# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7931763

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

### **CONVEYING PARTY DATA**

| Name                                   | Execution Date |
|--|----------------|
| CONVERSANT WIRELESS LICENSING S.A R.L. | 11/30/2022     |

## **RECEIVING PARTY DATA**

| Name:             | CONVERSANT WIRELESS LICENSING LTD. |
|-------------------|------------------------------------|
| Street Address:   | 5830 GRANITE PARKWAY #100-247      |
| Internal Address: | SUITE 247                          |
| City:             | PLANO                              |
| State/Country:    | TEXAS                              |
| Postal Code:      | 75024                              |

### **PROPERTY NUMBERS Total: 25**

| Property Type  | Number   |
|----------------|----------|
| Patent Number: | 10637661 |
| Patent Number: | 11153081 |
| Patent Number: | 8136044  |
| Patent Number: | 8219876  |
| Patent Number: | 8081610  |
| Patent Number: | 8285266  |
| Patent Number: | 10659830 |
| Patent Number: | 10506252 |
| Patent Number: | 9118399  |
| Patent Number: | 9451265  |
| Patent Number: | 8396082  |
| Patent Number: | 9491739  |
| Patent Number: | 8085714  |
| Patent Number: | 9417934  |
| Patent Number: | 9112985  |
| Patent Number: | 8116386  |
| Patent Number: | 8363735  |
| Patent Number: | 9204388  |
| Patent Number: | 8370755  |
|                |          |

PATENT REEL: 063507 FRAME: 0900

507884635

| Property Type  | Number   |
|----------------|----------|
| Patent Number: | 8611934  |
| Patent Number: | 9078114  |
| Patent Number: | 8135745  |
| Patent Number: | 10609136 |
| Patent Number: | 9335965  |
| Patent Number: | 8799259  |

### **CORRESPONDENCE DATA**

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| NAME OF SUBMITTER: | JULIE MCLEOD   |
|--------------------|----------------|
| SIGNATURE:         | /Julie McLeod/ |
| DATE SIGNED:       | 05/02/2023     |

### **Total Attachments: 15**

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PATENT REEL: 063507 FRAME: 0901

#### PATENT ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, Conversant Wireless Licensing S.à r.l., having a place of business at 12, rue Jean Engling, L-1466 Luxembourg ("Assignor"), does hereby sell, assign, transfer, and convey unto Conversant Wireless Licensing Ltd, having a place of business at 5830 Granite Parkway #100-247, Suite 247, Plano, Texas 75024 USA ("Assignee"), or its designees, all right, title, and interest that exist today and may exist in the future in and to any and all of the patents and applications listed in Exhibit 1, as well as the right to claim priority based on the applications, the same to be held and enjoyed by Assignee to the full end of the term for which said patents are granted, as fully and entirely as the same could have been held and enjoyed by Assignor if this assignment and sale had not been made, together with all rights of actions for past infringement thereof including the right to recover damages for said infringement subject to pre-existing rights of others.

| IN TESTIMONY WHEREOF, Assignor has on this 3.2 day of November 2022.   | aused this as             | ssignment to be                      | signed by its du | ly authorized | office |
|--|---------------------------|--------------------------------------|------------------|---------------|--------|
| ASSIGNOR:  |                           |                                      |                  |               |        |
| Conversant Wireless Licensing S.à r.l.   |                           |                                      |                  |               |        |
| Br.M.  |                           |                                      |                  |               |        |
| Boris Teksler, Manager   |                           |                                      |                  |               |        |
| county of Sauta Clara  |                           |                                      |                  |               |        |
| County of Santa Clara  City of Palo Alto   |                           |                                      |                  |               |        |
| On this day of November 2022, be<br>sworn, did depose and say that he is the<br>that such Assignment was signed on beh<br>to be the free and authorized act and de | Manager of alf of Assigno | Assignor as nam<br>or, and such pers | ed in the Assign | ment above a  | nd     |
| Notary Public  | ·-                        |                                      |                  |               |        |
| My commission expires:   | phase 8                   | see attached                         | on notary        | page          |        |

**PATENT** REEL: 063507 FRAME: 0902 A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document. State of California County of Santa Clara \_\_\_\_\_before me, \_\_\_\_\_\_DIANADIMAHW, NOTARY PUBLIC

Here Insert Name and Title of the Officer Boris Teksler personally appeared \_\_\_\_ Name(s) of Signer(s) who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(les), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the DIANA DIMATTEO laws of the State of California that the foregoing Notary Public - California paragraph is true and correct. Santa Clara County Commission # 2409659 My Comm. Expires Jul 2, 2026 WITNESS my hand and official seal. Signature | Signature of Notary Public Place Notary Seal and/or Stamp Above OPTIONAL -Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document. **Description of Attached Document** Title or Type of Document: \_\_\_\_\_Pakut RSSIGMMUNT-\_\_\_\_\_Number of Pages: \_\_\_ Document Date: Signer(s) Other Than Named Above: \_\_\_\_ Capacity(ies) Claimed by Signer(s) Signer's Name: \_\_\_\_\_ Signer's Name: ☐ Corporate Officer - Title(s): \_\_\_ ☐ Corporate Officer - Title(s): ☐ Partner - ☐ Limited ☐ General ☐ Partner — ☐ Limited ☐ General ✓ Attorney In Fact □ Individual ☐ Individual ☐ Attorney in Fact □ Trustee ☐ Guardian of Conservator ☐ Trustee ☐ Guardian of Conservator □ Other: ☐ Other: \_ Signer is Representing: \_ Signer is Représenting:

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## EXHIBIT 1

# CONVERSANT PORTFOLIO

PATENT REEL: 063507 FRAME: 0904

| Title   | Country ID | Serial #       | Filed Date | Patent #           | Issue Date |
|---|------------|----------------|------------|--------------------|------------|
| PARTITIONING OF A COMMUNICATIONS NETWORK  | US         | 10/296,808     | 4/26/2001  | 7,257,627          | 8/14/2007  |
| SYSTEM AND METHOD FOR PROVIDING A CONNECTION IN A COMMUNICATION NETWORK   | US         | 10/296,050     | 1/19/2001  | 7,782,818          | 8/24/2010  |
| SETTING MODE OF COMMUNICATION   | US         | 10/268,073     | 10/10/2002 | 7,181,202          | 2/20/2007  |
| METHOD AND APPARATUS PROVIDING DECENTRALIZED, GOAL-ORIENTATED ADAPTIVE LEARNING IN AN ADAPTIVE ORTHOGONAL FREQUENCY DIVISION MULTIPLEX COMMUNICATION SYSTEM | US         | 10/732,066     | 12/10/2003 | 7,016,297          | 3/21/2006  |
| ADAPTIVE METHOD AND ARRANGEMENT FOR IMPLEMENTING INCREMENTAL REDUNDANCY IN RECEPTION  | US         | 09/790,468     | 2/22/2001  | 6,980,591          | 12/27/2005 |
| METHOD AND SYSTEM FOR ALLOCATING CONVOLUTIONAL ENCODED BITS INTO SYMBOLS BEFORE MODULATION FOR WIRELESS COMMUNICATION                                       | US         | 10/040,885     | 1/2/2002   | 6,981,202          | 12/27/2005 |
| RLC/MAC PROTOCOL  | US         | 10/476,704     | 12/9/2003  | 8,005,040          | 8/23/2011  |
| GRAPHICAL USER INTERFACE FOR A MOBILE DEVICE  | US         | 10/081,964     | 2/20/2002  | 7,007,242          | 2/28/2006  |
| MOBILE TERMINAL DEVICE HAVING CAMERA SYSTEM   | US         | 09/987,849     | 11/16/2001 | 8,049,816          | 11/1/2011  |
| IMPROVING CELL CHANGE PROCEDURE IN GPRS, EGPRS, GERAN,  | DE         | 60209316.3     | 12/4/2002  | 1318691            | 2/22/2006  |
| METHOD AND APPARATUS FOR IMPROVING A<br>MOBILE STATION CELL CHANGE OPERATION IN<br>THE GENERAL PACKET RADIO SYSTEM (GPRS)                                   | US         | 10/004,723     | 12/5/2001  | 7,447,181          | 11/4/2008  |
| METHOD AND APPARATUS FOR IMPROVING A MOBILE STATION CELL CHANGE OPERATION IN THE GENERAL PACKET RADIO SYSTEM (GPRS)   | US         | 12/290,844     | 11/3/2008  | 8,259,689          | 9/4/2012   |
| METHOD, SYSTEM AND DEVICES FOR TRANSFERRING ACCOUNTING INFORMATION  | US         | 10/601,337     | 6/20/2002  | 7,251,733          | 7/31/2007  |
| SELECTING DATA FOR SYNCHRONIZATION AND FOR SOFTWARE CONFIGURATION   | US         | 10/309,570     | 12/4/2002  | 7,320,011          | 1/15/2008  |
| REGION-OF-INTEREST TRACKING METHOD AND DEVICE FOR WAVELET-BASED VIDEO CODING  | US         | 10/293,976     | 11/12/2002 | 6,757,434          | 6/29/2004  |
| PRIORITIZING LLC PDUS IN RLC/MAC  | CN         | 200310119873.6 | 10/20/2003 | 20031011987<br>3.6 | 10/13/2010 |
| PRIORITIZING LLC PDUS IN RLC/MAC  | DE         | 60317992.4     | 10/17/2003 | 1411690            | 12/12/2007 |
| METHOD AND DEVICE FOR TRANSFERRING DATA OVER GPRS NETWORK   | US         | 10/687,209     | 10/16/2003 | 7,529,271          | 5/5/2009   |
| CHANGE OF FREQUENCY RANGE IN A COMMUNICATIONS SYSTEM  | US         | 10/168,601     | 12/15/2000 | 7,315,525          | 1/1/2008   |
| USER INTERFACE  | US         | 11/055,774     | 2/10/2005  | 7,253,802          | 8/7/2007   |
| APPARATUS, AND ASSOCIATED METHOD, FOR COMMUNICATING FRAME-FORMATTED DATA AT A SELECTED QOS LEVEL IN A RADIO COMMUNICATION SYSTEM                            | US         | 10/308,921     | 12/3/2002  | 7,272,113          | 9/18/2007  |
| SYSTEMS AND METHODS FOR<br>CHARACTERIZING TELEVISION PREFERENCES<br>OVER A WIRELESS NETWORK   | US         | 09/612,870     | 7/10/2000  | 6,918,131          | 7/12/2005  |
| METHOD AND ARRANGEMENT FOR ENTERING<br>DATA IN AN ELECTRONIC APPARATUS AND AN<br>ELECTRONIC APPARATUS   | US         | 09/892,000     | 6/26/2001  | 6,956,506          | 10/18/2005 |
| FILTERING OF ELECTRONIC INFORMATION TO BE TRANSFERRED TO A TERMINAL   | US         | 09/727,560     | 12/1/2000  | 6,947,396          | 9/20/2005  |
| OPTIMIZED SLEEP MODE OPERATION  | US         | 09/759,776     | 1/12/2001  | 7,035,234          | 4/25/2006  |

Page 1 **PATENT REEL: 063507 FRAME: 0905** 

| Title   | Country ID | Serial #       | Filed Date             | Patent #  | Issue Date            |
|---|------------|----------------|------------------------|-----------|-----------------------|
| ALLOCATING DATA TRANSMISSION                            | US         | 09/888,884     | 6/25/2001              | 7,460,475 | 12/2/2008             |
| RESOURCES IN PACKET-SWITCHED DATA                       | "          | 03/000,004     | 0/23/2001              | 7,400,473 | 12/2/2000             |
| TRANSMISSION  |            |                |                        |           |                       |
| METHOD AND APPARATUS FOR COMMON                         | US         | 09/790,485     | 2/22/2001              | 7,079,507 | 7/18/2006             |
| PACKET CHANNEL ASSIGNMENT                               |            |                |                        | .,,       |                       |
| DATA PACKET NUMBERING IN PACKET-                        | US         | 09/827,185     | 4/5/2001               | 6,930,980 | 8/16/2005             |
| SWITCHED DATA TRANSMISSION                              |            |                |                        | .,,       |                       |
| TRANSMISSION OF THE FIXED SIZE PDUS                     | US         | 09/821,788     | 3/29/2001              | 6,950,420 | 9/27/2005             |
| THROUGH THE TRANSPARENT RLC                             |            | ,              |                        |           |                       |
| SYSTEM AND METHOD FOR TRANSMITTING                      | US         | 10/683,352     | 10/14/2003             | 7,460,472 | 12/2/2008             |
| INFORMATION IN A COMMUNICATION                          |            |                |                        |           |                       |
| NETWORK   |            |                |                        |           |                       |
| DATA PROCESSING METHOD                                  | US         | 10/010,429     | 12/3/2001              | 7,269,226 | 9/11/2007             |
| RELOCATING CONTEXT INFORMATION IN                       | US         | 12/265,905     | 11/6/2008              | RE46,125  | 10/30/2007            |
| HEADER COMPRESSION                                      |            |                |                        |           |                       |
| RELOCATING CONTEXT INFORMATION IN                       | US         | 15/208,233     | 7/12/2016              | RE47,719  | 10/30/2007            |
| HEADER COMPRESSION                                      |            |                |                        |           |                       |
| MULTIMEDIA MESSAGING METHOD AND                         | US         | 10/149,639     | 2/8/2002               | 8,150,989 | 4/3/2012              |
| SYSTEM  |            |                |                        |           |                       |
| TRANSMISSION OF COMPRESSION IDENTIFIER                  | US         | 10/179,789     | 6/24/2002              | 7,301,947 | 11/27/2007            |
| OF HEADERS ON DATA PACKET CONNECTION                    |            |                |                        |           |                       |
| LOCATION INFORMATION SERVICE FOR A                      | US         | 10/029,940     | 12/31/2001             | 7,072,667 | 7/4/2006              |
| CELLULAR TELECOMMUNICATIONS NETWORK                     |            |                |                        |           |                       |
| MULTI COLOURS DEVICE ILLUMINATION                       | US         | 11/631,205     | 6/28/2005              | 8,167,458 | 5/1/2012              |
| APPARATUS, AND ASSOCIATED METHOD, FOR                   | US         | 11/032,506     | 1/10/2005              | 7,418,259 | 8/26/2008             |
| DEMONSTRATING AN OPERATIONAL                            |            |                |                        |           |                       |
| CAPABILITY OF A RADIO DEVICE                            | 110        | 44/440.054     | 4 (0 (004 4            | 0.440.000 | 0/45/0040             |
| SYSTEM, METHOD AND COMPUTER PROGRAM                     | US         | 14/149,854     | 1/8/2014               | 9,419,926 | 8/15/2016             |
| PRODUCT FOR THE DELIVERY OF MEDIA                       |            |                |                        |           |                       |
| FAST DIGITAL IMAGE DITHERING METHOD                     | US         | 10/104,963     | 3/21/2002              | 7,038,814 | 5/2/2006              |
| THAT MAINTAINS A SUBSTANTIALLY                          | 03         | 10/104,903     | 3/21/2002              | 7,030,014 | 3/2/2006              |
| CONSTANT VALUE OF LUMINANCE                             |            |                |                        |           |                       |
| TRANSFER OF PACKET DATA TO WIRELESS                     | DE         | 60342177.6     | 4/8/2003               | 1493252   | 9/26/2012             |
| TERMINAL  | ""         | 000+2177.0     | 4/0/2000               | 1400202   | 0/20/2012             |
| USING APPLICATION LEVEL SIGNALLING                      | MX         | 2004/009736    | 4/8/2003               | 263361    | 12/19/2008            |
| INFORMATION IN PACKET FILTERING IN                      | ""         | 200 11000 100  |                        | 2000.     | 12/10/2000            |
| GATEWAY NODE  |            |                |                        |           |                       |
| TRANSFER OF PACKET DATA TO WIRELESS                     | US         | 10/957,777     | 10/4/2004              | 7,643,456 | 1/5/2010              |
| TERMINAL  |            | ,              |                        |           |                       |
| SYSTEM AND METHOD FOR IMPROVED UPLINK                   | MX         | PA/A/05/008613 | 2/12/2004              | 264583    | 2/16/2009             |
| SIGNAL DETECTION AND REDUCED UPLINK                     |            |                |                        |           |                       |
| SIGNAL POWER  |            |                |                        |           |                       |
| SYSTEM AND METHOD FOR IMPROVED UPLINK                   | US         | 10/776,170     | 2/12/2004              | 7,069,038 | 6/27/2006             |
| SIGNAL DETECTION AND REDUCED UPLINK                     |            |                |                        |           |                       |
| SIGNAL POWER  |            |                |                        |           |                       |
| COOKIES OR LIBERTY ENABLER FOR                          | US         | 10/412,622     | 4/11/2003              | 7,164,685 | 1/16/2007             |
| PROCESSING ALL CONNECTIONS BETWEEN                      |            |                |                        |           |                       |
| USER/AGENT AND ORIGIN SERVER IN A                       |            |                |                        |           |                       |
| WIRELESS NETWORK FOR ENABLING COOKIES                   |            |                |                        |           |                       |
| OR LIBERTY SUPPORT SERVICES FOR                         |            |                |                        |           |                       |
| USERS/AGENTS  |            |                |                        |           |                       |
| METHOD AND APPARATUS TO REPRESENT                       | US         | 10/456,944     | 6/6/2003               | 9,553,879 | 1/24/2017             |
| AND USE RIGHTS FOR CONTENT/MEDIA                        |            |                |                        |           |                       |
| ADAPTATION/TRANSFORMATION                               |            | 40/004 505     | 40/7/0000              | 7.050.700 | 4/0/0000              |
| METHOD AND APPARATUS FOR PROVIDING                      | US         | 10/681,585     | 10/7/2003              | 7,356,769 | 4/8/2008              |
| INPUTS TO A COMMUNICATION OR COMPUTING                  |            |                |                        |           |                       |
| DEVICE  | 116        | 10/604 067     | 10/0/2002              | 6.047.245 | 7/10/2005             |
| MODEL BASED CODE COMPRESSION SYSTEM AND METHOD FOR USER | US<br>US   | 10/684,267     | 10/9/2003<br>6/27/2003 | 6,917,315 | 7/12/2005<br>2/9/2010 |
|   | "          | 10/607,618     | 0/2//2003              | 7,660,864 | 2/ <del>3</del> /2010 |
| METHOD AND SYSTEM FOR PRODUCING A                       | US         | 10/871,445     | 6/18/2004              | 7,376,899 | 5/20/2008             |
| GRAPHICAL PASSWORD, AND A TERMINAL                      | "          | 10/07 1,443    | 0/10/2004              | 1,510,000 | 3/20/2000             |
| DEVICE  |            |                |                        |           |                       |
| D_ 110L   | I          |                |                        |           |                       |

