019/06/10 03:00 |
| S505 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2019/06/10 03:00 |
| S506 | 0 | (S499 S500 S501 S502 S503 S504 S505) AND (IP NEAR2 addess$4 AND access ADJ2 code$3 AND (ID identification key location geographical) AND gateway ).clm. | US-PGPUB; USPAT | OR | ON | 2019/06/10 03:00 |

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| S507 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2019/06/10 03:00 |
| S508 | 2 | S507 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) AND (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/06/10 03:00 |
| S509 | 39324 | ( (H04W76/11 OR H04W76/15 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 03:00 |
| S510 | 555 | S509 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) AND (access$4 NEAR5 code$4 ) AND (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/06/10 03:00 |
| S511 | 0 | S510 and (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) SAME (access$4 NEAR5 code$4 ) SAME (IP near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/06/10 03:01 |

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| S512 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 13:48 |
| S513 | 31 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/06/10 14:00 |
| S515 | 39298 | ( (H04W76/11 OR H04W76/15 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 14:00 |
| S517 | 25768 | (access$4 ) NEAR5 (request$4 demand$4 inquiry$4 appeal$4 ) WITH (server$4 gateway$4 router$4) SAME (WD UE TE TA mobile terminal WTRU ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:04 |
| S518 | 13 | ( (wireless adj2 (device equipment terminal phone iphone ) ) NEAR10 (location$4 geographical$4 ) WITH (ID key$4 identificat$4 ) SAME (access$4 NEAR5 code$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:05 |

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| S519 | 1 | S513 AND (access$4 ) NEAR5 (request$4 demand$4 inquiry$4 appeal$4 ) WITH (server$4 gateway$4 router$4) SAME (WD UE TE TA mobile terminal WTRU ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:05 |
| S520 | 25768 | (access$4 ) NEAR5 (request$4 demand$4 inquiry$4 appeal$4 ) WITH (server$4 gateway$4 router$4) SAME (WD UE TE TA mobile terminal WTRU ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:06 |
| S521 | 174 | ( (wireless adj2 (device equipment terminal phone iphone ) ) SAME (location$4 geographical$4 ) SAME (ID key$4 identificat$4 ) SAME (access$4 NEAR5 code$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | OFF | 2019/06/10 14:06 |
| S522 | 7 | S517 and S521 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 14:08 |
| S523 | 4 | S522 AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/06/10 14:10 |
| S524 | 8115 | ( (user UE terminal WTRU TE TA user adj2 equipment station ) NEAR5 (location$4 gps site$4 position latitude$4 coordinat$4) WITH (destination$4 deliver$4 receiver$4 ) SAME (server$3 proxy$3 gateway$1 webserver$4 cloud$4 ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/07/29 22:04 |
| S525 | 15234 | ( (user UE terminal WTRU TE TA user adj2 equipment station ) NEAR5 (location$4 gps site$4 position latitude$4 coordinat$4) SAME (destination$4 deliver$4 receiver$4 ) SAME (server$3 proxy$3 gateway$1 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/07/29 22:05 |

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| | | webserver$4 cloud$4 ) ) AND (@AD <"20080728") | | | | |
| S526 | 32 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$ or US-20080261560-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/07/29 22:05 |
| S527 | 2 | (US-20080056235-$ or US-20080261560-$).did. | US-PGPUB | OR | ON | 2019/07/29 22:06 |
| S528 | 2 | S527 and (location$4 GPS) and (user wtru terminal station ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/07/29 22:07 |
| S529 | 2 | "20130109314".PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/07/30 12:51 |
| S530 | 34 | (US-20070281705-$ or US-20090252159-$ or US-20130028251-$ or US-20040042607-$ or US-20080049732-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US- | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/08/13 16:07 |

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| | | 20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$).did. or (US-20080261560-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S531 | 2 | (US-20080261560-$ or US-20080056235-$).did. | US-PGPUB | OR | ON | 2019/08/13 17:22 |
| S532 | 6 | (US-20080261560-$ or US-20080056235-$ or US-20080160953-$ or US-20030114145-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2019/08/13 17:22 |
| S533 | 18 | S530 and (access$4 NEAR2 server ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:23 |
| S534 | 11 | S530 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) NEAR5 (location$4 gps address facility site$1 place$1 office$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:24 |
| S535 | 1 | S531 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) NEAR5 (location$4 gps address facility site$1 place$1 office$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:27 |
| S536 | 1 | S531 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) NEAR5 (location$4 gps address facility | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2019/08/13 17:36 |

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|---|---|---|---|---|---|---|
| | | site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 receiver$4 ) | DERWENT; IBM_TDB | | | |
| S537 | 4 | S534 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) NEAR5 (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 receiver$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:37 |
| S538 | 4 | S534 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) NEAR5 (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 receiver$4 ) and (reply$4 respons$4 feed$3back$4 return$4 acknowledgment$4 answer$4) WITH (location$4 gsp address site$1 place$1 office$3 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:42 |
| S539 | 4 | S530 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) NEAR5 (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 receiver$4 ) and (reply$4 respons$4 feed$3back$4 return$4 acknowledgment$4 answer$4) WITH (location$4 gsp address site$1 place$1 office$3 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:51 |
| S540 | 9 | S530 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) SAME (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 receiver$4 ) and (reply$4 respons$4 feed$3back$4 return$4 acknowledgment$4 answer$4) SAME (location$4 gsp address site$1 place$1 office$3 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 17:52 |
| S541 | 8 | S530 and (access$4 NEAR2 server ) and (terminal$4 User adj2 equipment UE TE TA equipment mobile cellular WTRU ) SAME (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 receiver$4 ) and | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2019/08/13 17:53 |

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|---|---|---|---|---|---|---|
| | | (reply$4 respons$4 feed$3back$4 return$4 acknowledgment$4 answer$4) SAME (location$4 gsp address site$1 place$1 office$3 ) AND (@AD <"20080728") | DERWENT; IBM_TDB | | | |
| S542 | 33 | S530 and ( (location$4 gps address facility site$1 place$1 office$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 18:02 |
| S543 | 21 | S530 and ( (ID identification key flag$4 ) WITH (location$4 gps address facility site$1 place$1 office$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 18:03 |
| S544 | 14 | S530 and ( (ID identification key flag$4 ) WITH (location$4 gps address facility site$1 place$1 office$4 ) and (access$4 NEAR2 server$3) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 18:03 |
| S545 | 12 | S530 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) NEAR5 (messag$4 code$4 packet$4 frame$3 ) AND (ID identification key flag$4 ) WITH (location$4 gps address facility site$1 place$1 office$4 ) and (access$4 NEAR2 server$3) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 18:04 |
| S546 | 313844 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:10 |
| S547 | 43 | S546 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) NEAR5 (messag$4 code$4 packet$4 frame$3 ) SAME (ID identification key flag$4 ) SAME (location$4 gps site$1 place$1 office$4 ) SAME (access$4 NEAR2 server$3) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 18:10 |

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|---|---|---|---|---|---|---|
| S548 | 43 | S546 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) NEAR5 (messag$4 code$4 packet$4 frame$3 ) SAME (ID identification key flag$4 ) SAME (location$4 gps site$1 place$1 office$4 ) SAME (access$4 NEAR2 server$3) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/08/13 18:11 |
| S549 | 8229 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2019/08/13 18:12 |
| S550 | 1156 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/13 18:12 |
| S551 | 1228 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2019/08/13 18:12 |
| S552 | 41274 | ( (H04W76/11 OR H04W76/15 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 18:12 |
| S553 | 35974 | S552 S549 S550 S551 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/08/13 18:12 |
| S554 | 0 | S548 and S553 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/08/13 18:13 |

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|---|---|---|---|---|---|---|
| S555 | 29 | "8402559" | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/08/13 18:36 |
| S556 | 8 | "8402559".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/08/13 18:36 |
| S557 | 1 | "8402559".pn. | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:36 |
| S558 | 4 | "32074773".FMID. | US-PGPUB; USPAT; FPRS | OR | ON | 2019/08/13 18:37 |
| S559 | 70646 | (terminal devic$1 wtru ue user adj2 equipment) WITH (location$4 gps site geograph$5) NEAR6 (id identification key flag$4 ) | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:39 |
| S560 | 6909 | (terminal devic$1 wtru ue user adj2 equipment) WITH (location$4 gps site geograph$5) NEAR6 (id identification key flag$4 ) and (destination$4) NEAR5 (phone number identification ID identif$4 ) | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:40 |
| S561 | 1118 | (terminal devic$1 wtru ue user adj2 equipment) WITH (location$4 gps site geograph$5) NEAR6 (id identification key flag$4 ) and (destination$4) NEAR5 (phone number identification ID identif$4 ) and (access$4 NEAR2 server$4 ) and (reply$4 respons$4 feed$1back feedback$3 ack acknowledg$4) NEAR5 (messag$4 packet$4 frame$4) | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:41 |
| S562 | 348 | S561 and (path$4 link$4 channel$4) WITH (router$4 rout$3 gateway$3 ) SAME Access$4 | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:43 |
| S563 | 117 | S561 and ((path$4 link$4 channel$4) WITH (router$4 rout$3 gateway$3 ) | US-PGPUB; USPAT | OR | ON | 2019/08/13 18:43 |

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| | | SAME Access$4 ) AND (@AD <"20080728") | | | | |
| S564 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 19:21 |
| S565 | 34 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$ or US-20080261560-$ or US-20030087648-$).did. or (US-20060043164-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/08/13 20:18 |
| S566 | 17 | S565 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) SAME (location$4 gps address facility site$1 place$1 office$4 ) and (access$4 NEAR2 server$3) and (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:19 |
| S567 | 12 | S565 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) SAME (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 arrival$4 place$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:20 |

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| | | site$3 point$4 )and (access$4 NEAR2 server$3) ) | | | | |
| S568 | 23 | S565 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) SAME (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 )and (access$4 NEAR2 server$3 server$4 webserver$4 computer$4 lifeserver$1 gateway$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:20 |
| S569 | 12 | S565 and ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) SAME (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 )and (access$4 NEAR2 (server$3 server$4 webserver$4 computer$4 lifeserver$1 gateway$4) ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:21 |
| S570 | 31139 | ("370" "455" "375" "715" "725" H04W$/$ H04L$/$).clas,cpc. AND ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) SAME (location$4 gps address facility site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 )and (access$4 NEAR2 (server$3 server$4 webserver$4 computer$4 lifeserver$1 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:32 |
| S571 | 10309 | ("370" "455" "375" "715" "725" H04W$/$ H04L$/$).clas,cpc. AND ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) SAME (location$4 gps site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 ) SAME2 (access$4 NEAR7 (server$3 server$4 webserver$4 computer$4 lifeserver$1 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:34 |
| S572 | 3886202 | ("370" "455" "375" "715" "725" H04W$/$ H04L$/$).clas,cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2019/08/13 20:34 |

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| | | | DERWENT; IBM_TDB | | | |
| S573 | 4311912 | ("370" "455" "375" "715" "725" H04W$/$ H04L$/$ H04B$/$ ).clas,cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:34 |
| S574 | 8840 | ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) WITH (location$4 gps site$1 place$1 office$4 ) SAME (destinat$4 deliver$4 arrival$4 place$4 site$3 point$4 ) SAME2 (access$4 NEAR7 (server$3 server$4 webserver$4 computer$4 lifeserver$1 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:37 |
| S575 | 4311912 | ("370".clas. "455".clas. "375".clas. "715".clas. "725".clas. H04W$/$.cpc. H04L$/$.cpc. H04B$/$.cpc. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 20:39 |
| S576 | 4277 | S574 and S575 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 21:00 |
| S578 | 7 | S576 AND ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) WITH (location$4 gps) SAME (destinat$4 NEAR4 (ID node identification identi$4 ) ) SAME (access$4 NEAR7 (server$3 webserver$4 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 21:02 |
| S579 | 3 | "38821872".FMID. | US-PGPUB; USPAT; FPRS | OR | ON | 2019/08/13 21:03 |
| S580 | 1 | S579 AND ( (reply$4 respons$4 echo$1back feed$1back acknowledg$4) AND (location$4 gps) SAME (destinat$4 | US-PGPUB; USPAT; FPRS; EPO; | OR | ON | 2019/08/13 21:05 |

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|---|---|---|---|---|---|---|
| | | NEAR6 (ID node identification identi$4 ) ) AND (access$4 NEAR7 (server$3 webserver$4 gateway$4) ) ) AND (@AD <"20080728") | JPO; DERWENT; IBM_TDB | | | |
| S581 | 1 | S579 AND ( (location$4 gps) SAME (destinat$4 NEAR6 (ID node identification identi$4 ) ) AND (access$4 NEAR7 (server$3 webserver$4 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 21:06 |
| S582 | 2 | S579 AND ( (location$4 gps) AND (destinat$4 NEAR6 (ID node identification identi$4 ) ) AND (access$4 AND (server$3 webserver$4 gateway$4) ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 21:06 |
| S583 | 1 | S530 and (access$3 WITH cod$3 SAME (location gps ) SAME (reply$4 respons$4 echoback feed$1back ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:06 |
| S584 | 8 | S530 and (access$3 SAME (location gps ) SAME (reply$4 respons$4 echoback feed$1back ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:07 |
| S585 | 8 | S530 and ((access$3 grand$4 ) SAME (location gps ) SAME (reply$4 respons$4 echoback feed$1back ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:08 |
| S586 | 6 | S530 and ((access$3 grand$4 ) SAME (location gps ) SAME (reply$4 respons$4 echoback feed$1back ) ) and (@AD<"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:08 |

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| S587 | 24 | S530 and ((access$3 grand$4 ) AND (location gps ) AND (reply$4 respons$4 echoback feed$1back ) ) and (@AD<"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:12 |
| S588 | 34 | ( (access$4 NEAR5 reply$4) SAME (wireless device wtru UE user adj2 equipment TE TA WTRU) SAME ( channel$4 rout$4 ) SAME (destinat$4 end$3 ) ) and (@AD<"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:23 |
| S589 | 0 | S553 AND ( (access$4 NEAR5 reply$4) SAME (wireless device wtru UE user adj2 equipment TE TA WTRU) SAME ( channel$4 rout$4 ) SAME (destinat$4 end$3 ) ) and (@AD<"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:23 |
| S590 | 5 | S553 AND ( (access$4 NEAR5 (reply$4 respons$4 ) ) SAME (wireless device wtru UE user adj2 equipment TE TA WTRU) SAME ( channel$4 rout$4 ) SAME (destinat$4 end$3 ) ) and (@AD<"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/13 23:24 |
| S591 | 34 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$ or US-20080261560-$ or US-20030087648-$).did. or (US-20060043164-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US- | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/08/14 13:28 |

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| | | 5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S592 | 1 | S591 and (access$4 NEAR4 (reply$4 respons$4) SAME Access$4 SAME channel$4 SAME (destinat$4 receiver$4 user adj3 end )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:29 |
| S593 | 1380 | (access$4 NEAR4 (reply$4 respons$4) SAME Access$4 SAME channel$4 SAME (destinat$4 receiver$4 user adj3 end )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:29 |
| S594 | 1 | S591 and (access$4 NEAR4 (reply$4 respons$4) SAME channel$4 SAME (destinat$4 receiver$4 user adj3 end )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:30 |
| S595 | 4 | S591 and (access$4 NEAR4 (reply$4 respons$4) SAME (channel$4 link$4 rout$4 connection ) SAME (destinat$4 receiver$4 user adj3 end )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:30 |
| S596 | 4 | S591 and (access$4 NEAR4 (reply$4 respons$4) SAME (channel$4 link$4 rout$4 connection ) SAME (destinat$4 receiver$4 user adj3 end mobile$4 device$4 wtru )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:31 |
| S597 | 3 | S591 and (access$4 NEAR4 (reply$4 respons$4) SAME (channel$4 link$4 rout$4 connection ) SAME (destinat$4 receiver$4 user adj3 end mobile$4 device$4 wtru )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:32 |
| S598 | 3 | (access$4 NEAR4 (reply$4 respons$4) SAME Access$4 NEAR2 code SAME channel$4 SAME (destinat$4 receiver$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2019/08/14 13:34 |

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| | | user adj3 end ) SAME communicat$4 ) AND (@AD <"20080728") | DERWENT; IBM_TDB | | | |
| S599 | 23 | (access$4 NEAR4 (reply$4 respons$4) SAME code SAME channel$4 SAME (destinat$4 receiver$4 user adj3 end ) SAME communicat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:36 |
| S600 | 114 | (access$4 NEAR4 (reply$4 respons$4) SAME code SAME channel$4 SAME (wireless adj2 device wtru mobile terminal destinat$4 receiver$4 user adj3 end ) SAME communicat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:36 |
| S601 | 350 | (access$4 NEAR4 (reply$4 respons$4) SAME (code key id identification identif$4 ) SAME channel$4 SAME (wireless adj2 device wtru mobile terminal destinat$4 receiver$4 user adj3 end ) SAME communicat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:37 |
| S602 | 60 | (access$4 NEAR3 (reply$4 respons$4) WITH (code key id identification identif$4 ) WITH channel$4 SAME (wireless adj2 device wtru mobile terminal destinat$4 receiver$4 user adj3 end ) SAME communicat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 13:49 |
| S603 | 0 | (reserv$4 NEAR5 channel$4 SAME Access NEAR3 reply$4 SAME (wireless adje device ) SAME (destinat$4 receiver$4 )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:02 |
| S604 | 0 | (reserv$4 NEAR5 channel$4 SAME Access NEAR3 reply$4 SAME (wireless adj2 device ) SAME (destinat$4 receiver$4 )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:02 |

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| S605 | 2 | (reserv$4 NEAR5 channel$4 SAME (reply$4 respons$4 ) SAME (wireless adj2 device ) SAME (destinat$4 receiver$4 )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:02 |
| S606 | 7 | (reserv$4 NEAR5 channel$4 SAME (wireless adj2 device ) SAME (destinat$4 receiver$4 )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:09 |
| S607 | 4 | (reserv$4 NEAR5 channel$4 SAME access$4 NEAR5 (reply$4 respons$4) SAME (destinat$4 receiver$4 )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:11 |
| S608 | 4 | ((reserv$4 retriv$4 restor$4 ) NEAR5 channel$4 SAME access$4 NEAR5 (reply$4 respons$4) SAME (destinat$4 receiver$4 )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:12 |
| S609 | 74 | (access near3 cod$3 NEAR3 (reply$4 respons$4) ) SAME (access$4 NEAR3 cod$4) SAME (wireless NEAR2 device) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:21 |
| S610 | 20 | (access near3 cod$3 NEAR3 (reply$4 respons$4) ) SAME (access$4 NEAR3 cod$4) SAME (wireless NEAR2 device) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:22 |
| S611 | 20 | (access near3 cod$3 NEAR3 (reply$4 respons$4) ) SAME (access$4 NEAR3 cod$4) SAME (wireless NEAR2 device) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2019/08/14 14:22 |

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| S612 | 52 | (access NEAR5 (reply$4 respons$4) ) SAME (access$4 NEAR3 cod$4) SAME (wireless NEAR2 device) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:26 |
| S613 | 91 | (access NEAR5 (reply$4 respons$4) ) SAME (access$4 NEAR3 cod$4) SAME (wireless NEAR2 (device terminal$4 equipment ) user adj2 equipment WTRU ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:26 |
| S614 | 3736 | (access$4 NEAR5 (allow$4 grant$4) WITH (reply$4 respons$4) SAME (server$4 webserv$5 network$4) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:40 |
| S615 | 33 | S614 and (destination$4 receiver$4) SAME channel$4 NEAR4 access$5 with (grant$4 allow$4 permission$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:42 |
| S616 | 5 | "6415154".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:44 |
| S617 | 4 | "20160026743" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:45 |
| S618 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:53 |

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| S619 | 1 | S618 AND (access NEAR5 reply SAME (receiv$4 WITH access NEAR3 code) SAME destination SAME channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 14:53 |
| S620 | 3 | "20070286170" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:10 |
| S621 | 2 | S620 and (respons$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:10 |
| S622 | 2 | S620 and (respons$4 and (location$4 gps ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:10 |
| S623 | 2 | S620 and (respons$4 and (location$4 gps ) and (server$4 gateway$4 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:11 |
| S624 | 2 | S620 and (respons$4 and (location$4 gps ) and (server$4 gateway$4 ) and (path$4 rout$4 link$4 channel$4 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:11 |
| S625 | 2 | S620 and (respons$4 and (location$4 gps ) and (server$4 gateway$4 ) and (path$4 rout$4 link$4 channel$4 ) AND (access$4 grant$4 allow$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:12 |

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| S626 | 2 | S620 and (( respons$4 reply$4 ) and (location$4 gps ) and (server$4 gateway$4 ) and (path$4 rout$4 link$4 channel$4 ) AND (access$4 grant$4 allow$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 15:12 |
| S627 | 34 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$ or US-20080261560-$ or US-20030087648-$).did. or (US-20060043164-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/08/14 17:09 |
| S628 | 6 | S591 and (reply$4 respons$4 feed$1back feedback$4 ack acknowledg$4) NEAR5 (code$4 grant$4 allow$4 ) SAME (channel$4 path$3 rout$3 frequency$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:10 |
| S629 | 10 | S591 and (reply$4 respons$4 feed$1back feedback$4 ack acknowledg$4) NEAR5 (code$4 grant$4 allow$4 ) AND (channel$4 path$3 rout$3 frequency$4 ) WITH (reply$4 respons$4 feed$1back feedback$4 ack acknowledg$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:12 |

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| S630 | 2 | (access$4 NEAR2 reply$4 WITH channel$4 WITH Destinat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:36 |
| S631 | 2 | (access$4 NEAR2 reply$4 SAME channel$4 SAME Destinat$4 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:36 |
| S632 | 3 | (access$4 NEAR2 reply$4 SAME channel$4 SAME (wireless adj3 ( device terminal equipment) WTRU ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:37 |
| S633 | 3 | (access$4 NEAR2 reply$4 SAME (channel$4 frequenc$4 ) SAME (wireless adj3 ( device terminal equipment) WTRU ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:37 |
| S634 | 3 | (access$4 NEAR2 reply$4 SAME (channel$4 frequenc$4 tunnel$4 ) SAME (wireless adj3 ( device terminal equipment) WTRU ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:38 |
| S635 | 406 | (access$4 NEAR6 ( respons$4 reply$4) SAME (channel$4 frequenc$4 tunnel$4 ) SAME (wireless adj3 ( device terminal equipment) WTRU ) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:38 |
| S636 | 86 | (access$4 NEAR6 ( respons$4 reply$4) SAME (channel$4 frequenc$4 tunnel$4 ) SAME (wireless adj3 ( device terminal equipment) OR WTRU ) SAME (destination$3 end remot$4 receiver$3 )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:39 |

