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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
|--------------------------------------|

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3688623

|                              |                |
|------------------------------|----------------|
| <b>SUBMISSION TYPE:</b>      | NEW ASSIGNMENT |
| <b>NATURE OF CONVEYANCE:</b> | ASSIGNMENT     |

**CONVEYING PARTY DATA**

| Name   | Execution Date |
|--|----------------|
| PANASONIC CORPORATION                                  | 12/03/2015     |
| PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA | 12/02/2015     |
| PANASONIC SYSTEM NETWORKS CORPORATION                  | 12/04/2015     |

**RECEIVING PARTY DATA**

|                          |   |
|--------------------------|---|
| <b>Name:</b>             | GRAND MESA, SERIES 57 OF THE ALLIED SECURITY TRUST I  |
| <b>Street Address:</b>   | ATTENTION: JAKE HANDY                                 |
| <b>Internal Address:</b> | FENWICK & WEST LLP, 555 CALIFORNIA STREET, 12TH FLOOR |
| <b>City:</b>             | SAN FRANCISCO   |
| <b>State/Country:</b>    | CALIFORNIA  |
| <b>Postal Code:</b>      | 94104   |

**PROPERTY NUMBERS Total: 34**

| Property Type       | Number   |
|---------------------|----------|
| Patent Number:      | 6577686  |
| Patent Number:      | 6577715  |
| Patent Number:      | 6597292  |
| Patent Number:      | 6604218  |
| Patent Number:      | 6661783  |
| Patent Number:      | 6677905  |
| Patent Number:      | 6684086  |
| Patent Number:      | 6687343  |
| Patent Number:      | 6700921  |
| Patent Number:      | 6721367  |
| Patent Number:      | 6768460  |
| Patent Number:      | 6785230  |
| Application Number: | 10787536 |
| Patent Number:      | 7058041  |
| Patent Number:      | 6952413  |
| Patent Number:      | 7046656  |
| Application Number: | 10869102 |

PATENT

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 10787242 |
| Patent Number:      | 7020105  |
| Application Number: | 10814784 |
| Patent Number:      | 7123618  |
| Patent Number:      | 7154961  |
| Patent Number:      | 7567622  |
| Application Number: | 12490096 |
| Patent Number:      | 8325845  |
| Patent Number:      | 7369621  |
| Patent Number:      | 7502593  |
| Patent Number:      | 7529567  |
| Patent Number:      | 7593516  |
| Patent Number:      | 7797011  |
| Patent Number:      | 7848459  |
| Patent Number:      | 8145128  |
| Patent Number:      | 8195175  |
| Patent Number:      | 8331395  |

**CORRESPONDENCE DATA**

Fax Number: (732)908-1027

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

Phone: 7328891500

Email: mlgdocketing@mlgiplaw.com

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Address Line 2: SUITE 200N

Address Line 4: TINTON FALLS, NEW JERSEY 07724

|                         |                    |
|-------------------------|--------------------|
| ATTORNEY DOCKET NUMBER: | S57L5430           |
| NAME OF SUBMITTER:      | MELISSA SCHRADER   |
| SIGNATURE:              | /Melissa Schrader/ |
| DATE SIGNED:            | 01/10/2016         |

**Total Attachments: 17**

- source=Panasonic to Grand Mesa Assignment#page1.tif
- source=Panasonic to Grand Mesa Assignment#page2.tif
- source=Panasonic to Grand Mesa Assignment#page3.tif
- source=Panasonic to Grand Mesa Assignment#page4.tif
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**Appendix B -- Transfer Documents**

Panasonic Corporation, a Japanese corporation having its principal place of business at 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501, Japan and Panasonic Intellectual Property Corporation of America, a Delaware corporation with its principal place of business at 20000 Mariner Avenue Suite 200, Torrance, CA 90503, USA and Panasonic System Networks Corporation, a Japanese corporation having its principal place of business at 8-21-1, Ginza, Chuo-ku, Tokyo 104-0061, Japan (the "PSN") (collectively, "Assignors"), hereby irrevocably assigns to Grand Mesa, Series 57 of the Allied Security Trust I, a Delaware statutory trust with an address at Attention: Jake Handy, Fenwick & West LLP, 555 California St, 12th Floor, San Francisco, California, 94104, U.S.A. ("Assignee"), as of the date set forth below, the entire Assignor's right, title, and interest in and to all patents as listed in Appendix A, and any patents or patent applications subject to any terminal disclaimer with regard to such patents and/or patent applications, and all causes of action, rights, and remedies arising under any such Patent Assets prior to, on or after the Effective Date of this Agreement and all claims for damages by reason of past, present or future infringement or other unauthorized use of such Patent Assets with the right to sue for and collect such damages.

Assignors also hereby authorize the respective patent office of governmental agency in each jurisdiction to issue any and all patents or certificates of invention which may be granted upon any of the Patent Assets in the name of Assignee, as the assignee to the entire interest therein.

The terms and conditions of this assignment shall inure to the benefit of Assignee, its successors, assigns, and other legal representatives, and shall be binding upon Assignor, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, Assignors and Assignee have caused their duly authorized representatives to execute this Assignment.