Page 2 **PATENT REEL: 063507 FRAME: 0906** 

| METHOD AND A DEVICE FOR TRANSFERRING SIGNALLING INFORMATION IN A TDMA BASED SYSTEM         US         11/578,731         4/19/2004         8,014,365         9/6/2011           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         DE         602005050969.0         9/27/2005         1795039         12/21/2016           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         DE         16195373.2         9/27/2005         60200505620         8/28/2019           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         DE         602005057190.6         9/27/2005         3582550         4/7/2021           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         FR         05804706.9         9/27/2005         1795039         12/21/2016           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         FR         16195373.2         9/27/2005         3145245         8/28/2019           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)         GB         05804706.9         9/27/2005         1795039         12/21/2016  | Title                                   | Country ID                                   | Serial #        | Filed Date  | Patent #                                       | Issue Date |
|--|---|--|-----------------|-------------|--|------------|
| EMHANCED RADIO LINK CONTROL  ACKNOWLEDGMENT  DETECTION OF END OF UTTERANCE IN  SPECH RECOGNITION SYSTEM  SYSTEM AND METHOD FOR PROVIDING  SELECTION DURSHITY FOR MULTICASTING  CONTENT  METHOD AND A DEVICE FOR REPORTING THE  NUMBER OF CORRECTLY DECODED  TRANSPORT BLOCKS IN A WIRELESS SYSTEM  METHOD AND A DEVICE FOR REPORTING THE  NUMBER OF CORRECTLY DECODED  TRANSPORT BLOCKS IN A WIRELESS SYSTEM  METHOD AND A DEVICE FOR REPORTING THE  NUMBER OF CORRECTLY DECODED  TRANSPORT BLOCKS IN A WIRELESS SYSTEM  METHOD AND A DEVICE FOR REPORTING THE  NUMBER OF CORRECTLY DECODED  TRANSPORT BLOCKS IN A WIRELESS SYSTEM  METHOD AND A RRANGEMENT FOR  MIRLEMENTING MINIMUM ACTIVITY DURING  DISCONTINOUS TRANSMISSION  SYSTEM AND METHOD FOR ESTABLISHING  SYSTEM AND METHOD FOR ESTABLISHING  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  OR AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  C | METHOD AND APPARATUS PROVIDING          | US   | 10/441 335      | 5/19/2003   | 6 859 449                                      | 2/22/2005  |
| ACKNOWLEDGMENT DETECTION OF END OF UTTERANCE IN SPEECH RECOGNITION SYSTEM SPEECH RECOGNITION SYSTEM METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT METHOD AND A DEVICE FOR RECOMFIGURATION IN A WIRELESS SYSTEM METHOD AND A DEVICE FOR REPORTING THE NUMBER OF CORRECTLY DECODED TRANSPORT BLOCKS IN A WIRELESS SYSTEM METHOD AND AD EVICE FOR REPORTING THE NUMBER OF CORRECTLY DECODED TRANSPORT BLOCKS IN A WIRELESS SYSTEM METHOD AND ADEVICE FOR REPORTING THE NUMBER OF CORRECTLY DECODED TRANSPORT BLOCKS IN A WIRELESS SYSTEM METHOD AND ARRANGEMENT FOR MULTICASTING DISCONTINUUS TRANSMISSION SYSTEM AND METHOD FOR ESTABLISHING PEER TO PEER CONNECTIONS BETWEEN PCS AND SMART PHONES USING NETWORKS WITH OBSTACLES TEXT MESSAGING DEVICE US 10/875.807 SYSTEM AND METHOD FOR PROVIDING SUSER INTERFACE US 10/875.807 SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT TRANSFORM WITHOUT FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT TRANSFORM WETHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING OWNERS THE PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT TRANSFORM WETHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING OWNERS TO SELECTION DIVERSITY FOR MULTICASTING OWNERS TO SELECTION DIVERSITY FOR MULTICASTING OWNERS TO SEL |   | 00   | 10/441,000      | 0/10/2000   | 0,000,440                                      | 2/22/2000  |
| DETECTION OF END OF UTTERANCE IN   US   10/844,211   5/12/2004   8,117,460   8/25/2015     |   |  |                 |             |  |            |
| SPEECH RECOGNITION SYSTEM   SYSTEM AND METHOD FOR PROVIDING   SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING   SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING   SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT   SYSTEM AND METHOD FOR PROVIDING SEL   |   | US   | 10/844 211      | 5/12/2004   | 9 117 460                                      | 8/25/2015  |
| SYSTEM AND METHOD FOR PROVIDING SELECTION DURSRITY FOR MULTICASTING CONTENT  METHOD AND A DEVICE FOR SYSTEM MINETHOD AND A DEVICE FOR REPORTING THE NUMBER OF CORRECTLY DECODED TRANSPORT BLOCKS IN A WIRELESS SYSTEM METHOD AND A DEVICE FOR REPORTING THE NUMBER OF CORRECTLY DECODED TRANSPORT BLOCKS IN A WIRELESS SYSTEM METHOD AND A DEVICE FOR REPORTING THE NUMBER OF CORRECTLY DECODED TRANSPORT BLOCKS IN A WIRELESS SYSTEM METHOD AND A REVIEW FOR SYSTEM METHOD AND A REVIEW FOR SYSTEM METHOD AND ARRANGEMENT FOR WIS SYSTEM METHOD AND ARRANGEMENT FOR WIS SYSTEM AND METHOD FOR ESTABLISHING PEEP TO PEER CONNECTIONS BETWEEN PCS AND SMART PHONES USING NETWORKS WITH OSSTACLES WIS SYSTEM AND METHOD FOR PROVIDING SUSTENCE US 19/551,702 6/25/2004 7,502,832 3/10/2009 SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY F |   | "  | 10/011,211      | 5/ 12/200 · | 0,111,100                                      | 0,20,2010  |
| SELECTION DIVERSITY FOR MULTICASTING CONTENT   METHOD AND A DEVICE FOR REPORTING THE NUMBER OF CORRECTLY DEPOCHED   MINEROLOGY CORRECTLY DEPOCHED   MINEROLOGY CORRECTLY DEPOCHED   MINEROLOGY CORRECTLY DEPOCHED   MINEROLOGY CORRECTLY DEVICE   MI   |   | MX   | PA/A/2006/00385 | 10/6/2003   | 259591   | 8/13/2008  |
| CONTENT   WETHOD AND A DEVICE FOR RECORDING MARRIESS SYSTEM   US   10/674,989   10/6/2003   7,936,715   5/3/2011   | 1                                       |  |                 |             |  |            |
| METHOD AND A DEVICE FOR REPORTING THE RECONFIGURATION IN A WIRELESS SYSTEM METHOD AND A DEVICE FOR REPORTING THE NUMBER OF CORRECTLY DECORDED TRANSPORT BLOCKS IN A WIRELESS SYSTEM WITHOUT DEVICE FOR REPORTING THE NUMBER OF CORRECTLY DECORDED TRANSPORT BLOCKS IN A WIRELESS SYSTEM WITHOUT DEVICE FOR REPORTING THE NUMBER OF CORRECTLY DECORDED TRANSPORT BLOCKS IN A WIRELESS SYSTEM WITHOUT DEVICE FOR REPORTING THE NUMBER OF CORRECTLY DEVICE FOR REPORTING THE NUMBER OF CORRECT FOR   | 1                                       |  |                 |             |  |            |
| RECONFIGURATION IN A WRELESS SYSTEM METHOD AND A DEVICE FOR REPORTING THE NUMBER OF CORRECTLY DECODED TRANSPORT BLOCKS IN A WIRELESS SYSTEM METHOD AND A DEVICE FOR REPORTING THE NUMBER OF CORRECTLY DECODED TRANSPORT BLOCKS IN A WIRELESS SYSTEM METHOD AND ARRANGEMENT FOR IMPLEMENTING MINIMUM ACTIVITY DURING DISCONTINOUS TRANSMISSION SYSTEM AND METHOD FOR ESTABLISHING DISCONTINOUS TRANSMISSION SYSTEM AND METHOD FOR ESTABLISHING US 14/484,510 9/12/2014 9,258,362 2/9/2016 PEER TO PEER CONNECTIONS BETWEEN PCS AND SMART PHONES USING NETWORKS WITH OBSTACLES TEXT MESSAGING DEVICE US 10/875,807 6/25/2004 7,502,832 3/10/2008 USER INTERFACE US 10/875,807 6/25/2014 9,258,362 3/10/2008 SELECTION DIVERSITY FOR MULTICASTING CONTENT US 10/26/2002 7,600,205 10/20/2008 SELECTION DIVERSITY FOR MULTICASTING US 10/28/2002 7,600,205 10/20/2008 SELECTION DIVERSITY FOR MULTICASTING US 10/28/2002 7,600,205 10/20/2008 SELECTION DIVERSITY FOR MULTICASTING US 10/28/2004 10/28/2002 7,800,205 10/20/2008 SELECTION DIVERSITY FOR MULTICASTING US 10/28/2004 10/28/2002 7,800,205 10/20/2008 SELECTION DIVERSITY FOR MULTICASTING US 10/28/2004 10/28/2002 7,800,205 10/20/2008 SELECTION DIVERSITY FOR MULTICASTING US 10/28/2004 10/28/2002 7,800,205 10/28/2008 10/28/2004 10/28/2002 7,800,205 10/28/200 |   | US   | 10/574.989      | 10/6/2003   | 7.936.715                                      | 5/3/2011   |
| METHOD AND A DEVICE FOR REPORTING THE   US   |   |  | <b>'</b>        |             | ' '  |            |
| NUMBER OF CORRECTLY DECODED  |   | US   | 10/579,602      | 11/16/2004  | 8,310,933                                      | 11/13/2012 |
| METHOD AND ARRANGEMENT FOR IMPLEMENTING MINIMUM ACTIVITY DURING DISCONTINOUS TRANSMISSION SYSTEM AND METHOD FOR ESTABLISHING PEER TO PEER CONNECTIONS BETWEEN PCS AND SMART PHONES USING NETWORKS WITH OBSTACLES US 10/875,807 8/25/2004 7,502,832 3/10/2009 USER INTERFACE US 10/875,807 8/25/2012 8,391,929 3/5/2013 USER INTERFACE US 10/875,807 8/25/2014 8 | NUMBER OF CORRECTLY DECODED             |  | <b>'</b>        |             |  |            |
| IMPLEMENTING MINIMUM ACTIVITY DURING DISCONTINUS TRANSMISSION   SYSTEM AND METHOD FOR ESTABLISHING PEER TO PEER CONNECTIONS BETWEEN PCS AND SMART PHONES USING NETWORKS WITH OBSTACLES   US 10/875,607 6/25/2004 7,502,632 3/10/2009   USER INTERFACE US 13/531,702 6/25/2004 7,502,632 3/10/2009   USER INTERFACE US 13/531,702 6/25/2012 8,391,929 3/5/2013   USER SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING SELECTION SELECTION DIVERSITY FOR MULTICASTING SELECTION SELECTIO   | TRANSPORT BLOCKS IN A WIRELESS SYSTEM   |  |                 |             |  |            |
| IMPLEMENTING MINIMUM ACTIVITY DURING DISCONTINUS TRANSMISSION   SYSTEM AND METHOD FOR ESTABLISHING PEER TO PEER CONNECTIONS BETWEEN PCS AND SMART PHONES USING NETWORKS WITH OBSTACLES   US 10/875,607 6/25/2004 7,502,632 3/10/2009   USER INTERFACE US 13/531,702 6/25/2004 7,502,632 3/10/2009   USER INTERFACE US 13/531,702 6/25/2012 8,391,929 3/5/2013   USER SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING SELECTION SELECTION DIVERSITY FOR MULTICASTING SELECTION SELECTIO   |   |  |                 |             |  |            |
| IMPLEMENTING MINIMUM ACTIVITY DURING DISCONTINUS TRANSMISSION   SYSTEM AND METHOD FOR ESTABLISHING PEER TO PEER CONNECTIONS BETWEEN PCS AND SMART PHONES USING NETWORKS WITH OBSTACLES   US 10/875,607 6/25/2004 7,502,632 3/10/2009   USER INTERFACE US 13/531,702 6/25/2004 7,502,632 3/10/2009   USER INTERFACE US 13/531,702 6/25/2012 8,391,929 3/5/2013   USER SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING SELECTION SELECTION DIVERSITY FOR MULTICASTING SELECTION SELECTIO   | METHOD AND ARRANGEMENT FOR              | US   | 10/587,820      | 1/30/2004   | 7,706,313                                      | 4/27/2010  |
| DISCONTINOUS TRANSMISSION   US   14/484,510   9/12/2014   9,258,362   2/9/2016   | IMPLEMENTING MINIMUM ACTIVITY DURING    |  | ·               |             |  |            |
| SYSTEM AND METHOD FOR ESTABLISHING PEER TO PEER CONNECTIONS BETWEEN PCS AND SMART PHONES USING NETWORKS WITH OBSTACLES TEXT MESSAGING DEVICE US 10/875.607 6/25/2004 7,502.632 3/10/2009 USER INTERFACE US 19/531,702 6/25/2012 8,391.929 3/5/2013 SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT TERMINAL SETTING CHANGE NOTIFICATION US 10/281,200 10/281,200 10/282,2002 7,606,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING COMPENSATION OF TRANSIENT EFFECTS IN US 11/303,931 11/303,930 11 |   |  |                 |             |  |            |
| PEER TO PEER CONNECTIONS BETWEEN PCS   AND SMART PHONES USING NETWORKS WITH OBSTACLES   US   |   | US   | 14/484,510      | 9/12/2014   | 9,258,362                                      | 2/9/2016   |
| AND SMART PHONES USING NETWORKS WITH  OBSTACLES  IEXT MESSAGING DEVICE  US 10/875,607 6/25/2004 7,502,632 3/10/2009  USER INTERFACE  US 13/531,702 6/25/2012 8,391,929 3/5/2013  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  CONTENT  SYSTEM AND METHOD FOR PROVIDING  SYSTEM AND METHOD FOR PROVIDING  SYSTEM AND METHOD FOR PROVIDING  CONTENT  TERMINAL SETTING CHANGE NOTIFICATION  US 10/281,200  10/28/2002  7,806,205  10/20/2009  SELECTION DIVERSITY FOR MULTICASTING  CONTENT  TERMINAL SETTING CHANGE NOTIFICATION  US 10/855,614  5/28/2004  8,289,877  10/16/2012  TERMINAL SETTING CHANGE NOTIFICATION  US 10/855,614  5/28/2004  S,289,877  10/16/2012  TERMINAL SETTING CHANGE NOTIFICATION  US 10/893,931  1/18/2005  TRANSFORM CODING  METHODS OF FACILITATING HANDOFF FOR  US 10/920,444  8/18/2004  8,619,701  12/31/2013  METHOD AND A DEVICE FOR TRANSFERRING  US 11/578,731  4/19/2004  8,619,701  12/31/2013  METHOD AND A DEVICE FOR TRANSFERRING  US 11/578,731  4/19/2005  5/2  METHOD AND A DEVICE FOR TRANSFERRING  US 11/578,731  4/19/2005  5/2  METHOD AND A DEVICE FOR TRANSFERRING  US 11/578,731  4/19/2005  1795039  12/21/2016  DOWNLINK SHARED CHANNEL (HS-DSCH)  INFORMATION  ACTIVE SET UPDATE (ASU) WITH HIGH SPEED  DOWNLINK SHARED CHANNEL (HS-DSCH)  INFORMATION  ACTIVE SET UPDATE (ASU) WITH HIGH SPEED  DOWNLINK SHARED CHANNEL (HS-DSCH)  INFORMATION  ACTIVE SET UPDATE (ASU) WITH HIGH SPEED  DOWNLINK SHARED CHANNEL (HS-DSCH)  INFORMATION  ACTIVE SET UPDATE (ASU) WITH HIGH SPEED  DOWNLINK SHARED CHANNEL ( |   |  | <u> </u>        |             |  |            |
| OBSTACLES         US         10/875,607         6/25/2004         7,502,832         3/10/2009           USER INTERFACE         US         13/531,702         6/25/2012         8,391,929         3/52013           SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT         CN         200380102135.9         10/27/2003         100477817         4/9/2009           SYSTEM AND METHOD FOR PROVIDING SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT         JP         2010-113920         10/27/2003         5530805         4/25/2014           SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT         MX         PA/A/2005/00/438         10/27/2003         260168         9/2/2008           SELECTION DIVERSITY FOR MULTICASTING CONTENT         2         10/28/2002         7,606,205         10/20/2009           SELECTION DIVERSITY FOR MULTICASTING CONTENT         US         10/281,200         10/28/2002         7,606,205         10/20/2009           SELECTION DIVERSITY FOR MULTICASTING CONTENT         US         10/281,200         10/28/2002         7,606,205         10/20/2009           SELECTION DIVERSITY FOR MULTICASTING CONTENT         US         10/281,200         10/28/2002         7,606,205         10/20/2009           SELECTION DIVERSITY FOR MULTICASTING CONTENT         US         10/2  |   |  |                 |             |  |            |
| TEXT MESSAGING DEVICE US 10/875,607 6/26/2004 7,502,632 3/10/2009 USER INTERFACE US 13/531,702 6/25/2014 8,391,929 3/5/2013 SYSTEM AND METHOD FOR PROVIDING CN 200380102135.9 10/27/2003 100477817 4/6/2009 SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING US 10/281,200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING US 10/281,200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING US 10/281,200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING US 10/281,200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING US 10/281,200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING US 10/281,200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING US 10/281,200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING US 10/281,200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING US 10/281,200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING US 10/281,200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING US 10/281,200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING US 10/281,200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING US 10/28/200 10/28/2002 7,806,205 10/20/2009 SELECTION DIVERSITY FOR MULTICASTING US 10/28/200 10/28/2009 10/28/2 |   |  |                 |             |  |            |