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| S637 | 1462 | (access$4 NEAR6 ( respons$4 reply$4) SAME (channel$4 frequenc$4 tunnel$4 ) WITH (destination$3 end remot$4 receiver$3 )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:53 |
| S638 | 422 | (access$4 NEAR3 ( respons$4 reply$4) WITH (channel$4 frequenc$4 tunnel$4 ) WITH (destination$3 end remot$4 receiver$3 )) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:53 |
| S639 | 97 | (access$4 NEAR3 ( respons$4 reply$4) WITH (channel$4 frequenc$4 tunnel$4 ) WITH (destination$3 end remot$4 receiver$3 ) SAME (wireless cellular)) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:53 |
| S640 | 1 | (channel$4 WITH select$4 WITH (replay resons$4 ) WITH access$4 SAME destinat$3 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 17:59 |
| S641 | 1 | (channel$4 NEAR5 select$4 SAME (replay resons$4 ) SAME access$4 SAME destinat$3 ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:00 |
| S642 | 0 | (channel$4 NEAR5 select$4 SAME access NEAR5 (replay resons$4 ) SAME (wireless cellular) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:01 |
| S643 | 0 | (channel$4 NEAR5 select$4 SAME (access$4 admission$4 etner$4 servic$4 cover$4 retriev$4 ) NEAR5 (replay resons$4 ) SAME (wireless cellular) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:03 |

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| S644 | 17 | (( channel$4 frequenc$4 ) SAME (access$4 admission$4 etner$4 servic$4 cover$4 retriev$4 ) NEAR5 (replay resons$4 ) SAME (wireless cellular) ) AND (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:03 |
| S645 | 4311912 | ("370".clas. "455".clas. "375".clas. "715".clas. "725".clas. H04W$/$.cpc. H04L$/$.cpc. H04B$/$.cpc. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:05 |
| S646 | 7 | S645 and S644 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:05 |
| S647 | 501 | S645 and ( channel$4 WITH access NEAR2 code WITH wireless ) AND (@AD <"20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:08 |
| S648 | 0 | S645 and ( channel$4 WITH access NEAR2 code NEAR5 (reply$4 resons$4 ) WITH wireless ) AND (@AD <"20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:09 |
| S649 | 1 | S645 and ( channel$4 WITH access NEAR2 code SAME (reply$4 resons$4 ) WITH wireless ) AND (@AD <"20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:09 |
| S650 | 1 | S645 and ( channel$4 WITH access NEAR2 code SAME (reply$4 resons$4 ) SAME wireless ) AND (@AD <"20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:09 |

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| S651 | 36 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$ or US-20080261560-$ or US-20030087648-$).did. or (US-20060043164-$ or US-20070286170-$ or US-20070230423-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/08/14 18:10 |
| S652 | 4 | S596 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:10 |
| S653 | 1 | S652 AND (channel$4 SAME access$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:11 |
| S654 | 1 | S652 AND (channel$4 and wireless and (reply$4 respons$4 ) and wireless ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:14 |
| S655 | 17 | S651 AND (channel$4 and wireless and (reply$4 respons$4 ) and wireless ) | US-PGPUB; USPAT; FPRS; EPO; | OR | ON | 2019/08/14 18:15 |

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| | | | JPO; DERWENT; IBM_TDB | | | |
| S656 | 3 | (US-20080056235-$ or US-20070286170-$ or US-20070230423-$).did. | US-PGPUB | OR | ON | 2019/08/14 18:35 |
| S657 | 3 | S656 and (server$4 and (data voice video ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:36 |
| S658 | 3 | S656 and (server$4 and (data voice video ) and (sms short$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 18:43 |
| S659 | 2 | S658 and (IP NEAR5 address ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 21:05 |
| S660 | 2 | S658 and (IP NEAR5 address ) same (location$4 gps ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 21:05 |
| S661 | 3 | (US-20080056235-$ or US-20070286170-$ or US-20070230423-$).did. | US-PGPUB | OR | ON | 2019/08/14 21:47 |
| S662 | 3 | S661 and (server$4 and (data voice video ) and (sms short$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 21:47 |

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| S663 | 2 | S662 and (IP NEAR5 address ) same (location$4 gps ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/14 21:47 |
| S664 | 3 | (US-20080056235-$ or US-20070286170-$ or US-20070230423-$).did. | US-PGPUB | OR | ON | 2019/08/15 01:45 |
| S665 | 3 | S664 and (server$4 and (data voice video ) and (sms short$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:45 |
| S666 | 2 | S665 and (IP NEAR5 address) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:45 |
| S667 | 2 | S665 and (IP NEAR5 address) AND (router$4 gateway$4 switch$4 network near2 (equipment device element ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:46 |
| S668 | 48 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:47 |
| S669 | 34 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ | US-PGPUB; USPAT; DERWENT | OR | ON | 2019/08/15 01:47 |

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| | | or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$ or US-20080255944-$ or US-20060077983-$ or US-20080261560-$ or US-20030087648-$).did. or (US-20060043164-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S670 | 27 | (S668 S669) and (IP NEAR5 address) AND (router$4 gateway$4 switch$4 network near2 (equipment device element ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:47 |
| S671 | 27 | (S668 S669) and (IP NEAR5 address) AND (router$4 gateway$4 switch$4 network near2 (equipment device element ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:48 |
| S672 | 25 | (S668 S669) and (IP NEAR5 address) SAME2 (router$4 gateway$4 switch$4 network near2 (equipment device element ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:48 |
| S673 | 8 | (S668 S669) and ((second another different alternativ$4 third fourth "2nd" "3rd" ) WITH IP NEAR5 address) SAME2 (router$4 gateway$4 switch$4 network near2 (equipment device element ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 01:49 |
| S674 | 1 | "36462815".FMID. | US-PGPUB; USPAT; FPRS | OR | ON | 2019/08/15 01:55 |

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| S675 | 24 | (S668 S669) and (IP NEAR5 address) SAME2 (router$4 gateway$4 switch$4 network near2 (equipment device element ) and (location$4 gps ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 02:01 |
| S676 | 24 | (S668 S669) and (IP NEAR5 address) SAME2 (router$4 gateway$4 switch$4 network near2 (equipment device element ) SAME3 (location$4 gps ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 02:01 |
| S677 | 24 | (S668 S669) and (IP NEAR5 address) SAME3 (router$4 gateway$4 switch$4 network near2 (equipment device element ) SAME3 (location$4 gps ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 02:01 |
| S678 | 20 | (S668 S669) and (IP NEAR5 address) SAME (router$4 gateway$4 switch$4 network near2 (equipment device element ) SAME (location$4 gps ) ) and (@AD <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/15 02:02 |
| S679 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2019/08/16 18:36 |
| S680 | 3 | (US-20080056235-$ or US-20070286170-$ or US-20070230423-$).did. | US-PGPUB | OR | ON | 2019/08/16 18:53 |
| S681 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2020/05/02 14:09 |
| S682 | 11 | ((("VOIP-PAL.COM") near3 ("INC"))).AS,AANM. | USPAT | OR | ON | 2020/05/02 14:10 |

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| S683 | 16 | ((("Sobolyev") near3 ("Maksym"))).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2020/05/02 14:11 |
| S684 | 10 | ((("Huttunen") near3 ("Pentti") near3 ("Kalevi"))).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2020/05/02 14:11 |
| S685 | 4 | ((("Malak") near3 ("Emil"))).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2020/05/02 14:11 |
| S686 | 29 | (digifonica).as,AANM. | US-PGPUB; USPAT | OR | ON | 2020/05/02 14:12 |
| S687 | 20 | ((("VOIP-PAL.COM") )).AS,AANM. | US-PGPUB; USPAT | OR | ON | 2020/05/02 14:12 |
| S688 | 0 | (S687 S686 S685 S684 S683 S682) AND (source$4 and destinat$4 and (access$4 NEAR4 (code$4 id idenfication$4 key flag$4 ) ) AND (location$4 gps) AND (reply$4 feedback$4 ) ).clm. | US-PGPUB; USPAT | OR | ON | 2020/05/02 16:58 |
| S689 | 0 | (S687 S686 S685 S684 S683 S682) AND (source$4 and destinat$4 and (access$4 AND (code$4 id idenfication$4 key flag$4 ) ) AND (location$4 gps) AND (reply$4 feedback$4 ) ).clm. | US-PGPUB; USPAT | OR | ON | 2020/05/02 17:05 |
| S690 | 3 | (S687 S686 S685 S684 S683 S682) AND ( (destinat$4 UE terminal$4 phone mobile$4 WTRU STA STA TE TA ) and (access$4 AND (code$4 id idenfication$4 key flag$4 ) ) AND (location$4 gps) AND (reply$4 feedback$4 ) ).clm. | US-PGPUB; USPAT | OR | ON | 2020/05/02 17:06 |
| S691 | 36 | (US-20080261560-$ or US-20080125146-$ or US-20070281705-$ or US-20030095542-$ or US-20140016635-$ or US-20070112964-$ or US-20080255944-$ or US-20080056235-$ or US-20080160953-$ or US-20030087648-$ or US-20030114145-$ or US-20060077983-$ or US-20070286170-$ or US-20020122391-$ or US-20040042607-$ or US-20060043164-$ or US- | US-PGPUB; USPAT; DERWENT | OR | ON | 2020/05/02 17:38 |

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| S692 | 3 | (US-20080056235-$ or US-20070286170-$ or US-20070230423-$).did. | US-PGPUB | OR | ON | 2020/05/02 17:45 |
| S693 | 2 | S692 and (location$4 gps) and (packet$4 frame$4 reply$4 echo$3 ) | US-PGPUB | OR | ON | 2020/05/02 19:03 |
| S694 | 1 | S681 and (access near5 code$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2020/05/02 19:14 |
| S700 | 1 | 14/035806.app. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2020/05/04 13:07 |
| S701 | 3 | (US-20080056235-$ or US-20070286170-$ or US-20070230423-$).did. | US-PGPUB | OR | ON | 2020/05/04 14:21 |
| S702 | 2 | S701 and (location$4 gps) and (packet$4 frame$4 reply$4 echo$3 ) | US-PGPUB | OR | ON | 2020/05/04 14:21 |
| S703 | 1 | S700 and (location$4 gps) SAME (access near4 code$1 ) | US-PGPUB | OR | ON | 2020/05/04 14:46 |
| S704 | 1 | S701 and (access$4 NEAR5 code$1 ) | US-PGPUB; USPAT; FPRS; EPO; | OR | ON | 2020/05/04 15:08 |

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| | | | JPO; IBM_TDB | | | |
| S705 | 2 | S701 and (access$4 AND location$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/04 15:08 |
| S706 | 45 | ( reply$3 feedback$4 feed$1back$3 acknowledg$4 ACK respons$4) NEAR3 (messag$4 packet$4 frame$1 PDU data adj2 gram$1 data adj2 unit$4 ) SAME access$3 NEAR3 code$3 SAME (location$3 GPS position$4 coordinat$4 latitud$4 ) NEAR5 (identifier$3 ID information$4 data$1) SAME (request$4 demand$4 ask$4 query$4 solicit$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/04 16:11 |
| S707 | 45 | ( reply$3 feedback$4 feed$1back$3 acknowledg$4 ACK respons$4) NEAR3 (messag$4 packet$4 frame$1 PDU data adj2 gram$1 data adj2 unit$4 ) SAME access$3 NEAR3 code$3 SAME (location$3 GPS position$4 coordinat$4 latitud$4 ) NEAR5 (identifier$3 ID information$4 data$1) SAME (request$4 demand$4 ask$4 query$4 solicit$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/04 16:18 |
| S708 | 22 | ( reply$3 feedback$4 feed$1back$3 acknowledg$4 ACK respons$4) NEAR3 (messag$4 packet$4 frame$1 PDU data adj2 gram$1 data adj2 unit$4 ) SAME access$3 NEAR3 code$3 SAME (location$3 GPS position$4 coordinat$4 latitud$4 ) NEAR5 (identifier$3 ID information$4 data$1) SAME (request$4 demand$4 ask$4 query$4 solicit$4 ) SAME (channel$3 path$1 rout$4 link$1 lane$1 piplelin$1 pathway$1 tunnel$3 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/04 16:48 |
| S709 | 11511 | (reply$4 feed$1back$4 feedbck$1 acknowledg$5 ACK) NEAR5 (channel$4 frequency$4 path$4 rout$4 access$1 near2 code$4) SAME (location$4 gps$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/04 17:03 |

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| S710 | 3866 | (reply$4 feed$1back$4 feedbck$1 acknowledg$5 ACK) NEAR5 (channel$4 frequency$4 path$4 rout$4 access$1 near2 code$4) SAME (location$4 gps$4 ) AND (@AD <"20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/04 17:04 |
| S711 | 34 | ( (server$4 gatewar$4 rout$4) NEAR6 (reply$4 feed$1back$4 feedbck$1 acknowledg$5 ACK) NEAR5 (channel$4 frequency$4 path$4 rout$4 access$1 near2 code$4) SAME (location$4 gps$4 ) NEAR5 (WD wireless adj2 device$4 WTRU terminal TA TE user adj2 equipment UE STA STB) ) AND (@AD <"20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/04 17:05 |
| S712 | 104 | ( (server$4 gatewar$4 rout$4) NEAR6 (reply$4 feed$1back$4 feedbck$1 acknowledg$5 ACK) SAME (channel$4 frequency$4 path$4 rout$4 access$1 near2 code$4) SAME (location$4 gps$4 ) SAME (WD wireless adj2 device$4 WTRU terminal TA TE user adj2 equipment UE STA STB) ) AND (@AD <"20080728" ) NOT S711 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/04 17:29 |
| S713 | 138 | ( (server$4 gatewar$4 rout$4) NEAR6 (reply$4 feed$1back$4 feedbck$1 acknowledg$5 ACK) SAME (channel$4 frequency$4 path$4 rout$4 access$1 near2 code$4) SAME (location$4 gps$4 ) SAME (WD wireless adj2 device$4 WTRU terminal TA TE user adj2 equipment UE STA STB) ) AND (@AD <"20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/04 17:29 |
| S714 | 104 | S713 NOT S711 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/05/04 17:32 |

**EAST Search History (Interference)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
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| L17 | 5 | ( (destinat$4 UE terminal$4 phone mobile$4 WTRU STA STA TE TA ) and (access$4 AND (code$4 id idenfication$4 key flag$4 ) ) AND (location$4 gps geographic$5 ) AND (reply$4 feedback$4 ) AND (router$4 gateway$4 ) AND (channel$4 path$4 rout$4 link$4 ) and (distinct$4 different$4 another$4 separat$4 ) AND (user$1 input$4 ) AND (server$4 webserver$4 ) AND (packet$4 frame$4 messag$4 PDU) ).clm. | USPAT | OR | ON | 2020/05/05 19:28 |
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| S696 | 57 | ( (destinat$4 UE terminal$4 phone mobile$4 WTRU STA STA TE TA ) and (access$4 AND (code$4 id idenfication$4 key flag$4 ) ) AND (location$4 gps) AND (reply$4 feedback$4 ) AND (router$4 gateway$4 ) AND (channel$4 path$4 rout$4 link$4 ) and (distinct$4 different$4 another$4 separat$4 ) ).clm. | US-PGPUB; USPAT | OR | ON | 2020/05/02 17:09 |
| S697 | 43 | ( (destinat$4 UE terminal$4 phone mobile$4 WTRU STA STA TE TA ) and (access$4 AND (code$4 id idenfication$4 key flag$4 ) ) AND (location$4 gps geographic$5 ) AND (reply$4 feedback$4 ) AND (router$4 gateway$4 ) AND (channel$4 path$4 rout$4 link$4 ) and (distinct$4 different$4 another$4 separat$4 ) AND (user$1 input$4 ) ).clm. | US-PGPUB; USPAT | OR | ON | 2020/05/02 17:11 |
| S698 | 29 | ( (destinat$4 UE terminal$4 phone mobile$4 WTRU STA STA TE TA ) and (access$4 AND (code$4 id idenfication$4 key flag$4 ) ) AND (location$4 gps geographic$5 ) AND (reply$4 feedback$4 ) AND (router$4 gateway$4 ) AND (channel$4 path$4 rout$4 link$4 ) and (distinct$4 different$4 another$4 separat$4 ) AND (user$1 input$4 ) AND (server$4 webserver$4 ) ).clm. | US-PGPUB; USPAT | OR | ON | 2020/05/02 17:12 |
| S699 | 5 | ( (destinat$4 UE terminal$4 phone mobile$4 WTRU STA STA TE TA ) and (access$4 AND (code$4 id idenfication$4 key flag$4 ) ) AND (location$4 gps geographic$5 ) AND (reply$4 feedback$4 ) AND (router$4 gateway$4 ) AND | USPAT | OR | ON | 2020/05/02 17:13 |

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**5/5/2020 10:04:53 PM**
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**To:** patentdocket@tnw.com,warren.archibald@tnw.com,
**From:** PAIR_eOfficeAction@uspto.gov
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| Application | Document | Mailroom Date | Attorney Docket No. |
|---|---|---|---|
| 14035806 | NOA | 05/13/2020 | 4278-004.PCT.US.CON1 |

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**Courtesy Reminder for**
**Application Serial No: 14/035,806**

Attorney Docket No: 4278-004.PCT.US.CON1
Customer Number: 20551
Date of Electronic Notification: 05/13/2020

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# Electronic Acknowledgement Receipt

| | |
|---|---|
| **EFS ID:** | 40268797 |
| **Application Number:** | 14035806 |
| **International Application Number:** | |
| **Confirmation Number:** | 5562 |
| **Title of Invention:** | MOBILE GATEWAY |
| **First Named Inventor/Applicant Name:** | Johan Emil Viktor Björsell |
| **Customer Number:** | 20551 |
| **Filer:** | Sean Franklin Parmenter/Jenny Morison |
| **Filer Authorized By:** | Sean Franklin Parmenter |
| **Attorney Docket Number:** | 4278-004.PCT.US.CON1 |
| **Receipt Date:** | 12-AUG-2020 |
| **Filing Date:** | 24-SEP-2013 |
| **Time Stamp:** | 23:36:32 |
| **Application Type:** | Utility under 35 USC 111(a) |

## Payment information:

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| Submitted with Payment | no |

## File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
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| 1 | Non Patent Literature | ConfigDEFCOMMON00049303-100.pdf | 20695629<br>8fa8e84fb449f7714f728105b5c73f7e0a64769d | no | 100 |

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| 7 | Non Patent Literature | DEFCOMMON00050756.pdf | 6701499<br>a974756b4af37abe9eab86c2637cd94e940fc221 | no | 42 |
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| 8 | Non Patent Literature | DEFCOMMON00053362_image.pdf | 621852<br>1a98b80b79f6698cd0c9888861d365471a050a25 | no | 3 |
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| 28 | Non Patent Literature | DEFCOMMON00056164_image-2003COPYRIGHTDATE.pdf | 8624591<br>7358c222207b663f84d53494cf2482bef1b7b9b3 | no | 70 |
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| 42 | Non Patent Literature | DEFCOMMON00010431a.pdf | 19894815<br>2c3ce2daacb1466bca9fdccb364d51de7153836a | no | 269 |
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| 43 | Non Patent Literature | DEFCOMMON00050798_image100.pdf | 21321254<br>11ecfb336eae20e52f895b7dbe6957e4fe924dc1 | no | 100 |
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| 44 | Non Patent Literature | DEFCOMMON00050798_image200.pdf | 24995549<br>0988167849ced3ed874649c7b888ec68f41a50c8 | no | 100 |
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| 45 | Non Patent Literature | DEFCOMMON00050798_image300.pdf | 25817263<br>766e2a7c1deea59da58682e1bf48ecce3caf3697 | no | 100 |
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| 46 | Non Patent Literature | DEFCOMMON00050798_image421.pdf | 25443323<br>5b6488cdf7c026f946a7538101858c97148a5d9a | no | 121 |
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| 47 | Non Patent Literature | DEFCOMMON00057483-350.pdf | 14787083<br>ab30cf694c56bdf89daea9f20e22c9b76ca8564e | no | 350 |
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| 48 | Non Patent Literature | DEFCOMMON00057483-729.pdf | 15827909<br>344c1a43cec6f101651476ebad70f5b524db23cf | no | 379 |
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| | | **Total Files Size (in bytes):** | 421271709 | | |

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**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

PTO/SB/30EFS (03-09)
Approved for use through 04/30/2009. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# REQUEST FOR CONTINUED EXAMINATION(RCE)TRANSMITTAL
## (Submitted Only via EFS-Web)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Application Number | 14/035,806 | Filing Date | 2013-09-24 | Docket Number (if applicable) | 4278-004.PCT.US.CON1 | Art Unit | 2411 |
| First Named Inventor | Johan Emil Viktor Björseii | | | Examiner Name | M. Mostazir Rahman | | |

**This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.**
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. The Instruction Sheet for this form is located at WWW.USPTO.GOV

### SUBMISSION REQUIRED UNDER 37 CFR 1.114

Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

- ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
- ☐ Other _____

☒ Enclosed

- ☐ Amendment/Reply
- ☒ Information Disclosure Statement (IDS)
- ☐ Affidavit(s)/ Declaration(s)
- ☐ Other _____

### MISCELLANEOUS

☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months _____ (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

☐ Other _____

### FEES

**The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.**

☒ The Director is hereby authorized to charge any underpayment of fees, or credit any overpayments, to Deposit Account No 200100

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

☒ Patent Practitioner Signature

☐ Applicant Signature

PTO/SB/30EFS (03-09)
Approved for use through 04/30/2009. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| Signature of Registered U.S. Patent Practitioner | | | |
|---|---|---|---|
| Signature | /Sean F. Parmenter/ | Date (YYYY-MM-DD) | 2020-08-12 |
| Name | Sean F. Parmenter | Registration Number | 53437 |

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

# Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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# Electronic Patent Application Fee Transmittal

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| **Application Number:** | 14035806 |
| **Filing Date:** | 24-Sep-2013 |
| **Title of Invention:** | MOBILE GATEWAY |
| **First Named Inventor/Applicant Name:** | Johan Emil Viktor Björsell |
| **Filer:** | Sean Franklin Parmenter/Jenny Morison |
| **Attorney Docket Number:** | 4278-004.PCT.US.CON1 |

Filed as Small Entity

**Filing Fees for Utility under 35 USC 111(a)**

| Description | Fee Code | Quantity | Amount | Sub-Total in USD($) |
|---|---|---|---|---|
| **Basic Filing:** | | | | |
| **Pages:** | | | | |
| **Claims:** | | | | |
| **Miscellaneous-Filing:** | | | | |
| **Petition:** | | | | |
| **Patent-Appeals-and-Interference:** | | | | |
| **Post-Allowance-and-Post-Issuance:** | | | | |
| **Extension-of-Time:** | | | | |



T-Mobile Exhibit 1002

| Description | Fee Code | Quantity | Amount | Sub-Total in USD($) |
|---|---|---|---|---|
| **Miscellaneous:** | | | | |
| RCE- 2ND AND SUBSEQUENT REQUEST | 2820 | 1 | 950 | 950 |
| | | **Total in USD ($)** | | **950** |