**ASSIGNOR**

Panasonic Corporation

By:           田 孝            
Name:           Hideo Toyoda            
Title:           Director of Intellectual Property Center            
Date:           12/3/2015          

Panasonic Corporation Intellectual Property of America

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Panasonic System Networks Corporation

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**ASSIGNEE**

Grand Mesa, Series 57 of the Allied Security Trust I

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Appendix B – Transfer Documents

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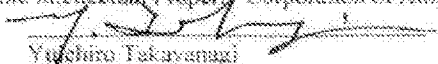
IN WITNESS WHEREOF, Assignors and Assignee have caused their duly authorized representatives to execute this Assignment.

ASSIGNOR

Panasonic Corporation

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Panasonic Intellectual Property Corporation of America

By:   
Name: Yuchiro Takayama  
Title: President  
Date: 12/2/2015

Panasonic System Networks Corporation

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

ASSIGNEE

Grand Mesa, Series 57 of the Allied Security Trust I

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

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IN WITNESS WHEREOF, Assignors and Assignee have caused their duly authorized representatives to execute this Assignment.

**ASSIGNOR**

Panasonic Corporation

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Panasonic Corporation Intellectual Property of America

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Panasonic System Networks Corporation

By: Tokikazu Matsumoto  
Name: Tokikazu Matsumoto  
Title: Vice President  
Date: December 4, 2015

**ASSIGNEE**

Grand Mesa, Series 57 of the Allied Security Trust I

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**Appendix B – Transfer Documents**

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**IN WITNESS WHEREOF**, Assignors and Assignee have caused their duly authorized representatives to execute this Assignment.

**ASSIGNOR**

Panasonic Corporation

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Panasonic Corporation Intellectual Property of America

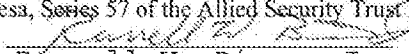
By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Panasonic System Networks Corporation

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**ASSIGNEE**

Grand Mesa, Series 57 of the Allied Security Trust I

By:   
Name: Russell W. Binns, Jr.  
Title: Chief Executive Officer  
Date: 12/21/15

**APPENDIX A - APPENDIX PATENTS**

| Patent No. | Patent No.    | Applicant No.  | Status    | Patent Title   |
|------------|---------------|----------------|-----------|--|
| 1          | US6577686     | US09417179     | Patent    | Receiver   |
| 1          | JP2000188568A | JPH11288109    | Withdrawn | RECEIVER   |
| 1          | JPH10290359   |                | Withdrawn |  |
| 2          | US6577715     | US09523599     | Patent    | Modem apparatus, communication control apparatus, communication terminal apparatus, and communication control method |
| 2          | JP3288648B2   | JP1999154447A  | Lapsed    | MODEM DEVICE AND, DEVICE AND METHOD FOR CONTROLLING COMMUNICATION  |
| 2          |               | JP2000043089   | Withdrawn |  |
| 3          | US6597292     | US09407374     | Patent    | Wireless transmission apparatus and control system   |
| 3          | JP2000112634A | JPH10286235    | Withdrawn | CONTROL SYSTEM OF WIRELESS KEY TRANSMISSION DEVICE   |
| 4          | US6604218     | US09479900     | Patent    | Data encoding apparatus and data decoding apparatus  |
| 4          | JP2000269824A | JP2000006252   | Withdrawn | DATA ENCODING DEVICE AND DATA DECODING DEVICE  |
| 4          |               | JPH11005588    | Withdrawn |  |
| 5          | US6661783     | US09264856     | Patent    | CDMA transmission apparatus  |
| 5          | JP3904716B2   | JPH10078316    | Patent    | CDMA MOBILE COMMUNICATION SYSTEM   |
| 5          | CN1237839A    | CN1999103677A  | Withdrawn | CDMA transmission apparatus  |
| 5          | CA2265134A1   |                | Dead      | CDMA TRANSMISSION APPARATUS  |
| 5          | KR10-332271   | KR1999-7419    | Patent    | CDMA transmission apparatus with transmission power control  |
| 5          | EP0942541A2   | EP99102883.9   | Withdrawn | CDMA transmission apparatus with transmission power control  |
| 6          | US6677905     | US10075572     | Patent    | Antenna device and mobile communications apparatus including the device  |
| 6          | TW180671      | TW91101895     | Lapsed    | Antenna device and mobile communications apparatus including the device  |
| 6          | KR10-0587236  | KR2002-0008972 | Lapsed    | ANTENNA DEVICE AND MOBILE COMMUNICATION DEVICE USING THE SAME  |
| 6          | JP2003078335A | JP2001263267A  | Withdrawn | ANTENNA AND MOBILE   |