| USE   13/531,702   6/25/2012   8,391,929   3/5/2013   SYSTEM AND METHOD FOR PROVIDING   SELECTION DIVERSITY FOR MULTICASTING   CN   200380102135.9   10/27/2003   100477817   4/8/2009   SYSTEM AND METHOD FOR PROVIDING   SYSTEM AND METHOD FOR PROVIDING   JP   2010-113920   10/27/2003   5530805   4/25/2014   SELECTION DIVERSITY FOR MULTICASTING   CONTENT   SYSTEM AND METHOD FOR PROVIDING   MX   PA/A/2005/00438   10/27/2003   260168   9/2/2008   SYSTEM AND METHOD FOR PROVIDING   SELECTION DIVERSITY FOR MULTICASTING   CONTENT   SYSTEM AND METHOD FOR PROVIDING   US   10/281,200   10/28/2002   7,606,205   10/20/2009   SELECTION DIVERSITY FOR MULTICASTING   CONTENT   SYSTEM AND METHOD FOR PROVIDING   US   10/855,614   5/28/2004   8,289,877   10/16/2012   TERMINAL SETTING CHANGE NOTIFICATION   US   10/855,614   5/28/2004   8,289,877   10/16/2012   TERMINAL SETTING CHANGE NOTIFICATION   US   10/855,614   5/28/2004   8,289,877   10/16/2012   TERMINAL SETTING CHANGE NOTIFICATION   US   10/920,444   8/18/2004   8,619,701   12/31/2013   17/305,950   8/4/2020   SAV40200   SA   |   | US   | 10/875,607      | 6/25/2004   | 7,502,632                                      | 3/10/2009  |
| SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT SYSTEM AND METHOD FOR PROVIDING SSELECTION DIVERSITY FOR MULTICASTING CONTENT TO SYSTEM AND METHOD FOR PROVIDING SUBJECTION DIVERSITY FOR MULTICASTING CONTENT TERMINAL SETTING CHANGE NOTIFICATION US 10/855,614 5/28/2004 8,289,877 10/16/2012 TERMINAL SETTING CHANGE NOTIFICATION US 16/126,417 9/10/2018 10,735,950 8/4/2020 COMPENSATION OF TRANSIENT EFFECTS IN US 11/039,391 1/18/2005 7,386,445 6/10/2008 TRANSFORM CODING METHOD SOF FACILITATING HANDOFF FOR US 10/920,444 8/18/2004 8,619,701 12/31/2013 CDMA NETWORKS USING IP PROTOCOLS METHOD AND A DEVICE FOR TRANSFERRING SIGNALLING INFORMATION IN A TDMA BASED SYSTEM ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)  |   | US   |                 | 6/25/2012   |  |            |
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| SELECTION DIVERSITY FOR MULTICASTING CONTENT   |   | JP   | 2010-113920     | 10/27/2003  | 5530805  | 4/25/2014  |
| SYSTEM AND METHOD FOR PROVIDING   SELECTION DIVERSITY FOR MULTICASTING   CONTENT   SYSTEM AND METHOD FOR PROVIDING   SELECTION DIVERSITY FOR MULTICASTING   CONTENT   SYSTEM AND METHOD FOR PROVIDING   SELECTION DIVERSITY FOR MULTICASTING   CONTENT   SYSTEM AND METHOD FOR PROVIDING   SELECTION DIVERSITY FOR MULTICASTING   CONTENT   SYSTEM AND SELECTION DIVERSITY FOR MULTICASTING   CONTENT   SYSTEM AND METHOD FOR PROVIDING   SELECTION DIVERSITY FOR MULTICASTING   CONTENT   SYSTEM AND SYSTEM   SYSTEM AND METHOD FOR PROVIDING   SELECTION DIVERSITY FOR MULTICASTING   SYSTEM      | SELECTION DIVERSITY FOR MULTICASTING    |  |                 |             |  |            |
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| SELECTION DIVERSITY FOR MULTICASTING CONTENT  SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT  TERMINAL SETTING CHANGE NOTIFICATION TERMINAL SETTING CHANGE NOTIFICATION TERMINAL SETTING CHANGE NOTIFICATION US 10/855,614 5/28/2004 8,289,877 10/16/2012  TERMINAL SETTING CHANGE NOTIFICATION US 16/126,417 9/10/2018 10,735,950 8/4/2020 COMPENSATION OF TRANSIENT EFFECTS IN TRANSFORM CODING  METHODS OF FACILITATING HANDOFF FOR CDMA NETWORKS USING IP PROTOCOLS  METHOD AND A DEVICE FOR TRANSFERRING SIGNALLING INFORMATION IN A TDMA BASED SYSTEM ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)                            |   | MX   | PA/A/2005/00438 | 10/27/2003  | 260168   | 9/2/2008   |
| CONTENT SYSTEM AND METHOD FOR PROVIDING SELECTION DIVERSITY FOR MULTICASTING CONTENT TERMINAL SETTING CHANGE NOTIFICATION US 10/855,614 5/28/2004 8,289,877 10/16/2012 TERMINAL SETTING CHANGE NOTIFICATION US 16/126,417 9/10/2018 10,735,950 8/4/2020 COMPENSATION OF TRANSIENT EFFECTS IN US 11/039,391 1/18/2005 7,386,445 6/10/2008 TRANSFORM CODING METHODS OF FACILITATING HANDOFF FOR CDMA NETWORKS USING IP PROTOCOLS METHOD AND A DEVICE FOR TRANSFERRING SIGNALLING INFORMATION IN A TDMA BASED SYSTEM ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)  |   |  |                 |             |  |            |
| SYSTEM AND METHOD FOR PROVIDING   SELECTION DIVERSITY FOR MULTICASTING   CONTENT   TERMINAL SETTING CHANGE NOTIFICATION   US   10/855,614   5/28/2004   6,289,877   10/16/2012   TERMINAL SETTING CHANGE NOTIFICATION   US   16/126,417   9/10/2018   10,735,950   8/4/2020   COMPENSATION OF TRANSIENT EFFECTS IN   US   11/039,391   1/18/2005   7,386,445   6/10/2008   TERMINAL SETTING CHANGE NOTIFICATION   US   16/126,417   9/10/2018   10,735,950   8/4/2020   COMPENSATION OF TRANSIENT EFFECTS IN   US   11/039,391   1/18/2005   7,386,445   6/10/2008   TERMINAL SETTING CHANGE NOTIFICATION   US   11/039,391   1/18/2005   7,386,445   6/10/2008   TERMINAL SETTING CHANGE NOTIFICATION   US   11/039,391   1/18/2005   7,386,445   6/10/2008   TERMINAL SETTING CHANGE NOTIFICATION   US   11/039,391   1/18/2005   7,386,445   6/10/2008   TERMINAL SETTING CHANGE NOTIFICATION   US   11/039,391   1/18/2005   7,386,445   6/10/2008   TERMINAL SETTING CHANGE NOTIFICATION   US   11/039,391   1/18/2004   8,619,701   12/31/2013   TERMINAL SETTING CHANGE NOTIFICATION   US   11/039,391   1/19/2004   8,014,365   9/6/2011   TERMINAL SETTING CHANGE NOTIFICATION   US   11/039,391   1/19/2004   8,014,365   9/6/2011   TERMINAL SET UPDATE (ASU) WITH HIGH SPEED   DE   602005050969.0   9/27/2005   1795039   12/21/2016   TERMINAL SHARED CHANNEL (HS-DSCH)   TERMINAL SHARED CHANNEL (HS-DSCH)   TERMINAL SHARED CHANNEL (HS-DSCH)   TERMINAL SET UPDATE (ASU) WITH HIGH SPEED   DE   602005057190.6   9/27/2005   1795039   12/21/2016   TERMINAL SET UPDATE (ASU) WITH HIGH SPEED   TERMINA   |   |  |                 |             |  |            |
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| TERMINAL SETTING CHANGE NOTIFICATION   US   10/855,614   5/28/2004   8,289,877   10/16/2012   TERMINAL SETTING CHANGE NOTIFICATION   US   16/126,417   9/10/2018   10,735,950   8/4/2020    |   |  |                 |             |  |            |
| TERMINAL SETTING CHANGE NOTIFICATION   US   10/855,614   5/28/2004   8,289,877   10/16/2012   TERMINAL SETTING CHANGE NOTIFICATION   US   16/126,417   9/10/2018   10,735,950   8/4/2020    |   |  |                 |             |  |            |
| TERMINAL SETTING CHANGE NOTIFICATION   US  | TERMINAL SETTING CHANGE NOTIFICATION    | US   | 10/855,614      | 5/28/2004   | 8,289,877                                      | 10/16/2012 |
| TRANSFORM CODING   METHODS OF FACILITATING HANDOFF FOR   US   10/920,444   8/18/2004   8,619,701   12/31/2013   12/31/2014   12/31/2015   12/31/2015   12/21/2016   12/31/2015   12/21/2016   12/31/2015   12/21/2015   12/21/2016   12/31/2014   12/31/20   | TERMINAL SETTING CHANGE NOTIFICATION    | US   | 16/126,417      | 9/10/2018   | 10,735,950                                     | 8/4/2020   |
| METHODS OF FACILITATING HANDOFF FOR CDMA NETWORKS USING IP PROTOCOLS         US         10/920,444         8/18/2004         8,619,701         12/31/2013           METHOD AND A DEVICE FOR TRANSFERRING SIGNALLING INFORMATION IN A TDMA BASED SYSTEM         US         11/578,731         4/19/2004         8,014,365         9/6/2011           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         DE         602005050969.0         9/27/2005         1795039         12/21/2016           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         DE         16195373.2         9/27/2005         60200505620         8/28/2019           DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         DE         602005057190.6         9/27/2005         3582550         4/7/2021           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         FR         05804706.9         9/27/2005         1795039         12/21/2016           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         FR         16195373.2         9/27/2005         3145245         8/28/2019           DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)         GB         05804706.9         9/27/2005         1795039         12/21/2016  | COMPENSATION OF TRANSIENT EFFECTS IN    | US   | 11/039,391      | 1/18/2005   | 7,386,445                                      | 6/10/2008  |
| CDMA NETWORKS USING IP PROTOCOLS         METHOD AND A DEVICE FOR TRANSFERRING SIGNALLING INFORMATION IN A TDMA BASED SYSTEM         US         11/578,731         4/19/2004         8,014,365         9/6/2011           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         DE         602005050969.0         9/27/2005         1795039         12/21/2016           DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         DE         16195373.2         9/27/2005         60200505620         8/28/2019           DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         DE         602005057190.6         9/27/2005         3582550         4/7/2021           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         FR         05804706.9         9/27/2005         1795039         12/21/2016           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         FR         16195373.2         9/27/2005         3145245         8/28/2019           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         GB         05804706.9         9/27/2005         1795039         12/21/2016           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)         GB         05804706.9         9/27/2005         1795039         12/21/2016  | TRANSFORM CODING                        |  |                 |             |  |            |
| METHOD AND A DEVICE FOR TRANSFERRING SIGNALLING INFORMATION IN A TDMA BASED SYSTEM         US         11/578,731         4/19/2004         8,014,365         9/6/2011           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         DE         602005050969.0         9/27/2005         1795039         12/21/2016           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         DE         16195373.2         9/27/2005         60200505620         8/28/2019           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         DE         602005057190.6         9/27/2005         3582550         4/7/2021           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         FR         05804706.9         9/27/2005         1795039         12/21/2016           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION         FR         16195373.2         9/27/2005         3145245         8/28/2019           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)         GB         05804706.9         9/27/2005         1795039         12/21/2016  |   | US   | 10/920,444      | 8/18/2004   | 8,619,701                                      | 12/31/2013 |
| SIGNALLING INFORMATION IN A TDMA BASED   SYSTEM  | CDMA NETWORKS USING IP PROTOCOLS        |  |                 |             |  |            |
| SYSTEM   | METHOD AND A DEVICE FOR TRANSFERRING    | US   | 11/578,731      | 4/19/2004   | 8,014,365                                      | 9/6/2011   |
| ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)  | SIGNALLING INFORMATION IN A TDMA BASED  |  |                 |             |  |            |
| DOWNLINK SHARED CHANNEL (HS-DSCH)   INFORMATION   ACTIVE SET UPDATE (ASU) WITH HIGH SPEED   DE   16195373.2   9/27/2005   60200505620   8/28/2019   5.2   INFORMATION   SET UPDATE (ASU) WITH HIGH SPEED   DE   602005057190.6   9/27/2005   3582550   4/7/2021   1/7/2022   1/7/   |   |  |                 |             |  |            |
| INFORMATION  | ACTIVE SET UPDATE (ASU) WITH HIGH SPEED | DE   | 602005050969.0  | 9/27/2005   | 1795039  | 12/21/2016 |
| INFORMATION  | DOWNLINK SHARED CHANNEL (HS-DSCH)       |  |                 |             |  |            |
| DOWNLINK SHARED CHANNEL (HS-DSCH)   INFORMATION  | INFORMATION                             |  |                 |             |  |            |
| INFORMATION  | ACTIVE SET UPDATE (ASU) WITH HIGH SPEED | DE   | 16195373.2      | 9/27/2005   | 60200505620                                    | 8/28/2019  |
| ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DE 602005057190.6 9/27/2005 3582550 4/7/2021 DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION FR 05804706.9 9/27/2005 1795039 12/21/2016 DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION FR 16195373.2 9/27/2005 3145245 8/28/2019 DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)  | DOWNLINK SHARED CHANNEL (HS-DSCH)       |  |                 |             | 5.2  |            |
| DOWNLINK SHARED CHANNEL (HS-DSCH)         INFORMATION         9/27/2005         1795039         12/21/2016           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)         FR         05804706.9         9/27/2005         1795039         12/21/2016           NEFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)         FR         16195373.2         9/27/2005         3145245         8/28/2019           NEFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)         GB         05804706.9         9/27/2005         1795039         12/21/2016   | INFORMATION                             | <u> </u>                                     |                 |             |  |            |
| DOWNLINK SHARED CHANNEL (HS-DSCH)         INFORMATION         9/27/2005         1795039         12/21/2016           ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)         FR         05804706.9         9/27/2005         1795039         12/21/2016           NEFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)         FR         16195373.2         9/27/2005         3145245         8/28/2019           NEFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH)         GB         05804706.9         9/27/2005         1795039         12/21/2016   | ACTIVE SET UPDATE (ASU) WITH HIGH SPEED | DE   | 602005057190.6  | 9/27/2005   | 3582550  | 4/7/2021   |
| ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) DOWNLINK SHARED CHANNEL (HS-DSCH)  BY 105804706.9  9/27/2005 1795039 12/21/2016 1795039 12/21/2016   |   |  |                 |             |  |            |
| ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) DOWNLINK SHARED CHANNEL (HS-DSCH)  BY 105804706.9  9/27/2005 1795039 12/21/2016 1795039 12/21/2016   |   |  |                 |             |  |            |
| DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION  ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION  ACTIVE SET UPDATE (ASU) WITH HIGH SPEED DOWNLINK SHARED CHANNEL (HS-DSCH) BOWNLINK SHARED CHANNEL (HS-DSCH)  BOWNLINK SHARED CHANNEL (HS-DSCH)  BOWNLINK SHARED CHANNEL (HS-DSCH)  BOWNLINK SHARED CHANNEL (HS-DSCH)   |   | FR   | 05804706.9      | 9/27/2005   | 1795039  | 12/21/2016 |
| INFORMATION  |   |  |                 |             |  |            |
| DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED GB 05804706.9 9/27/2005 1795039 12/21/2016 DOWNLINK SHARED CHANNEL (HS-DSCH)   | INFORMATION                             |  |                 |             | <u>                                       </u> |            |
| DOWNLINK SHARED CHANNEL (HS-DSCH) INFORMATION ACTIVE SET UPDATE (ASU) WITH HIGH SPEED GB 05804706.9 9/27/2005 1795039 12/21/2016 DOWNLINK SHARED CHANNEL (HS-DSCH)   | ACTIVE SET UPDATE (ASU) WITH HIGH SPEED | FR   | 16195373.2      | 9/27/2005   | 3145245  | 8/28/2019  |
| INFORMATION         GB         05804706.9         9/27/2005         1795039         12/21/2016           DOWNLINK SHARED CHANNEL (HS-DSCH)         GB         05804706.9         9/27/2005         1795039         12/21/2016  |   |  |                 |             |  |            |
| ACTIVE SET UPDATE (ASU) WITH HIGH SPEED GB 05804706.9 9/27/2005 1795039 12/21/2016  DOWNLINK SHARED CHANNEL (HS-DSCH)  |   |  |                 |             |  |            |
| DOWNLINK SHARED CHANNEL (HS-DSCH)  | ACTIVE SET UPDATE (ASU) WITH HIGH SPEED | GB   | 05804706.9      | 9/27/2005   | 1795039  | 12/21/2016 |
|  |   |  |                 |             |  |            |
|  | INFORMATION                             | <u>                                     </u> |                 |             | <u>                                      </u>  |            |