# Electronic Acknowledgement Receipt

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|---|---|
| **EFS ID:** | 40268140 |
| **Application Number:** | 14035806 |
| **International Application Number:** | |
| **Confirmation Number:** | 5562 |
| **Title of Invention:** | MOBILE GATEWAY |
| **First Named Inventor/Applicant Name:** | Johan Emil Viktor Björsell |
| **Customer Number:** | 20551 |
| **Filer:** | Sean Franklin Parmenter/Jenny Morison |
| **Filer Authorized By:** | Sean Franklin Parmenter |
| **Attorney Docket Number:** | 4278-004.PCT.US.CON1 |
| **Receipt Date:** | 12-AUG-2020 |
| **Filing Date:** | 24-SEP-2013 |
| **Time Stamp:** | 23:37:35 |
| **Application Type:** | Utility under 35 USC 111(a) |

## Payment information:

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|---|---|
| Submitted with Payment | yes |
| Payment Type | CARD |
| Payment was successfully received in RAM | $950 |
| RAM confirmation Number | E20208BN38364671 |
| Deposit Account | |
| Authorized User | |
| The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: | |

## File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|---|---|---|---|---|---|
| 1 | Transmittal Letter | 4C1IDSTransmittal.pdf | 237997<br>48720642354467 89fef2e38d1bb59198b047a903 | no | 4 |
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| 2 | Information Disclosure Statement (IDS) Form (SB08) | 4C1SB08B.pdf | 313017<br>8dab6133ceebce51cb8c8ead7a357066b6dba85a | no | 4 |
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| This is not an USPTO supplied IDS fillable form | | | | | |
| 3 | Request for Continued Examination (RCE) | 4C1RCETransmittal.pdf | 79857<br>f62560d5023e5397bb9a4031e4ae6d749259f1f9 | no | 3 |
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| 4 | Non Patent Literature | DEFCOMMON00057097_image.pdf | 6129332<br>cbfc5064af9938b67b4e2d70f7ae370739d46c66 | no | 11 |
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| 5 | Non Patent Literature | DEFCOMMON00051219_image.pdf | 9634641<br>fe682730ac4be52109a38710280ef2dfa0b87c58 | no | 71 |
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| 6 | Non Patent Literature | FutureDEFCOMMON00051306_image-1.pdf | 14948288<br>9c34c1b5f8312e34bb526993f356f0f072d0fe67 | no | 188 |
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| 8 | Non Patent Literature | BuildingDEFCOMMON00051682_image.pdf | 14567056<br>b5f60ce4ff973ca5ed8646a093706b886086f337 | no | 174 |
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| 33 | Non Patent Literature | AVVIDCisco-VoIPPal00000807-200.pdf | 7447440<br>9bbbd5211cee2f489d4d603c73402cd5f9b27a3d | no | 50 |
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| 34 | Non Patent Literature | AVVIDCisco-VoIPPal00000807-225.pdf | 3592104<br>eab50bd2c7f38bef965bd8956c1ece1bb36b4549 | no | 25 |
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| 40 | Non Patent Literature | AVVIDCisco-VoIPPal00000807-600.pdf | 9518076<br>da1486c449e9babb1f114026c490650576b20487 | no | 75 |
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| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 51 | Non Patent Literature | BestCisco-VoIPPal00000809-300.pdf | 23646767<br>5981f2c403b1b4de10a56a50ee37ebdacbf4f901 | no | 150 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 52 | Non Patent Literature | BestCisco-VoIPPal00000809-450.pdf | 21582696<br>7c76253a3a111465e8e6b7891c24ce96bee63335 | no | 150 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 53 | Non Patent Literature | BestCisco-VoIPPal00000809-620.pdf | 23171460<br>7f5b871c315f25dbb00e8ddaac6a5e91740bf931 | no | 170 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 54 | Non Patent Literature | TelephonyDEFCOMMON00008286-130.pdf | 18617884<br>876e4a6a49083ca0aeb05e143d30e2a25db3f994 | no | 130 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |

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| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 56 | Fee Worksheet (SB06) | fee-info.pdf | 30799<br>4a9f1973aad12c302ab37baadb5c397967929d33 | no | 2 |
| **Warnings:** | | | | | |
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| | | **Total Files Size (in bytes):** | 800255862 | | |

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**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

| | |
|---|---|
| ART UNIT: 2411<br><br>EXAMINER: M. Mostazir Rahman<br><br>FIRST NAMED INVENTOR: Johan Emil Viktor Björsell<br><br>SERIAL NO.: 14/035,806<br><br>FILED: 9/24/2013<br><br>CONF. NO.: 5562<br><br>FOR: MOBILE GATEWAY<br><br>DOCKET NO.: 4278-004.PCT.US.CON1 | **CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8**<br><br>DATE OF DEPOSIT: August 12, 2020<br><br>I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being submitted on the date indicated above via:<br>☒ EFS Web<br>☐ facsimile to _____<br>☐ the United States Postal Service with sufficient postage as first class mail addressed to: Mail Stop _____, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.<br><br>/Sean F. Parmenter/<br>Sean F. Parmenter |

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.56, 1.97 and 1.98**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir/Madam:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement, which is being submitted in accordance with:

☒ 37 C.F.R. § 1.97(b)(1) or (3) or (4), within three months of the filing date of the application, or before a first office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. § 1.114, whichever occurs last;

☐ 37 C.F.R. § 1.97(c), after a first office action on the merits, but before a Final Office Action or a Notice of Allowance, whichever occurs first, and is accompanied by **EITHER** a statement in accordance with 37 C.F.R. § 1.97(e), **OR** the fee set forth in 37 C.F.R. § 1.17(p); or

☐ 37 C.F.R. § 1.97(d), after a Final Office Action, Notice of Allowance or Ex parte Quayle

action, whichever occurs first, but on or before payment of the issue fee, and is accompanied by **BOTH** a statement in accordance with 37 C.F.R. § 1.97(e), **AND** the fee set forth in 37 C.F.R. § 1.17(p).

**SUBMISSIONS**

Please find enclosed, pursuant to 37 C.F.R. §§ 1.97 and 1.98:

☒ Form **PTO/SB/08A** and/or **PTO/SB/08B** listing the references submitted for consideration, which contains a list of all patents, publications and all other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c).

☒ Legible copies of the listed non-patent documents, unpublished U.S. applications and foreign documents or their relevant portions are included.

☐ All English translations of each non-English reference, if any, within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) (see 37 C.F.R. §1.98 are included.

☐ For all listed references that are not either in the English language, or accompanied by a translation into English, a concise explanation of relevance as required under 37 C.F.R. § 1.98(a)(3) is enclosed attached to each.

Copies of references listed on the enclosed PTO/SB/08A and/or PTO/SB/08B are **not** enclosed:

☐ because, under 37 C.F.R. § 1.98.(d), they were previously cited by or submitted to the Office in application number _____, which is relied upon for an earlier filing date under 37 C.F.R. § 1.20.

☐ because they are substantially cumulative of an enclosed reference.

**STATEMENT IN ACCORDANCE WITH 37 C.F.R. § 1.97(e)**

☐ I hereby certify that each item contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

☐ I hereby certify that no item contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

**REMARKS**

While no representation is made that any of these references may be "prior art" within the meaning of that term in accordance with 37 C.F.R. §§ 102 or 103, the enclosed list of references is disclosed so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

☐ Payment in the amount of $ ____ constituting the submission fee set forth in 37 C.F.R. § 1.17(p) is enclosed.

In the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that the Statement meets the requirements of 37 C.F.R. § 1.97(e), or in any other event remediable by a fee, please credit any

over payment or charge any additional fees to Deposit Account No. 20-0100 of the undersigned.

Dated this 12th day of August, 2020.

Respectfully submitted,

/Sean F. Parmenter/

Sean F. Parmenter
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**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet | | of | |

| Complete if Known | |
|---|---|
| Application Number | 14/035,806 |
| Filing Date | 9/24/2013 |
| First Named Inventor | Johan Emil Viktor Björsell |
| Art Unit | 2411 |
| Examiner Name | M. Mostazir Rahman |
| Attorney Docket Number | 4278-004.PCT.US.CON1 |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No.[1] | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[2] |
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| Examiner Name | M. Mostazir Rahman |
| Attorney Docket Number | 4278-004.PCT.US.CON1 |

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| First Named Inventor | Johan Emil Viktor Björsell |
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| Examiner Name | M. Mostazir Rahman |
| Attorney Docket Number | 4278-004.PCT.US.CON1 |

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(Use as many sheets as necessary)

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| Examiner Name | M. Mostazir Rahman |
| Attorney Docket Number | 4278-004.PCT.US.CON1 |

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| Examiner Signature | | Date Considered | |
|---|---|---|---|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No. | 14/035,806 |
|---|---|---|
| | Filing Date | 9/24/2013 |
| | First Named Inventor | Johan Emil Viktor Björsell |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | M. Mostazir Rahman |
| SHEET 1 OF 4 | Attorney Docket No. | 4278-004.PCT.US.CON1 |

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| Examiner Initials | Cite No. | Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1 | Publication Date MM-DD-YYYY | Name of Patentee or Applicant | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear |
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| Examiner Signature | Date Considered |
|---|---|
| ***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

**T[1]** - Place a check mark in this area when an English language Translation is attached.



T-Mobile Exhibit 1002

| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No. | 14/035,806 |
|---|---|---|
| | Filing Date | 9/24/2013 |
| | First Named Inventor | Johan Emil Viktor Björsell |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | M. Mostazir Rahman |
| SHEET 2 OF 4 | Attorney Docket No. | 4278-004.PCT.US.CON1 |

**U.S. PATENT DOCUMENTS**

| Examiner Initials | Cite No. | Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1 | Publication Date MM-DD-YYYY | Name of Patentee or Applicant | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear |
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| ***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No. | 14/035,806 |
|---|---|---|
| | Filing Date | 9/24/2013 |
| | First Named Inventor | Johan Emil Viktor Björsell |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | M. Mostazir Rahman |
| SHEET 3 OF 4 | Attorney Docket No. | 4278-004.PCT.US.CON1 |

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| | **88** | | |

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# Electronic Acknowledgement Receipt

| | |
|---|---|
| **EFS ID:** | 40483313 |
| **Application Number:** | 14035806 |
| **International Application Number:** | |
| **Confirmation Number:** | 5562 |
| **Title of Invention:** | MOBILE GATEWAY |
| **First Named Inventor/Applicant Name:** | Johan Emil Viktor Björsell |
| **Customer Number:** | 20551 |
| **Filer:** | Sean Franklin Parmenter/Jenny Morison |
| **Filer Authorized By:** | Sean Franklin Parmenter |
| **Attorney Docket Number:** | 4278-004.PCT.US.CON1 |
| **Receipt Date:** | 04-SEP-2020 |
| **Filing Date:** | 24-SEP-2013 |
| **Time Stamp:** | 20:31:42 |
| **Application Type:** | Utility under 35 USC 111(a) |

## Payment information:

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|---|---|
| Submitted with Payment | no |

## File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
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| 1 | Transmittal Letter | IDSTransmittal.pdf | 238033<br>d0ae45666e7651d0318c54c23d1c09560df6bb14 | no | 4 |
| **Warnings:** | | | | | |



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| **Information:** | | | | | |
| 2 | Information Disclosure Statement (IDS) Form (SB08) | SB08A.pdf | 479611<br>8de48cb5222e383be9f4bdea65ef95ae2e5eb8fa | no | 4 |
| **Warnings:** | | | | | |
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| This is not an USPTO supplied IDS fillable form | | | | | |
| 3 | Foreign Reference | CA2668025C.pdf | 5749393<br>7c21619d95b544d518fc6d1b7fccd62f3e7aa74b | no | 157 |
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| 4 | Foreign Reference | CA2732148C.pdf | 6769340<br>4bd3716ff1c09aea794618a0d0d1184e5de5d0ed | no | 166 |
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| 6 | Foreign Reference | CA3045672A1.pdf | 4377729<br>892e85bd99b03002d502efbad9c9cf7f034b0db2 | no | 131 |
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| 7 | Foreign Reference | CA3045681A1.pdf | 4412832<br>48b33544bbb670614bf792113715ef74afb50fdd | no | 131 |
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| 8 | Foreign Reference | CA3045683A1.pdf | 4273703<br>a5ca95f4124067d78493601134f05c49fe7a8b6 | no | 120 |

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| 9 | Foreign Reference | CA3045694A1.pdf | 3767267<br>3f2f6f1cbe1dec4594aeeed1f8508c77a88fa2e2 | no | 103 |
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| 10 | Foreign Reference | EP1054569A1.pdf | 202450<br>3a6ce89c7c8d7dfa716723d0fa3ea550bf820285 | no | 11 |
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| **Information:** | | | | | |
| 11 | Foreign Reference | EP2084868B1.pdf | 3773000<br>4a9d771aabc193182121ba25ab7f2aa88e88deba | no | 70 |
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| **Information:** | | | | | |
| 12 | Foreign Reference | EP2311292A2.pdf | 3765092<br>926246f83835c0fb988938db750fdbd3b1576629 | no | 84 |
| **Warnings:** | | | | | |
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| 13 | Foreign Reference | EP2311292A4.pdf | 47659<br>f54980e69a58972ca3ff18c4595783f5b4b3b963 | no | 2 |
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| **Information:** | | | | | |
| 14 | Foreign Reference | EP3386155A1.pdf | 3703331<br>be007b0e3fe56d0127e9de60103ec7765c9b7e43 | no | 68 |
| **Warnings:** | | | | | |
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| 15 | Foreign Reference | WO2000069156A1.pdf | 3415629<br>5accee555953ec1fae1254f3e20589fe2db042e3 | no | 89 |
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| **Information:** | | | | | |

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| 16 | Foreign Reference | WO2001006740A2.pdf | 2766469<br>14caa7b7487686eb520eb4479580757cf865b46c | no | 74 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 17 | Foreign Reference | WO2003028355A1.pdf | 812565<br>6208b827ac8bee796317721647e5b1b8b3bd3e5a | no | 19 |
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| **Information:** | | | | | |
| 18 | Foreign Reference | WO2003096559A1.pdf | 709467<br>de85fbf88d02f81323e45eb0b74fbf493d510060 | no | 20 |
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| **Information:** | | | | | |
| 19 | Foreign Reference | WO2004008786A1.pdf | 3136191<br>a601236e08a14c1f22e2aff3a4bf1e45cfcd34f3 | no | 87 |
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| **Information:** | | | | | |
| 20 | Foreign Reference | WO2004102941A1.pdf | 2318426<br>f3e4d89a5325f324559ddb47aff8fc62a4ede16b | no | 47 |
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**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

| | |
|---|---|
| ART UNIT: 2411<br><br>EXAMINER: M. Mostazir Rahman<br><br>FIRST NAMED INVENTOR: Johan Emil Viktor Björsell<br><br>SERIAL NO.: 14/035,806<br><br>FILED: 9/24/2013<br><br>CONF. NO.: 5562<br><br>FOR: MOBILE GATEWAY<br><br>DOCKET NO.: 4278-004.PCT.US.CON1 | **CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8**<br><br>DATE OF DEPOSIT: September 4, 2020<br><br>I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being submitted on the date indicated above via:<br>☒ EFS Web<br>☐ facsimile to _____<br>☐ the United States Postal Service with sufficient postage as first class mail addressed to: Mail Stop _____, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.<br><br>/Sean F. Parmenter/<br>Sean F. Parmenter |

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.56, 1.97 and 1.98

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir/Madam:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement, which is being submitted in accordance with:

☒ 37 C.F.R. § 1.97(b)(1) or (3) or (4), within three months of the filing date of the application, or before a first office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. § 1.114, whichever occurs last;

☐ 37 C.F.R. § 1.97(c), after a first office action on the merits, but before a Final Office Action or a Notice of Allowance, whichever occurs first, and is accompanied by **EITHER** a statement in accordance with 37 C.F.R. § 1.97(e), **OR** the fee set forth in 37 C.F.R. § 1.17(p); or

☐ 37 C.F.R. § 1.97(d), after a Final Office Action, Notice of Allowance or Ex parte Quayle

action, whichever occurs first, but on or before payment of the issue fee, and is accompanied by **BOTH** a statement in accordance with 37 C.F.R. § 1.97(e), **AND** the fee set forth in 37 C.F.R. § 1.17(p).

**SUBMISSIONS**

Please find enclosed, pursuant to 37 C.F.R. §§ 1.97 and 1.98:

☒ Form **PTO/SB/08A** and/or **PTO/SB/08B** listing the references submitted for consideration, which contains a list of all patents, publications and all other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c).

☒ Legible copies of the listed non-patent documents, unpublished U.S. applications and foreign documents or their relevant portions are included.

☐ All English translations of each non-English reference, if any, within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) (see 37 C.F.R. §1.98 are included.

☐ For all listed references that are not either in the English language, or accompanied by a translation into English, a concise explanation of relevance as required under 37 C.F.R. § 1.98(a)(3) is enclosed attached to each.

Copies of references listed on the enclosed PTO/SB/08A and/or PTO/SB/08B are **not** enclosed:

☐ because, under 37 C.F.R. § 1.98.(d), they were previously cited by or submitted to the Office in application number _____, which is relied upon for an earlier filing date under 37 C.F.R. § 1.20.

☐ because they are substantially cumulative of an enclosed reference.

**STATEMENT IN ACCORDANCE WITH 37 C.F.R. § 1.97(e)**

☐ I hereby certify that each item contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

☐ I hereby certify that no item contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

**REMARKS**

While no representation is made that any of these references may be "prior art" within the meaning of that term in accordance with 37 C.F.R. §§ 102 or 103, the enclosed list of references is disclosed so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

☐ Payment in the amount of $ ____ constituting the submission fee set forth in 37 C.F.R. § 1.17(p) is enclosed.

In the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that the Statement meets the requirements of 37 C.F.R. § 1.97(e), or in any other event remediable by a fee, please credit any


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over payment or charge any additional fees to Deposit Account No. 20-0100 of the undersigned.

Dated this 4th day of September, 2020.

Respectfully submitted,

/Sean F. Parmenter/

Sean F. Parmenter
Attorney for Applicant
Registration No. 53437

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Sandy, Utah 84091-1219
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|---|---|---|
| | Application No. | 14/035,806 |
| | Filing Date | 9/24/2013 |
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| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | M. Mostazir Rahman |
| SHEET 1 OF 2 | Attorney Docket No. | 4278-004.PCT.US.CON1 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---|---|---|---|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[1] |
| | 1 | J. Postel, RFC 768, "User Datagram Protocol", ISI, August 1980, 3 pages, https://tools.ietf.org/pdf/rfc768.pdf | |
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| Examiner Signature | Date Considered |
|---|---|
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| SHEET 2 OF 2 | Attorney Docket No. | 4278-004.PCT.US.CON1 |

| NON PATENT LITERATURE DOCUMENTS | | | |
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| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[1] |
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20200908A

| Examiner Signature | Date Considered |
|---|---|
| ***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

**T[1]** - Place a check mark in this area when an English language Translation is attached.

# Electronic Acknowledgement Receipt

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| **EFS ID:** | 40499483 |
| **Application Number:** | 14035806 |
| **International Application Number:** | |
| **Confirmation Number:** | 5562 |
| **Title of Invention:** | MOBILE GATEWAY |
| **First Named Inventor/Applicant Name:** | Johan Emil Viktor Björsell |
| **Customer Number:** | 20551 |
| **Filer:** | Sean Franklin Parmenter/Jenny Morison |
| **Filer Authorized By:** | Sean Franklin Parmenter |
| **Attorney Docket Number:** | 4278-004.PCT.US.CON1 |
| **Receipt Date:** | 08-SEP-2020 |
| **Filing Date:** | 24-SEP-2013 |
| **Time Stamp:** | 23:49:26 |
| **Application Type:** | Utility under 35 USC 111(a) |

## Payment information:

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|---|---|
| Submitted with Payment | no |

## File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
|---|---|---|---|---|---|
| 1 | Transmittal Letter | IDSTransmittal.pdf | 237991<br>1fe17442876d3335f558da657d71a77a9356f130 | no | 4 |
| **Warnings:** | | | | | |



T-Mobile Exhibit 1002

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| 2 | Information Disclosure Statement (IDS) Form (SB08) | SB08B.pdf | 327278<br>07338b911a8d221ecb399224b7b92029f0b0e935 | no | 2 |
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| This is not an USPTO supplied IDS fillable form | | | | | |
| 3 | Non Patent Literature | Anerousisetal-IEEE-TOPSAnArchitectureforTelephony.pdf | 442374<br>0afc04ed0e4cb41699af0b54bb10805111d62d57 | no | 18 |
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| 4 | Non Patent Literature | CiscoEnhancedGatekeeperGKAPISolutions.pdf | 148856<br>8aff5925514d93dd9edf4f041379595f6e747e2a | no | 12 |
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| **Information:** | | | | | |
| 5 | Non Patent Literature | CiscoGatekeeperExtrnalInterfaceReferencegktmpapi.pdf | 1731630<br>7b5c785a7f8cc9fe18ce18e1ed103dad98e96138 | no | 146 |
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| **Information:** | | | | | |
| 6 | Non Patent Literature | DefinityEnterpriseR8-2LittleInstructionBookforBasicAdministration.pdf | 1047047<br>5f0dc9cdad1532ff7e6e15bae9bd4ba28bbaf46e | no | 124 |
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| 7 | Non Patent Literature | InteractionDirectorTechnicalOverview.pdf | 762047<br>946f24bb6a525299ae6c7d25444560f03191779b | no | 35 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 8 | Non Patent Literature | IP_Telephony_and_the_IC_Platform-White_Paper-Interactive_Intelligence-Fuller.pdf | 3870372<br>33d0f94130a73c61dc244159e418c69177f1c783 | no | 29 |
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| 9 | Non Patent Literature | InteractionCenterPlatform-WhitePaper-Brown-1.pdf | 569117<br>75c889e75bbdab32cde76089fdc60eaf9f5a05db | no | 35 |
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| **Information:** | | | | | |
| 10 | Non Patent Literature | IPtelephonyandEIC-TechnicalOverview-InteractiveIntelligence-Roaten-1.pdf | 275282<br>1112da11740c5d107e9ab20dc7451c2ec2a669dc | no | 9 |
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| **Information:** | | | | | |
| 11 | Non Patent Literature | ITU-TH245_Controlprotocolformultimediacommunication-1.pdf | 124484<br>288966a6059e724e019f9c0297f090fcd13eb6b9 | no | 2 |
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| 12 | Non Patent Literature | ITU-TH323_Packet-basedmultimediacommunicationssystems-1.pdf | 131020<br>105a373d2776ed39433cd2ee9983b9a06be951af | no | 2 |
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| 13 | Non Patent Literature | ITU-TH2250_Callsignallingprotocolsandmediastreampacketization-1.pdf | 130644<br>acda5dcb3b29ccbc373649074b9ecb6492245115 | no | 2 |
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| 14 | Non Patent Literature | ITU-TH2481_Gatewaycontrolprotocol_Version3-1.pdf | 126888<br>01132134a98e262ac740364fec25488771824053 | no | 2 |
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| 15 | Non Patent Literature | ITU-TX500_Informationtechnology-OpenSystemsInterconnection-TheDirectory-1.pdf | 123474<br>ce32a0dfcd132b76e7d03bab90013c856681dc1e | no | 1 |
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| 16 | Non Patent Literature | rfc768.pdf | 9055<br>4fe7894f4f125d4df0177518de21c0715f80649a | no | 3 |
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| 17 | Non Patent Literature | rfc793.pdf | 155877<br>04ca6a8d4a8ff878c71ee95cfc21f5c8af99394c | no | 89 |
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| 18 | Non Patent Literature | rfc821.pdf | 118846<br>6198931fe87f8e4924529d2df41e56d8ab2b1639 | no | 70 |
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| 19 | Non Patent Literature | rfc950.pdf | 40848<br>ddea05c014c1133a2d257163bf7cc48e92414038 | no | 18 |
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| 20 | Non Patent Literature | rfc1889.pdf | 208511<br>04f9522c9e6562864071226dd9e2b9e1cd01ada7 | no | 75 |
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| 21 | Non Patent Literature | rfc2916.pdf | 30357<br>8d8ebc8224c824b642900325ae536c84ab8a5b93 | no | 10 |
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| 22 | Non Patent Literature | rfc2960.pdf | 357874<br>fd468113a302f550be56a8de96316fc74d144802 | no | 134 |
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| 23 | Non Patent Literature | rfc3332.pdf | 284295<br>a478d5c9111b782401e0b74e109d77886af3912d | no | 120 |
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| 24 | Non Patent Literature | rfc3398.pdf | 200535<br>4c02fc594560002cfbcc67e9ebae3393bb771071 | no | 68 |
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| 25 | Non Patent Literature | rfc3435.pdf | 507360<br>e1245dfb552ef7e6c172a80986d68bed7d214f99 | no | 210 |
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| 26 | Non Patent Literature | rfc3482.pdf | 81304<br>4b680e5d5221423e4ae65290abf5002ce4b3ecff | no | 30 |
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| **Information:** | | | | | |
| 27 | Non Patent Literature | tutorial-on-signaling-system-7-ss7-performance-technologies.pdf | 471539<br>3838ef17d69c96af28c39fc7c96708a96dbc426b | no | 23 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 28 | Non Patent Literature | UnifiedCommunicationsUsingCommunite-InteractiveIntelligence-Brown-1.pdf | 328501<br>676f0f55db1a588fb5b14035884425edbb3d2322 | no | 24 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 29 | Non Patent Literature | WhatisENUM_NetworkWorld-1.pdf | 140814<br>5192e08b35d80d9461503bce72412fe76e9abed6 | no | 8 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |

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| 30 | Non Patent Literature | IP_Telephony_and_the_IC_Platform-White_Paper-Interactive_Intelligence-Fuller-1.pdf | 2698666<br>487469a2f20002e5410ec25f35d015e78f4cd37a | no | 29 |
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| | | | **Total Files Size (in bytes):** | 15682886 | |

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

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| ART UNIT: 2411<br><br>EXAMINER: M. Mostazir Rahman<br><br>FIRST NAMED INVENTOR: Johan Emil Viktor Björsell<br><br>SERIAL NO.: 14/035,806<br><br>FILED: 9/24/2013<br><br>CONF. NO.: 5562<br><br>FOR: MOBILE GATEWAY<br><br>DOCKET NO.: 4278-004.PCT.US.CON1 | **CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8**<br><br>DATE OF DEPOSIT: September 8, 2020<br><br>I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being submitted on the date indicated above via:<br>☒ EFS Web<br>☐ facsimile to _____<br>☐ the United States Postal Service with sufficient postage as first class mail addressed to: Mail Stop _____, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.<br><br>/Sean F. Parmenter/<br>Sean F. Parmenter |

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.56, 1.97 and 1.98**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir/Madam:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement, which is being submitted in accordance with:

☒ 37 C.F.R. § 1.97(b)(1) or (3) or (4), within three months of the filing date of the application, or before a first office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. § 1.114, whichever occurs last;

☐ 37 C.F.R. § 1.97(c), after a first office action on the merits, but before a Final Office Action or a Notice of Allowance, whichever occurs first, and is accompanied by **EITHER** a statement in accordance with 37 C.F.R. § 1.97(e), **OR** the fee set forth in 37 C.F.R. § 1.17(p); or

☐ 37 C.F.R. § 1.97(d), after a Final Office Action, Notice of Allowance or Ex parte Quayle

action, whichever occurs first, but on or before payment of the issue fee, and is accompanied by **BOTH** a statement in accordance with 37 C.F.R. § 1.97(e), **AND** the fee set forth in 37 C.F.R. § 1.17(p).

**SUBMISSIONS**

Please find enclosed, pursuant to 37 C.F.R. §§ 1.97 and 1.98:

☒ Form **PTO/SB/08A** and/or **PTO/SB/08B** listing the references submitted for consideration, which contains a list of all patents, publications and all other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c).

☒ Legible copies of the listed non-patent documents, unpublished U.S. applications and foreign documents or their relevant portions are included.

☐ All English translations of each non-English reference, if any, within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) (see 37 C.F.R. §1.98 are included.

☐ For all listed references that are not either in the English language, or accompanied by a translation into English, a concise explanation of relevance as required under 37 C.F.R. § 1.98(a)(3) is enclosed attached to each.

Copies of references listed on the enclosed PTO/SB/08A and/or PTO/SB/08B are **not** enclosed:

☐ because, under 37 C.F.R. § 1.98.(d), they were previously cited by or submitted to the Office in application number _____, which is relied upon for an earlier filing date under 37 C.F.R. § 1.20.

☐ because they are substantially cumulative of an enclosed reference.

**STATEMENT IN ACCORDANCE WITH 37 C.F.R. § 1.97(e)**

☐ I hereby certify that each item contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

☐ I hereby certify that no item contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

**REMARKS**

While no representation is made that any of these references may be "prior art" within the meaning of that term in accordance with 37 C.F.R. §§ 102 or 103, the enclosed list of references is disclosed so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

☐ Payment in the amount of $ ____ constituting the submission fee set forth in 37 C.F.R. § 1.17(p) is enclosed.

In the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that the Statement meets the requirements of 37 C.F.R. § 1.97(e), or in any other event remediable by a fee, please credit any

over payment or charge any additional fees to Deposit Account No. 20-0100 of the undersigned.

Dated this 8th day of September, 2020.

Respectfully submitted,

/Sean F. Parmenter/

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No. | 14/035,806 |
|---|---|---|
| | Filing Date | 9/24/2013 |
| | First Named Inventor | Johan Emil Viktor Björsell |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | M. Mostazir Rahman |
| SHEET 1 OF 5 | Attorney Docket No. | 4278-004.PCT.US.CON1 |

**U.S. PATENT DOCUMENTS**

| Examiner Initials | Cite No. | Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1 | Publication Date MM-DD-YYYY | Name of Patentee or Applicant | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear |
|---|---|---|---|---|---|
| | **1** | 2019/0199621 A1 | 06-27-2019 | Perreault et al. | |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initials | Cite No. | Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1 | Publication Date MM-DD-YYYY | Name of Patentee or Applicant | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear | T[1] |
|---|---|---|---|---|---|---|
| | **2** | WO 0223851 A2 | 03-21-2002 | Allirajah et al. | | |
| | **3** | WO 0225889 A2 | 03-28-2002 | Nisani et al. | | |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[1] |
|---|---|---|---|
| | **4** | Third Amended Complaint for Patent Infringement, VoIP-Pal.com, Inc. v. AT&T Corp., United States District Court Northern District of California, Case No. 5:18-cv-06177, filed Nov. 15, 2018, 26 pages | |
| | **5** | Third Amended Complaint for Patent Infringement, VoIP-Pal.com, Inc. v. Cellco Partnership d/b/a Verizon Wireless et al., United States District Court Northern District of California, Case No. 5:18-cv-06054, filed Nov. 15, 2018, 25 pages | |
| | **6** | Joint Case Management Statement and [Proposed] Order, U.S. District Court Northern District of California, in VoIP-Pal.com, Inc. v. Twitter, Inc., Case No. 18-cv-04523; VoIP-Pal.com, Inc. v. Cellco Partnership d/b/a Verizon Wireless, Case No. 18-cv-06054, VoIP-Pal.com, Inc. v. AT&T Corp., Case No. 3:18-cv-06177, VoIP-Pal.com, Inc. v. Apple Inc., Case No. 3:18-cv-06216 and Case No. 3:18-cv-06217, VoIP-Pal.com, Inc. v. Amazon.com, Inc. et al., Case No. 3:18-cv-07020, Jan. 9, 2019, 29 pages | |
| | **7** | Defendants' Consolidated Notice Of Motion And Motion To Dismiss Plaintiff's Complaint; Memorandum Of Points And Authorities In Support, U.S. District Court Northern District of California, in VoIP-Pal.com, Inc. v. Twitter, Inc. et al., Case Nos. 18-cv-04523, 18-cv-06054, 3:18-cv-06177, 3:18-cv-06217, re: U.S. Patent Nos. 8,542,815 and 9,179,005, January 10, 2019, 34 pages | |
| | **8** | VoIP-Pal's Opposition To Defendants' Consolidated Motion To Dismiss Plaintiff's Complaint: Memorandum Of Points And Authorities In Support, U.S. District Court Northern District of California, in VoIP-Pal.com, Inc. v. Twitter, Inc. et al., Case Nos. 18-cv-04523, 18-cv-06054, 18-cv-06177, 18-cv-06217, February 7, 2019, 33 pages. | |
| | **9** | Declaration of William Henry Mangione-Smith in Support of VoIP-Pal's Opposition to Defendants' Consolidated Motion to Dismiss Plaintiff's Complaint: Memorandum of Pints and Authorities in Support. U.S. District Court Northern District of California, in VoIP-Pal.com, Inc. v. Twitter, Inc. et al., Case Nos. 18-cv-04523, 18-cv-06054, 18-cv-06177, 18-cv-06217, February 7, 2019, 37 pages. | |

| Examiner Signature | Date Considered |
|---|---|
| ***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

**T[1]** - Place a check mark in this area when an English language Translation is attached.

| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No. | 14/035,806 |
|---|---|---|
| | Filing Date | 9/24/2013 |
| | First Named Inventor | Johan Emil Viktor Björsell |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | M. Mostazir Rahman |
| SHEET 2 OF 5 | Attorney Docket No. | 4278-004.PCT.US.CON1 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---|---|---|---|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[1] |
| | 10 | VoIP-Pal's Opposition To Defendants' Consolidated Motion To Dismiss Plaintiff's Complaint: Memorandum Of Points And Authorities In Support (CORRECTED), U.S. District Court Northern District of California, in VoIP-Pal.com, Inc. v. Twitter, Inc. et al., Case Nos. 18-cv-04523, 18-cv-06054, 18-cv-06177, 18-cv-06217, February 12, 2019, 33 pages. | |
| | 11 | Defendants' Consolidated Reply in Support of Defendants' Consolidated Motion To Dismiss Plaintiff's Complaint; Memorandum Of Points And Authorities In Support, U.S. District Court Northern District of California, in VoIP-Pal.com, Inc. v. Twitter, Inc. et al., Case Nos. 18-cv-04523, 18-cv-06054, 18-cv-06177, 18-cv-06217, February 28, 2019, 24 pages. | |
| | 12 | Order Granting Consolidated Motions to Dismiss, United States District Court Northern District of California, in VoIP-Pal.com, Inc. v. Twitter, Inc. et al., Case Nos. 18-cv-04523, 18-cv-06054, 18-cv-06177, 18-cv-06217, re: U.S. Patent Nos. 8,542,815 and 9,179,005, Document 96, Judge Lucy H. Koh, March 25, 2019, 45 pages. | |
| | 13 | Corrected Opening Brief For Plaintiff-Appellant, On Appeal from the United States District Court for the Northern District of California in Nos. 5:18-cv-04523-LHK (Twitter, Inc.), 5:18-cv-06054-LHK (Cellco Partnership d/b/a Verizon Wireless), Case No. 18-cv-06054 (Verizon), 5:18-cv-06177-LHK (AT&T) and 5:18-cv-06217-LHK (Apple), U.S. Court of Appeals for the Federal Circuit ("CAFC"), July 9, 2019, 241 pages (including Addendum). | |
| | 14 | Joint Responsive Brief For Defendants-Appellees, CAFC, On Appeal from the United States District Court for the Northern District of California, Case Nos. 5:18-cv-04523-LHK, 5:18-cv-06054-LHK, 5:18-cv-06177-LHK, and 5:18-cv-06217-LHK, Document 46, August 5, 2019, 78 pages. | |
| | 15 | Reply Brief for Plaintiff-Appellant, U.S. Court of Appeals for the Federal Circuit, On Appeal from the United States District Court for the Northern District of California in Nos. Case Nos. 5:18-cv-04523-LHK, 5:18-cv-06054-LHK, 5:18-cv-06177-LHK and 5:18-cv-06217-LHK, September 9, 2019, 40 pages. | |
| | 16 | Judgment (Rule 36), Per Curiam (Newman, Lourie, and O'Malley, Circuit Judges), U.S. Court of Appeals for the Federal Circuit, in Appeal from the United States District Court for the Northern District of California in Case Nos. 5:18-cv-04523-LHK (Twitter, Inc., 2019-1808), 5:18-cv-06054-LHK (Cellco Partnership, DBA Verizon Wireless Services LLC, 2019-1812), 5:18-cv-06177-LHK (AT&T Corp., 2019-1813), 5:18-cv-06217-LHK (Apple, 2019-1814), Document 88, March 16, 2020 (4 pages) | |
| | 17 | Appellant's Combined Petition for Panel Rehearing and Rehearing *En Banc*, United States Court of Appeals for the Federal Circuit, Appeal from the United States District Court for the Northern District of California in Case Nos. 5:18-cv-04523-LHK, 5:18-cv-06054-LHK, 5:18-cv-06177-LHK and 5:18-cv-06217-LHK, Document 89, April 15, 2020, 34 pages. | |
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| | 19 | Case Management Order, Judge Lucy H. Koh, United States District Court Northern District of California, VoIP-Pal.com, Inc. v. Amazon.com Inc, et al., Case no. 5:18-CV-7020-LHK, VoIP-Pal.com, Inc. v. Apple, Inc., Case no. 18-CV-06216-LHK, Document 40, January 16, 2019, 3 pages | |
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| Examiner Signature | Date Considered |
|---|---|
| ***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

**T[1]** - Place a check mark in this area when an English language Translation is attached.

| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No. | 14/035,806 |
|---|---|---|
| | Filing Date | 9/24/2013 |
| | First Named Inventor | Johan Emil Viktor Björsell |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | M. Mostazir Rahman |
| SHEET 3 OF 5 | Attorney Docket No. | 4278-004.PCT.US.CON1 |

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|---|---|---|---|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[1] |
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| Examiner Signature | Date Considered |
|---|---|
| ***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No. | 14/035,806 |
|---|---|---|
| | Filing Date | 9/24/2013 |
| | First Named Inventor | Johan Emil Viktor Björsell |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | M. Mostazir Rahman |
| SHEET 4 OF 5 | Attorney Docket No. | 4278-004.PCT.US.CON1 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---|---|---|---|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[1] |
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| | **38** | Exhibit 2, in support of Original Complaint for Patent Infringement, Case No. 6:20-cv-00267, U.S. District Court for the Western District of Texas, April 2, 2020, 11 pages. | |
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| Examiner Signature | Date Considered |
|---|---|
| ***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

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| | Application No. | 14/035,806 |
| | Filing Date | 9/24/2013 |
| | First Named Inventor | Johan Emil Viktor Björsell |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | M. Mostazir Rahman |
| SHEET 5 OF 5 | Attorney Docket No. | 4278-004.PCT.US.CON1 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---|---|---|---|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[1] |
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| Examiner Signature | Date Considered |
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# Electronic Acknowledgement Receipt

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| **EFS ID:** | 40531745 |
| **Application Number:** | 14035806 |
| **International Application Number:** | |
| **Confirmation Number:** | 5562 |
| **Title of Invention:** | MOBILE GATEWAY |
| **First Named Inventor/Applicant Name:** | Johan Emil Viktor Björsell |
| **Customer Number:** | 20551 |
| **Filer:** | Sean Franklin Parmenter/Jenny Morison |
| **Filer Authorized By:** | Sean Franklin Parmenter |
| **Attorney Docket Number:** | 4278-004.PCT.US.CON1 |
| **Receipt Date:** | 11-SEP-2020 |
| **Filing Date:** | 24-SEP-2013 |
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| **Application Type:** | Utility under 35 USC 111(a) |

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## File Listing:

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| 3 | Non Patent Literature | AppleCAFCAppealBriefre815005IPRs.pdf | 3200516<br>c6cf1df178d6b4aa7196760aa95f93b236f2522e | no | 69 |
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| 31 | Non Patent Literature | IPR2019-01008EX1005Lavian002DeclarationSigned-4.pdf | 15227814<br>450012cb5bdd13dc505dbd6667daeb207bafb337 | no | 50 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| | | **Total Files Size (in bytes):** | 190685549 | | |

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

**IN THE UNITED STATES PATENT & TRADEMARK OFFICE**

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|---|---|
| ART UNIT: 2411<br><br>EXAMINER: M. Mostazir Rahman<br><br>FIRST NAMED INVENTOR: Johan Emil Viktor Björsell<br><br>SERIAL NO.: 14/035,806<br><br>FILED: 9/24/2013<br><br>CONF. NO.: 5562<br><br>FOR: MOBILE GATEWAY<br><br>DOCKET NO.: 4278-004.PCT.US.CON1 | **CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8**<br><br>DATE OF DEPOSIT: September 11, 2020<br><br>I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being submitted on the date indicated above via:<br>☒ EFS Web<br>☐ facsimile to _____<br>☐ the United States Postal Service with sufficient postage as first class mail addressed to: Mail Stop _____, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.<br><br>/Sean F. Parmenter/<br>Sean F. Parmenter |

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.56, 1.97 and 1.98**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir/Madam:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement, which is being submitted in accordance with:

☒ 37 C.F.R. § 1.97(b)(1) or (3) or (4), within three months of the filing date of the application, or before a first office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. § 1.114, whichever occurs last;

☐ 37 C.F.R. § 1.97(c), after a first office action on the merits, but before a Final Office Action or a Notice of Allowance, whichever occurs first, and is accompanied by **EITHER** a statement in accordance with 37 C.F.R. § 1.97(e), **OR** the fee set forth in 37 C.F.R. § 1.17(p); or

☐ 37 C.F.R. § 1.97(d), after a Final Office Action, Notice of Allowance or Ex parte Quayle

action, whichever occurs first, but on or before payment of the issue fee, and is accompanied by **BOTH** a statement in accordance with 37 C.F.R. § 1.97(e), **AND** the fee set forth in 37 C.F.R. § 1.17(p).

**SUBMISSIONS**

Please find enclosed, pursuant to 37 C.F.R. §§ 1.97 and 1.98:

☒ Form **PTO/SB/08A** and/or **PTO/SB/08B** listing the references submitted for consideration, which contains a list of all patents, publications and all other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c).

☒ Legible copies of the listed non-patent documents, unpublished U.S. applications and foreign documents or their relevant portions are included.

☐ All English translations of each non-English reference, if any, within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) (see 37 C.F.R. §1.98 are included.

☐ For all listed references that are not either in the English language, or accompanied by a translation into English, a concise explanation of relevance as required under 37 C.F.R. § 1.98(a)(3) is enclosed attached to each.

Copies of references listed on the enclosed PTO/SB/08A and/or PTO/SB/08B are **not** enclosed:

☐ because, under 37 C.F.R. § 1.98.(d), they were previously cited by or submitted to the Office in application number _____, which is relied upon for an earlier filing date under 37 C.F.R. § 1.20.

☐ because they are substantially cumulative of an enclosed reference.

**STATEMENT IN ACCORDANCE WITH 37 C.F.R. § 1.97(e)**

☐ I hereby certify that each item contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

☐ I hereby certify that no item contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

**REMARKS**

While no representation is made that any of these references may be "prior art" within the meaning of that term in accordance with 37 C.F.R. §§ 102 or 103, the enclosed list of references is disclosed so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

☐ Payment in the amount of $ ____ constituting the submission fee set forth in 37 C.F.R. § 1.17(p) is enclosed.

In the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that the Statement meets the requirements of 37 C.F.R. § 1.97(e), or in any other event remediable by a fee, please credit any


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over payment or charge any additional fees to Deposit Account No. 20-0100 of the undersigned.

Dated this 11th day of September, 2020.