|   |               |                  |                          |  |
|---|---------------|------------------|--------------------------|--|
|   |               |                  |                          | COMMUNICATION APPARATUS  |
| 6 | JP2003060418A | JP2001247965A    | Withdrawn                | MOBILE COMMUNICATION APPARATUS   |
| 6 | JP2003032020A | JP2001217785A    | Withdrawn                | ANTENNA  |
| 6 | CN1398015A    | CN2104608.5      | Abandoned                | Antenna device and mobile communicating device using same                              |
| 6 | CA2372634A    |                  | Dead                     | ANTENNA DEVICE AND MOBILE COMMUNICATIONS APPARATUS INCLUDING THE DEVICE                |
| 6 | MY-124834-A   | PI20020461       | Abandoned                | ANTENNA DEVICE AND MOBILE COMMUNICATIONS APPARATUS INCLUDING THE DEVICE                |
| 7 | US6684086     | US09890939       | Patent                   | Radio base station device and radio communication method                               |
| 7 | KR10-0405098  | KR2001-7009957A  | Lapsed                   | RADIO BASE STATION DEVICE AND RADIO COMMUNICATION METHOD                               |
| 7 | EP1152628B1   | EP00979972.7     | Completed                | RADIO BASE STATION DEVICE AND RADIO COMMUNICATION METHOD                               |
| 7 | FREP1152628B1 | 00979972.7       | Lapsed                   | RADIO BASE STATION DEVICE AND RADIO COMMUNICATION METHOD                               |
| 7 | GBEP1152628B1 | 00979972.7       | Lapsed                   | RADIO BASE STATION DEVICE AND RADIO COMMUNICATION METHOD                               |
| 7 | DE60008856T   | 00979972.7       | Lapsed                   | RADIO BASE STATION DEVICE AND RADIO COMMUNICATION METHOD                               |
| 7 | CN1119912C    | CN804633.6       | Ceased                   | Radio base station device and radio communication method                               |
| 7 | JP2001169326A | JP11349465A      | Withdrawn                | WIRELESS BASE STATION SYSTEM AND WIRELESS COMMUNICATION METHOD                         |
| 7 | AU1733201     | AU200117332D     | Lapsed                   | Radio base station device and radio communication method                               |
| 7 |               | WOPCT/JP00/08660 | National phase completed | RADIO BASE STATION DEVICE AND RADIO COMMUNICATION METHOD                               |
| 8 | US6687343     | US10119773       | Patent                   | Internet communication control apparatus and communication terminal calling method     |
| 8 | JP3540780B2   | JP2001198437A    | Lapsed                   | INTERNET COMMUNICATION CONTROL UNIT AND COMMUNICATION TERMINAL CALLING METHOD THEREFOR |
| 9 | US6700921     | US09479635       | Patent                   | Spread-spectrum communication apparatus  |
| 9 | JP2000236283A | JPH11035333      | Withdrawn                | SPECTRUM SPREAD COMMUNICATIONS EQUIPMENT   |

|    |                   |                 |           |   |
|----|-------------------|-----------------|-----------|---|
| 9  | JP2000209127A     | JPH11008781     | Withdrawn | SPREAD SPECTRUM<br>COMMUNICATION UNIT   |
| 9  | JP2000201100A     | JPH11001730     | Withdrawn | SPREAD SPECTRUM<br>COMMUNICATION DEVICE   |
| 10 | US6721367         | US09434109      | Patent    | Base station apparatus and radio<br>communication method                        |
| 10 | KR100443327B<br>1 | KR1999-0049061A | Patent    | BASE STATION APPARATUS AND<br>RADIO COMMUNICATION METHOD<br>WITH PATH DIVERSITY |
| 10 | JP3554207B2       | JPH10319354     | Lapsed    | RADIO COMMUNICATION<br>EQUIPMENT AND METHOD<br>THEREFOR                         |
| 10 | EP1001557B1       | EP99122263.9    | Completed | Radio communication apparatus and<br>method with path diversity                 |
| 10 | GBEP1001557B<br>1 | 99122263.9      | Patent    |   |
| 10 | FREP1001557B<br>1 | 99122263.9      | Patent    |   |
| 10 | DE69934957.5      | 99122263.9      | Patent    |   |
| 10 | CN1180565C        | CN99123470.7    | Patent    | Wireless communication device and<br>wireless communication method              |
| 11 | US6768460         | US09820077      | Patent    | Diversity wireless device and wireless<br>terminal unit                         |
| 11 | JP2002094324A     | JP2000283025A   | Withdrawn | WIRELESS TERMINAL   |
| 11 | JP2001345745A     | JP2000292071A   | Withdrawn | DIVERSITY RADIO DEVICE  |
| 11 |                   | JP200090367A    | Withdrawn |   |
| 12 | US6785230         | US09577713      | Patent    | Audio transmission apparatus  |
| 12 | JP4218186B2       | JP2000154209A   | Lapsed    | VOICE TRANSMISSION DEVICE   |
| 12 |                   | H11144490       | Withdrawn |   |
| 13 | US7058041         | US10787537      | Patent    | Extended dynamic resource allocation<br>in packet data transfer                 |
| 13 | US7046656         | US10787243      | Patent    | Extended dynamic resource allocation<br>in packet data transfer                 |
| 13 | US6952413         | US10787538      | Patent    | Extended dynamic resource allocation<br>in packet data transfer                 |
| 13 | KR100781478B<br>1 | KR2005-7024267A | Patent    | EXTENDED DYNAMIC RESOURCE<br>ALLOCATION FOR PACKET DATA<br>TRANSFER             |
| 13 | KR100742446B<br>1 | KR2005-7024258A | Patent    | EXTENDED DYNAMIC RESOURCE<br>ALLOCATION OF PACKET DATA<br>TRANSFER              |
| 13 | KR100733220B<br>1 | KR2005-7024257A | Patent    | EXTENDED DYNAMIC RESOURCE<br>ALLOCATION FOR PACKET DATA<br>TRANSFER             |
| 13 | JP3586463B1       | JP200459870A    | Patent    | MULTIPLE ACCESS   |