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| 1 TELE  | Country ID    | Seriai #        | Filed Date            | Patent #    | issue Date  |
| ACTIVE SET UPDATE (ASU) WITH HIGH SPEED                             | GB            | 16195373.2      | 9/27/2005             | 3145245     | 8/28/2019   |
| DOWNLINK SHARED CHANNEL (HS-DSCH)                                   | 65            | 10193373.2      | 9/21/2003             | 3143243     | 0/20/2019   |
| INFORMATION   |               |                 |                       |             |             |
| ACTIVE SET UPDATE (ASU) WITH HIGH SPEED                             | GB            | 19183313.6      | 9/27/2005             | 3582550     | 4/7/2021    |
| DOWNLINK SHARED CHANNEL (HS-DSCH)                                   | 65            | 13103313.0      | 3/21/2003             | 3302330     | 4/1/2021    |
| INFORMATION   |               |                 |                       |             |             |
| ACTIVE STATE UPDATE (ASU) WITH HIGH                                 | PK            | 226/2013        | 9/27/2005             | 142684      | 2/8/2018    |
| SPEED DOWNLINK SHARED CHANNEL (HS-                                  |               | 220/2010        | 0/21/2000             | 142004      | 2/0/2010    |
| DSCH) INFORMATION   |               |                 |                       |             |             |
| ACTIVE SET UPDATE (ASU) WITH HIGH SPEED                             | US            | 11/237,643      | 9/27/2005             | 9,980,190   | 5/22/2018   |
| DOWNLINK SHARED CHANNEL (HS-DSCH)                                   |               | 111201,010      | 0.2200                | 0,000,100   | 0, 22, 20.0 |
| INFORMATION   |               |                 |                       |             |             |
| ACTIVE SET UPDATE (ASU) WITH HIGH SPEED                             | US            | 15/955,051      | 4/17/2018             | 10,609,614  | 3/31/2020   |
| DOWNLINK SHARED CHANNEL (HS-DSCH)                                   |               | ,               |                       |             |             |
| INFORMATION   |               |                 |                       |             |             |
| SLOW MAC-E FOR AUTONOMOUS   | CN            | 200580038621.8  | 9/30/2005             | 20058003862 | 4/20/2016   |
| TRANSMISSION IN HIGH SPEED UPLINK                                   |               |                 |                       | 1.8         |             |
| PACKET ACCESS (HSUPA) ALONG WITH                                    | 1             |                 |                       |             |             |
| SERVICE SPECIFIC TRANSMISSION TIME                                  | 1             |                 |                       |             |             |
| CONTROL   | <u></u>       |                 |                       |             |             |
| SLOW MAC-E FOR AUTONOMOUS   | CN            | 201610182839.0  | 9/30/2005             | 105743622   | 10/11/2019  |
| TRANSMISSION IN HIGH SPEED UPLINK                                   |               |                 |                       |             |             |
| PACKET ACCESS WITH SERVICE SPECIFIC                                 |               |                 |                       |             |             |
| TRANSMISSION TIME CONTROL   |               |                 |                       |             |             |
| SLOW MAC-E FOR AUTONOMOUS   | DE            | 602005045846.8  | 9/30/2005             | 1797659     | 2/18/2015   |
| TRANSMISSION IN HIGH SPEED UPLINK                                   |               |                 |                       |             |             |
| PACKET ACCESS (HSUPA) ALONG WITH                                    |               |                 |                       |             |             |
| SERVICE SPECIFIC TRANSMISSION TIME                                  |               |                 |                       |             |             |
| CONTROL   |               |                 |                       |             |             |
| SLOW MAC-E FOR AUTONOMOUS   | FR            | 05805638.3      | 9/30/2005             | 1797659     | 2/18/2015   |
| TRANSMISSION IN HIGH SPEED UPLINK                                   |               |                 |                       |             |             |
| PACKET ACCESS (HSUPA) ALONG WITH                                    |               |                 |                       |             |             |
| SERVICE SPECIFIC TRANSMISSION TIME                                  |               |                 |                       |             |             |
| CONTROL   |               |                 |                       |             |             |
| SLOW MAC-E FOR AUTONOMOUS   | FR            | 14197908.8      | 9/30/2005             | 2866491     | 2/27/2019   |
| TRANSMISSION IN HIGH SPEED UPLINK                                   |               |                 |                       |             |             |
| PACKET ACCESS (HSUPA) ALONG WITH                                    |               |                 |                       |             |             |
| SERVICE SPECIFIC TRANSMISSION TIME                                  |               |                 |                       |             |             |
| CONTROL   | 0.0           | 05005000        | 0 /00 /000 5          | 4707050     | 0/40/0045   |
| SLOW MAC-E FOR AUTONOMOUS   | GB            | 05805638.3      | 9/30/2005             | 1797659     | 2/18/2015   |
| TRANSMISSION IN HIGH SPEED UPLINK                                   |               |                 |                       |             |             |
| PACKET ACCESS (HSUPA) ALONG WITH                                    |               |                 |                       |             |             |
| SERVICE SPECIFIC TRANSMISSION TIME                                  |               |                 |                       |             |             |
| SLOW MAC-E FOR AUTONOMOUS   | GB            | 14197908.8      | 9/30/2005             | 2866491     | 2/27/2019   |
| 1   | <sup>GB</sup> | 1418/800.0      | <del>9</del> /30/∠005 | 2000491     | 212112019   |
| TRANSMISSION IN HIGH SPEED UPLINK                                   |               |                 |                       |             |             |
| PACKET ACCESS (HSUPA) ALONG WITH SERVICE SPECIFIC TRANSMISSION TIME |               |                 |                       |             |             |
| 1   |               |                 |                       |             |             |
| CONTROL<br>  SLOW MAC-E FOR AUTONOMOUS                              | JP            | 2007-534106     | 9/30/2005             | 4527779     | 6/11/2010   |
| TRANSMISSION IN HSUPA   | "             | 2007-004100     | 3/30/2003             | 4321118     | 0/11/2010   |
| SLOW MAC-E FOR AUTONOMOUS   | KR            | 10-2007-7009704 | 9/30/2005             | 0929145     | 11/23/2009  |
| TRANSMISSION IN HSUPA   |               | .0 2007 7000704 | 0,00,2000             | 5525145     | 11/20/2000  |
| SLOW MAC-E FOR AUTONOMOUS   | NL            | 05805638.3      | 9/30/2005             | 1797659     | 2/18/2015   |
| TRANSMISSION IN HIGH SPEED UPLINK                                   | '*-           |                 | 0,00,2000             | ,           | 2,10,2010   |
| PACKET ACCESS (HSUPA) ALONG WITH                                    |               |                 |                       |             |             |
| ISERVICE SPECIFIC TRANSMISSION TIME                                 |               |                 |                       |             |             |
| ICONTROL  | 1             |                 |                       |             |             |
| SLOW MAC-E FOR AUTONOMOUS   | US            | 11/239,706      | 9/29/2005             | 7,804,850   | 9/28/2010   |
| TRANSMISSION IN HIGH SPEED UPLINK                                   | 55            | 255,755         | 0,20,2000             | ',55 +,555  | 0,20,2010   |
| PACKET ACCESS (HSUPA) ALONG WITH                                    |               |                 |                       |             |             |
| ISERVICE SPECIFIC TRANSMISSION TIME                                 | 1             |                 |                       |             |             |
| CONTROL   | 1             |                 |                       |             |             |
| 00.1111.01  |               |                 |                       |             |             |

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| RADIO CHANNEL ALLOCATION AND LINK       | US         | 11/642,551     | 12/21/2006  | 8,320,947  | 11/27/2012 |
| ADAPTATION IN CELLULAR                  |            | 11/012,001     | 12/2 1/2000 | 0,020,017  | 11/21/2012 |
| TELECOMMUNICATION SYSTEM                |            |                |             |            |            |
| STRESS RELEASE FEATURE FOR PWBS         | US         | 10/306,155     | 11/29/2002  | 6,921,867  | 7/26/2005  |
| TRANSPORT FORMAT DATA TRANSMISSION      | US         | 10/534,102     | 11/7/2002   | 7,643,448  | 1/5/2010   |
| MOBILE CELLULAR TELEPHONE WITH A        | US         | 10/572,710     | 9/17/2003   | 10,372,313 | 8/6/2019   |
| DISPLAY THAT IS CONTROLLED PARTLY BY AN |            |                |             | ,,         |            |
| INCLINE SENSOR                          |            |                |             |            |            |
| HANDPORTABLE CELLULAR TELEPHONE         | US         | 10/655,457     | 9/3/2003    | 7,330,713  | 2/12/2008  |
| ADAPTED TO RECEIVE MESSAGES AND A       |            | ,              |             | ' '        |            |
| METHOD FOR PROCESSING MESSAGES          |            |                |             |            |            |
| CHANNEL EQUALIZATION                    | US         | 10/590,039     | 2/20/2004   | 7,936,851  | 5/3/2011   |
| SLIDE ASSEMBLY                          | US         | 10/873,565     | 6/22/2004   | 7,369,884  | 5/6/2008   |
| VIRTUAL RADIO                           | US         | 10/879,619     | 6/29/2004   | 7,409,205  | 8/5/2008   |
| METHOD AND DEVICE FOR VERIFYING THE     | US         | 11/791,285     | 11/22/2004  | 8,954,738  | 2/10/2015  |
| INTEGRITY OF PLATFORM SOFTWARE OF AN    |            | ,              |             | ' '        |            |
| ELECTRONIC DEVICE                       |            |                |             |            |            |
| METHOD AND DEVICE FOR VERIFYING THE     | US         | 14/503,264     | 9/30/2014   | 9,438,608  | 9/6/2016   |
| INTEGRITY OF PLATFORM SOFTWARE OF AN    |            | ·              |             | ' '        |            |
| ELECTRONIC DEVICE                       |            |                |             |            |            |
| METHOD AND DEVICE FOR VERIFYING THE     | US         | 15/847,284     | 12/19/2017  | 10,482,238 | 11/19/2019 |
| INTEGRITY OF PLATFORM SOFTWARE OF AN    |            | ,              |             | ' '        |            |
| ELECTRONIC DEVICE                       |            |                |             |            |            |
| METHOD AND DEVICE FOR VERIFYING THE     | US         | 16/591,192     | 10/2/2019   | 11,126,710 | 9/21/2021  |
| INTEGRITY OF PLATFORM SOFTWARE OF AN    |            | ,              |             |            |            |
| ELECTRONIC DEVICE                       |            |                |             |            |            |
| CONTROLLING TRANSMISSION RESOURCES IN   | US         | 10/530,256     | 4/8/2004    | 8,712,423  | 4/29/2014  |
| MOBILE RADIO SYSTEMS WITH               |            | ,              |             | -,,        |            |
| DUALTRANSFER MODE                       |            |                |             |            |            |
| ELECTRONIC DEVICE AND A METHOD FOR      | US         | 16/167,042     | 10/22/2018  | 10,768,714 | 9/8/2020   |
| CONTROLLING THE FUNCTIONS OF THE        |            | ·              |             | ' '        |            |
| ELECTRONIC DEVICE AS WELL AS PROGRAM    |            |                |             |            |            |
| PRODUCT FOR IMPLEMENTING THE METHOD     |            |                |             |            |            |
|   |            |                |             |            |            |
| MULTIMEDIA PRESENTATION EDITOR FOR A    | US         | 10/694,715     | 10/27/2003  | 8,065,616  | 11/22/2011 |
| SMALL-DISPLAY COMMUNICATION TERMINAL    |            | · ·            |             |            |            |
| OR COMPUTING DEVICE                     |            |                |             |            |            |
| A METHOD FOR IDENTIFYING AND            | MX         | PA/a/06/008486 | 2/11/2005   | 272568     | 12/9/2009  |
| RETRANSMITTING MISSING PARTS OFAN       |            |                |             |            |            |
| OBJECT WITHIN OR OUTSIDE OF A FLUTE     |            |                |             |            |            |
| SESSION                                 |            |                |             |            |            |
| IDENTIFICATION AND RE-TRANSMISSION OF   | US         | 10/778,926     | 2/13/2004   | 7,599,294  | 10/6/2009  |
| MISSING PARTS                           |            | · ·            |             |            |            |
| MESSAGE HANDLING                        | US         | 10/558,659     | 3/23/2005   | 8,073,114  | 12/6/2011  |
| MESSAGE HANDLING                        | US         | 13/311,075     | 12/5/2011   | 9,602,451  | 3/21/2017  |
| HIGH POWER LIGHT-EMITTING DIODE         | US         | 11/118,970     | 4/29/2005   | 7,202,505  | 4/10/2007  |
| PACKAGE AND METHODS FOR MAKING SAME     |            | ·              |             |            |            |
|   |            |                |             |            |            |
| MEMORY ASSOCIATION TO FOLDER            | US         | 14/310,278     | 6/20/2014   | 9,253,292  | 2/2/2016   |
| INFORMATION                             | 1          | ·              |             |            |            |
| DISPLAYING AN IMAGE USING MEMORY        | US         | 11/110,984     | 4/20/2005   | 7,394,465  | 7/1/2008   |
| CONTROL UNIT                            |            |                |             |            |            |
| SYSTEM AND METHOD FOR AUTOMATIC         | US         | 11/010,984     | 12/13/2004  | 8,040,395  | 10/18/2011 |
| FORMAT SELECTION FOR DIGITAL            | 1          | · ·            |             |            |            |
| PHOTOGRAPHS                             | 1          |                |             |            |            |
| SYSTEM AND METHOD FOR AUTOMATIC         | HK         | 13102993.8     | 12/13/2005  |            |            |
| FORMAT SELECTION FOR DIGITAL            | 1          |                |             |            |            |
| PHOTOGRAPHS                             | 1          |                |             |            |            |
| CONTEXT DATA IN UPNP SERVICE            | US         | 15/042,825     | 2/12/2016   | 10,476,939 | 11/12/2019 |
| INFORMATION                             |            | <b>'</b>       |             | ' '        |            |
| METHOD AND DEVICE FOR ENHANCING RING    | US         | 10/949,700     | 9/23/2004   | 7,356,373  | 4/8/2008   |
| TONES IN MOBILE TERMINALS               | 1          |                |             | ' '        |            |
|   | •          |                | •           | •          |            |