Respectfully submitted,

/Sean F. Parmenter/

Sean F. Parmenter
Attorney for Applicant
Registration No. 53437

THORPE NORTH & WESTERN, LLP
Customer No. 20,551
P.O. Box 1219
Sandy, Utah 84091-1219
Telephone: (801) 566-6633

# Electronic Acknowledgement Receipt

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| **EFS ID:** | 40531373 |
| **Application Number:** | 14035806 |
| **International Application Number:** | |
| **Confirmation Number:** | 5562 |
| **Title of Invention:** | MOBILE GATEWAY |
| **First Named Inventor/Applicant Name:** | Johan Emil Viktor Björsell |
| **Customer Number:** | 20551 |
| **Filer:** | Sean Franklin Parmenter/Jenny Morison |
| **Filer Authorized By:** | Sean Franklin Parmenter |
| **Attorney Docket Number:** | 4278-004.PCT.US.CON1 |
| **Receipt Date:** | 11-SEP-2020 |
| **Filing Date:** | 24-SEP-2013 |
| **Time Stamp:** | 15:52:03 |
| **Application Type:** | Utility under 35 USC 111(a) |

## Payment information:

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| Submitted with Payment | no |

## File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
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| 1 | Non Patent Literature | CAFC-19-1808.pdf | 100903<br>c3d05e5b09cf19d6a8311137ecdc66a7fdade509 | no | 4 |
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T-Mobile Exhibit 1002

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| 2 | Non Patent Literature | DefendantsAliceReply.pdf | 11559869<br>d8db556d81ec6f29d1a82d1f4f898848216<br>01080 | no | 24 |
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| 3 | Non Patent Literature | DefendantsConsolidatedMotiontoDismiss.pdf | 352910<br>cc75efd6e79263192799d1be3eb286b95c8<br>b3ee5 | no | 34 |
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| 4 | Non Patent Literature | FinalCorrectedVoipPalOppositiontoMotiontoDismiss.pdf | 696206<br>77188b036afb499de401a38f4d156dac3b3<br>47a28 | no | 33 |
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| 5 | Non Patent Literature | FinalVoip-PalJointCMCStatement.pdf | 336700<br>bd57b90c516412a736ef0bcd159fce66e07<br>496d2 | no | 29 |
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| 6 | Non Patent Literature | FinalVoipPalOppositiontoMotiontoDismiss.pdf | 718961<br>b8409b537ecaf877083f9c8827d5653580a2<br>b2cb | no | 33 |
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| 7 | Non Patent Literature | JointResponsiveBriefofDefendants-Appellees.pdf | 403085<br>668a96751abf01542034a713fe8ea2a44624<br>724b | no | 78 |
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| 8 | Non Patent Literature | Koh-Alice-101-decision.pdf | 573346<br>df0cb76f8aed5ae822b5aac110baf72a8a7a<br>13d7 | no | 45 |
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| 9 | Non Patent Literature | Mangione-SmithBMSDeclarationInOppositi on.pdf | 358316<br>9cfee55f19f4acaeee1311edb7d7df703731e178 | no | 37 |
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| 10 | Non Patent Literature | ORDERfileddenyingpetitionforpanelrehearingforenbancrehearing.pdf | 109660<br>2647da57612f6e008a56d09a7b1b5353822ba674 | no | 3 |
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| 11 | Non Patent Literature | PetitionforpanelrehearingforenbancrehearingPDF | 584023<br>29dccbea38d9398fa42797df04f3acae9058dc37 | no | 34 |
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| 12 | Non Patent Literature | ThirdAmendedComplaint.pdf | 361488<br>aba6c21eec4301d30cc1ecea1752c9b9059daf73 | no | 26 |
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| 13 | Non Patent Literature | VerizonThirdAmendedComplaint.pdf | 309833<br>1e314063dc3430b3504c7295c69126110b95ef04 | no | 25 |
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| 14 | Non Patent Literature | VoIP-PalAppellateBriefCorrected.pdf | 8737646<br>01a58958635c7aa4e175cf82a274d380faa5a84f | no | 241 |
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| 15 | Non Patent Literature | VoIP-PalReplyBrief.pdf | 914352<br>8e463da526ea0f202dc2ee54c75c3ed3a6a3f5f1 | no | 40 |
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| 16 | Foreign Reference | WO0223851A2.pdf | 1880629<br>78175a3401beb0757df3fe329965334c53eee78a | no | 15 |
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| 17 | Foreign Reference | WO0225889A2.pdf | 7528505<br>740e908a4d96cf175b6b1a15e4855be077df2129 | no | 46 |
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| 18 | Non Patent Literature | AmazonFACFirstAmendedComplaint.pdf | 420088<br>919dbf658f440996b9f25f9ad90cf0c3e5181b82 | no | 52 |
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| 19 | Non Patent Literature | AppleandAmazonMotiontoDismissandProposedOrder.pdf | 331817<br>b92c4890aa3fd868f66b3dc461f9a5e6eea46486 | no | 32 |
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| 20 | Non Patent Literature | AppleFACFirstAmendedComplaint.pdf | 390538<br>212d83965b04584ed8167c40eb9dbcf1472046e5 | no | 44 |
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| 21 | Non Patent Literature | AsFiledOppositionVPLMAppleAmazonAliceMTD.pdf | 499556<br>2577c93ea6e99f3fbe0e86ee7b1c5bcfa6dae9ea | no | 33 |
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| 22 | Non Patent Literature | CaseManagementOrderApple2Amazon.pdf | 878834<br>082e88fe3d26025e733d84305014374cc82e3f70 | no | 3 |
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| 23 | Non Patent Literature | DefendantsProposedClaimConstructions.pdf | 250726<br>e91f6c924469726274daf1fa0931065f36efa2ba | no | 42 |
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| 24 | Non Patent Literature | DefendantsReplyMTD.pdf | 9656559<br>b8901ff5ee3bb7685472cb8845bfd75ed54baddb | no | 21 |
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| 25 | Non Patent Literature | DefendantsResponsiveClaimConstructionBrief.pdf | 1810635<br>65d447c3a12c410de31274d57201decdc8da66b7 | no | 30 |
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| 26 | Non Patent Literature | ExhibitMangione-SmithBMSDeclarationVPLMAppleAmazonAliceMTD.pdf | 358895<br>1b4df34d7e5cc22fa33796252b841d6d9e20fe48 | no | 35 |
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| 27 | Non Patent Literature | InitialOpeningBriefFILEDfromAppellantVoip-Pal.pdf | 1683500<br>8c9e2b0954204b6e7188d5848ede2e3ac6d20ab4 | no | 231 |
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| 28 | Non Patent Literature | Koh-Alice-101-decision-2-show_temp.pdf | 646773<br>2825823a833f0e3b4e6ce59fbff11ccca6281a73 | no | 68 |
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| 29 | Non Patent Literature | MotiontoDismissApple2andAmazon.pdf | 16430737<br>dee173a5c3c7b5cb292b10cb2c0f835e8c5ac06b | no | 31 |
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| 30 | Non Patent Literature | ReplyAmazonAppleCaseMTD.pdf | 10946776<br>f3a290355f06aace14b9804b63fd6d42afd1af9a | no | 20 |
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| 31 | Non Patent Literature | ReplyBriefFILEDfromAppellantVoip-Pal.pdf | 543524<br>22f9c99cc744f6ba5e95042263768cd7d5c12a5d | no | 43 |
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| 32 | Non Patent Literature | ResponseBriefFILEDfromAppelleesAmazon-Apple.pdf | 431025<br>fdafcfc9d577f2c33413c69b1256098929a52c27 | no | 76 |
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| 33 | Non Patent Literature | Voip-PalReplyClaimConstructionBrief.pdf | 309167<br>d9b447c39ee9be2289d9bc2a1a0635046c406b65 | no | 19 |
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| 34 | Non Patent Literature | VoIP-PalsFinalCorrectedOppositiontoMTD.pdf | 522451<br>41e8724f372f677bd9692cbbce9e49c48b8aead0 | no | 33 |
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| 35 | Non Patent Literature | VoIP-PalsOpeningClaimConstructionBrief.pdf | 455693<br>9271fabb0dd4d7ce7e31a703c8fabbcad7beace9 | no | 24 |
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| 36 | Non Patent Literature | ComplaintvsAmazon.pdf | 269245<br>3571ae5dee8d9a3a6c896df77fcf695083e68253 | no | 28 |
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| 37 | Non Patent Literature | ComplaintvsApple.pdf | 266364<br>6f5150547acc11bade3240fb965e0956a7c89513 | no | 28 |
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| 41 | Non Patent Literature | ComplaintvsVerizon.pdf | 258333<br>0a1f38294e310f4e6162c368a92c1d1cb50fabbe | no | 29 |
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| **Information:** | | | | | |
| 42 | Non Patent Literature | Exhibit20001-002Amazon.pdf | 885404<br>daea2f41007c4ee211628d837e71333fd70a9b51 | no | 10 |
| **Warnings:** | | | | | |
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| 43 | Non Patent Literature | Exhibit20001-002Apple.pdf | 588261<br>4b00aa43461aaaa3c3190979af8aaee3ebbc95a8 | no | 15 |
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| 44 | Non Patent Literature | Exhibit20001-002ATT.pdf | 330484<br>2740552a6d96c03f58d8bd87cb14b8288f11a0d3 | no | 9 |
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| 45 | Non Patent Literature | Exhibit20001-002Facebook.pdf | 471416<br>755ff277fac4a3fe1f4b31916d9bc64f4f3e6731 | no | 11 |
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| 46 | Non Patent Literature | Exhibit20001-002Google.pdf | 1338875<br>35868c2dae2c1f7e7238833b8faf1ed374671224 | no | 19 |
| **Warnings:** | | | | | |
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| 47 | Non Patent Literature | Exhibit20001-002Verizon.pdf | 256782<br>c46a09b77d552e70b8e4a6c036ead4eb7fa2ae3d | no | 11 |
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| | | **Total Files Size (in bytes):** | 87568362 | | |

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

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**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

# Electronic Acknowledgement Receipt

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| **EFS ID:** | 40528234 |
| **Application Number:** | 14035806 |
| **International Application Number:** | |
| **Confirmation Number:** | 5562 |
| **Title of Invention:** | MOBILE GATEWAY |
| **First Named Inventor/Applicant Name:** | Johan Emil Viktor Björsell |
| **Customer Number:** | 20551 |
| **Filer:** | Sean Franklin Parmenter/Jenny Morison |
| **Filer Authorized By:** | Sean Franklin Parmenter |
| **Attorney Docket Number:** | 4278-004.PCT.US.CON1 |
| **Receipt Date:** | 11-SEP-2020 |
| **Filing Date:** | 24-SEP-2013 |
| **Time Stamp:** | 15:50:51 |
| **Application Type:** | Utility under 35 USC 111(a) |

## Payment information:

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| Submitted with Payment | no |

## File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
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| 1 | Non Patent Literature | Bellcore-1.pdf | 21081591<br>1e726e00e09f5b7858e634e090e0bc1d760953f8 | no | 75 |
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| 5 | Non Patent Literature | Bellcore-5.pdf | 25563801<br>2513b091c69ef6283738c9b6dd799236ce2c60af | no | 60 |
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| 7 | Non Patent Literature | Bellcore-7.pdf | 16007376<br>c3b03a85ca15993b6538cfdda1d8e0286a7ad2bd | no | 75 |
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| 9 | Non Patent Literature | Bellcore-9.pdf | 14159431<br>0af590e08c8b6dd16d6a17223bb46db97de95f42 | no | 75 |
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| 11 | Non Patent Literature | Bellcore-11.pdf | 14767649<br>a7bf097c573cbc298d0ed3aeef90ebcd4e83a26f | no | 75 |
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| 12 | Non Patent Literature | Bellcore-12.pdf | 14663972<br>7b65adb3808750248556c42db9c4849c462120d2 | no | 75 |
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| 14 | Non Patent Literature | Bellcore-14.pdf | 24671139<br>4a09224baec3273fa177f97d671cde3dce28ac73 | no | 70 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 15 | Non Patent Literature | Bellcore-15.pdf | 15322090<br>8fb5a6531d493195fa06f5f1df446a514d61fa95 | no | 80 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |

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| 16 | Non Patent Literature | Bellcore-16.pdf | 16632864<br>470960f9ea2ccc63f0078539dd701e6d7d8d5d78 | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 17 | Non Patent Literature | Bellcore-17.pdf | 17179168<br>9180f0587051f62a4ea9684faadb5d25dc8d58e0 | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 18 | Non Patent Literature | Bellcore-18.pdf | 14955869<br>d02b87ae925e8929d388561a4d64b4ead91ea209 | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 19 | Non Patent Literature | Bellcore-19.pdf | 15238892<br>4468329c7173f50532bf5b61bcbf3e6c5b6acf38 | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 20 | Non Patent Literature | Bellcore-20.pdf | 25397848<br>3b16a60fc8da779708f6854ce9c68c2daeb1afa9 | no | 60 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 21 | Non Patent Literature | Bellcore-21.pdf | 23199817<br>6d4812e866f7641f0fd7f567065c62669e69f087 | no | 60 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 22 | Non Patent Literature | Bellcore-22.pdf | 21006858<br>d20ed4bcd7b70ad59821bcc88c12936298de306b | no | 105 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |

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|---|---|---|---|---|---|
| 23 | Non Patent Literature | Bellcore-23.pdf | 7476782<br>27cb91edccf24228273fc2e019367877c43fe93b | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 24 | Non Patent Literature | Bellcore-24.pdf | 11672159<br>8c7f083a51bf00889fc9da026a84562275b7f08b | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 25 | Non Patent Literature | Bellcore-25.pdf | 13622114<br>72d81c4c104ce92a0bd5daac264a2d456c90eb6b | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 26 | Non Patent Literature | Bellcore-26.pdf | 20914824<br>316f73b231b498548def0964d5095db6ed85114d | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 27 | Non Patent Literature | Bellcore-27.pdf | 19446809<br>d40616f711719c83abe196996ede969eb228434f | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 28 | Non Patent Literature | Bellcore-28.pdf | 12864429<br>0626f427308b181bb19ab7a348aa4de8fbd14372 | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 29 | Non Patent Literature | Bellcore-29.pdf | 17816320<br>31ec5482f15bdf7ea154123bcd0c2eaffc35a9a0 | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |

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| 30 | Non Patent Literature | Bellcore-30.pdf | 17256516<br>31b9394e34e9214ef27b3abcbf8ff96b9b530a99 | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 31 | Non Patent Literature | Bellcore-31.pdf | 14937613<br>868cc248ecdb1a83575e7abcd09f2f51feaa6abb | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 32 | Non Patent Literature | Bellcore-32.pdf | 19353961<br>8b1e8d87175ada5a589e3c65dc3550812340b40d6 | no | 75 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 33 | Non Patent Literature | Bellcore-33.pdf | 19831676<br>87658faf4c80ccfaa837ad18801a6778010ab66b | no | 60 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 34 | Non Patent Literature | Bellcore-34.pdf | 23291828<br>e4fe719305e3d3d07da2d21e18dd102b7ad1e886 | no | 90 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 35 | Non Patent Literature | Bellcore-35.pdf | 17035787<br>31a0d1d7141cbb44bb64204e19887fe5b1f7eab7 | no | 94 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 36 | Non Patent Literature | Huitema-IEEE-Architecture_for_Residential_IP_Telephony-1.pdf | 7178522<br>06eb5efed97fa46b453ce800088cf2e3220573af | no | 7 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |

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|---|---|---|---|---|---|
| 37 | Non Patent Literature | InteractionSIPProxy-SIPdatasheet-InteractiveIntelligence-1.pdf | 1643805<br>13586f5be6a9e8b4ff9b68e8d17eb44ecfaa3298 | no | 2 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| 38 | Non Patent Literature | Microsoft-BasedIPPBXCommunicationsSolutionEIC-Features-IPPBX-Vonexus-IIS.pdf | 369247<br>0194d21aaae2b767c4ae8d1dc4c01e152209d520 | no | 4 |
| **Warnings:** | | | | | |
| **Information:** | | | | | |
| | | **Total Files Size (in bytes):** | 644940509 | | |

**This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.**

**New Applications Under 35 U.S.C. 111**

**If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.**

**National Stage of an International Application under 35 U.S.C. 371**

**If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.**

**New International Application Filed with the USPTO as a Receiving Office**

**If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.**

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
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# NOTICE OF ALLOWANCE AND FEE(S) DUE

20551 7590 09/18/2020
THORPE NORTH & WESTERN, LLP.
P.O. Box 1219
SANDY, UT 84091-1219

| EXAMINER |
|---|
| RAHMAN, M MOSTAZIR |

| ART UNIT | PAPER NUMBER |
|---|---|
| 2411 | |

DATE MAILED: 09/18/2020

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 14/035,806 | 09/24/2013 | Johan Emil Viktor Björsell | 4278-004.PCT.US.CON1 | 5562 |

TITLE OF INVENTION: MOBILE GATEWAY

| APPLN. TYPE | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|---|---|---|---|---|---|---|
| nonprovisional | SMALL | $500 | $0.00 | $0.00 | $500 | 12/18/2020 |

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

**HOW TO REPLY TO THIS NOTICE:**

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.**

## PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

20551 7590 09/18/2020
THORPE NORTH & WESTERN, LLP.
P.O. Box 1219
SANDY, UT 84091-1219

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

**Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

| (Typed or printed name) |
|---|
| (Signature) |
| (Date) |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 14/035,806 | 09/24/2013 | Johan Emil Viktor Björsell | 4278-004.PCT.US.CON1 | 5562 |

TITLE OF INVENTION: MOBILE GATEWAY

| APPLN. TYPE | ENTITY STATUS | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|---|---|---|---|---|---|---|
| nonprovisional | SMALL | $500 | $0.00 | $0.00 | $500 | 12/18/2020 |

| EXAMINER | ART UNIT | CLASS-SUBCLASS |
|---|---|---|
| RAHMAN, M MOSTAZIR | 2411 | 370-328000 |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 14/035,806 | 09/24/2013 | Johan Emil Viktor Björsell | 4278-004.PCT.US.CON1 | 5562 |

20551 7590 09/18/2020

THORPE NORTH & WESTERN, LLP.
P.O. Box 1219
SANDY, UT 84091-1219

| EXAMINER | |
|---|---|
| RAHMAN, M MOSTAZIR | |
| ART UNIT | PAPER NUMBER |
| 2411 | |

DATE MAILED: 09/18/2020

**Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## Privacy Act Statement

**The Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.


T-Mobile Exhibit 1002

| Notice of Allowability | Application No. 14/035,806 | Applicant(s) Björsell et al. | |
|---|---|---|---|
| | Examiner M MOSTAZIR RAHMAN | Art Unit 2411 | AIA (FITF) Status No |

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 08/12/2020.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 1-141 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   **Certified copies:**

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   **Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

| /M Mostazir Rahman/<br>Examiner, Art Unit 2411 | /ANDREW LAI/<br>Supervisory Patent Examiner, Art Unit 2411 |
|---|---|

## DETAILED ACTION

### *Notice of Pre-AIA or AIA Status*

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

### *Continued Examination Under 37 CFR 1.114*

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on ***08/12/2020*** has been entered.

### *Information Disclosure Statement*

The information disclosure statements (IDS) submitted on ***08/12/2020, 09/04/2020, 09/08/2020*** have been placed in record and considered by the examiner.

### *Allowable Subject Matter*

**Claims 1-141** are allowed.

Following the previous Office action of ***05/13/2020***, an Allowability Notice, the Applicant filed IDS containing some references. The examiner reviewed/considered the

references in the IDS and concluded that said references failed to teach all of the features/limitations deemed to have placed the case in condition for allowance in said previous Office action. Therefore, instant application remains allowed over the prior art of record, including the references the applicant submitted in said IDS, for the same reason stated in the previous Office action.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

**CONCLUSION**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M MOSTAZIR RAHMAN whose telephone number is (571)272-4785. The examiner can normally be reached on 8:30am-5:00pm PST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ANDREW LAI can be reached on 571-272-9741. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M Mostazir Rahman/
Examiner, Art Unit 2411

/ANDREW LAI/
Supervisory Patent Examiner, Art Unit 2411

| Search Notes | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | Examiner | Art Unit |
| | M MOSTAZIR RAHMAN | 2411 |

| CPC - Searched* | | |
|---|---|---|
| Symbol | Date | Examiner |
| H04W76/021 OR H04W76/025 OR H04W8/02 | 11/29/2015 | MR |

| CPC Combination Sets - Searched* | | |
|---|---|---|
| Symbol | Date | Examiner |
| | | |

| US Classification - Searched* | | | |
|---|---|---|---|
| Class | Subclass | Date | Examiner |
| | | | |

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

| /M Mostazir Rahman/<br>Examiner, Art Unit 2411 | |
|---|---|

| Search Notes | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | Examiner | Art Unit |
| | M MOSTAZIR RAHMAN | 2411 |

| Search Notes | | |
|---|---|---|
| **Search Notes** | **Date** | **Examiner** |
| EAST Search: 1)keyword search in USPAT, US-PGPUB, DERWENT , EPO, JPO, IBM_TDB; | 11/29/2015 | MR |
| class/subclasses with keyword, inventors, assignee | 11/29/2015 | MR |
| Inventor and assignee search in EAST, eDAN and PALM. | 11/29/2015 | MR |
| NPL Search: IP.COM | 11/29/2015 | MR |
| Updated search | 10/16/2016 | MR |
| Consulted with SPE, Andrew Lai | 10/18/2016 | MR |
| Updated search | 11/15/2016 | MR |
| Updated search | 08/21/2017 | MR |
| Updated search | 06/27/2018 | MR |
| Updated search | 08/07/2018 | MR |
| Updated search | 06/10/2019 | MR |
| Consulted with SPE, Andrew Lai | 06/11/2019 | MR |
| Updated search | 08/13/2019 | MR |
| Consulted with SPE, Andrew Lai | 04/28/2020 | MR |
| Updated search | 05/05/2020 | MR |
| Updated search | 09/03/2020 | MR |
| Updated search | 09/07/2020 | MR |

| Interference Search | | | |
|---|---|---|---|
| **US Class/CPC Symbol** | **US Subclass/CPC Group** | **Date** | **Examiner** |
| Please see search report | | 05/05/2020 | MR |
| Please see search report | | 09/03/2020 | MR |

| | |
|---|---|
| /M Mostazir Rahman/<br>Examiner, Art Unit 2411 | |

| Index of Claims | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | Examiner | Art Unit |
| | M MOSTAZIR RAHMAN | 2411 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ✓ | Rejected | - | Cancelled | N | Non-Elected | A | Appeal |
| = | Allowed | ÷ | Restricted | I | Interference | O | Objected |

**CLAIMS**

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

| CLAIM | | DATE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
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| 2 | 2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 3 | 3 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 4 | 4 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 5 | 5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 6 | 6 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 7 | 7 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 8 | 8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 9 | 9 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 10 | 10 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 11 | 11 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 12 | 12 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 13 | 13 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 14 | 14 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 15 | 15 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 16 | 16 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 17 | 17 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 18 | 18 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 19 | 19 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
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| 22 | 22 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 23 | 23 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 24 | 24 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 25 | 25 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 26 | 26 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 27 | 27 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 28 | 28 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 29 | 29 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 30 | 30 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 31 | 31 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 32 | 32 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 33 | 33 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 34 | 34 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 35 | 35 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 36 | 36 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 37 | 37 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 38 | 38 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 39 | 39 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 40 | 40 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 41 | 41 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 42 | 42 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |

| Index of Claims | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | Examiner | Art Unit |
| | M MOSTAZIR RAHMAN | 2411 |

| CLAIM | | DATE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Final | Original | 11/25/2015 | 10/16/2016 | 08/21/2017 | 08/03/2018 | 08/13/2019 | 05/05/2020 | 09/03/2020 | | |
| 43 | 43 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 44 | 44 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 45 | 45 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 46 | 46 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 47 | 47 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 48 | 48 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 49 | 49 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 50 | 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 51 | 51 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 52 | 52 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 53 | 53 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 54 | 54 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 55 | 55 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 56 | 56 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 57 | 57 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 58 | 58 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 59 | 59 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 60 | 60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 61 | 61 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 62 | 62 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 63 | 63 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 64 | 64 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 65 | 65 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 66 | 66 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 67 | 67 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 68 | 68 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 69 | 69 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 70 | 70 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 71 | 71 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 72 | 72 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 73 | 73 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 74 | 74 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 75 | 75 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 76 | 76 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 77 | 77 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 78 | 78 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 79 | 79 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 80 | 80 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 81 | 81 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 82 | 82 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 83 | 83 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 84 | 84 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 85 | 85 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 86 | 86 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 87 | 87 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 88 | 88 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 89 | 89 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 90 | 90 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 91 | 91 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 92 | 92 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 93 | 93 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 94 | 94 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |

| Index of Claims | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | Examiner | Art Unit |
| | M MOSTAZIR RAHMAN | 2411 |

| CLAIM | | DATE | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Final | Original | 11/25/2015 | 10/16/2016 | 08/21/2017 | 08/03/2018 | 08/13/2019 | 05/05/2020 | 09/03/2020 | | |
| 95 | 95 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 96 | 96 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 97 | 97 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 98 | 98 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 99 | 99 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 100 | 100 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 101 | 101 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 102 | 102 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 103 | 103 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 104 | 104 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 105 | 105 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 106 | 106 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 107 | 107 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 108 | 108 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 109 | 109 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 110 | 110 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 111 | 111 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 112 | 112 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 113 | 113 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 114 | 114 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 115 | 115 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 116 | 116 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 117 | 117 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 118 | 118 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 119 | 119 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 120 | 120 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 121 | 121 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 122 | 122 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 123 | 123 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 124 | 124 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 125 | 125 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 126 | 126 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 127 | 127 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 128 | 128 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 129 | 129 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 130 | 130 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 131 | 131 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 132 | 132 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 133 | 133 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 134 | 134 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 135 | 135 | | | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 136 | 136 | | | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 137 | 137 | | | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 138 | 138 | | | | ✓ | ✓ | ✓ | ✓ | | |
| 139 | 139 | | | | ✓ | ✓ | ✓ | ✓ | | |
| 140 | 140 | | | | ✓ | ✓ | ✓ | ✓ | | |
| 141 | 141 | | | | ✓ | ✓ | ✓ | ✓ | | |

| Issue Classification | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | **Examiner** | **Art Unit** |
| | M MOSTAZIR RAHMAN | 2411 |

| CPC | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Symbol** | | | | | | **Type** | **Version** |
| H04W | / | 8 | / | 02 | | F | 2013-01-01 |
| H04W | / | 76 | / | 11 | | I | 2018-02-01 |
| H04W | / | 76 | / | 15 | | A | 2018-02-01 |

| CPC Combination Sets | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Symbol** | | | | | | **Type** | **Set** | **Ranking** | **Version** |
| | / | | / | | | | | | |

| | | | |
|---|---|---|---|
| /M Mostazir Rahman/<br>Examiner, Art Unit 2411 | 03 September 2020 | **Total Claims Allowed:** | |
| (Assistant Examiner) | (Date) | 141 | |
| /ANDREW LAI/<br>Supervisory Patent Examiner, Art Unit 2411 | 07 September 2020 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 1 | 1 |