|    |                      |              |           |  |
|----|----------------------|--------------|-----------|--|
|    |                      |              |           | COMMUNICATION SYSTEM   |
| 13 | JP3586462B1          | JP200459869A | Patent    | MULTIPLE ACCESS<br>COMMUNICATION SYSTEM                          |
| 13 | JP3586461B1          | JP200459868A | Patent    | MULTIPLE ACCESS<br>COMMUNICATION SYSTEM                          |
| 13 | GB2403102B           | GB0415063.7  | Patent    | Extended dynamic resource allocation<br>in packet data transfer  |
| 13 | GB2403101B           | GB0415062.9  | Patent    | Extended dynamic resource allocation<br>in packet data transfer  |
| 13 | GB2400279B           | GB0414899.5  | Patent    | Extended dynamic resource allocation<br>in packet data transfer  |
| 13 | GB2398708B           | GB0314093.6  | Patent    | Extended dynamic resource allocation<br>in packet data transfer  |
| 13 | EP1562395B1          | EP05009523.1 | Completed | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | DE60200400965<br>7.1 | 05009523.1   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | GBEP1562395B<br>1    | 05009523.1   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | FREP1562395B<br>1    | 05009523.1   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | ITEP1562395B1        | 05009523.1   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | ES2296001            | 05009523.1   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | EP1489872B1          | EP04000184.4 | Completed | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | FREP1489872B<br>1    | 04000184.4   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | GBEP1489872B<br>1    | 04000184.4   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | ITEP1489872B1        | 04000184.4   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | ES2254990            | 04000184.4   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | DE60200400028<br>2.8 | 04000184.4   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | EP1489871B1          | EP04000183.6 | Completed | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | GBEP1489871B<br>1    | 04000183.6   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | FREP1489871B<br>1    | 04000183.6   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |
| 13 | ITEP1489871B1        | 04000183.6   | Patent    | Extended dynamic resource allocation<br>for packet data transfer |

|    |                      |                       |             |   |
|----|----------------------|-----------------------|-------------|---|
| 13 | ES2255690            | 04000183.6            | Patent      | Extended dynamic resource allocation for packet data transfer |
| 13 | DE60200400028<br>0.1 | 04000183.6            | Patent      | Extended dynamic resource allocation for packet data transfer |
| 13 | EP1489869B1          | EP04000181.0          | Completed   | Extended dynamic resource allocation for packet data transfer |
| 13 | DE60200400034<br>0.9 | 04000181.0            | Patent      | Extended dynamic resource allocation for packet data transfer |
| 13 | GBEP1489869B<br>1    | 04000181.0            | Patent      | Extended dynamic resource allocation for packet data transfer |
| 13 | FREP1489869B<br>1    | 04000181.0            | Patent      | Extended dynamic resource allocation for packet data transfer |
| 13 | ITEP1489869B1        | 04000181.0            | Patent      | Extended dynamic resource allocation for packet data transfer |
| 13 | ES2257711            | 04000181.0            | Patent      | Extended dynamic resource allocation for packet data transfer |
| 13 | CN1806459B           | CN200480016657.1      | Patent      | Extended dynamic resource allocation for packet data transfer |
| 13 | KR2006018895<br>A    | KR2005-7024268A       | Withdrawn   | EXTENDED DYNAMIC RESOURCE ALLOCATION FOR PACKET DATA TRANSFER |
| 13 | JP2005012810A        | JP2004180201A         | Refused     | MULTIPLE ACCESS COMMUNICATION SYSTEM                          |
| 13 | JP2005012755A        | JP200459867A          | Refused     | MULTIPLE ACCESS COMMUNICATION SYSTEM                          |
| 13 | CN1806463A           | CN200480016805A       | Withdrawn   | Extended dynamic resource allocation for packet data transfer |
| 13 | CN1806462A           | CN200480016804A       | Withdrawn   | Extended dynamic resource allocation for packet data transfer |
| 13 | CN1806461A           | CN200480016802A       | Withdrawn   | Extended dynamic resource allocation for packet data transfer |
| 13 | CN1806460A           | CN200480016677.9<br>A | Withdrawn   | Extended dynamic resource allocation for packet data transfer |
| 13 | BR200411587A         | BRPI0411587-2         | Ceased      | Extended dynamic resource allocation in packet data transfer  |
| 13 | BR200411562A         | BRPI0411562-7         | Ceased      | Extended dynamic resource allocation in packet data transfer  |
| 13 | BR200411527A         | BRPI0411527-9         | Ceased      | Extended dynamic resource allocation in packet data transfer  |
| 13 | BR200411474A         | BRPI0411474-4         | Publication | Extended dynamic resource allocation in packet data transfer  |
| 13 | AT314796T            |                       | Ceased      | Extended dynamic resource allocation in packet data transfer  |
| 13 | AT314797T            |                       | Ceased      | Extended dynamic resource allocation in packet data transfer  |