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| MOBILE COMMUNICATIONS TERMINAL AND                 | US         | 15/805,403      | 11/7/2017  | 10,684,763 | 6/16/2020  |
| METHOD WITH AUTOMATIC RETURN TO A                  | "          | 10,000,100      | 11,7,2017  | 10,001,700 | 0/10/2020  |
| POSITION AFTER SCROLLING                           |            |                 |            |            |            |
| PROVIDING SERVICE DISTRIBUTION BETWEEN             | US         | 11/023,315      | 12/27/2004 | 7,493,373  | 2/17/2009  |
| DISTRIBUTED APPLICATIONS                           | 55         | 117020,010      | 12/2//2004 | 7,400,070  | 2/11/2000  |
| PROCESSING COPYRIGHT NOTICE OF MEDIA               | US         | 14/474,168      | 8/31/2014  | 9,633,181  | 4/25/2017  |
| FILE   | 00         | 14/4/4,100      | 0/31/2014  | 0,000,101  | 4/25/2011  |
| SELECTING DATA FOR SYNCHRONIZATION                 | US         | 11/124.658      | 5/9/2005   | 7,483,925  | 1/27/2009  |
| USER-INTERFACE APPLICATION FOR MEDIA               | US         | 10/951,089      | 9/27/2004  | 7,890,889  | 2/15/2011  |
| FILE MANAGEMENT                                    | 00         | 10/551,005      | 3/2//2004  | 7,000,000  | 2/10/2011  |
| GROUP EDITING OF MEDIA CONTENT STORED              | US         | 10/970,329      | 10/21/2004 | 9,591,345  | 3/7/2017   |
| ON WIRELESS PORTABLE DEVICES                       | 03         | 10/9/0,329      | 10/21/2004 | 9,591,545  | 3/1/2017   |
| GROUP EDITING OF MEDIA CONTENT STORED              | US         | 15/414,856      | 1/25/2017  | 10,623,797 | 4/14/2020  |
| ON WIRELESS PORTABLE DEVICES                       | 03         | 13/414,030      | 1/23/2017  | 10,023,797 | 4/14/2020  |
| SYSTEM, METHOD, APPARATUS, AND                     | US         | 11/539,454      | 10/6/2006  | 9,537,943  | 1/3/2017   |
| COMPUTER PROGRAM PRODUCT FOR                       | 03         | 11/338,434      | 10/0/2000  | 9,557,845  | 1/3/2017   |
| PROVIDING A SOCIAL NETWORK DIAGRAM IN A            |            |                 |            |            |            |
|  |            |                 |            |            |            |
| P2P NETWORK DEVICE METHOD, APPARATUS, AND COMPUTER | US         | 11/535,647      | 9/27/2006  | 9,307,122  | 4/5/2016   |
|  | 05         | 11/535,647      | 9/2//2006  | 9,307,122  | 4/5/2016   |
| PROGRAM PRODUCT FOR PROVIDING MOTION               |            |                 |            |            |            |
| ESTIMATOR FOR VIDEO ENCODING                       | 110        | 45/050 400      | 0/04/0040  | 9,549,199  | 4.47/0047  |
| METHOD, APPARATUS, AND COMPUTER                    | US         | 15/052,198      | 2/24/2016  | 9,549,199  | 1/17/2017  |
| PROGRAM PRODUCT FOR PROVIDING MOTION               |            |                 |            |            |            |
| ESTIMATOR FOR VIDEO ENCODING                       |            | 15/252 105      | 10/0/0010  | 10.000.010 | 10/07/0000 |
| METHOD, APPARATUS, AND COMPUTER                    | US         | 15/370,127      | 12/6/2016  | 10,820,012 | 10/27/2020 |
| PROGRAM PRODUCT FOR PROVIDING MOTION               |            |                 |            |            |            |
| ESTIMATOR FOR VIDEO ENCODING                       |            |                 |            |            |            |
| FREQUENCY LAYER CONVERGENCE METHOD                 | MX MX      | PA/a/06/011811  | 4/15/2005  | 272155     | 11/26/2009 |
| FOR MBMS   |            |                 |            |            |            |
| FREQUENCY LAYER CONVERGENCE METHOD                 | US         | 10/935,323      | 9/8/2004   | 8,300,593  | 10/30/2012 |
| FOR MBMS   |            |                 |            |            |            |
| ENHANCED PRENOTIFICATION PROCEDURE                 | CN         | 200580035945.6  | 9/14/2005  | 100546409  | 9/30/2009  |
| FOR GERAN MBMS                                     |            |                 |            |            |            |
| ENHANCED PRE-NOTIFICATION PROCEDURE                | US         | 11/226,566      | 9/14/2005  | 7,684,357  | 3/23/2010  |
| FOR GERAN MBMS                                     |            |                 |            |            |            |
| DETERMINATION AND USE OF ADAPTIVE                  | US         | 11/347,655      | 2/3/2006   | 7,489,657  | 2/10/2009  |
| THRESHOLDS FOR RECEIVED MESSAGES                   |            |                 |            |            |            |
| METHOD, APPARATUS AND COMPUTER                     | US         | 11/397,539      | 4/4/2006   | 8,626,153  | 1/7/2014   |
| PROGRAM FOR TERMINATING MOBILE STATION             |            |                 |            |            |            |
| RECEIPT OF MULTIMEDIA                              |            |                 |            |            |            |
| BROADCAST/MULTIMEDIA SERVICE (MBMS)                |            |                 |            |            |            |
| SERVICE BEARER                                     |            |                 |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR              | CN         | 200680014086.7  | 4/25/2006  | 101167313  | 1/20/2016  |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH             |            |                 |            |            |            |
| WITHOUT E-DPCCH)                                   |            |                 |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR              | CN         | 2015110297555   | 4/25/2006  | 105451266  | 6/1/2021   |
| VOIP   |            |                 |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR              | DE         | 06744560.1      | 4/25/2006  | 1878177    | 6/21/2017  |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH             |            |                 |            |            |            |
| WITHOUT E-DPCCH)                                   |            |                 |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR              | DE         | 602006057743.5  | 4/25/2006  | 3197206    | 4/3/2019   |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH             | ""         | 00200001140.0   | 4/20/2000  | 0107200    | 4/0/2010   |
| WITHOUT E-DPCCH)                                   |            |                 |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR              | DE         | 602006057694.3  | 4/25/2006  | 3267722    | 3/27/2019  |
|  | "          | 0020000070004.5 | 7/25/2000  | 3201122    | 3/2//2018  |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH             |            |                 |            |            |            |
| WITHOUT E-DPCCH)                                   | DE         | 602006060074.7  | 4/25/2006  | 2502542    | E/26/2024  |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR              | "          | 602006060074.7  | 4/25/2006  | 3582542    | 5/26/2021  |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH             |            |                 |            |            |            |
| WITHOUT E-DPCCH)                                   | 0.5        | 00744500 4      | 4/05/0000  | 4070477    | 0/04/0617  |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR              | GB         | 06744560.1      | 4/25/2006  | 1878177    | 6/21/2017  |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH             |            | 1               |            |            |            |
| WITHOUT E-DPCCH)                                   |            | <u> </u>        |            |            |            |

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| FIXED HS-DSCH OR E-DCH ALLOCATION FOR   | GB         | 17161422.5     | 4/25/2006  | 3197206    | 4/3/2019   |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH  | l GB       | 17 10 1422.5   | 4/25/2006  | 3197200    | 4/3/2019   |
| WITHOUT E-DPCCH)                        |            |                |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR   | GB         | 17188898.5     | 4/25/2006  | 3267722    | 3/27/2019  |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH  | 65         | 17 100090.5    | 4/23/2000  | 3201122    | 3/2//2019  |
| WITHOUT E-DPCCH)                        |            |                |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR   | GB         | 19166631.2     | 4/25/2006  | 3582542    | 5/26/2021  |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH  | "          | 13100031.2     | 4/23/2000  | 3302342    | 3/20/2021  |
| WITHOUT E-DPCCH)                        |            |                |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR   | JP         | 2008-508320    | 4/25/2006  | 4634504    | 11/26/2010 |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH  | •          | 2000 000020    |            | '''        | 11/20/2010 |
| WITHOUT E-DPCCH)                        |            |                |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR   | US         | 11/411,995     | 4/25/2006  | 8,804,505  | 8/12/2014  |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH  |            | 1,555          |            | 3,331,333  | 0.12.2011  |
| WITHOUT E-DPCCH)                        |            |                |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR   | US         | 14/330,211     | 7/14/2014  | 9,763,231  | 9/12/2017  |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH  |            | <b>'</b>       |            | ' '        |            |
| WITHOUT E-DPCCH)                        |            |                |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR   | US         | 15/611,214     | 6/1/2017   | 10,244,516 | 3/26/2019  |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH  |            | ·              |            | l '        |            |
| WITHOUT E-DPCCH)                        |            |                |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR   | US         | 16/247,701     | 1/15/2019  | 10,548,119 | 1/28/2020  |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH  |            |                |            | ·          |            |
| WITHOUT E-DPCCH)                        |            |                |            |            |            |
| FIXED HS-DSCH OR E-DCH ALLOCATION FOR   | US         | 16/720,726     | 12/19/2019 | 10,952,191 | 3/16/2021  |
| VOIP (OR HS-DSCH WITHOUT HS-SCCH/E-DCH  |            |                |            |            |            |
| WITHOUT E-DPCCH)                        |            |                |            |            |            |
| APPARATUS, METHOD AND COMPUTER          | US         | 11/506,741     | 8/18/2006  | 9,420,612  | 8/16/2016  |
| PROGRAM PRODUCT PROVIDING               |            |                |            |            |            |
| SIMULTANEOUS RADIO RESOURCE AND         |            |                |            |            |            |
| SERVICE REQUESTS                        |            |                |            |            |            |
| APPARATUS, METHOD AND COMPUTER          | US         | 15/205,861     | 7/8/2016   | 10,154,527 | 12/11/2018 |
| PROGRAM PRODUCT PROVIDING               |            |                |            |            |            |
| SIMULTANEOUS RADIO RESOURCE AND         |            |                |            |            |            |
| SERVICE REQUESTS                        |            |                |            |            |            |
| METHOD OF CONTROLLING RADIO             | US         | 11/976,431     | 10/24/2007 | 8,199,660  | 6/12/2012  |
| RESOURCES, AND RADIO SYSTEM             |            |                |            |            |            |
| ELECTRONIC DEVICE HAVING A CELLULAR     | US         | 11/885,291     | 3/17/2005  | 9,402,272  | 7/26/2016  |
| COMMUNICATION MODE AND A RADIO          |            |                |            |            |            |
| COMMUNICATION MODE                      |            |                |            |            |            |
| INPUT DEVICE                            | US         | 11/317,673     | 12/22/2005 | 9,086,779  | 7/21/2015  |
| MOBILE COMMUNICATION TERMINAL           | US         | 11/071,503     | 3/3/2005   | 7,210,618  | 5/1/2007   |
| DETECTING PRESENCE/ABSENCE OF AN        | CN         | 200680034317.0 | 9/11/2006  |            |            |
| INFORMATION SIGNAL                      |            |                |            |            |            |
| MULTI-PART RADIO APPARATUS              | US         | 12/310,752     | 9/6/2006   | 9,531,057  | 12/27/2016 |
| MULTI-PART RADIO APPARATUS              | US         | 16/213,167     | 12/7/2018  | 10,601,114 | 3/24/2020  |
| TRANSACTION CONTROL ARRANGEMENT FOR     | US         | 11/011,575     | 12/14/2004 | 8,180,927  | 5/15/2012  |
| DEVICE MANAGEMENT SYSTEM                |            | 44/495 655     | 0/2/00:    | 0.510.555  | 40//0/27:7 |
| TRANSACTION CONTROL ARRANGEMENT FOR     | US         | 14/175,837     | 2/7/2014   | 9,519,508  | 12/13/2016 |
| DEVICE MANAGEMENT SYSTEM                |            | 44/400 000     | 4/7/0005   | 7 400 600  | 7/45/0555  |
| MOBILE COMMUNICATION TERMINAL           | US         | 11/100,832     | 4/7/2005   | 7,400,908  | 7/15/2008  |
| METHOD, APPARATUS AND COMPUTER          | US         | 11/182,934     | 7/14/2005  | 10,769,215 | 9/8/2020   |
| PROGRAM PRODUCT PROVIDING AN            |            |                |            |            |            |
| APPLICATION INTEGRATED MOBILE DEVICE    |            |                |            |            |            |
| SEARCH SOLUTION USING CONTEXT           |            |                |            |            |            |
| INFORMATION                             |            | 44/04 4 507    | 4/04/0005  | 0.004.400  | 7/47/0010  |
| CRADLE FOR MOBILE PHONES                | US         | 11/814,537     | 1/24/2005  | 8,224,408  | 7/17/2012  |
| SYSTEM AND METHOD FOR SEPARATING CODE   | US         | 11/113,561     | 4/25/2005  | 7,984,419  | 7/19/2011  |
| SHARING AND ACTIVE APPLICATIONS IN AN   |            |                |            |            |            |
| OSGI SERVICE PLATFORM                   | 110        | 44/000 000     | 0/40/2025  | 7 507 044  | 2/24/2000  |
| PORTABLE ELECTRONIC DEVICE              | US         | 11/230,069     | 9/19/2005  | 7,507,044  | 3/24/2009  |
| METHOD AND APPARATUS FOR PICTORIAL      | US         | 11/302,509     | 12/12/2005 | 8,571,320  | 10/29/2013 |
| IDENTIFICATION OF A COMMUNICATION EVENT |            |                |            |            |            |
|   | l          |                |            | l          |            |

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|--|------------|--------------------------|------------------------|--------------------------|------------------------|
| METHOD, DEVICE, AND SYSTEM FOR   | US         | 14/266,124               | 4/30/2014              | 9,509,996                | 11/29/2016             |
| MULTIPLEXING OF VIDEO STREAMS SYSTEM AND METHOD FOR ENABLING THE FAST EXTRACTION OF INTERLEAVED IMAGE                              | US         | 14/662,311               | 3/19/2015              | 9,619,414                | 4/11/2017              |
| TEXT ENTRY FOR ELECTRONIC DEVICES  | US         | 12/086,312               | 12/8/2005              | 8,428,359                | 4/23/2013              |
| TEXT ENTRY FOR ELECTRONIC DEVICES  | US         | 13/748,052               | 1/23/2013              | 9,360,955                | 6/7/2016               |
| TRANSPORT MECHANISMS FOR DYNAMIC RICH  | US         | 11/474,816               | 6/26/2006              | 8,239,558                | 8/7/2012               |
| MEDIA SCENES   |            |                          |                        |                          |                        |
| LIMITING ACCESS TO NETWORK FUNCTIONS<br>BASED ON PERSONAL CHARACTERISTICS OF<br>THE USER   | US         | 11/298,970               | 12/9/2005              | 7,991,895                | 8/2/2011               |
| METHOD OF CONTROLLING A MOBILE<br>TERMINAL, AND AN ASSOCIATED MOBILE<br>TERMINAL   | US         | 13/950,322               | 7/25/2013              | 9,357,351                | 5/31/2016              |
| METHOD OF CONTROLLING A MOBILE TERMINAL, AND AN ASSOCIATED MOBILE  | US         | 15/154,262               | 5/13/2016              | 10,716,115               | 7/14/2020              |
| TERMINAL ELECTRONIC DEVICE FOR IDENTIFYING A   | US         | 14/251,761               | 4/14/2014              | 9,083,786                | 7/14/2015              |
| PARTY  |            |                          |                        |                          |                        |
| APPARATUS, METHOD AND COMPUTER PROGRAM PRODUCT FOR GENERATING A THUMBNAIL REPRESENTATION OF A VIDEO SEQUENCE                       | US         | 11/328,617               | 1/10/2006              | 8,032,840                | 10/4/2011              |
| APPARATUS, METHOD AND COMPUTER PROGRAM PRODUCT FOR GENERATING A THUMBNAIL REPRESENTATION OF A VIDEO SEQUENCE                       | US         | 14/046,795               | 1/10/2006              | RE47421                  | 10/4/2011              |
| VIDEO IMPORTANCE RATING BASED ON<br>COMPRESSED DOMAIN VIDEO FEATURES   | US         | 11/476,114               | 6/28/2006              | 8,059,936                | 11/15/2011             |
| MOBILE COMMUNICATION TERMINAL AND METHOD THEREFORE   | US         | 15/094,237               | 4/8/2016               | 10,484,523               | 11/19/2019             |
| GROUP COMMUNICATION FOR A VARIETY OF MEDIA TYPES AND DEVICES   | US         | 11/362,941               | 2/28/2006              | 8,213,346                | 7/3/2012               |
| BRIDGING BETWEEN AD HOC LOCAL NETWORKS AND INTERNET-BASED PEER-TO- PEER NETWORKS   | US         | 11/438,950               | 5/23/2006              | 8,194,681                | 6/5/2012               |
| CHANGING GRAPHICS IN AN APPARATUS INCLUDING USER INTERFACE ILLUMINATION  | US         | 14/260,878               | 4/24/2014              | 9,140,843                | 9/22/2015              |
| MOBILE COMMUNICATION TERMINAL AND METHOD THEREFOR  | US         | 11/384,210               | 3/17/2006              | 10,521,022               | 12/31/2019             |
| VIDEO CODING   | US         | 13/951,069               | 7/25/2013              | 9.031.127                | 5/12/2015              |
| AUDIO ROUTING FOR AUDIO-VIDEO RECORDING  | US         | 11/612,057               | 12/18/2006             | 8,160,421                | 4/17/2012              |
| AUDIO ROUTING FOR AUDIO-VIDEO RECORDING  | US         | 16/223,867               | 12/18/2018             | 10,536,664               | 1/14/2020              |
| INTERNET KEY EXCHANGE PROTOCOL USING SECURITY ASSOCIATIONS   | US         | 13/933,543               | 7/2/2013               | 9,231,759                | 1/5/2016               |
| METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR PROVIDING CONFIRMED OVER-THE-AIR TERMINAL                                       | US         | 11/410,810               | 4/25/2006              | 8,437,751                | 5/7/2013               |
| CONFIGURATION  |            |                          |                        |                          |                        |
| BROADCAST CHANNEL IDENTIFICATION   | US         | 14/643,247               | 3/10/2015              | 9,425,911                | 8/23/2016              |
| BROADCAST CHANNEL IDENTIFICATION   | US         | 15/223,930               | 7/29/2016              | 10,419,142               | 9/17/2019              |
| GROUP COMMUNICATION  | US<br>US   | 11/528,759               | 9/28/2006              | 9,154,924                | 10/6/2015<br>3/17/2020 |
| PRECONFIGURED SYNCML PROFILE   | US         | 15/831,809<br>15/722,541 | 12/5/2017<br>10/2/2017 | 10,594,501<br>10,419,535 | 9/17/2019              |
| CATEGORIES METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT PROVIDING SOFT ITERATIVE RECURSIVE LEAST SQUARES (RLS) CHANNEL ESTIMATOR | US         | 13/292,540               | 11/9/2011              | 8,327,219                | 12/4/2012              |