U.S. Patent and Trademark Office — Part of Paper No.: 20200903





T-Mobile Exhibit 1002

| Issue Classification | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | **Examiner** | **Art Unit** |
| | M MOSTAZIR RAHMAN | 2411 |

| INTERNATIONAL CLASSIFICATION | | | | |
|---|---|---|---|---|
| **CLAIMED** | | | | |
| H04W | / | 8 | / | 02 |

| NON-CLAIMED | | | | |
|---|---|---|---|---|
| H04W | / | 76 | / | 11 |

| US ORIGINAL CLASSIFICATION | |
|---|---|
| **CLASS** | **SUBCLASS** |
| | |

| CROSS REFERENCES(S) | | | | | | |
|---|---|---|---|---|---|---|
| **CLASS** | **SUBCLASS (ONE SUBCLASS PER BLOCK)** | | | | | |
| | | | | | | |

| | | | |
|---|---|---|---|
| /M Mostazir Rahman/<br>Examiner, Art Unit 2411 | 03 September 2020 | **Total Claims Allowed:** | |
| (Assistant Examiner) | (Date) | 141 | |
| /ANDREW LAI/<br>Supervisory Patent Examiner, Art Unit 2411 | 07 September 2020 | O.G. Print Claim(s) | O.G. Print Figure |
| (Primary Examiner) | (Date) | 1 | 1 |

| Issue Classification | Application/Control No. | Applicant(s)/Patent Under Reexamination |
|---|---|---|
| | 14/035,806 | Björsell et al. |
| | **Examiner** | **Art Unit** |
| | M MOSTAZIR RAHMAN | 2411 |

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

**CLAIMS**

| Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | | 19 | | 37 | | 55 | | 73 | | 91 | | 109 | | 127 |
| | 2 | | 20 | | 38 | | 56 | | 74 | | 92 | | 110 | | 128 |
| | 3 | | 21 | | 39 | | 57 | | 75 | | 93 | | 111 | | 129 |
| | 4 | | 22 | | 40 | | 58 | | 76 | | 94 | | 112 | | 130 |
| | 5 | | 23 | | 41 | | 59 | | 77 | | 95 | | 113 | | 131 |
| | 6 | | 24 | | 42 | | 60 | | 78 | | 96 | | 114 | | 132 |
| | 7 | | 25 | | 43 | | 61 | | 79 | | 97 | | 115 | | 133 |
| | 8 | | 26 | | 44 | | 62 | | 80 | | 98 | | 116 | | 134 |
| | 9 | | 27 | | 45 | | 63 | | 81 | | 99 | | 117 | | 135 |
| | 10 | | 28 | | 46 | | 64 | | 82 | | 100 | | 118 | | 136 |
| | 11 | | 29 | | 47 | | 65 | | 83 | | 101 | | 119 | | 137 |
| | 12 | | 30 | | 48 | | 66 | | 84 | | 102 | | 120 | | 138 |
| | 13 | | 31 | | 49 | | 67 | | 85 | | 103 | | 121 | | 139 |
| | 14 | | 32 | | 50 | | 68 | | 86 | | 104 | | 122 | | 140 |
| | 15 | | 33 | | 51 | | 69 | | 87 | | 105 | | 123 | | 141 |
| | 16 | | 34 | | 52 | | 70 | | 88 | | 106 | | 124 | | |
| | 17 | | 35 | | 53 | | 71 | | 89 | | 107 | | 125 | | |
| | 18 | | 36 | | 54 | | 72 | | 90 | | 108 | | 126 | | |

| | | | |
|---|---|---|---|
| /M Mostazir Rahman/<br>Examiner, Art Unit 2411<br>(Assistant Examiner) | 03 September 2020<br>(Date) | **Total Claims Allowed:**<br>141 | |
| /ANDREW LAI/<br>Supervisory Patent Examiner, Art Unit 2411<br>(Primary Examiner) | 07 September 2020<br>(Date) | O.G. Print Claim(s)<br>1 | O.G. Print Figure<br>1 |

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**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**
(Use as many sheets as necessary)

Sheet | | of |

| Complete if Known | |
|---|---|
| Application Number | 14/035,806 |
| Filing Date | 9/24/2013 |
| First Named Inventor | Johan Emil Viktor Björsell |
| Art Unit | 2411 |
| Examiner Name | M. Mostazir Rahman |
| Attorney Docket Number | 4278-004.PCT.US.CON1 |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No.[1] | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[2] |
|---|---|---|---|
| | 1 | ANDREW CRAY, IP PBXs: Open Questions, Data Communications, The Global Magazine for Network Architects, pgs. 1, 114, 69-84, March 1999, United States. | |
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| | 10 | AVAYA INC., Application Notes for H.323 Voice over IP Trunking between Avaya Communication Manager and VoIP Americas Nativevoip VoIP Service – Issue 1.0, Avaya Solution & Interoperability Test Lab, 2005, 13 pages, Avaya Inc., United States. | |
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| | 12 | JOHN ALEXANDER, ET AL., A Cisco AVVID Solution, Cisco CallManager Fundamentals, 2002, 722 pages, Cisco Press, United States. | |
| | 13 | JOHN ALEXANDER, ET AL., Cisco CallManager Fundamentals, Second Edition, 2006, 975 pages, Cisco Systems, Inc., United States. | |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**
(Use as many sheets as necessary)

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| Complete if Known | |
|---|---|
| Application Number | 14/035,806 |
| Filing Date | 9/24/2013 |
| First Named Inventor | Johan Emil Viktor Björsell |
| Art Unit | 2411 |
| Examiner Name | M. Mostazir Rahman |
| Attorney Docket Number | 4278-004.PCT.US.CON1 |

| | | | |
|---|---|---|---|
| | 14 | SALVATORE COLLORA ET AL., A Cisco AVVID Solution, Cisco CallManager Best Practices, 2004, 620 pages, Cisco Systems, Inc., United States. | |
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| Application Number | 14/035,806 |
| Filing Date | 9/24/2013 |
| First Named Inventor | Johan Emil Viktor Björsell |
| Art Unit | 2411 |
| Examiner Name | M. Mostazir Rahman |
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PTO/SB/08 Equivalent

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| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | M. Mostazir Rahman |
| SHEET 2 OF 2 | Attorney Docket No. | 4278-004.PCT.US.CON1 |

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# Bibliographic Data

Application No: 14/035,806

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /M Mostazir Rahman/ (Examiner's Signature) | (Initials)

Title: MOBILE GATEWAY

| FILING or 371(c) DATE | CLASS | GROUP ART UNIT | ATTORNEY DOCKET NO. |
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| 09/24/2013 | 370 | 2411 | 4278-004.PCT.US.CON1 |
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Maksym Sobolyev, New Westminster, CANADA

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Emil Malak, Vancouver, CANADA

**CONTINUING DATA**

This application is a CON of 13056277 01/27/2011 PAT 8630234

13056277 is a 371 of PCT/CA2009/001062 07/28/2009

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**FOREIGN APPLICATIONS**

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10/08/2013

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| Examiner Initials | Cite No. | Document Number *Number - Kind Code (if known)* Example: 1,234,567 B1 | Publication Date MM-DD-YYYY | Name of Patentee or Applicant | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear |
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| | **61** | 2003/0091028 A1 | 05-15-2003 | Chang et al. | |
| | **62** | 2003/0095541 A1 | 05-22-2003 | Chang et al. | |
| | **63** | 2005/0135401 A1 | 06-23-2005 | Schmidt | |
| | **64** | 2005/0164704 A1 | 07-28-2005 | Winsor | |
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**FOREIGN PATENT DOCUMENTS**

| Examiner Initials | Cite No. | Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1 | Publication Date MM-DD-YYYY | Name of Patentee or Applicant | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear | T[1] |
|---|---|---|---|---|---|---|
| | **70** | CA 2668025 C | 02-25-2020 | VOIP-PAL.COM, INC. | | |
| | **71** | CA 2732148 C | 06-05-2018 | VOIP-PAL.COM, INC. | | |
| | **72** | CA 3032707 A1 | 05-08-2008 | VOIP-PAL.COM, INC. | | |
| | **73** | CA 3045672 A1 | 05-08-2008 | VOIP-PAL.COM, INC. | | |
| | **74** | CA 3045681 A1 | 05-08-2008 | VOIP-PAL.COM, INC. | | |
| | **75** | CA 3045683 A1 | 05-08-2008 | VOIP-PAL.COM, INC. | | |
| | **76** | CA 3045694 A1 | 05-08-2008 | VOIP-PAL.COM, INC. | | |
| | **77** | EP 1054569 A1 | 11-22-2000 | Jadoul | | |
| | **78** | EP 2084868 B1 | 05-30-2018 | VOIP-PAL.COM, INC. | | |
| | **79** | EP 2311292 (European App. No. EP 09 802 316.1) | 04-21-2020 | VOIP-PAL.COM, INC. | | |
| | **80** | EP 2311292 A4 | 05-14-2014 | VOIP-PAL.COM, INC. | | |
| | **81** | EP 3386155 A1 | 10-10-2018 | VOIP-PAL.COM, INC. | | |

| Examiner Signature | /M Mostazir Rahman/ | Date Considered | 09/07/2020 |
|---|---|---|---|

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**T[1]** - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

PTO/SB/08 Equivalent

| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application No. | 14/035,806 |
|---|---|---|
| | Filing Date | 9/24/2013 |
| | First Named Inventor | Johan Emil Viktor Björsell |
| | Art Unit | 2411 |
| *(Multiple sheets used when necessary)* | Examiner | M. Mostazir Rahman |
| SHEET 4 OF 4 | Attorney Docket No. | 4278-004.PCT.US.CON1 |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initials | Cite No. | Foreign Patent Document *Country Code-Number-Kind Code* Example: JP 1234567 A1 | Publication Date MM-DD-YYYY | Name of Patentee or Applicant | Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear | T[1] |
|---|---|---|---|---|---|---|
| | **82** | WO 2000/069156 A1 | 11-16-2000 | Duffy et al. | | |
| | **83** | WO 2001/006740 A2 | 01-25-2001 | Duffy et al. | | |
| | **84** | WO 2003/028355 A1 | 04-03-2003 | Brongo et al. | | |
| | **85** | WO 2004/008786 A1 | 01-22-2004 | Nokia Corporation | | |
| | **86** | WO 2003/096559 A1 | 11-20-2003 | Seligmann | | |
| | **87** | WO 2004/102941 A1 | 11-25-2004 | Abelev et al. | | |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[1] |
|---|---|---|---|
| | **88** | | |

20200904d

| Examiner Signature | /M Mostazir Rahman/ | Date Considered | 09/07/2020 |
|---|---|---|---|

***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**T[1]** - Place a check mark in this area when an English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.R./

**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 11 | ((("VOIP-PAL.COM") near3 ("INC"))).AS,AANM. | USPAT | OR | ON | 2020/09/03 17:11 |
| L2 | 16 | ((("Sobolyev") near3 ("Maksym"))).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2020/09/03 17:11 |
| L3 | 10 | ((("Huttunen") near3 ("Pentti") near3 ("Kalevi"))).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2020/09/03 17:11 |
| L4 | 4 | ((("Malak") near3 ("Emil"))).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2020/09/03 17:11 |
| L5 | 29 | (digifonica).as,AANM. | US-PGPUB; USPAT | OR | ON | 2020/09/03 17:11 |
| L6 | 20 | ((("VOIP-PAL.COM") )).AS,AANM. | US-PGPUB; USPAT | OR | ON | 2020/09/03 17:11 |
| L7 | 0 | (L6 L5 L4 L3 L2 L1) AND (source$4 and destinat$4 and (access$4 NEAR4 (code$4 id idenfication$4 key flag$4 ) ) AND (location$4 gps) AND (reply$4 feedback$4 ) ).clm. | US-PGPUB; USPAT | OR | ON | 2020/09/03 17:11 |
| L8 | 1 | 14/035806.APP. | US-PGPUB; USPAT | OR | ON | 2020/09/03 17:11 |
| L9 | 268,652 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2020/09/03 17:11 |
| L10 | 1 | L9 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2020/09/03 17:11 |
| L11 | 582,988 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2020/09/03 17:12 |
| L12 | 11 | ((("VOIP-PAL.COM") near3 ("INC"))).AS,AANM. | USPAT | OR | ON | 2020/09/03 17:12 |
| L13 | 16 | ((("Sobolyev") near3 ("Maksym"))).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2020/09/03 17:12 |

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|---|---|---|---|---|---|---|
| L14 | 10 | ((("Huttunen") near3 ("Pentti") near3 ("Kalevi"))).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2020/09/03 17:12 |
| L15 | 4 | ((("Malak") near3 ("Emil"))).INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2020/09/03 17:12 |
| L16 | 29 | (digifonica).as,AANM. | US-PGPUB; USPAT | OR | ON | 2020/09/03 17:12 |
| L17 | 20 | ((("VOIP-PAL.COM") )).AS,AANM. | US-PGPUB; USPAT | OR | ON | 2020/09/03 17:12 |
| L18 | 3 | (L17 L16 L15 L14 L13 L12) AND ( (destinat$4 UE terminal$4 phone mobile$4 WTRU STA STA TE TA ) and (access$4 AND (code$4 id idenfication$4 key flag$4 ) ) AND (location$4 gps) AND (reply$4 feedback$4 ) ).clm. | US-PGPUB; USPAT | OR | ON | 2020/09/03 17:12 |
| L19 | 48 | ( reply$3 feedback$4 feed$1back$3 acknowledg$4 ACK respons$4) NEAR3 (messag$4 packet$4 frame$1 PDU data adj2 gram$1 data adj2 unit$4 ) SAME access$3 NEAR3 code$3 SAME (location$3 GPS position$4 coordinat$4 latitud$4 ) NEAR5 (identifier$3 ID information$4 data$1) SAME (request$4 demand$4 ask$4 query$4 solicit$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/09/03 17:13 |
| L20 | 34 | ( (server$4 gatewar$4 rout$4) NEAR6 (reply$4 feed$1back$4 feedbck$1 acknowledg$5 ACK) NEAR5 (channel$4 frequency$4 path$4 rout$4 access$1 near2 code$4) SAME (location$4 gps$4 ) NEAR5 (WD wireless adj2 device$4 WTRU terminal TA TE user adj2 equipment UE STA STB) ) AND (@AD <"20080728" ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/09/03 17:13 |
| L21 | 104 | ( (server$4 gatewar$4 rout$4) NEAR6 (reply$4 feed$1back$4 feedbck$1 acknowledg$5 ACK) SAME (channel$4 frequency$4 path$4 rout$4 access$1 near2 code$4) SAME (location$4 gps$4 ) SAME (WD wireless adj2 device$4 WTRU terminal TA TE user adj2 equipment UE STA STB) ) AND (@AD <"20080728" ) NOT L20 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2020/09/03 17:13 |
| S1 | 2 | "13056277" | US-PGPUB; USPAT; | OR | ON | 2013/02/25 16:48 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S2 | 34 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/02/25 18:09 |
| S3 | 2 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:03 |
| S4 | 34 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:03 |
| S5 | 34 | ("20060093135" \| "20040022237" \| "7055174" \| "20060153342" \| "20060258328" \| "6724860" \| "20070112964" \| "7046658" \| "20030200311" \| "8116307" \| "6151385" \| "6597686" \| "6744858" \| "20060072550" \| "20050025043" \| "6963557" \| "20040240439").PN. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:03 |
| S6 | 4 | ((JOHAN) near2 (BJORSELL)).INV. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:16 |
| S7 | 3 | ((MAKSYM) near2 (SOBOLYEV)).INV. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:16 |
| S8 | 2 | ((PENTTI) near2 (HUTTUNEN)).INV. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:17 |
| S10 | 5 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:21 |
| S11 | 5 | S6 or S7 or S8 or S10 | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:21 |
| S12 | 288,340 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:29 |

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|---|---|---|---|---|---|---|
| S13 | 1,195 | ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 ) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:33 |
| S14 | 701 | S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 ) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:33 |
| S15 | 40 | S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:34 |
| S16 | 23 | S12 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5))) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:36 |
| S18 | 2 | us-20070112964-$.did. us-20040022237-$.did. | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:49 |
| S19 | 4 | us-20070112964-$.did. us-20040022237-$.did. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/13 16:49 |
| S20 | 245,256 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:52 |
| S21 | 1 | S20 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:53 |
| S22 | 366,030 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:54 |
| S24 | 354 | S22 and ((access adj code) same (channel ID identification) same request) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:55 |
| S25 | 8 | S22 and ((access adj code) same (channel with (ID identification)) same request) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:56 |
| S26 | 10 | S22 and ((access adj2 code) same caller same callee) | US-PGPUB; USPAT | OR | ON | 2013/03/13 16:59 |
| S27 | 58 | S22 and ((phone caller callee 'calling party') same server same router same (initiat$4 or setup or sett$4)same channel) | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:05 |

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|---|---|---|---|---|---|---|
| S28 | 10 | S22 and ((phone caller callee "calling party" "called party" "called terminal" "calling party") same server same rout$5 same (call near5 (initiat$4 or setup)) same channel same request same (ID identif$7)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:19 |
| S29 | 257 | S22 and (caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:27 |
| S30 | 72 | S22 and (caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) same access$5 | US-PGPUB; USPAT | OR | ON | 2013/03/13 17:28 |
| S31 | 11 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$).did. or (US-7068684-$ or US-6963635-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:13 |
| S32 | 9 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:13 |
| S33 | 3 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and processor and interface and identification) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:16 |
| S34 | 7 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) ) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:18 |
| S35 | 7 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:21 |

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|---|---|---|---|---|---|---|
| S36 | 2 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number and expir$5) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:22 |
| S37 | 2 | S31 and ((caller callee "calling party" "called party" "called terminal" "calling party") same (call$3 near server) same (router gateway rout$3 adj control$5) and channel and (initiat$5 setup) and (identi$7 ID) and voice and (location local$3 geograph$5 area) and number and expir$5 and (access adj code)) | US-PGPUB; USPAT | OR | ON | 2013/03/13 19:54 |
| S39 | 3 | "7079526".pn. us-20030114145-$.did. "6016319".pn. | US-PGPUB; USPAT | OR | ON | 2013/03/14 11:27 |
| S40 | 409,041 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:17 |
| S43 | 21,100 | S40 and (initiat$4 adj3 call) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:21 |
| S44 | 128 | S40 and ((initiat$4 adj2 call) same (access adj2 code)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:22 |
| S45 | 101 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:23 |
| S46 | 38 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((voice data) adj2 network)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:23 |

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|---|---|---|---|---|---|---|
| S47 | 33 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:25 |
| S48 | 11 | S40 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:26 |
| S49 | 35 | ("2006/0189337").URPN. | USPAT | OR | ON | 2013/03/15 11:34 |
| S50 | 5 | S46 not S47 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:46 |
| S51 | 63 | S45 not S46 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:47 |
| S52 | 409,041 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:52 |
| S53 | 0 | S52 and ((initiat$4 adj2 call) same (access adj2 code) same (data adj2 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:52 |
| S54 | 213 | S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:53 |
| S55 | 159 | S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5) and (wirless mobile handfree)) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/15 11:54 |

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|---|---|---|---|---|---|---|
| | | | DERWENT; IBM_TDB | | | |
| S56 | 22 | S52 and ((initiat$4 with call) same (access adj5 code) and (data with network$5) and (wirless mobile handfree) adj5 (IP or (internet adj2 protocol))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:54 |
| S57 | 20 | S52 and ((initiat$4 with call) same (access adj5 code) and (data adj5 network$5) and (wirless mobile handfree) adj5 (IP or (internet adj2 protocol))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 11:55 |
| S58 | 17 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 12:01 |
| S62 | 17 | S58 and (server) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 12:02 |
| S63 | 11 | S58 and (server and client) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 12:03 |
| S64 | 181 | S52 and (channel same (ID indentifier indentification) same request same server same (router rout$5 gateway adj control$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:32 |
| S65 | 27 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway adj control$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:33 |
| S67 | 154 | S64 not S65 | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/15 12:34 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | DERWENT; IBM_TDB | | | |
| S68 | 32 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:34 |
| S69 | 2 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) and (wireless adj2 ip adj4 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:35 |
| S72 | 2 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless adj2 ip adj4 network$5)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:36 |
| S73 | 5 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless with (ip or (internet adj2 protocol)))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:46 |
| S74 | 12 | S52 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND ((wireless mobile) with (ip or (internet adj2 protocol)))) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:48 |
| S76 | 7 | S74 not S73 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 12:49 |
| S77 | 432,569 | ("370".clas. "709".clas. "455".clas. "725".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 13:10 |
| S79 | 2 | S77 and (channel same (ID indentifier indentification) same request same (call$5 near5 server) same (router rout$5 gateway) AND (wireless adj5 IP)) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/15 13:11 |

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| | | | DERWENT; IBM_TDB | | | |
| S82 | 0 | S79 and (POOL) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:32 |
| S83 | 0 | S79 and (indenfi$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S84 | 2 | S79 and (identifi$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S85 | 2 | S79 and (identifi$5 and access) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S86 | 0 | S79 and (identifi$5 with access) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S87 | 2 | S79 and (identifi$5 and access and number) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:33 |
| S88 | 2 | S79 and (identifi$5 and access and number and associat$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:34 |
| S89 | 2 | S79 and (identifi$5 and access and number and associat$5 and select$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/15 15:34 |