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| 13 | AT316747T             |                       | Ceased                   | Extended dynamic resource allocation in packet data transfer  |
| 13 | EP1489870B            | EP04000182.8          | Withdrawn                | Extended dynamic resource allocation for packet data transfer |
| 13 | EP1489875A            | EP04014389.3          | Withdrawn                | Extended dynamic resource allocation in packet data transfer  |
| 13 | US20040258029         | US10/869102           | Abandoned                | Extended dynamic resource allocation in packet data transfer  |
| 13 | US20040258037         | US10/787536           | Abandoned                | Extended dynamic resource allocation in packet data transfer  |
| 13 | WO2004114708          | WOPCT/JP04/0230<br>3  | National phase completed | EXTENDED DYNAMIC RESOURCE ALLOCATION FOR PACKET DATA TRANSFER |
| 13 | WO2004114709          | WOPCT/JP04/0230<br>4  | National phase completed | EXTENDED DYNAMIC RESOURCE ALLOCATION OF PACKET DATA TRANSFER  |
| 13 | WO2004114710          | WOPCT/JP04/0230<br>5  | National phase completed | EXTENDED DYNAMIC RESOURCE ALLOCATION FOR PACKET DATA TRANSFER |
| 13 | WO2004114711          | WOPCT/JP04/0230<br>6  | National phase completed | EXTENDED DYNAMIC RESOURCE ALLOCATION FOR PACKET DATA TRANSFER |
| 13 | WO2004114713          | WOPCT/JP04/0877<br>6  | National phase completed | EXTENDED DYNAMIC RESOURCE ALLOCATION IN PACKET DATA TRANSFER  |
| 13 |                       | IN1397/MUMNP/200<br>5 | Withdrawn                | EXTENDED DYNAMIC RESOURCE ALLOCATION FOR PACKET DATA TRANSFER |
| 13 | IN1369/MUMNP<br>/2005 | IN220645              | Patent                   | EXTENDED DYNAMIC RESOURCE ALLOCATION OF PACKET DATA TRANSFER  |
| 13 | IN1360/MUMNP<br>/2005 | IN214065              | Abandoned                | EXTENDED DYNAMIC RESOURCE ALLOCATION FOR PACKET DATA TRANSFER |
| 13 |                       | IN1334/MUMNP/200<br>5 | Withdrawn                | EXTENDED DYNAMIC RESOURCE ALLOCATION FOR PACKET DATA TRANSFER |
| 14 | US7020105             | US10787258            | Patent                   | Dynamic resource allocation in packet data transfer           |
| 14 | KR100730861B<br>1     | KR2005-7018572A       | Patent                   | DYNAMIC RESOURCE ALLOCATION IN PACKET DATA TRANSFER           |
| 14 | JP3590055B2           | JP200459876A          | Patent                   | MULTIPLE ACCESS COMMUNICATION SYSTEM                          |
| 14 | JP03629032B1          | JP2004300724A         | Patent                   | MULTIPLE ACCESS   |

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|    |                      |                       |           | COMMUNICATION SYSTEM                                |
| 14 | GB2400280B           | GB200415066A          | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | GB2400271B           | GB0307585.0           | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | EP1558051B1          | EP05009522.3          | Completed | Dynamic resource allocation in packet data transfer |
| 14 | DE60200401540<br>3.2 | 05009522.3            | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | FREP1558051B<br>1    | 05009522.3            | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | GBEP1558051B<br>1    | 05009522.3            | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | EP1465449B1          | EP04000180.2          | Completed | Dynamic resource allocation in packet data transfer |
| 14 | ITEP1465449B1        | EP04000180.2          | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | DE60200400027<br>4.7 | EP04000180.2          | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | FIEP1465449B1        | EP04000180.2          | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | DKEP1465449B<br>1    | EP04000180.2          | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | ES2256801            | EP04000180.2          | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | FREP1465449B<br>1    | EP04000180.2          | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | GBEP1465449B<br>1    | EP04000180.2          | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | TREP1465449B<br>1    | EP04000180.2          | Patent    | Dynamic resource allocation in packet data transfer |
| 14 | KR2005119184<br>A    | KR2005-7018757A       | Withdrawn | DYNAMIC RESOURCE ALLOCATION IN PACKET DATA TRANSFER |
| 14 | KR2005114712<br>A    | KR2005-7018780A       | Withdrawn | DYNAMIC RESOURCE ALLOCATION IN PACKET DATA TRANSFER |
| 14 | JP2004312728A        | JP2004100135A         | Withdrawn | MULTIPLE ACCESS COMMUNICATION SYSTEM                |
| 14 | JP2004312703A        | JP200459871A          | Withdrawn | MULTIPLE ACCESS COMMUNICATION SYSTEM                |
| 14 | CN1799274A           | CN200480008766.9<br>A | Withdrawn | Dynamic resource allocation in packet data transfer |
| 14 | CN1768491A           | CN200480009110.9<br>A | Withdrawn | Dynamic resource allocation in packet data transfer |