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|---|------------|------------|------------|--------------|------------|
| METHOD, APPARATUS AND COMPUTER  | US         | 11/804,239 | 5/16/2007  | 8,060,803    | 11/15/2011 |
| PROGRAM PRODUCT PROVIDING SOFT  |            | 117001,200 | 07.1072007 | 0,000,000    |            |
| ITERATIVE RECURSIVE LEAST SQUARES (RLS)                                     |            |            |            |              |            |
| CHANNEL ESTIMATOR   |            |            |            |              |            |
| DYNAMIC SECONDARY PHONE BOOK  | US         | 15/083,138 | 3/28/2016  | 11,178,270   | 11/16/2021 |
| GAMING VIA PEER-TO-PEER NETWORKS  | US         | 16/225,634 | 12/19/2018 | 10,758,823   | 9/1/2020   |
| MOBILE COMMUNICATION TERMINAL AND   | US         | 11/548,443 | 10/11/2006 | 8,930,002    | 1/6/2015   |
| METHOD THEREFOR   |            |            |            |              |            |
| DATA VOLUME REPORTING FOR MULTIMEDIA<br>BROADCAST/MULTIMEDIA SERVICE GROUPS | US         | 11/656,644 | 1/23/2007  | 8,412,153    | 4/2/2013   |
|   |            |            |            |              |            |
| DATA VOLUME REPORTING FOR MULTIMEDIA<br>BROADCAST/MULTIMEDIA SERVICE GROUPS | US         | 13/849,049 | 3/22/2013  | 9,026,089    | 5/5/2015   |
| Method and System to Signal Network Information in TPS Bits                 | US         | 11/681,524 | 3/2/2007   | 9,294,208    | 3/22/2016  |
| METHOD FOR THE DELIVERY OF MESSAGES IN A COMMUNICATION SYSTEM               | US         | 11/604,842 | 11/28/2006 | 8,311,046    | 11/13/2012 |
| METHOD FOR DELIVERY OF MESSAGES IN A  | US         | 13/633,214 | 10/2/2012  | 9,609,088    | 3/28/2017  |
| COMMUNICATION SYSTEM  |            |            |            | -,,,,,,,,,,, | 2.23.2317  |
| METHOD, ELECTRONIC DEVICE, SYSTEM,  | US         | 16/357,761 | 3/19/2019  | 10,735,775   | 8/4/2020   |
| COMPUTER PROGRAM PRODUCT AND CIRCUIT  |            | ,          |            |              |            |
| ASSEMBLY FOR REDUCING ERROR IN VIDEO  |            |            |            |              |            |
| CODING  |            |            |            |              |            |
| METHOD, ELECTRONIC DEVICE, SYSTEM,  | US         | 16/379,347 | 4/9/2019   | 10,484,719   | 11/19/2019 |
| COMPUTER PROGRAM PRODUCT AND CIRCUIT  |            |            |            |              |            |
| ASSEMBLY FOR REDUCING ERROR IN VIDEO  |            |            |            |              |            |
| CODING  |            |            |            |              |            |
| ADAPTIVE SCHEME FOR LOWERING UPLINK   | US         | 11/906,324 | 10/1/2007  | 8,169,964    | 5/1/2012   |
| CONTROL OVERHEAD  |            |            |            |              |            |
| ADAPTIVE SCHEME FOR LOWERING UPLINK   | US         | 13/456,409 | 4/26/2012  | 8,570,975    | 10/29/2013 |
| CONTROL OVERHEAD  |            |            |            |              |            |
| ADAPTIVE SCHEME FOR LOWERING UPLINK   | US         | 14/050,925 | 10/10/2013 | 9,185,696    | 11/10/2015 |
| CONTROL OVERHEAD  |            |            |            |              |            |
| METHOD OF PROVIDING A MOBILITY SERVICE                                      | US         | 11/614,906 | 12/21/2006 | 8,412,207    | 4/2/2013   |
| METHOD OF PROVIDING A MOBILITY SERVICE                                      | US         | 14/538,092 | 11/11/2014 | 9,577,885    | 2/21/2017  |
| METHOD OF PROVIDING A MOBILITY SERVICE                                      | US         | 15/408,976 | 1/18/2017  | 9,801,111    | 10/25/2017 |
| LEGAL TEXT DISTRIBUTION AND PROCESSING IN MOBILE BROADCASTING               | US         | 11/555,061 | 10/31/2006 | 8,332,327    | 12/11/2012 |
| SYSTEM, METHOD, APPARATUS AND   | US         | 11/615,347 | 12/22/2006 | 9,378,002    | 6/28/2016  |
| COMPUTER PROGRAM PRODUCT FOR  |            |            |            |              |            |
| PROVIDING MEMORY FOOTPRINT REDUCTION  |            |            |            |              |            |
|   |            |            |            |              |            |
| HANDLING, MANAGEMENT AND CREATION OF  | US         | 12/004,773 | 12/20/2007 | 8,301,630    | 10/30/2012 |
| ICE CONTACTS  |            |            | ļ          |              |            |
| HANDLING, MANAGEMENT AND CREATION OF  | US         | 13/661,441 | 10/26/2012 | 8,775,430    | 7/8/2014   |
| ICE CONTACTS  |            |            |            |              |            |
| HANDLING, MANAGEMENT AND CREATION OF  | US         | 14/307,928 | 6/18/2014  | 9,218,112    | 12/22/2015 |
| ICE CONTACTS  |            | 45/000 070 | 0/4/0040   | 40.007.004   | 4/00/0000  |
| SYSTEM FOR USER-FRIENDLY ACCESS   | US         | 15/996,972 | 6/4/2018   | 10,637,661   | 4/28/2020  |
| CONTROL SETUP USING A PROTECTED SETUP                                       |            |            |            |              |            |
| EVETEM FOR LIGHT EDIENDLY ACCESS  | US         | 16/024 000 | 3/26/2020  | 11 152 004   | 10/10/2021 |
| SYSTEM FOR USER-FRIENDLY ACCESS CONTROL SETUP USING A PROTECTED SETUP       | 05         | 16/831,022 | 3/26/2020  | 11,153,081   | 10/19/2021 |
| METHOD, NETWORK SERVER AND COMPUTER   | US         | 11/647,421 | 12/29/2006 | 8,136,044    | 3/13/2012  |
| PROGRAM FOR DETERMINING   | ١          |            |            | -,,,,,,,     | J 5/25 12  |
| ADVERTISEMENT INFORMATION RELATING TO                                       |            |            | 1          |              |            |
| MAP INFORMATION   |            |            | 1          |              |            |
|   |            |            | •          | •            |            |

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| METHOD, APPARATUS, COMPUTER PROGRAM                           | US         | 11/977,644 | 10/24/2007 | 8,219,876  | 7/10/2012  |
| PRODUCT AND DEVICE PROVIDING SEMI-                            |            | ·          |            |            |            |
| PARALLEL LOW DENSITY PARITY CHECK                             |            |            |            |            |            |
| DECODING USING A BLOCK STRUCTURED                             |            |            |            |            |            |
| PARITY CHECK MATRIX   |            |            |            |            |            |
| METHOD, APPARATUS AND DEVICE PROVIDING                        | HK         | 14100396.4 | 10/24/2008 |            |            |
| SEMI-PARALLEL LOW DENSITY PARITY CHECK                        |            |            |            |            |            |
| DECODING USING A BLOCK STRUCTURED                             |            |            |            |            |            |
| PARITY CHECK MATRIX MODIFYING REMOTE SERVICE DISCOVERY        | US         | 11/801,300 | 5/9/2007   | 8,081,610  | 12/20/2011 |
| BASED ON PRESENCE   | 00         | 11/001,300 | 3/3/2007   | 0,001,010  | 12/20/2011 |
| MODIFYING REMOTE SERVICE DISCOVERY                            | US         | 13/312,100 | 12/6/2011  | 9,042,360  | 5/26/2015  |
| BASED ON PRESENCE   |            |            |            |            |            |
| SYSTEMS AND METHODS FOR FACILITATING                          | US         | 11/715,541 | 3/8/2007   | 8,285,266  | 10/9/2012  |
| IDENTIFICATION OF COMMUNICATION                               |            |            |            |            |            |
| ORIGINATORS   |            |            |            |            |            |
| SYSTEMS AND METHODS FOR FACILITATING                          | US         | 13/604,619 | 9/5/2012   | 9,026,096  | 5/5/2015   |
| IDENTIFICATION OF COMMUNICATION                               |            |            |            |            |            |
| ORIGINATORS   | US         | 45/700 470 | 10/10/2017 | 10 200 200 | E/20/2040  |
| METHOD, SYSTEM, MOBILE DEVICE, APPARATUS AND COMPUTER PROGRAM | 08         | 15/729,179 | 10/10/2017 | 10,306,280 | 5/28/2019  |
| PRODUCT FOR VALIDATING RIGHTS OBJECTS                         |            |            |            |            |            |
| PRODUCTTOR VALIDATING RIGHTS OBSECTS                          |            |            |            |            |            |
| METHOD, SYSTEM, MOBILE DEVICE,                                | US         | 16/380,461 | 4/10/2019  | 10,659,830 | 5/19/2020  |
| APPARATUS AND COMPUTER PROGRAM                                |            |            |            |            |            |
| PRODUCT FOR VALIDATING RIGHTS OBJECTS                         |            |            |            |            |            |
|   |            |            |            |            |            |
| ADAPTIVE INTERPOLATION FILTERS FOR                            | US         | 15/372,686 | 12/8/2016  | 10,506,252 | 12/10/2019 |
| VIDEO CODING  | 110        | 44/000 007 | 44/00/0040 | 0.440.000  | 0/05/0045  |
| METHODS, APPARATUSES AND COMPUTER                             | US         | 14/093,037 | 11/28/2013 | 9,118,399  | 8/25/2015  |
| PROGRAM PRODUCTS FOR CODE CORRELATION OF MULTI-PATH SPREAD    |            |            |            |            |            |
| SPECTRUM SIGNALS  |            |            |            |            |            |
| METHOD FOR PERFORMING HANDOVERS IN A                          | US         | 11/790,413 | 4/25/2007  | 7,970,402  | 6/28/2011  |
| COMMUNICATION SYSTEM  |            | ,          |            | ' '        |            |
| APPARATUS, COMPUTER PROGRAM PRODUCT,                          | US         | 12/531,393 | 3/14/2008  | 9,071,988  | 6/30/2015  |
| AND METHODS FOR FLEXIBLE DATA UNIT                            |            |            |            |            |            |
| SEGMENTATION AND ARRANGEMENT                                  |            |            |            |            |            |
| METHOD, APPARATUS AND COMPUTER                                | LIC        | 44/500 749 | 10/31/2014 | 0.454.005  | 9/20/2016  |
| PROGRAM PRODUCT FOR PROVIDING                                 | US         | 14/529,718 | 10/31/2014 | 9,451,265  | 9/20/2016  |
| IMPROVED DATA COMPRESSION                                     |            |            |            |            |            |
| TIME-INTERLEAVED SIMULCAST FOR TUNE-IN                        | US         | 11/758.613 | 6/5/2007   | 8,396,082  | 3/12/2013  |
| REDUCTION   |            | 11/700,010 | 37372337   | 0,000,002  | 0,12,2010  |
| HEADER TYPE NOTIFICATION FOR CO-                              | US         | 14/451,726 | 8/5/2014   | 9,491,739  | 11/8/2016  |
| EXISTENCE OF LEGACY HEADER AND NEW                            |            |            |            |            |            |
| HEADERS ON SAME RADIO LINK                                    |            |            |            |            |            |
| METHOD, APPARATUS AND COMPUTER                                | US         | 11/869,993 | 10/10/2007 | 10,291,724 | 5/14/2019  |
| PROGRAM PRODUCT FOR ENABLING ACCESS                           |            |            |            |            |            |
| TO A DYNAMIC ATTRIBUTE ASSOCIATED WITH                        |            |            |            |            |            |
| A SERVICE POINT METHOD, APPARATUS AND COMPUTER                | US         | 12/240,364 | 9/29/2008  | 8,085,714  | 12/27/2011 |
| PROGRAM PRODUCT FOR PRESERVING A                              | "          | 12/240,304 | 912912000  | 0,005,714  | 12/21/2011 |
| SIGNALLING CONNECTION   |            |            | 1          |            |            |
| INFORMATION DISTRIBUTION IN A DYNAMIC                         | US         | 11/848,739 | 8/31/2007  | 9,417,934  | 8/16/2016  |
| MULTI-DEVICE ENVIRONMENT                                      |            |            |            |            |            |
| METHODS, APPARATUS AND COMPUTER                               | US         | 11/960,407 | 12/19/2007 | 9,112,985  | 8/18/2015  |
| PROGRAM PRODUCT FOR ALTERING DEVICE                           |            |            | 1          |            |            |
| FUNCTIONALITY   |            |            |            |            |            |
| METHOD, APPARATUS AND COMPUTER                                | US         | 11/873,861 | 10/17/2007 | 8,116,386  | 2/14/2012  |
| PROGRAM PRODUCT FOR PROVIDING                                 |            |            | 1          |            |            |
| IMPROVED GRAY MAPPING   | l          |            | 1          |            |            |