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| | | | DERWENT; IBM_TDB | | | |
| S90 | 900 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:57 |
| S91 | 0 | S52 and (pool database) with (access adj code) with (phone adj number) with (associat$3 respective) same (wireless IP)\ | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:57 |
| S92 | 0 | S52 and (pool database) with (access adj code) with (phone adj number) with (associat$3 respective) and (wireless IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:58 |
| S93 | 820 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) and (wireless IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:58 |
| S94 | 181 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) same (wireless IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:58 |
| S95 | 8 | S52 and (pool database) with (access adj code phone adj number) with (associat$3 respective) same (wireless with IP) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 15:59 |
| S98 | 20 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US- | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:13 |

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| | | 6674745-$).did. or (WO-2010012090-$).did. | | | | |
| S99 | 11 | S98 and (local with number) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:17 |
| S100 | 9 | S98 and (local near7 number) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:19 |
| S101 | 7 | S98 and (local near4 number) | US-PGPUB; USPAT; DERWENT | OR | ON | 2013/03/15 16:19 |
| S102 | 3 | (US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/15 16:49 |
| S103 | 3 | S102 AND (ip adj2 address) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:49 |
| S104 | 0 | S102 AND (ip adj2 address with mobile) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:50 |
| S105 | 2 | S102 AND (ip adj2 address with (receiv$5 reception)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:50 |
| S106 | 3 | S102 AND (ip adj2 address with server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:52 |
| S107 | 0 | S102 AND (ip adj2 address with server with receiv$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:53 |
| S108 | 1 | S102 AND (ip adj2 address with receiv$3 same server) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | ON | 2013/03/15 16:53 |

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| | | | DERWENT; IBM_TDB | | | |
| S109 | 0 | S102 AND ((ip adj address) with caller) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:54 |
| S110 | 2 | S102 AND ((ip adj address) with call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/15 16:54 |
| S111 | 1 | "12116756" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 14:43 |
| S112 | 3 | (US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/16 15:36 |
| S115 | 1 | S112 AND (identif$5 same wireless) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 15:37 |
| S116 | 3 | S112 AND (identif$5 and (mobile wireless)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:09 |
| S117 | 1 | S112 AND (identif$5 with (mobile wireless)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:09 |
| S118 | 2 | S112 AND (identif$5 same (mobile wireless)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:09 |
| S119 | 3 | S112 AND (identi$6 and (mobile wireless) and config$5) | US-PGPUB; USPAT; | OR | ON | 2013/03/16 16:11 |

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| | | | FPRS; EPO; JPO; DERWENT; IBM_TDB | | | |
| S122 | 3 | S112 AND (identi$6 and (mobile wireless) and config$5 and user) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:11 |
| S123 | 3 | S112 AND (identi$6 and (mobile wireless) and config$5 and user and location) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:12 |
| S124 | 2 | S112 AND (identi$6 same (mobile wireless) and config$5 and user and location) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:12 |
| S126 | 1 | S112 AND (identi$6 same (mobile wireless) and (config$5 same location) and user) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:13 |
| S127 | 1 | S112 AND (identi$6 same (mobile wireless) same location and (config$5 same user)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:17 |
| S128 | 2 | S112 AND (location same identi$6 same user) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 16:50 |
| S129 | 3 | S112 AND (local same number) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:08 |
| S130 | 2 | S112 AND (local near5 number) | US-PGPUB; USPAT; FPRS; EPO; | OR | ON | 2013/03/16 17:12 |

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| | | | JPO; DERWENT; IBM_TDB | | | |
| S131 | 3 | S112 AND (IP adj2 network same rout$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:19 |
| S136 | 3 | S112 AND (call same channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:39 |
| S137 | 1 | S112 AND (call same channel same establ$5) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:39 |
| S141 | 1 | S112 AND (establ$5 same call same channel) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 17:41 |
| S142 | 2 | S112 AND (call$5 same identif$6 same access) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 18:31 |
| S143 | 1 | S112 AND (call$5 same identif$6 same access same code) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/16 18:31 |
| S144 | 3 | (US-20040022237-$ or US-20080056235-$).did. or (US-6674745-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:29 |
| S145 | 3 | S144 and (telephone same number) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:30 |
| S146 | 2 | S144 and ((number or code) with match$4) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:31 |
| S147 | 3 | S144 and ((number or code or ID or identifier) with called) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:37 |

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| S148 | 2 | S144 and ((number or code or ID or identifier) with channel) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:45 |
| S149 | 1 | S144 and ((number or code) same (ID or identifier) same channel) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:46 |
| S150 | 2 | S144 and ((number or code or ID or identifier) same channel same (called dialed)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:49 |
| S151 | 2 | S144 and (channel same (called dialed)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:51 |
| S152 | 3 | S144 and (TTL expir$5 timestap) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:56 |
| S153 | 3 | S144 and (TTL expir$5 timestamp) | US-PGPUB; USPAT | OR | ON | 2013/03/18 19:56 |
| S154 | 2 | S144 and (data non$1voice) with (reply respon$4) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:09 |
| S155 | 2 | S144 and (data non$1voice) same (code numer ID identifier) same (reply respon$4) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:10 |
| S156 | 3 | S144 and (data non$1voice) same (code numer ID identifier) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:12 |
| S157 | 3 | S144 and (data non$1voice) same (code numer ID identifier) same2 (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:14 |
| S158 | 3 | S144 and (data non$1voice) same (code number ID identifier) same2 (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:14 |
| S159 | 3 | S144 and (data non$1voice) same (code number ID identifier) same (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:17 |
| S160 | 1 | S144 and code with (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:19 |
| S161 | 3 | S144 and (number ID identifier) with (reply$3 respon$5) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:21 |
| S162 | 2 | S144 and (access adj code) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:23 |
| S163 | 0 | S144 and (access adj code) same (reply reponse respond$3) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:23 |
| S164 | 1 | S144 and (access adj code) same2 (reply reponse respond$3) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:24 |
| S165 | 1 | S144 and code same query | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:26 |
| S166 | 0 | "L29" and (data with interface with access adj code with (reply response respond$3)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:26 |

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| S167 | 366,130 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:27 |
| S168 | 6 | S167 and (data with interface with access adj code with (reply response respond$3)) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:27 |
| S169 | 1 | S167 and (access adj code) with expir$5 with (establish$4 ssetup) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:41 |
| S170 | 3 | S167 and (access adj code) with expir$5 with (establish$4 setup) | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:41 |
| S171 | 8 | S167 and (access adj code) with expir$5 with call$3 | US-PGPUB; USPAT | OR | ON | 2013/03/18 20:43 |
| S172 | 5 | (US-20040022237-$ or US-20080056235-$ or US-20020122391-$).did. or (US-6674745-$ or US-5454030-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/22 14:46 |
| S173 | 3 | S172 and (dial$3 with number) | US-PGPUB; USPAT | OR | ON | 2013/03/22 15:52 |
| S174 | 2 | S172 and (called with number with request) | US-PGPUB; USPAT | OR | ON | 2013/03/22 15:58 |
| S175 | 1 | S172 and (calling with number with request) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:00 |
| S176 | 1 | S172 and (calling with request) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:01 |
| S178 | 2 | S172 and (request with access) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:03 |
| S179 | 4 | S172 and (access near code) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:04 |
| S180 | 1 | S172 and (access with soft) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:06 |
| S181 | 1 | S172 and (access same soft same (caller calling)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:08 |
| S182 | 1 | S172 and (access same request$3 same (caller calling)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:09 |
| S185 | 1 | S172 and (reply with request$3) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:15 |
| S186 | 5 | S172 and (reply response) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:16 |
| S187 | 4 | S172 and ((reply response) with (code id identif$8)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:19 |
| S188 | 4 | S172 and ((calling caller) with (code id identif$8)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:21 |
| S189 | 3 | S172 and ((calling caller) with (reply$3 respon$5)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:23 |

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| S190 | 1 | S172 and ((calling caller) same called same (initial$5 code access)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:24 |
| S191 | 4 | S172 and ((reply response) with (code id identif$8) with (reply$3 respon$5)) | US-PGPUB; USPAT | OR | ON | 2013/03/22 16:38 |
| S193 | 5 | (US-20040022237-$ or US-20080056235-$ or US-20020122391-$).did. or (US-6674745-$ or US-5454030-$).did. | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:05 |
| S194 | 3 | S193 and (ip adj2 address) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:06 |
| S195 | 0 | S193 and (ip adj2 address with mobile) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:07 |
| S196 | 1 | S193 and (ip adj2 address same mobile) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:07 |
| S197 | 3 | S193 and (ip adj2 address) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:08 |
| S198 | 3 | S193 and (ip adj1 address) | US-PGPUB; USPAT | OR | ON | 2013/03/23 12:17 |
| S199 | 1 | S193 and (mobile same routed) | US-PGPUB; USPAT | OR | ON | 2013/03/23 13:17 |
| S200 | 2 | S193 and (mobile same rout$4) | US-PGPUB; USPAT | OR | ON | 2013/03/23 13:18 |
| S201 | 2 | US-20070112964-$.did. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/25 12:44 |
| S202 | 2 | "5519769".pn. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2013/03/25 12:55 |
| S203 | 5 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2015/11/09 13:30 |
| S204 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2015/11/09 13:30 |

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|---|---|---|---|---|---|---|
| S205 | 68 | ("20020116464" \| "20040255126" \| "20060072547" \| "20060093135" \| "20060153342" \| "20080056302" \| "20120099599" \| "20120227101" \| "5469497" \| "5608786" \| "5712907" \| "5838682" \| "5905736" \| "5930343" \| "5991291" \| "6005926" \| "20120170574" \| "20040203582" \| "20050287979" \| "20070047548" \| "20080167019" \| "20080167020" \| "20080187122" \| "20100177671" \| "20110201321" \| "6993015" \| "7400881" \| "7573982" \| "7738384" \| "8041022" \| "8189568" \| "8437340" \| "8462915" \| "8605714" \| "8750290" \| "7587036" \| "20140349602" \| "8111690" \| "8713098" \| "20090213839" \| "20100083364" \| "20100115018" \| "20110208859" \| "20110276903" \| "20110276904" \| "20110292929" \| "20120089717" \| "20130329722" \| "20140016764" \| "8078164" \| "8396445" \| "8634838" \| "8903051" \| "8909556" \| "8938534" \| "20050222952" \| "6636833" \| "7447707" \| "7676431" \| "7765261" \| "8161078" \| "8627211" \| "20020122391" \| "20060160565" \| "20060177035" \| "20060209768" \| "20080037715" \| "5146491").pn. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:04 |
| S206 | 7 | ((Pentti) near2 (Huttunen)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:08 |
| S208 | 4 | ((Emil) near2 (Malak)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:08 |
| S209 | 19 | ((bjorsell) near2 (johan)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:09 |
| S210 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:09 |
| S211 | 9 | ((Maksym) near2 (Sobolyev)).INV. | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:10 |
| S212 | 25 | S206 S208 S209 S210 S211 | US-PGPUB; USPAT | OR | OFF | 2015/11/09 14:10 |
| S213 | 267,985 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:12 |
| S214 | 9,728 | S213 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:12 |
| S215 | 1 | S212 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:12 |

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|---|---|---|---|---|---|---|
| S216 | 3 | S212 and ((location$4 GPS ) AND (ID identificat$4 key flag$4 number digit)).clm. | US-PGPUB; USPAT | OR | ON | 2015/11/09 14:13 |
| S217 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2015/11/09 14:14 |
| S218 | 22 | (US-20070281705-$ or US-20130028251-$ or US-20090252159-$ or US-20080049732-$ or US-20070121590-$ or US-20040042607-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/09 15:24 |
| S219 | 20 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/09 16:15 |
| S220 | 22 | (US-20070281705-$ or US-20090252159-$ or US-20130028251-$ or US-20040042607-$ or US-20080049732-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US- | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/09 16:15 |

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| | | 5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S221 | 21 | S220 and (locat$4 GPS) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:15 |
| S222 | 17 | S220 and (locat$4 GPS) AND (ID identificat$4 key$4 flag$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S223 | 13 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S224 | 13 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) AND (mobile wireless cellular portable) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S225 | 10 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:16 |
| S226 | 10 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) AND (server$4 router$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:17 |
| S227 | 9 | S220 and (locat$4 GPS) SAME (ID identificat$4 key$4 flag$4) SAME (mobile wireless cellular portable) SAME (server$4 router$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:17 |
| S228 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | OFF | 2015/11/09 16:28 |

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| | | | DERWENT; IBM_TDB | | | |
| S230 | 4,816 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2015/11/09 16:29 |
| S231 | 5,819 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:31 |
| S233 | 5,844 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:32 |
| S235 | 27 | S230 AND (plac$3 WITH VOIP same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 16:33 |
| S236 | 56 | (S230 S231 S233) AND (plac$3 WITH VOIP same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:19 |
| S237 | 48 | (S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular ) WITH VOIP same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:20 |
| S238 | 63 | (S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular ) SAME (voice adj2 over adj2 internet VOIP) same call$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 17:20 |
| S239 | 2 | (US-20040022237-$ or US-20080056235-$).did. | US-PGPUB | OR | OFF | 2015/11/09 17:34 |
| S240 | 28 | (S230 S231 S233) AND (plac$3 SAME (wireless mobile cellular ) SAME (voice adj2 over adj2 internet VOIP) same call$3 AND (SMS short adj2 messag$4 adj2 serv$4)) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | OFF | 2015/11/09 17:35 |

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| | | | DERWENT; IBM_TDB | | | |
| S241 | 4,816 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2015/11/09 19:23 |
| S242 | 5,819 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:23 |
| S243 | 5,844 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:23 |
| S244 | 976 | (S241 S242 S243) AND (SMS short adj2 messag$4 adj2 servic$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:23 |
| S245 | 397 | (S241 S242 S243) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:24 |
| S246 | 259 | (S241 S242 S243) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:25 |
| S247 | 29 | (S241 S242 S243) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:26 |
| S248 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:35 |

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| S249 | 1 | S248 and (receiv$$ SAME user SAME identifier SAME destination) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:36 |
| S250 | 1 | S248 and (receiv$$ SAME user SAME identifier) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/09 19:36 |
| S251 | 20 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:07 |
| S252 | 252,985 | ( (H04L29/06027 OR H04L29/06 OR H04L29/1216 OR H04L61/157 OR H04L65/1069 OR H04L12/4608 OR H04L12/66 OR H04L29/12122 OR H04L61/1547 OR H04L65/1026 OR H04L65/103 OR H04L65/1036 OR H04L65/104 OR H04L67/14 OR H04L69/329 OR H04L12/1813 OR H04L12/5695 OR H04L12/6418 OR H04L2012/5626 OR H04L2012/563 OR H04L2012/5645 OR H04L2012/5667 OR H04L2012/5668 OR H04L2012/6472 OR H04L29/12094 OR H04L29/12584 OR H04L29/12896 OR H04L29/12933 OR H04L47/724 OR H04L47/803 OR H04L47/805 OR H04L61/1529 OR H04L61/2015 OR H04L61/2596 OR H04L61/605 OR H04L61/6068 OR H04L63/061 OR H04L63/0823 OR H04L63/126 OR H04L63/164 OR H04L65/1003 OR H04L65/1006 OR H04L65/1009 OR H04L65/1013 OR H04L65/1043 OR H04L65/1046 OR H04L65/1083 OR H04L65/1096 OR H04L65/4007 OR H04L65/403 OR | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:25 |

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| | | H04L65/604 OR H04L65/605 OR H04L67/02 OR H04L67/04 OR H04L67/24 OR H04L67/34 OR H04L67/40 OR H04L69/08 OR H04M15/00 OR H04M7/006 OR H04M7/009 OR H04M11/066 OR H04M15/06 OR H04M15/08 OR H04M15/41 OR H04M15/43 OR H04M15/48 OR H04M15/56 OR H04M15/63 OR H04M15/68 OR H04M15/745 OR H04M15/8292 OR H04M1/2473 OR H04M1/2535 OR H04M2203/2022 OR H04M2203/4536 OR H04M2207/12 OR H04M2207/18 OR H04M2207/20 OR H04M2215/0108 OR H04M2215/0156 OR H04M2215/0164 OR H04M2215/0168 OR H04M2215/0196 OR H04M2215/202 OR H04M2215/62 OR H04M2215/68 OR H04M2242/14 OR H04M3/20 OR H04M3/42 OR H04M3/42008 OR H04M3/42042 OR H04M3/42068 OR H04M3/4228 OR H04M3/42314 OR H04M3/42348 OR H04M3/42365 OR H04M3/523 OR H04M3/53325 OR H04M3/545 OR H04M3/567 OR H04M7/00 OR H04M7/0021 OR H04M7/0057 OR H04M7/123 OR H04M7/1245 OR H04M7/125 OR H04M7/1255 OR H04M7/126 OR H04M7/128 OR H04M7/1285 OR H04Q3/0025 OR H04Q3/0045 OR H04Q11/0478 OR H04Q2213/13098 OR H04Q2213/1324 OR H04Q2213/13288 OR G06Q20/3674 OR H04H60/43 OR H04H60/51 OR H04H60/91 OR H04N21/2665 OR H04N21/4126 OR H04N21/42203 OR H04N21/6581 OR H04N21/6582 OR H04N7/17318 OR H04W28/16 OR H04W4/06 OR H04W4/10 OR H04W4/22 OR H04W60/04 OR H04W76/005 OR H04W76/007 OR H04W76/02 OR H04W76/021 OR H04W76/025 OR H04W80/00 OR H04W80/04 OR H04W84/005 OR H04W88/08 OR H04W8/02 OR H04W8/085 OR Y10S379/90).CPC. ) | | | | |
| S253 | 1 | "14035806" | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:26 |

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| S254 | 6,639 | ( (H04W76/021 OR H04W76/025 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/29 22:45 |
| S255 | 268,033 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/29 23:32 |
| S256 | 4,832 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2015/11/29 23:32 |
| S257 | 5,881 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:32 |
| S258 | 5,933 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:32 |
| S259 | 29 | (S256 S257 S258) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:32 |
| S260 | 265 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:33 |
| S261 | 95 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:33 |
| S262 | 25 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 adj2 servic$3) AND server SAME (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/29 23:33 |
| S263 | 4 | (S254 S255) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) SAME (SMS short adj2 messag$4 | US-PGPUB; USPAT; FPRS; EPO; | OR | OFF | 2015/11/29 23:34 |

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| | | adj2 servic$3) SAME server SAME (location adj2 ID location adj2 identif$5 )) | JPO; DERWENT; IBM_TDB | | | |
| S264 | 6,575 | (reply with mobile) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:57 |
| S265 | 2,208 | (reply with mobile same server) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:57 |
| S266 | 168 | (reply with mobile same server same sms) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:57 |
| S267 | 35 | (reply with mobile same server same sms same gateway) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2015/11/30 00:58 |
| S268 | 25 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 02:11 |
| S269 | 12 | S268 and SMS | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 02:11 |
| S270 | 12 | S268 and (SMS same server$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 02:12 |
| S271 | 1 | S268 and (SMS same server$3 same locat$4 NEAR5 (ID address identificat$4)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 02:12 |

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| S272 | 25 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 09:34 |
| S273 | 12 | S272 and (SMS same server$3) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:34 |
| S274 | 5 | S272 and (SMS same server$3 SAME (location GPS )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:38 |
| S275 | 5 | "20080101370" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:42 |
| S276 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US- | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 09:47 |

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| | | 6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S277 | 6 | S276 and (SMS SAME server SAME (location GPS)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 09:47 |
| S278 | 8 | S276 and (SMS SAME server SAME3 (location GPS)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 10:08 |
| S279 | 17 | S276 and ((ID identification key flag address ) SAME (location GPS)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:00 |
| S280 | 15 | S276 and ((ID identification key flag address ) SAME (location GPS) SAME server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:01 |
| S281 | 11 | S276 and ((transmit$4 send$4) SAME (ID identification key flag address ) SAME (location GPS) SAME server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:03 |
| S282 | 3 | S276 and ((transmit$4 send$4) SAME (ID identification key flag address ) WITH (location GPS) WITH server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 11:11 |
| S283 | 2 | (US-20080160953-$ or US-20080056235-$).did. | US-PGPUB | OR | OFF | 2015/11/30 12:07 |
| S284 | 2 | S283 and (SMS SAME server) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 12:07 |
| S285 | 2 | S283 and (location SAME channel) | US-PGPUB; USPAT; FPRS; EPO; | OR | OFF | 2015/11/30 12:25 |

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| | | | JPO; DERWENT; IBM_TDB | | | |
| S286 | 1 | "14035806" | US-PGPUB; USPAT; DERWENT | OR | OFF | 2015/11/30 12:59 |
| S287 | 0 | S283 and (poll) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:04 |
| S288 | 1 | S283 and (poll multiple) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:05 |
| S289 | 2 | S283 and (local and call) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:07 |
| S290 | 2 | S283 and (local SAME call) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:07 |
| S291 | 2 | S283 and (IP SAME address) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:09 |
| S292 | 0 | S283 and (time with out) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:20 |
| S293 | 0 | S283 and (expired) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:21 |

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| S294 | 1 | S283 and (expired out) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2015/11/30 14:21 |
| S295 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/02 22:35 |
| S296 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/02 22:36 |
| S297 | 0 | S296 and (destinat$$ adj2 (ID key flag identificat$4 ) and (location adj2 ID) and channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/02 22:37 |
| S298 | 0 | S296 and (destinat$$ SAME (ID key flag identificat$4 ) SAME (location adj2 ID) and channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/02 22:37 |
| S299 | 1 | S296 and (destinat$$ SAME (ID key flag identificat$4 ) SAME channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/02 22:38 |
| S300 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/03 18:45 |
| S301 | 1 | S300 and (destinat$$ SAME (ID key flag identificat$4 ) SAME channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; | OR | OFF | 2016/01/03 18:45 |

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| | | | DERWENT; IBM_TDB | | | |
| S302 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/06 12:00 |
| S303 | 2 | "13710282" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/06 17:24 |
| S304 | 1 | S303 and (similar SAME power$4 same sav$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/06 17:25 |
| S305 | 1 | S303 and (similar NEAR10 power$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/06 18:18 |
| S306 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/06 21:55 |
| S307 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US- | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/07 14:24 |

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|---|---|---|---|---|---|---|
| | | 20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S308 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/07 14:24 |
| S309 | 1 | "14035806" | US-PGPUB; USPAT | OR | OFF | 2016/01/07 15:02 |
| S310 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/07 15:03 |
| S311 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2016/01/07 15:03 |
| S312 | 1 | S310 and ( (channel$4 tunnel$4 frequenc$4) WITH (ID identificat$4 key flag) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:04 |
| S313 | 2 | S310 and ( (channel$4 tunnel$4 frequenc$4) SAME (ID identificat$4 key flag) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:04 |
| S314 | 1 | S310 and ( (channel$4 tunnel$4 frequenc$4) NEAR10 (ID identificat$4 key flag) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:35 |
| S315 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | OFF | 2016/01/07 15:35 |