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| 14 | CN1768490A        | CN200480008795.5<br>A | Withdrawn                | Dynamic resource allocation in packet data transfer      |
| 14 |                   | BRPI409163-9          | Withdrawn                | Dynamic resource allocation in packet data transfer      |
| 14 |                   | BRPI0409076-4         | Withdrawn                | Dynamic resource allocation in packet data transfer      |
| 14 |                   | BRPI0408579-5         | Withdrawn                | Dynamic resource allocation in packet data transfer      |
| 14 | AT314795T         |                       | Ceased                   | Dynamic resource allocation in packet data transfer      |
| 14 | AT403357T         |                       | Ceased                   | Dynamic resource allocation in packet data transfer      |
| 14 | EP1465448         | EP04000151.3          | Withdrawn                | Dynamic resource allocation in packet data transfer      |
| 14 | EP1471757A        | EP04008085.5          | Withdrawn                | Dynamic resource allocation in packet data transfer      |
| 14 | WO2004091116      | WOPCT/JP04/0230<br>7  | National phase completed | Dynamic resource allocation in packet data transfer      |
| 14 | WO2004091118      | WOPCT/JP04/0464<br>9  | National phase completed | Dynamic resource allocation in packet data transfer      |
| 14 | WO2004091245      | WOPCT/JP04/0230<br>8  | National phase completed | Dynamic resource allocation in packet data transfer      |
| 14 |                   | IN1074/MUMNP/200<br>5 | Withdrawn                | Dynamic resource allocation in packet data transfer      |
| 14 |                   | IN1075/MUMNP/200<br>5 | Withdrawn                | Dynamic resource allocation in packet data transfer      |
| 14 | IN218596          | IN1059/MUMNP/200<br>5 | Patent                   | Dynamic resource allocation in packet data transfer      |
| 14 | US20040208148     | US10/787242           | Abandoned                | Dynamic resource allocation in packet data transfer      |
| 14 | US20050135327     | US10/814784           | Abandoned                | Dynamic resource allocation in packet data transfer      |
| 15 | US7123618         | US10069934            | Patent                   | Data transmitting apparatus and data receiving apparatus |
| 15 | JP3492602B2       | JP2000206616A         | Patent                   | DATA TRANSMITTER AND DATA RECEIVER                       |
| 15 | EP1235414B1       | EP01938721.6          | Completed                | DATA TRANSMITTING APPARATUS AND DATA RECEIVING APPARATUS |
| 15 | DE60108472.1      | EP01938721.6          | Patent                   | DATA TRANSMITTING APPARATUS AND DATA RECEIVING APPARATUS |
| 15 | FREP1235414B<br>1 | EP01938721.6          | Patent                   | DATA TRANSMITTING APPARATUS AND DATA RECEIVING APPARATUS |

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| 15 | GBEP1235414B<br>1 | EP01938721.6         | Patent                         | DATA TRANSMITTING APPARATUS<br>AND DATA RECEIVING APPARATUS                                    |
| 15 | CN1208936C        | CN01801892.0         | Patent                         | Data transmitting appts. and data<br>receiving appts.  |
| 15 | AU6430901         | AU200164309D         | Lapsed                         | Data transmitting apparatus and data<br>receiving apparatus                                    |
| 15 | WO2002005515      | WOPCT/JP01/0517<br>8 | National<br>phase<br>completed | DATA TRANSMITTING APPARATUS<br>AND DATA RECEIVING APPARATUS                                    |
| 16 | US8325845         | US13034348           | Patent                         | Constellation rearrangement for ARQ<br>transmit diversity schemes                              |
| 16 | US7567622         | US11633421           | Patent                         | Constellation rearrangement for ARQ<br>transmit diversity schemes                              |
| 16 | US7154961         | US10501906           | Patent                         | Constellation rearrangement for ARQ<br>transmit diversity schemes                              |
| 16 | KR100789042B<br>1 | KR20047012008A       | Patent                         | CONSTELLATION<br>REARRANGEMENT FOR ARQ<br>TRANSMIT DIVERSITY SCHEMES                           |
| 16 | JP3885078B2       | JP2004543995A        | Patent                         | CONSTELLATION<br>REARRANGEMENT FOR ARQ<br>TRANSMIT DIVERSITY SCHEMES                           |
| 16 | EP1552639B1       | EP02790298.0         | Completed                      | CONSTELLATION<br>REARRANGEMENT FOR ARQ<br>TRANSMIT DIVERSITY SCHEMES                           |
| 16 | DE60224588.5      | 02790298.0           | Patent                         | CONSTELLATION<br>REARRANGEMENT FOR ARQ<br>TRANSMIT DIVERSITY SCHEMES                           |
| 16 | GBEP1552639       | 02790298.0           | Patent                         | CONSTELLATION<br>REARRANGEMENT FOR ARQ<br>TRANSMIT DIVERSITY SCHEMES                           |
| 16 | FREP1552639       | 02790298.0           | Patent                         | CONSTELLATION<br>REARRANGEMENT FOR ARQ<br>TRANSMIT DIVERSITY SCHEMES                           |
| 16 | CN1620776B        | CN02828081.4         | Patent                         | Constellation resetting of<br>automatically repeat requesting<br>transmitting diversity scheme |
| 16 | WO2004036818      | WOPCT/EP02/1169<br>4 | National<br>phase<br>completed | Constellation resetting of<br>automatically repeat requesting<br>transmitting diversity scheme |
| 16 | US20090262858     | US12/490096          | Abandoned                      | CONSTELLATION<br>REARRANGEMENT FOR ARQ   |