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| Title   | Country ID | Serial #    | Filed Date | Patent #    | Issue Date |
|---|------------|-------------|------------|-------------|------------|
| METHOD, APPARATUS AND COMPUTER                                | US         | 13/347,962  | 1/11/2012  | 8,363,735   | 1/29/2013  |
| PROGRAM PRODUCT FOR PROVIDING                                 | 03         | 13/347,802  | 1/11/2012  | 0,303,733   | 1/29/2013  |
|   |            |             |            |             |            |
| IMPROVED GRAY MAPPING LAYER-1 SIGNALING OF TRAFFIC INDICATION | US         | 12/290,935  | 11/5/2008  | 9,204,388   | 12/1/2015  |
|   | 03         | 12/290,935  | 11/5/2006  | 9,204,300   | 12/1/2015  |
| FOR POWER SAVING CLASS OF TYPE I IN                           |            |             |            |             |            |
| WIMAX USER INTERFACE CONTROLLED BY                            | US         | 11/965,136  | 12/27/2007 | 8,370,755   | 2/5/2013   |
|   | 03         | 11/905,130  | 12/21/2007 | 0,370,733   | 2/5/2013   |
| ENVIRONMENTAL CUES MESSAGE TRANSMITTED AUTOMATICALLY IN       | US         | 12/215,634  | 6/27/2008  | 8,611,934   | 12/17/2013 |
|   | 03         | 12/215,634  | 6/2//2006  | 0,011,934   | 12/11/2013 |
| RESPONSE TO IMMINENT POWER SOURCE                             |            |             |            |             |            |
| DEPLETION OF MOBILE STATION                                   | US         | 44/002 005  | 11/27/2013 | 9,078,114   | 7/7/2015   |
| MESSAGE TRANSMITTED AUTOMATICALLY IN                          | 03         | 14/092,095  | 11/2//2013 | 9,076,114   | 1/1/2015   |
| RESPONSE TO IMMINENT POWER SOURCE                             |            |             |            |             |            |
| DEPLETION OF MOBILE STATION                                   | 110        | 40/044 700  | 2/4/2000   | 0.405.745   | 2/42/2042  |
| STORAGE MANAGEMENT  | US         | 12/041,798  | 3/4/2008   | 8,135,745   | 3/13/2012  |
| CONTINUOUS SCHEDULING FOR PEER-TO-                            | US         | 15/702,872  | 9/13/2017  | 10,609,136  | 3/31/2020  |
| PEER STREAMING  | 110        | 444400040   | 0/05/0044  | 0.005.005   | 5/40/0040  |
| SYSTEM AND METHOD FOR EXCERPT                                 | US         | 14/468,043  | 8/25/2014  | 9,335,965   | 5/10/2016  |
| CREATION BY DESIGNATING A TEXT SEGMENT                        |            |             |            |             |            |
| USING SPEECH  |            | 10/00       |            |             |            |
| METHOD AND APPARATUS FOR QUALITY                              | US         | 12/266,904  | 11/7/2008  | 8,799,259   | 8/5/2014   |
| RANKING OF MEDIA  |            |             |            |             |            |
| METHOD AND APPARATUS FOR QUALITY                              | US         | 14/335,832  | 7/18/2014  | 9,946,758   | 4/17/2018  |
| RANKING OF MEDIA  |            |             |            |             |            |
| METHOD, SYSTEM, AND APPARATUS FOR                             | US         | 12/231,454  | 9/3/2008   | 8,204,200   | 6/19/2012  |
| OVERRIDING A RING BACK SIGNAL                                 |            |             |            |             |            |
| APPARATUS, METHOD AND COMPUTER                                | US         | 14/734,725  | 6/9/2015   | 10,572,532  | 2/25/2020  |
| PROGRAM PRODUCT FOR FILTERING MEDIA                           |            |             |            |             |            |
| FILES   |            |             |            |             |            |
| METHOD, APPARATUS, AND COMPUTER                               | US         | 14/970,100  | 12/15/2015 | 10,715,529  | 7/14/2020  |
| PROGRAM PRODUCT FOR PRIVACY                                   |            |             |            |             |            |
| MANAGEMENT  |            |             |            |             |            |
| METHOD, APPARATUS AND COMPUTER                                | US         | 12/251,087  | 10/14/2008 | 8,396,303   | 3/12/2013  |
| PROGRAM PRODUCT FOR PROVIDING                                 |            |             |            |             |            |
| PATTERN DETECTION WITH UNKNOWN NOISE                          |            |             |            |             |            |
| LEVELS  |            |             |            |             |            |
| METHOD, APPARATUS AND COMPUTER                                | US         | 13/772,438  | 2/21/2013  | 9,025,889   | 5/5/2015   |
| PROGRAM PRODUCT FOR PROVIDING                                 |            | · ·         |            |             |            |
| PATTERN DETECTION WITH UNKNOWN NOISE                          |            |             |            |             |            |
| LEVELS  |            |             |            |             |            |
| INTEGRATED CIRCUIT PROTECTION LAYER                           | US         | 12/321,581  | 1/21/2009  | 9,461,006   | 10/4/2016  |
| USED IN A CAPACITIVE CAPACITY                                 |            |             |            | -,,         |            |
| MEMORY ALLOCATION TO STORE BROADCAST                          | US         | 12/234,336  | 9/19/2008  | 8,341,267   | 12/25/2012 |
| INFORMATION   |            | 12/20 1,000 | 07107200   | 0,0 , _ 0 . |            |
| MEMORY ALLOCATION TO STORE BROADCAST                          | US         | 13/692,851  | 12/3/2012  | 9,043,470   | 5/26/2015  |
| INFORMATION   |            |             |            | 5,5.5,0     | 5,25,25.5  |
| METHODS, APPARATUSES, AND COMPUTER                            | US         | 12/324,099  | 11/26/2008 | 8,407,401   | 3/26/2013  |
| PROGRAM PRODUCTS FOR ENHANCING                                | 55         | 12,024,000  | 1.725,2000 | 0,107,701   | 5,25,25,15 |
| MEMORY ERASE FUNCTIONALITY                                    |            |             |            |             |            |
| AUTOMATIC ZOOM FOR A DISPLAY                                  | US         | 12/493,449  | 6/29/2009  | 8,284,201   | 10/9/2012  |
| AUTOMATIC ZOOM FOR A DISPLAY                                  | US         | 13/617.928  | 9/14/2012  | 8,564,597   | 10/9/2012  |
| TEXT EDITING  | US         | 15/782,958  | 10/13/2017 | 10,671,811  | 6/2/2020   |
| A METHOD, APPARATUS AND COMPUTER                              | US         | 12/404,027  | 3/13/2009  | 8,209,426   | 6/26/2012  |
| PROGRAM FOR ENABLING ACCESS TO                                | 1          | 12,707,021  | 5/15/2008  | 0,200,420   | 3,20,2012  |
| CONTENT IN A NETWORK SERVICE                                  |            |             |            |             |            |
| METHOD, APPARATUS AND COMPUTER                                | US         | 13/525,132  | 6/15/2012  | 9,351,150   | 5/24/2016  |
|   | "          | 13/323,132  | 0/13/2012  | 9,551,150   | 3/24/2010  |
| PROGRAM METHOD, APPARATUS AND COMPUTER                        | US         | 15/133,067  | 4/19/2016  | 10,389,717  | 8/20/2040  |
|   | 08         | 15/133,06/  | 4/19/2016  | 10,309,717  | 8/20/2019  |
| PROGRAM   | 110        | 40/070 000  | 0/47/0000  | 0.440.074   | 0/40/0045  |
| METHOD AND APPARATUS FOR PROVIDING                            | US         | 12/372,620  | 2/17/2009  | 9,112,871   | 8/18/2015  |
| SHARED SERVICES   | 1.0        | 44/00 / 010 | 0/00/2000  | 0.400.040   | 0/0/2245   |
| REMOTE CONTROL FRAMEWORK                                      | US         | 11/994,016  | 6/29/2006  | 9,406,219   | 8/2/2016   |
| REMOTE CONTROL FRAMEWORK                                      | US         | 15/907,649  | 2/28/2018  | 10,607,479  | 3/31/2020  |
| REMOTE CONTROL FRAMEWORK                                      | HK         | 14113141.5  | 6/29/2006  | 1           | I          |