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| S316 | 1 | S315 and (destinat$$ SAME (ID key flag identificat$4 ) SAME channel$4) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 15:35 |
| S317 | 2 | S315 and (channel ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 16:18 |
| S319 | 2 | S315 and (channel and location) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/01/07 18:15 |
| S320 | 5,569 | H04W8/02.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | OFF | 2016/10/17 13:25 |
| S321 | 8,486 | H04W76/025.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/10/17 13:25 |
| S322 | 8,300 | H04W76/021.cpc. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/10/17 13:25 |
| S323 | 46 | (S320 S321 S322) AND ( (VoIP vo$1IP voice adj2 over adj (IP internet)) AND (SMS short adj2 messag$4 adj2 servic$3) AND server and controller and (location adj2 ID location adj2 identif$5 )) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2016/10/17 13:25 |
| S324 | 8 | ((Pentti) near2 (Huttunen)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S325 | 4 | ((Emil) near2 (Malak)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S326 | 22 | ((bjorsell) near2 (johan)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S327 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:25 |

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|---|---|---|---|---|---|---|
| S328 | 10 | ((Maksym) near2 (Sobolyev)).INV. | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S329 | 29 | S324 S325 S326 S327 S328 | US-PGPUB; USPAT | OR | OFF | 2016/10/17 13:25 |
| S330 | 1 | S329 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:25 |
| S331 | 313,876 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S332 | 28 | S331 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5))) | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S333 | 268,664 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S334 | 1 | S333 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2016/10/17 13:26 |
| S335 | 506,306 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2016/10/17 13:26 |
| S336 | 12 | S335 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 network$5) and (indentifier ID indentification)) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2016/10/17 13:26 |
| S337 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | ON | 2016/10/17 13:55 |
| S338 | 2 | S337 and (database list table log) WITH (locat$4 GPS) | US-PGPUB | OR | ON | 2016/10/17 14:12 |
| S339 | 2 | S337 and (database list table log) WITH (locat$4 GPS) AND (IP internet adj2 protocol) | US-PGPUB | OR | ON | 2016/10/17 14:19 |
| S340 | 0 | S337 and (database list table log) WITH (locat$4 GPS) WITH (IP internet adj2 protocol) | US-PGPUB | OR | ON | 2016/10/17 14:19 |
| S341 | 2 | S337 and (database list table log) WITH (locat$4 GPS) SAME (IP internet adj2 protocol) | US-PGPUB | OR | ON | 2016/10/17 14:19 |

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|---|---|---|---|---|---|---|
| S342 | 2 | S337 and (database list table log) WITH (locat$4 GPS) SAME (IP internet adj2 protocol) and location | US-PGPUB | OR | ON | 2016/10/17 14:45 |
| S343 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | ON | 2016/11/15 14:32 |
| S344 | 26 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2016/11/15 15:00 |
| S345 | 6 | cn adj2 "102307082" | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | ON | 2016/11/15 15:52 |
| S346 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO | OR | ON | 2016/11/15 16:54 |
| S347 | 1 | (US-20080056235-$).did. | US-PGPUB | OR | ON | 2016/11/15 19:52 |
| S348 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | ON | 2016/11/15 19:53 |
| S349 | 2 | S348 AND (locat$5 GPS ) WITH ( ID key identification flag$4) | US-PGPUB | OR | ON | 2016/11/15 19:54 |
| S350 | 2 | S348 AND (locat$5 GPS ) WITH ( ID key identification flag$4) AND ( ID key identification flag$4) | US-PGPUB | OR | ON | 2016/11/15 19:55 |
| S351 | 2 | (US-20080056235-$ or US-20080160953-$).did. | US-PGPUB | OR | ON | 2016/11/15 20:58 |
| S352 | 2 | S351 AND (locat$5 GPS ) WITH ( ID key identification flag$4) AND ( ID key identification flag$4) | US-PGPUB | OR | ON | 2016/11/15 20:58 |
| S353 | 432 | ( (Access NEAR5 server ) AND ( location$4 GPS ) SAME (destinat$4 | US-PGPUB | OR | ON | 2016/11/15 21:57 |

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| | | NEAR5 ID ) ) AND (@AD <"201080728") | | | | |
| S354 | 752 | ( (Access NEAR5 server ) AND ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 21:58 |
| S355 | 402 | ( (Access NEAR5 server ) AND ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 21:58 |
| S356 | 11 | ( (Access NEAR5 server ) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 21:58 |
| S357 | 97 | (( request$4 NEAR5 (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 22:00 |
| S358 | 19 | (( request$4 NEAR5 (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) SAME (server) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 22:01 |
| S359 | 43 | (( request$4 SAME (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) SAME (server) SAME (channel$4 path$4 rout$4) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2016/11/15 22:42 |
| S360 | 29 | ((JOHAN) near2 (BJORSELL)).INV. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S361 | 14 | ((MAKSYM) near2 (SOBOLYEV)).INV. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S362 | 8 | ((PENTTI) near2 (HUTTUNEN)).INV. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S363 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S364 | 34 | S360 or S361 or S362 or S363 | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S365 | 313,893 | (370/310-338,395.$.ccls. "379".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |

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| S366 | 27 | S365 and ((caller 'calling party')same (callee 'called party') same access same code same request same call$4 same server same rout$5 same (channel or (ID identifier identificat$5))) | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S367 | 268,678 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S368 | 1 | S367 and ((access adj code) same (channel adj (identifier ID identification) same request)) | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:58 |
| S369 | 45 | (( request$4 SAME (messag$4 packet frame PDU data adj2 unit)) SAME ( location$4 GPS ) SAME (destinat$4 NEAR5 ID ) SAME (server) SAME (channel$4 path$4 rout$4) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 11:59 |
| S370 | 400,075 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S371 | 8 | S370 and ((access adj code) same (channel with (ID identification)) same request) | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S372 | 8 | ((Pentti) near2 (Huttunen)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S373 | 4 | ((Emil) near2 (Malak)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S374 | 29 | ((bjorsell) near2 (johan)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S375 | 21 | (digifonica).as. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S376 | 14 | ((Maksym) near2 (Sobolyev)).INV. | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S377 | 36 | S372 S373 S374 S375 S376 | US-PGPUB; USPAT | OR | OFF | 2017/08/21 11:59 |
| S378 | 1 | S377 and ((location$4 GPS ) AND (ID identificat$4)).clm. | US-PGPUB; USPAT | OR | ON | 2017/08/21 11:59 |
| S379 | 528,836 | ("370".clas. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/08/21 12:00 |
| S380 | 12 | S379 and ((initiat$4 adj2 call) same (access adj2 code) and (channel ID) and ((non$voice data) adj2 | US-PGPUB; USPAT; FPRS; EPO; | OR | ON | 2017/08/21 12:00 |

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|---|---|---|---|---|---|---|
| | | network$5) and (indentifier ID indentification)) | JPO; DERWENT; IBM_TDB | | | |
| S381 | 11 | ( (Access NEAR5 server ) SAME ( location$4 GPS ) WITH (destinat$4 NEAR5 ID ) ) AND (@AD <"201080728") | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 12:00 |
| S382 | 13 | ("20020150080" \| "20060195584" \| "20070121590" \| "20070121602" \| "20170104868" \| "20170111265" \| "20170126752" \| "20170142256" \| "576852106" \| "6947531" \| "7477843" \| "9537762" \| "9549071" \| "9565307").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S383 | 4 | ("20030043974" \| "20050069097" \| "6434143" \| "7774711").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S384 | 1 | ("7174156").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S385 | 24 | ("20020057764" \| "20050007999" \| "20060109960" \| "20060233317" \| "20070036139" \| "20070064919" \| "20090238168" \| "20100002701" \| "20150327320" \| "20150358470" \| "20160006882" \| "20160028619" \| "4747124" \| "5742596" \| "5991378" \| "6603977" \| "6961334" \| "7042985" \| "7218722" \| "7366157" \| "7486684" \| "8036366" \| "8594298" \| "9179005").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:07 |
| S386 | 24 | ("20020057764" \| "20050007999" \| "20060109960" \| "20060233317" \| "20070036139" \| "20070064919" \| "20090238168" \| "20100002701" \| "20150327320" \| "20150358470" \| "20160006882" \| "20160028619" \| "4747124" \| "5742596" \| "5991378" \| "6603977" \| "6961334" \| "7042985" \| "7218722" \| "7366157" \| "7486684" \| "8036366" \| "8594298" \| "9179005").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:08 |
| S387 | 43 | ("20050131813" \| "20050171898" \| "20050192897" \| "20050192901" \| "20050222952" \| "20050267842" \| "20060006224" \| "20060036522" \| "20060095320" \| "20060116892" \| "20060195398" \| "20070016524" \| "20140141884" \| "5677955" \| "5883810" \| "6173272" \| "6243689" \| "6636833" \| "6772188" \| "6892184" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:08 |

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|---|---|---|---|---|---|---|
| | | "7051072" \| "7330835" \| "7426492" \| "7437665" \| "7447707" \| "7580886" \| "7593884" \| "7599944" \| "7644037" \| "7647500" \| "7676431" \| "7680737" \| "7734544" \| "7765261" \| "7765266" \| "7882011" \| "7899742" \| "8060887" \| "8161078" \| "8200575" \| "8543477" \| "8627211" \| "8702505").PN. | | | | |
| S388 | 71 | ("20070053382" \| "20090213839" \| "20100083364" \| "20100114896" \| "20100115018" \| "20100142382" \| "20100220852" \| "20100233991" \| "20100278534" \| "20100316195" \| "20110072095" \| "20110167164" \| "20110208859" \| "20110235543" \| "20110273526" \| "20110276903" \| "20110276904" \| "20110292929" \| "20120089717" \| "20120096145" \| "20120155333" \| "20120195236" \| "20120259975" \| "20120270554" \| "20130039226" \| "20130097308" \| "20130128879" \| "20130148549" \| "20130173534" \| "20130229950" \| "20130287006" \| "20130310002" \| "20130318166" \| "20130329722" \| "20130329864" \| "20140010119" \| "20140016764" \| "20140153477" \| "20140215642" \| "20140307858" \| "20140321333" \| "6327351" \| "7203478" \| "7958233" \| "8078164" \| "8127005" \| "8166547" \| "8190739" \| "8223927" \| "8300632" \| "8315521" \| "8396445" \| "8526306" \| "8599747" \| "8599837" \| "8634838" \| "8774378" \| "8819566" \| "8848887" \| "8862701" \| "8885609" \| "8903051" \| "8903360" \| "8909556" \| "8938209" \| "8938534" \| "8948061" \| "8972612" \| "8982719" \| "8995428" \| "9003306").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |
| S389 | 6 | ("20070217354" \| "5917899" \| "6005870" \| "6597783" \| "6873599" \| "7010727").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |
| S390 | 54 | ("0000029" \| "0000030" \| "0000031" \| "0000032" \| "0000033" \| "0000034" \| "0000035" \| "0000036" \| "0000037" \| "0000038" \| "0000039" \| "0000040" \| "0000041" \| "20010027478" \| "20110255553" \| "20110261717" \| "20130223276" \| "20130237198" \| "20130254301" \| "20130272297" \| "20130281147" \| "20140220944" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |

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|---|---|---|---|---|---|---|
| | | "20140227962" \| "20140244393" \| "20140247730" \| "20140269624" \| "20140324969" \| "20140337961" \| "20140349602" \| "6937713" \| "8111690" \| "8219115" \| "8228837" \| "8243730" \| "8275404" \| "8364172" \| "8410907" \| "8417791" \| "8423791" \| "8468196" \| "8493931" \| "8532075" \| "8682919" \| "8713098" \| "8749610" \| "8767717" \| "8774721" \| "8780703" \| "8792374" \| "8792905" \| "8805345" \| "8810392" \| "8837360" \| "8838539").PN. | | | | |
| S391 | 7 | ("6445694" \| "6574328" \| "6785266" \| "7486664" \| "7512117" \| "7587036" \| "7764777").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:09 |
| S392 | 141 | ("20010052081" \| "20020002041" \| "20020018445" \| "20020141352" \| "20030012196" \| "20030095539" \| "20030179747" \| "20030219103" \| "20040034793" \| "20040203565" \| "20040203582" \| "20050063519" \| "20050188081" \| "20050190892" \| "20050202799" \| "20050287979" \| "20060007940" \| "20060013266" \| "20060030290" \| "20060078094" \| "20060142011" \| "20060146797" \| "20060189303" \| "20060205383" \| "20060248186" \| "20060251056" \| "20060268921" \| "20060281437" \| "20070047548" \| "20070092070" \| "20070115935" \| "20070121593" \| "20070174469" \| "20070220038" \| "20070253429" \| "20070263609" \| "20070297376" \| "20080013523" \| "20080056243" \| "20080166999" \| "20080167019" \| "20080167020" \| "20080167039" \| "20080187122" \| "20080188198" \| "20080188227" \| "20080205378" \| "20080310599" \| "20090003535" \| "20090129566" \| "20090135724" \| "20090214000" \| "20090268615" \| "20090296900" \| "20100008345" \| "20100039946" \| "20100105379" \| "20100177671" \| "20100246589" \| "20100272242" \| "20110013541" \| "20110153809" \| "20110176541" \| "20110201321" \| "20110267986" \| "20120014383" \| "20120113981" \| "20120195415" \| "20120250624" \| "20120282881" \| "20120314699" \| "20130272297" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:10 |

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|---|---|---|---|---|---|---|
| | | "20140101749" \| "20140211789" \| "5325421" \| "6553025" \| "6560224" \| "6650641" \| "6775534" \| "6934279" \| "6963739" \| "6985440" \| "6993015" \| "7006508" \| "7027564" \| "7068668" \| "7151772" \| "7177399" \| "7277528" \| "7400881" \| "7436835" \| "7440442" \| "7486667" \| "7567131" \| "7573982" \| "7593390" \| "7639792" \| "7657011" \| "7664495" \| "7676215" \| "7680114" \| "7702308" \| "7715821" \| "7738384" \| "7764944" \| "7797459" \| "7894441" \| "7907551" \| "7929955" \| "7944909" \| "7965645" \| "7979529" \| "7995589" \| "8024785" \| "8027333" \| "8041022" \| "8050273" \| "8125982" \| "8145182" \| "8166533" \| "8189568" \| "8204044" \| "8228897" \| "8244204" \| "8306063" \| "8363647" \| "8427981" \| "8437340" \| "8462915" \| "8509225" \| "8605714" \| "8605869" \| "8607323" \| "8611354" \| "8625578" \| "8724643" \| "8750290" \| "8763081" \| "8768951" \| "8774171" \| "8804705").PN. | | | | |
| S393 | 14 | ("20050198499" \| "20100150138" \| "20100150328" \| "20100172345" \| "20110122827" \| "20120170574" \| "5719926" \| "5722067" \| "5915093" \| "6029062" \| "6249573" \| "7454200" \| "8630234" \| "8675566").PN. | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:10 |
| S394 | 137 | ("20020051518" \| "20020116464" \| "20020122391" \| "20030200311" \| "20030219103" \| "20040022237" \| "20040157629" \| "20040165709" \| "20040181599" \| "20040202295" \| "20040240439" \| "20040255126" \| "20050025043" \| "20050083911" \| "20050094651" \| "20050169248" \| "20050174937" \| "20050177843" \| "20060072547" \| "20060072550" \| "20060093135" \| "20060111116" \| "20060153342" \| "20060160565" \| "20060177035" \| "20060209768" \| "20060258328" \| "20060264200" \| "20070036143" \| "20070112964" \| "20070127676" \| "20070253418" \| "20080037715" \| "20080056235" \| "20080056302" \| "20080063153" \| "20090028146" \| "20090135735" \| "20090141883" \| "20090292539" \| "20090325558" \| "20100086119" \| "20100128729" \| "20120099599" \| | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:11 |

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|---|---|---|---|---|---|---|
| | | "20120227101" \| "20130114589" \| "4916491" \| "4992971" \| "5146491" \| "5247571" \| "5303297" \| "5359642" \| "5425085" \| "5440621" \| "5454030" \| "5469497" \| "5506893" \| "5519769" \| "5559871" \| "5590133" \| "5608786" \| "5621787" \| "5633913" \| "5661790" \| "5712907" \| "5724355" \| "5726984" \| "5737414" \| "5751961" \| "5793762" \| "5799072" \| "5802502" \| "5825863" \| "5828740" \| "5838682" \| "5845267" \| "5850433" \| "5864610" \| "5867495" \| "5883891" \| "5889774" \| "5905736" \| "5907547" \| "5910946" \| "5915005" \| "5923659" \| "5930343" \| "5937045" \| "5940598" \| "5953504" \| "5956391" \| "5970477" \| "5974043" \| "5991291" \| "6005926" \| "6014379" \| "6021126" \| "6052445" \| "6058300" \| "6069890" \| "6073013" \| "6078647" \| "6104704" \| "6104711" \| "6115737" \| "6128304" \| "6137869" \| "6141404" \| "6151385" \| "6188752" \| "6282574" \| "6298062" \| "6351464" \| "6359880" \| "6430275" \| "6507644" \| "6597686" \| "6674745" \| "6724860" \| "6744858" \| "6766159" \| "6798767" \| "6819929" \| "6954453" \| "6963557" \| "7046658" \| "7055174" \| "7068772" \| "7079526" \| "7120682" \| "7212522" \| "7454510" \| "7950046" \| "8116307" \| "8422507" \| "8537805" \| "8542815").PN. | | | | |
| S395 | 513 | S382 S383 S384 S385 S386 S387 S388 S389 S390 S391 S392 S393 S394 | US-PGPUB; USPAT | OR | ON | 2017/08/21 13:11 |
| S396 | 21 | S395 AND ((receiv$3 or accept$3 or obtain$3 or recover$3 or retriev$3 or acquir$3 or acquisition) SAME (respons$3 or respond$3 or react$3 or feed$3back$3 or (feed$3 adj3 back) or behaviour or behavior reply$3 return$3 acknowledgment$1 answer$1) SAME (server$4 webserver$4 gate$1way system$4 proxy$4 computer) SAME (location$4 GPS position$4 origin$4 region$4 site coordinat$4 ) NEAR5 (ID identification key flag$4 tagg$4 badge$4 ) ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/08/21 13:45 |
| S397 | 12 | S395 AND ((receiv$3 or accept$3 or obtain$3 or recover$3 or retriev$3 or | US-PGPUB; USPAT; | OR | ON | 2017/08/21 13:45 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | acquir$3 or acquisition) SAME (respons$3 or respond$3 or react$3 or feed$3back$3 or (feed$3 adj3 back) or behaviour or behavior reply$3 return$3 acknowledgment$1 answer$1) SAME (server$4 webserver$4 gate$1way system$4 proxy$4 computer) SAME (location$4 GPS position$4 origin$4 region$4 site coordinat$4 ) NEAR5 (ID identification key flag$4 tagg$4 badge$4 ) ) AND (@AD <"20080728") | FPRS; EPO; JPO; IBM_TDB | | | |
| S398 | 2 | (US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/08/21 14:47 |
| S399 | 2 | S398 and (wifi wi$1fi wireless cellular ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/08/21 14:47 |
| S401 | 11 | "9179005" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/11/29 23:45 |
| S402 | 2 | (US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 01:18 |
| S403 | 3 | (US-20080056235-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 01:19 |
| S404 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/11/30 01:40 |
| S405 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2017/11/30 13:29 |
| S406 | 3 | (US-20080056235-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 14:49 |
| S407 | 1 | S406 and (connect$4 join$4 link$4 fasten$4 connector$4 hitch$4 ) AND | US-PGPUB; USPAT; | OR | ON | 2017/11/30 14:58 |

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|---|---|---|---|---|---|---|
| | | (IP internet$4 adj2 protocol$4) NEAR5 address$4 | FPRS; EPO; JPO; IBM_TDB | | | |
| S408 | 1 | S406 and (connect$4 join$4 link$4 fasten$4 connector$4 hitch$4 ) AND (IP internet$4 adj2 protocol$4) WITH address$4 | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/11/30 14:59 |
| S409 | 3 | (US-20080056235-$ or US-20090017842-$ or US-20060109960-$).did. | US-PGPUB | OR | ON | 2017/11/30 16:04 |
| S410 | 3 | S409 and (connect$4 join$4 link$4 fasten$4 connector$4 hitch$4 ) WITH (mobile user adj2 equipment UE mobile adj2 device ) | US-PGPUB; USPAT; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2017/11/30 16:04 |
| S411 | 1 | (US-20080056235-$).did. | US-PGPUB | OR | ON | 2018/01/16 14:53 |
| S412 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211-$ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/01/16 14:53 |
| S413 | 0 | S411 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 ) WITH (IP NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 14:54 |
| S414 | 0 | S411 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 return$4 answer$4 ) WITH ( (internet IP) NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 14:56 |

| | | | | | | |
|---|---|---|---|---|---|---|
| S415 | 1 | S411 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 return$4 answer$4 ) SAME ( (internet IP) NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 14:56 |
| S416 | 11 | S412 and ( reply echo packet$4 frame$4 (data adj2 unit ) ack acknowlegment$4 feeback$4 feed$1back$4 feed adj2 back$4 return$4 answer$4 ) SAME ( (internet IP) NEAR10 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:33 |
| S417 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:40 |
| S418 | 29,261 | ( (H04W76/021 OR H04W76/025 OR H04W8/02).CPC. ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:52 |
| S419 | 56 | S418 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:55 |
| S420 | 9 | S418 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND (@AD <"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:56 |
| S421 | 15 | S418 AND (IP NEAR5 address) WITH (location$4 gps$4 geographical$4 ) NEAR5 (ID identification$4 key$4 flag$4 ) AND ( (@ad OR @pd OR @rlad OR @ prad OR @ptad )<"20090728") | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/16 15:56 |
| S422 | 29 | (US-20070281705-$ or US-20090252159-$ or US-20040042607-$ or US-20070121590-$ or US-20040022237-$ or US-20030114139-$ or US-20030095542-$ or US-20030114145-$ or US-20070112964-$ or US-20060189337-$ or US-20080056235-$ or US-20040205211- | US-PGPUB; USPAT; DERWENT | OR | ON | 2018/01/24 19:29 |

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|---|---|---|---|---|---|---|
| | | $ or US-20020122391-$ or US-20080160953-$ or US-20100004005-$ or US-20090265552-$ or US-20080125146-$ or US-20070156909-$ or US-20080101370-$ or US-20140016635-$ or US-20090017842-$ or US-20060109960-$).did. or (US-7068684-$ or US-6963635-$ or US-7079526-$ or US-6016319-$ or US-6674745-$ or US-5454030-$).did. or (WO-2010012090-$).did. | | | | |
| S423 | 0 | S422 and (replay$4 echo adj2 back$4 ) WITH(ip near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:30 |
| S424 | 0 | S422 and (replay$4 echo adj2 back$4 ) WITH (ip near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:30 |
| S425 | 14 | S422 and (ip near5 address$4 ) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:30 |
| S426 | 5 | S422 and (ip near5 address$4 ) and (SMS) | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/24 19:39 |
| S427 | 5 | "13056277" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/01/25 13:28 |
| S428 | 1 | "14035806" | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2018/06/27 22:33 |
| S429 | 268,665 | (370/310-338,395.$.ccls. "709".clas. "455".clas.) and (@ad <"20080728" @rlad <"20080728") | US-PGPUB; USPAT | OR | ON | 2018/06/27 22:34 |