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|    |                   |                      |                                | TRANSMIT DIVERSITY SCHEMES   |
| 16 | AT383689T         |                      | Ceased                         | CONSTELLATION<br>REARRANGEMENT FOR ARQ<br>TRANSMIT DIVERSITY SCHEMES   |
| 16 | AU2002368296<br>A |                      | Lapsed                         | CONSTELLATION<br>REARRANGEMENT FOR ARQ<br>TRANSMIT DIVERSITY SCHEMES   |
| 16 | EP1903711A        | EP08000127.4         | Publication                    | Constellation rearrangement for ARQ<br>transit diversity schemes   |
| 16 | EP2259478A        | EP10178455.1         | Publication                    | Constellation rearrangement for ARQ<br>transmit diversity schemes  |
| 17 | US7369621         | US10516182           | Patent                         | Radio communication base station<br>device, radio communication mobile<br>station device, and radio<br>communication method    |
| 17 | KR100653668B<br>1 | KR20047015800A       | Lapsed                         | RADIO COMMUNICATION BASE<br>STATION DEVICE, RADIO<br>COMMUNICATION MOBILE<br>STATION DEVICE, AND RADIO<br>COMMUNICATION METHOD |
| 17 | JP3840435B2       | JP2002197772A        | Lapsed                         | RADIO COMMUNICATION BASE<br>STATION DEVICE, RADIO<br>COMMUNICATION MOBILE<br>STATION DEVICE AND RADIO<br>COMMUNICATION METHOD  |
| 17 | CN100448181C      | CN3815944.9A         | Ceased                         | Radio communication base station<br>device, radio communication mobile<br>station device, and radio<br>communication method    |
| 17 | AU2003281444<br>A |                      | Lapsed                         | RADIO COMMUNICATION BASE<br>STATION DEVICE, RADIO<br>COMMUNICATION MOBILE<br>STATION DEVICE, AND RADIO<br>COMMUNICATION METHOD |
| 17 | EP1531560A        | EP03741176.6         | Withdrawn                      | RADIO COMMUNICATION BASE<br>STATION DEVICE, RADIO<br>COMMUNICATION MOBILE<br>STATION DEVICE, AND RADIO<br>COMMUNICATION METHOD |
| 17 | WO2004006469      | WOPCT/JP03/0845<br>8 | National<br>phase<br>completed | RADIO COMMUNICATION BASE<br>STATION DEVICE, RADIO<br>COMMUNICATION MOBILE<br>STATION DEVICE, AND RADIO<br>COMMUNICATION METHOD |
| 17 | IN214981          | IN13/KOLNP/2005      | Lapsed                         | RADIO COMMUNICATION BASE<br>STATION DEVICE, RADIO  |