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| METHOD FOR REDUCING THE POWER CONSUMPTION OF A MOBILE DEVICE METHOD OF ENABLING A WIRELESS US 10/515,870 5/27/2003 8,331,952 12/11/2012 INFORMATION DEVICE TO ACCESS LOCATION DATA METHOD OF ENABLING A WIRELESS US 16/181,476 11/6/2018 10,798,869 10/6/2020 INFORMATION DEVICE TO ACCESS LOCATION DATA METHOD OF ENABLING A WIRELESS US 16/181,476 11/6/2018 10,798,869 10/6/2020 INFORMATION DEVICE TO ACCESS LOCATION DATA METHOD OF ENABLING A WIRELESS US 16/184,147 10/8/2018 10,568,021 2/18/2020 INFORMATION DEVICE TO ACCESS THE PRESENCE INFORMATION OF SEVERAL ENTITIES COMPUTING DEVICE WITH IMPROVED USER US 10/343,333 7/27/2001 8,434,020 4/30/2013 INTERFACE FOR APPLICATIONS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE US 15/903,855 2/23/2018 10,757,737 8/25/2020 HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE US 16/909,062 6/23/2020 11,153,918 10/19/2021 HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE US 16/909,062 6/23/2020 11,153,918 10/19/2021 HANDLING WITH AGGEGRATED COMPONENT CARRIERS METHOD AND APPARATUS FOR GUIDING WETHOD AND APPARATUS FOR CLASSIFYING US 15/873,300 1/17/2018 10,791,363 9/29/2020 METHOD AND APPARATUS FOR CLASSIFYING US 11/487,438 6/18/2009 9,514,472 12/6/2016 CONTENT METHOD AND APPARATUS FOR SUGGESTING US 11/487,438 6/18/2009 8,785,2009 7/15/2014 DATA FOR DECENTON TO THE TOTAL TOTA | Title                                 | Country ID | Serial #     | Filed Date | Patent #   | Issue Date |
|--|---------------------------------------|------------|--------------|------------|------------|------------|
| CONSUMPTION OF A MOBILE DEVICE WETHOUS OF ENABLING A WIRELESS INFORMATION DEVICE TO ACCESS LOCATION DATA METHOD OF ENABLING A WIRELESS US 16/15,870 5/27/2003 8,331,952 12/11/2012 INFORMATION DEVICE TO ACCESS LOCATION DATA METHOD OF ENABLING A WIRELESS US 16/154,147 11/6/2018 10,798,869 10/6/2020 INFORMATION DEVICE TO ACCESS LOCATION DATA METHOD OF ENABLING A WIRELESS US 16/154,147 10/6/2018 10,568,021 2/18/2020 INFORMATION DEVICE TO ACCESS THE PRESENCE INFORMATION OF SEVERAL ENTITIES COMPUTING DEVICE TO ACCESS THE PRESENCE INFORMATION OF SEVERAL ENTITIES COMPUTING DEVICE OF ACCESS CHAINER RESPONSE US 10/343,333 7/27/2001 8,434,020 4/30/2013 INTERFACE FOR APPLICATIONS INTERFACE FOR APPLICATIONS INTERFACE FOR APPLICATIONS AND ACCESS CHAINER RESPONSE US 12/384,950 4/10/2009 8,077,670 12/13/2011 CARRIERS RANDOM ACCESS CHAINER RESPONSE US 13/248,579 9/29/2011 9,253,797 2/2/2016 HANDLING WITH AGGEGATED COMPONENT CARRIERS RANDOM ACCESS CHAINER RESPONSE US 14/976,154 12/21/2015 9,930,697 3/27/2018 HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHAINER RESPONSE US 14/976,154 12/21/2015 9,930,697 3/27/2018 HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHAINER RESPONSE US 15/903,855 2/23/2018 10,757,737 8/25/2020 HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHAINER RESPONSE US 16/909,082 6/23/2020 11,153,918 10/19/2021 HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHAINER RESPONSE US 16/909,082 6/23/2020 11,153,918 10/19/2021 HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHAINER RESPONSE US 16/909,082 6/23/2009 11,153,918 10/19/2021 HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHAINER RESPONSE US 16/909,082 6/23/2009 11,153,918 10/19/2021 HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHAINER RESPONSE US 16/909,082 6/23/2009 9,514,472 12/6/2019 MEDIA ON DAPPARATUS FOR CONFIGURING US 15/873,300 1/17/2018 10,791,363 9/29/2020 PRESENTATION OF SERVICE GUIDES US 15/873,300 1/17/2018 10,791,363 9/29/2020 PRESENTATION OF SERVICE GUIDES US 12/489, | METHOD FOR REDUCING THE POWER         | US         | 16/154 003   | 10/8/2018  | 10 542 494 | 1/21/2020  |
| METHOD OF ENABLING A WIRELESS   US   |                                       | "          | 10/104,000   | 10/0/2010  | 10,042,404 | 172172020  |
| INFORMATION DEVICE TO ACCESS LOCATION DATA   DATA  |                                       | US         | 10/515 870   | 5/27/2003  | 8 331 952  | 12/11/2012 |
| DATA   METHOD OF ENABLING A WIRELESS   US   16/181,476   11/6/2018   10,798,669   10/6/2020   INFORMATION DEVICE TO ACCESS LOCATION DATA   10/6/2018   10,798,669   10/6/2020   INFORMATION DEVICE TO ACCESS THE PRESENCE INFORMATION OF SEVERAL ENTITIES   US   16/154,147   10/8/2018   10,568,021   2/18/2020   INFORMATION DEVICE TO ACCESS THE PRESENCE INFORMATION OF SEVERAL ENTITIES   US   10/343,333   7/27/2001   8,434,020   4/30/2013   INTERFACE FOR APPLICATIONS   US   12/384,950   4/10/2009   8,077,670   12/13/2011   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   US   13/248,579   9/29/2011   9,253,797   2/2/2016   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   US   14/976,154   12/21/2015   9,930,697   3/27/2018   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   RANDOM ACCESS CHANNEL RESPONSE   US   14/976,154   12/21/2015   9,930,697   3/27/2018   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   RANDOM ACCESS CHANNEL RESPONSE   US   14/976,154   12/21/2015   9,930,697   3/27/2018   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   RANDOM ACCESS CHANNEL RESPONSE   US   15/903,855   2/23/2018   10,757,737   8/25/2020   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   RANDOM ACCESS CHANNEL RESPONSE   US   16/909,062   6/23/2020   11,153,918   10/19/2021   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   RANDOM ACCESS CHANNEL RESPONSE   US   16/909,062   6/23/2020   11,153,918   10/19/2021   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   WITHOUT CARRIERS   WITHOUT CARRIERS   WITH AGGEGRATED COMPONENT CARRIERS   WITHOUT    |                                       | "          | 10,010,010   | 0,2,,,2000 | 0,001,002  | 12/11/2012 |
| METHOD OF ENABLING A WIRELESS   US   |                                       |            |              |            |            |            |
| INFORMATION DEVICE TO ACCESS LOCATION   DATA   |                                       | US         | 16/181 476   | 11/6/2018  | 10 798 669 | 10/6/2020  |
| DATA   METHOD OF ENABLING A WIRELESS   INFORMATION DEVICE TO ACCESS THE PRESENCE INFORMATION DEVICE TO ACCESS THE PRESENCE INFORMATION OF SEVERAL ENTITIES   INFORMATION OF SERVICE GUIDES   INFORMATION OF SERVICE    |                                       | "          | 10, 101, 170 | 11/0/2010  | 10,700,000 | 10/0/2020  |
| METHOD OF ENABLING A WIRELESS   US   |                                       |            |              |            |            |            |
| INFORMATION DEVICE TO ACCESS THE   PRESENCE INFORMATION OF SEVERAL ENTITIES   COMPUTING DEVICE WITH IMPROVED USER INTERFACE FOR APPLICATIONS   RANDOM ACCESS CHANNEL RESPONSE   US   10/343,333   7/27/2001   8,434,020   4/30/2013   1/13/2011   1/21/2015   1/21/2015   1/21/2015   1/21/2015   1/21/2018   1/21/2015   1/21/2015   1/21/2015   1/21/2018   1/21/2015   1/21/2015   1/21/2015   1/21/2016   1/21/2015   1/21/2015   1/21/2016   1/21/2015   1/21/2015   1/21/2016   1/21/2015   1/21/2015   1/21/2016   1/21/2015   1/21/2016   1/21/2015   1/21/2015   1/21/2016   1/21/2016   1/21/2016   1/21/2016   1/21/2016   1/21/2016   1/21/2016   1/21/2016   1/21/2016   1/21/2016   1/21/2016   1/21/2016   1/21/2016   1/21/2016   1/21/2012   1/21/2015   1/   |                                       | LIS        | 16/154 147   | 10/8/2018  | 10 568 021 | 2/18/2020  |
| PRESENCE INFORMATION OF SEVERAL ENTITIES   |                                       | "          | 10/104,147   | 10/0/2010  | 10,000,021 | 2/10/2020  |
| ENTITIES   |                                       |            |              |            |            |            |
| COMPUTING DEVICE WITH IMRPOVED USER   US   |                                       |            |              |            |            |            |
| INTERFACE FOR APPLICATIONS   RANDOM ACCESS CHANNEL RESPONSE   US   12/384,950   4/10/2009   8,077,670   12/13/2011   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   US   13/248,579   9/29/2011   9,253,797   2/2/2016   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   US   13/248,579   9/29/2011   9,253,797   2/2/2016   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   US   14/976,154   12/21/2015   9,930,697   3/27/2018   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   US   15/903,855   2/23/2018   10,757,737   8/25/2020   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   US   15/903,855   2/23/2018   10,757,737   8/25/2020   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   US   16/909,062   6/23/2020   11,153,918   10/19/2021   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   US   16/909,062   6/23/2020   11,153,918   10/19/2021   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   US   16/909,062   6/23/2020   11,153,918   10/19/2021   HANDLING WITH AGGEGRATED COMPONENT CARRIERS   US   16/416,026   8/29/2018   10,298,838   5/21/2019   METHOD AND APPARATUS FOR GUIDING   US   15/873,300   1/17/2018   10,791,363   9/29/2020   PRESENTATION OF SERVICE GUIDES   US   12/487,438   6/18/2009   9,514,472   12/6/2016   CONTENT   METHOD AND APPARATUS FOR A KEEP ALIVE   US   12/489,985   6/23/2009   8,065,419   11/22/2011   PROBE SERVICE   METHOD AND APPARATUS FOR ROVIDING   US   13/728,742   12/27/2012   10,608,884   3/31/2020   DEVICE COMPATIBILITY INFORMATION   US   13/728,742   12/27/2012   10,608,884   3/31/2020   DEVICE COMPATIBILITY INFORMATION   US   13/631,684   12/4/2009   8,782,309   7/15/2014   DATA FOR DELETION   METHOD AND APPARATUS FOR SUGGESTING   US   15/844,908   12/18/2017   10,642,754   5/5/2020   DATA FOR DELETION   METHOD AND APPARATUS FOR CUSTOMIZING   HK   14/102276.5   11/18/2011   |                                       | 110        | 10/2/2 222   | 7/27/2001  | 8 434 020  | 4/30/2013  |
| RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGREGATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS METHOD AND APPARATUS FOR GUIDING MEDIA CAPTURE METHOD AND APPARATUS FOR CONFIGURING PRESENTATION OF SERVICE GUIDES  METHOD AND APPARATUS FOR CLASSIFYING CONTENT METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE METHOD AND APPARATUS FOR ROVIDING METHOD AND APPARATUS FOR ROVIDING METHOD AND APPARATUS FOR REPAILVE METHOD AND APPARATUS FOR ROVIDING METHOD AND APPARATUS FOR SUGGESTING DEVICE COMPATIBILITY INFORMATION METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION METHOD AND APPARATUS FOR CUSTOMIZING HK 14102276.5  METHOD AND APPARATUS FOR CUSTOMIZING HK 14102276.5  METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION METHOD AND APPARATUS FOR CUSTOMIZING HK 14102276.5  |                                       |            | 10/343,333   | 1/21/2001  | 0,434,020  | 4/30/2013  |
| HANDLING WITH AGGREGATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS METHOD AND APPARATUS FOR GUIDING WETH AGGEGRATED COMPONENT CARRIERS METHOD AND APPARATUS FOR CONFIGURING PRESENTATION OF SERVICE GUIDES  METHOD AND APPARATUS FOR CLASSIFYING CONTENT METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE METHOD AND APPARATUS FOR REPOVIDING METHOD AND APPARATUS FOR REPOVIDING METHOD AND APPARATUS FOR REPOVIDING METHOD AND APPARATUS FOR SUGGESTING DEVICE COMPARTIBILITY INFORMATION METHOD AND APPARATUS FOR SUGGESTING DEVICE COMPARTING FOR SUGGESTING DATA FOR DELETION METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION METHOD AND APPARATUS FOR CUSTOMIZING HK 14102276.5  11/18/2011  |                                       | 110        | 12/38/ 050   | 4/10/2000  | 9 077 670  | 12/12/2011 |
| CARRIERS         RANDOM ACCESS CHANNEL RESPONSE         US         13/248,579         9/29/2011         9,253,797         2/2/2016           HANDLING WITH AGGEGRATED COMPONENT CARRIERS         US         14/976,154         12/21/2015         9,930,697         3/27/2018           RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS         US         15/903,855         2/23/2018         10,757,737         8/25/2020           HANDLING WITH AGGEGRATED COMPONENT CARRIERS         US         16/909,062         6/23/2020         11,153,918         10/19/2021           HANDLING WITH AGGEGRATED COMPONENT CARRIERS         US         16/909,062         6/23/2020         11,153,918         10/19/2021           HANDLING WITH AGGEGRATED COMPONENT CARRIERS         US         16/909,062         6/23/2020         11,153,918         10/19/2021           HANDLING WITH AGGEGRATED COMPONENT CARRIERS         US         16/909,062         6/23/2020         11,153,918         10/19/2021           METHOD AND APPARATUS FOR GUIDING         US         16/116,026         8/29/2018         10,298,838         5/21/2019           METHOD AND APPARATUS FOR CLASSIFYING CONTENT         US         15/873,300         1/17/2018         10,791,363         9/29/2020           METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE         US         12/487,4  |                                       | 00         | 12/304,930   | 4/10/2009  | 0,077,070  | 12/13/2011 |
| RANDOM ACCESS CHANNEL RESPONSE   US   13/248,579   9/29/2011   9,253,797   2/2/2016  |                                       |            |              |            |            |            |
| HANDLING WITH AGGEGRATED COMPONENT CARRIERS  | DANDOM A COESC CHANNEL DECDONSE       | 110        | 42/240 570   | 0/20/2044  | 0.050.707  | 2/2/2046   |
| CARRIERS         US         14/976,154         12/21/2015         9,930,697         3/27/2018           HANDLING WITH AGGEGRATED COMPONENT CARRIERS         US         15/903,855         2/23/2018         10,757,737         8/25/2020           RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS         US         16/909,062         6/23/2020         11,153,918         10/19/2021           RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS         US         16/909,062         6/23/2020         11,153,918         10/19/2021           METHOD AND APPARATUS FOR GUIDING METHOD AND APPARATUS FOR GUIDING METHOD AND APPARATUS FOR CONFIGURING PRESENTATION OF SERVICE GUIDES         US         15/873,300         1/17/2018         10,791,363         9/29/2020           METHOD AND APPARATUS FOR CLASSIFYING CONTENT         US         12/487,438         6/18/2009         9,514,472         12/6/2016           METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE         US         12/489,985         6/23/2009         8,065,419         11/22/2011           METHOD AND APPARATUS FOR PROVIDING DEVICE COMPATIBILITY INFORMATION METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754  |                                       | 05         | 13/240,5/9   | 9/29/2011  | 9,253,797  | 2/2/2016   |
| RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS METHOD AND APPARATUS FOR GUIDING MEDIA CAPTURE METHOD AND APPARATUS FOR CONFIGURING PRESENTATION OF SERVICE GUIDES  METHOD AND APPARATUS FOR CLASSIFYING CONTENT METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE METHOD AND APPARATUS FOR PROVIDING METHOD AND APPARATUS FOR PROVIDING DEVICE COMPATIBILITY INFORMATION METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION METHOD AND APPARATUS FOR CUSTOMIZING METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION METHOD AND APPARATUS FOR CUSTOMIZING METHOD AND APPARATUS FOR CUSTOMIZING METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION METHOD AND APPARATUS FOR CUSTOMIZING METHOD AND APPARATUS FOR CUST |                                       |            |              |            |            |            |
| HANDLING WITH AGGEGRATED COMPONENT CARRIERS  |                                       |            |              | 10/01/00/5 |            | 0.000.00   |
| CARRIERS         CARRIERS         US         15/903,855         2/23/2018         10,757,737         8/25/2020           HANDLING WITH AGGEGRATED COMPONENT CARRIERS         US         16/909,062         6/23/2020         11,153,918         10/19/2021           RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS         US         16/909,062         6/23/2020         11,153,918         10/19/2021           METHOD AND APPARATUS FOR GUIDING MEDIA CAPTURE         US         16/116,026         8/29/2018         10,298,838         5/21/2019           METHOD AND APPARATUS FOR CONFIGURING PRESENTATION OF SERVICE GUIDES         US         15/873,300         1/17/2018         10,791,363         9/29/2020           METHOD AND APPARATUS FOR CLASSIFYING CONTENT         US         12/487,438         6/18/2009         9,514,472         12/6/2016           METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE         US         12/489,985         6/23/2009         8,065,419         11/22/2011           METHOD AND APPARATUS FOR PROVIDING DEVICE COMPATIBILITY INFORMATION         US         13/728,742         12/27/2012         10,608,884         3/31/2020           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           METHOD AND APPARATUS FOR CUSTOMIZING <td></td> <td>l us l</td> <td>14/9/6,154</td> <td>12/21/2015</td> <td>9,930,697</td> <td>3/27/2018</td>   |                                       | l us l     | 14/9/6,154   | 12/21/2015 | 9,930,697  | 3/27/2018  |
| RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS  METHOD AND APPARATUS FOR GUIDING METHOD AND APPARATUS FOR CLASSIFYING CONTENT METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE METHOD AND APPARATUS FOR PROVIDING METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION METHOD AND APPARATUS FOR SUGGESTING METHOD AND APPARATUS FOR CUSTOMIZING METHOD AND APPARATUS FOR CUSTOMIZING METHOD AND APPARATUS FOR CUSTOMIZING  METHOD AND  |                                       |            |              |            |            |            |
| HANDLING WITH AGGEGRATED COMPONENT CARRIERS   US   16/909,062   6/23/2020   11,153,918   10/19/2021   10/19/2021   11/153,918   10/19/2021   11/153,918   10/19/2021   11/153,918   10/19/2021   11/153,918   10/19/2021   11/153,918   10/19/2021   11/153,918   10/19/2021   11/153,918   10/19/2021   10/19   |                                       |            |              |            |            |            |
| CARRIERS         CARRIERS         US         16/909,062         6/23/2020         11,153,918         10/19/2021           RANDOM ACCESS CHANNEL RESPONSE<br>HANDLING WITH AGGEGRATED COMPONENT<br>CARRIERS         US         16/909,062         6/23/2020         11,153,918         10/19/2021           METHOD AND APPARATUS FOR GUIDING<br>METHOD AND APPARATUS FOR CONFIGURING<br>PRESENTATION OF SERVICE GUIDES         US         15/873,300         1/17/2018         10,791,363         9/29/2020           METHOD AND APPARATUS FOR CLASSIFYING<br>CONTENT<br>METHOD AND APPARATUS FOR A KEEP ALIVE<br>PROBE SERVICE         US         12/487,438         6/18/2009         9,514,472         12/6/2016           METHOD AND APPARATUS FOR A KEEP ALIVE<br>PROBE SERVICE         US         12/489,985         6/23/2009         8,065,419         11/22/2011           METHOD AND APPARATUS FOR PROVIDING<br>DEVICE COMPATIBILITY INFORMATION         US         13/728,742         12/27/2012         10,608,884         3/31/2020           METHOD AND APPARATUS FOR SUGGESTING<br>DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011  |                                       | l US       | 15/903,855   | 2/23/2018  | 10,757,737 | 8/25/2020  |
| RANDOM ACCESS CHANNEL RESPONSE HANDLING WITH AGGEGRATED COMPONENT CARRIERS METHOD AND APPARATUS FOR GUIDING MEDIA CAPTURE METHOD AND APPARATUS FOR CONFIGURING PRESENTATION OF SERVICE GUIDES  METHOD AND APPARATUS FOR CLASSIFYING CONTENT METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE METHOD AND APPARATUS FOR PROVIDING DEVICE COMPATIBILITY INFORMATION METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION METHOD AND APPARATUS FOR SUGGESTING METHOD AND APPARATUS FOR CUSTOMIZING  |                                       |            |              |            |            |            |
| HANDLING WITH AGGEGRATED COMPONENT CARRIERS  |                                       |            |              |            |            |            |
| CARRIERS         METHOD AND APPARATUS FOR GUIDING         US         16/116,026         8/29/2018         10,298,838         5/21/2019           MEDIA CAPTURE         METHOD AND APPARATUS FOR CONFIGURING PRESENTATION OF SERVICE GUIDES         US         15/873,300         1/17/2018         10,791,363         9/29/2020           METHOD AND APPARATUS FOR CLASSIFYING CONTENT         US         12/487,438         6/18/2009         9,514,472         12/6/2016           METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE         US         12/489,985         6/23/2009         8,065,419         11/22/2011           METHOD AND APPARATUS FOR PROVIDING DEVICE COMPATIBILITY INFORMATION         US         13/728,742         12/27/2012         10,608,884         3/31/2020           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         METHOD AND APPARATUS FOR CUSTOMIZING         HK         14/102276.5         11/18/2011  |                                       | US         | 16/909,062   | 6/23/2020  | 11,153,918 | 10/19/2021 |
| METHOD AND APPARATUS FOR GUIDING         US         16/116,026         8/29/2018         10,298,838         5/21/2019           MEDIA CAPTURE         METHOD AND APPARATUS FOR CONFIGURING PRESENTATION OF SERVICE GUIDES         US         15/873,300         1/17/2018         10,791,363         9/29/2020           METHOD AND APPARATUS FOR CLASSIFYING CONTENT         US         12/487,438         6/18/2009         9,514,472         12/6/2016           METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE         US         12/489,985         6/23/2009         8,065,419         11/22/2011           METHOD AND APPARATUS FOR PROVIDING DEVICE COMPATIBILITY INFORMATION         US         13/728,742         12/27/2012         10,608,884         3/31/2020           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011  | HANDLING WITH AGGEGRATED COMPONENT    |            |              |            |            |            |
| MEDIA CAPTURE         METHOD AND APPARATUS FOR CONFIGURING PRESENTATION OF SERVICE GUIDES         US         15/873,300         1/17/2018         10,791,363         9/29/2020           METHOD AND APPARATUS FOR CLASSIFYING CONTENT         US         12/487,438         6/18/2009         9,514,472         12/6/2016           METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE         US         12/489,985         6/23/2009         8,065,419         11/22/2011           METHOD AND APPARATUS FOR PROVIDING DEVICE COMPATIBILITY INFORMATION         US         13/728,742         12/27/2012         10,608,884         3/31/2020           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011         11/18/2011   |                                       |            |              |            |            |            |
| METHOD AND APPARATUS FOR CONFIGURING PRESENTATION OF SERVICE GUIDES         US         15/873,300         1/17/2018         10,791,363         9/29/2020           METHOD AND APPARATUS FOR CLASSIFYING CONTENT         US         12/487,438         6/18/2009         9,514,472         12/6/2016           METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE         US         12/489,985         6/23/2009         8,065,419         11/22/2011           METHOD AND APPARATUS FOR PROVIDING DEVICE COMPATIBILITY INFORMATION         US         13/728,742         12/27/2012         10,608,884         3/31/2020           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011         11/18/2011   | METHOD AND APPARATUS FOR GUIDING      | US         | 16/116,026   | 8/29/2018  | 10,298,838 | 5/21/2019  |
| PRESENTATION OF SERVICE GUIDES         US         12/487,438         6/18/2009         9,514,472         12/6/2016           METHOD AND APPARATUS FOR A KEEP ALIVE PROBE SERVICE         US         12/489,985         6/23/2009         8,065,419         11/22/2011           METHOD AND APPARATUS FOR PROVIDING DEVICE COMPATIBILITY INFORMATION         US         13/728,742         12/27/2012         10,608,884         3/31/2020           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         HK         14102276.5         11/18/2011         11/18/2011   | MEDIA CAPTURE                         |            |              |            |            |            |
| METHOD AND APPARATUS FOR CLASSIFYING         US         12/487,438         6/18/2009         9,514,472         12/6/2016           CONTENT         METHOD AND APPARATUS FOR A KEEP ALIVE         US         12/489,985         6/23/2009         8,065,419         11/22/2011           PROBE SERVICE         METHOD AND APPARATUS FOR PROVIDING         US         13/728,742         12/27/2012         10,608,884         3/31/2020           DEVICE COMPATIBILITY INFORMATION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011   | METHOD AND APPARATUS FOR CONFIGURING  | US         | 15/873,300   | 1/17/2018  | 10,791,363 | 9/29/2020  |
| CONTENT         METHOD AND APPARATUS FOR A KEEP ALIVE         US         12/489,985         6/23/2009         8,065,419         11/22/2011           PROBE SERVICE         METHOD AND APPARATUS FOR PROVIDING         US         13/728,742         12/27/2012         10,608,884         3/31/2020           DEVICE COMPATIBILITY INFORMATION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011  | PRESENTATION OF SERVICE GUIDES        |            |              |            |            |            |
| CONTENT         METHOD AND APPARATUS FOR A KEEP ALIVE         US         12/489,985         6/23/2009         8,065,419         11/22/2011           PROBE SERVICE         METHOD AND APPARATUS FOR PROVIDING         US         13/728,742         12/27/2012         10,608,884         3/31/2020           DEVICE COMPATIBILITY INFORMATION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011  |                                       |            |              |            |            |            |
| METHOD AND APPARATUS FOR A KEEP ALIVE         US         12/489,985         6/23/2009         8,065,419         11/22/2011           PROBE SERVICE         METHOD AND APPARATUS FOR PROVIDING         US         13/728,742         12/27/2012         10,608,884         3/31/2020           DEVICE COMPATIBILITY INFORMATION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011  | METHOD AND APPARATUS FOR CLASSIFYING  | US         | 12/487,438   | 6/18/2009  | 9,514,472  | 12/6/2016  |
| PROBE SERVICE         METHOD AND APPARATUS FOR PROVIDING         US         13/728,742         12/27/2012         10,608,884         3/31/2020           DEVICE COMPATIBILITY INFORMATION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011   | CONTENT                               |            |              |            |            |            |
| PROBE SERVICE         METHOD AND APPARATUS FOR PROVIDING         US         13/728,742         12/27/2012         10,608,884         3/31/2020           DEVICE COMPATIBILITY INFORMATION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011   | METHOD AND APPARATUS FOR A KEEP ALIVE | US         | 12/489,985   | 6/23/2009  | 8,065,419  | 11/22/2011 |
| METHOD AND APPARATUS FOR PROVIDING         US         13/728,742         12/27/2012         10,608,884         3/31/2020           DEVICE COMPATIBILITY INFORMATION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011   |                                       |            | •            |            | ' '        |            |
| DEVICE COMPATIBILITY INFORMATION         US         12/631,684         12/4/2009         8,782,309         7/15/2014           METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011  |                                       | US         | 13/728,742   | 12/27/2012 | 10,608,884 | 3/31/2020  |
| METHOD AND APPARATUS FOR SUGGESTING         US         12/631,684         12/4/2009         8,782,309         7/15/2014           DATA FOR DELETION         METHOD AND APPARATUS FOR SUGGESTING DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011         11/18/2011  |                                       |            | •            |            | ' '        |            |
| DATA FOR DELETION         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011   |                                       | US         | 12/631.684   | 12/4/2009  | 8,782.309  | 7/15/2014  |
| METHOD AND APPARATUS FOR SUGGESTING         US         15/844,908         12/18/2017         10,642,754         5/5/2020           DATA FOR DELETION         METHOD AND APPARATUS FOR CUSTOMIZING         HK         14102276.5         11/18/2011   |                                       |            | -,           |            | ' -,       |            |
| DATA FOR DELETION  METHOD AND APPARATUS FOR CUSTOMIZING HK 14102276.5 11/18/2011   |                                       | US         | 15/844.908   | 12/18/2017 | 10.642.754 | 5/5/2020   |
| METHOD AND APPARATUS FOR CUSTOMIZING HK 14102276.5 11/18/2011  |                                       |            |              |            | ,,-        |            |
|  |                                       | HK         | 14102276 5   | 11/18/2011 |            |            |
|  | DEVICE CONTENT                        | '"`        |              |            |            |            |

**PATENT REEL: 063507 FRAME: 0916 RECORDED: 05/02/2023**