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|----|-----------------|-------------------|--------------------------|---|
|    |                 |                   |                          | COMMUNICATION MOBILE STATION DEVICE, AND RADIO COMMUNICATION METHOD                                 |
| 18 | US7502593       | US10521243        | Patent                   | Radio communication system  |
| 18 | KR100794422B1   | KR20057019903A    | Lapsed                   | RADIO COMMUNICATION SYSTEM  |
| 18 | JP4167536B2     | JP2003122544A     | Lapsed                   | RADIO COMMUNICATION SYSTEM  |
| 18 | ZA200508594A    | ZA20058594A       | Abandoned                | Radio communication system  |
| 18 | BR200409712A    | BRPI409712-2A     | Lapsed                   | Radio communication system  |
| 18 | WO2004098227    | WOPCT/JP04/05993  | National phase completed | RADIO COMMUNICATION SYSTEM  |
| 18 | EP1619918A      | EP04729511.8      | Withdrawn                | RADIO COMMUNICATION SYSTEM  |
| 18 | PH1-2005-501765 | PH1-2005-501765   | Abandoned                | RADIO COMMUNICATION SYSTEM  |
| 18 | CN100463571     | CN200480000557.X  | Lapsed                   | Radio communication system  |
| 19 | US7529567       | US11193624        | Patent                   | Radio telephone apparatus and method for controlling amount of electric current consumption thereof |
| 19 | JP2006050054A   | JP2004225366A     | Withdrawn                | RADIO TELEPHONE DEVICE AND METHOD OF CONTROLLING ITS CONSUMPTION CURRENT                            |
| 20 | US7593516       | US11242830        | Patent                   | Electronic apparatus  |
| 20 | JP2006134287A   | JP200552833A      | Refused                  | ELECTRONIC APPARATUS  |
| 20 |                 | JP2004294807A     | Withdrawn                | N/A   |
| 21 | US7797011       | US11718472        | Patent                   | Communication method and communication equipment in the PoC service                                 |
| 21 | JP4672334B2     | JP2004320745A     | Patent                   | COMMUNICATION PROGRAM AND COMMUNICATION TERMINAL  |
| 21 | WO2006049128    | WOPCT/JP05/20011  | National phase completed | COMMUNICATION PROGRAM AND COMMUNICATION TERMINAL  |
| 21 | EP1809060A      | EP05805445.3      | Withdrawn                | COMMUNICATION PROGRAM AND COMMUNICATION TERMINAL  |
| 22 | US7848459       | US11911700        | Patent                   | Radio receiving apparatus and radio receiving method  |
| 22 | KR10-901046B1   | KR20077022822A    | Lapsed                   | RADIO RECEIVING APPARATUS AND RADIO RECEIVING METHOD  |
| 22 | JP4891231B2     | JP2007514544A     | Patent                   | RADIO RECEIVING APPARATUS AND RADIO RECEIVING METHOD  |
| 22 | CN101160763B    | CN200680012889.9A | Patent                   | Radio receiving apparatus and radio receiving method  |
| 22 |                 | JP2005119828A     | Withdrawn                | Radio receiving apparatus and radio   |

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|    |               |                       |                                | receiving method   |
| 22 | WO2006115030  | WOPCT/JP06/3075<br>83 | National<br>phase<br>completed | RADIO RECEIVING APPARATUS<br>AND RADIO RECEIVING METHOD  |
| 22 | EP1865636A    | EP06731530.9          | Withdrawn                      | RADIO RECEIVING APPARATUS<br>AND RADIO RECEIVING METHOD  |
| 23 | US8145128     | US11911335            | Patent                         | Wireless reception apparatus,<br>wireless transmission apparatus,<br>wireless communication system,<br>wireless reception method, wireless<br>transmission method, and wireless<br>communication method          |
| 23 | JP4445554B2   | JP2007545768A         | Patent                         | WIRELESS RECEPTION<br>APPARATUS, WIRELESS<br>TRANSMISSION APPARATUS,<br>WIRELESS COMMUNICATION<br>SYSTEM, WIRELESS RECEPTION<br>METHOD, WIRELESS<br>TRANSMISSION METHOD, AND<br>WIRELESS COMMUNICATION<br>METHOD |
| 23 | WO2006112032  | WOPCT/JP05/0758<br>2  | National<br>phase<br>completed | WIRELESS RECEPTION<br>APPARATUS, WIRELESS<br>TRANSMISSION APPARATUS,<br>WIRELESS COMMUNICATION<br>SYSTEM, WIRELESS RECEPTION<br>METHOD, WIRELESS<br>TRANSMISSION METHOD, AND<br>WIRELESS COMMUNICATION<br>METHOD |
| 23 |               | EP05734300.6          | Withdrawn                      | WIRELESS RECEPTION<br>APPARATUS, WIRELESS<br>TRANSMISSION APPARATUS,<br>WIRELESS COMMUNICATION<br>SYSTEM, WIRELESS RECEPTION<br>METHOD, WIRELESS<br>TRANSMISSION METHOD, AND<br>WIRELESS COMMUNICATION<br>METHOD |
| 24 | US8195175     | US12159370            | Patent                         | Method for verifications and fast QoS<br>establishment   |
| 24 | JP4774438B2   | JP2008531464A         | Lapsed                         | METHOD FOR VERIFICATIONS AND<br>FAST QOS ESTABLISHMENT   |
| 24 | EP1967031B1   | EP05824569.7          | Lapsed                         | METHOD FOR VERIFICATIONS AND<br>FAST QOS ESTABLISHMENT   |
| 24 | DE60200501948 | 05824569.7            | Lapsed                         | METHOD FOR VERIFICATIONS AND   |

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|----|----------------------|----------------------|--------------------------------|---|
|    | 5.1                  |                      |                                | FAST QOS ESTABLISHMENT  |
| 24 | FREP1967031          | 05824569.7           | Lapsed                         | METHOD FOR VERIFICATIONS AND FAST QOS ESTABLISHMENT   |
| 24 | GBEP1967031          | 05824569.7           | Lapsed                         | METHOD FOR VERIFICATIONS AND FAST QOS ESTABLISHMENT   |
| 24 | WO2007077618         | WOPCT/JP05/2428<br>2 | National<br>phase<br>completed | METHOD FOR VERIFICATIONS AND FAST QOS ESTABLISHMENT   |
| 25 | US8331395            | US12057204           | Patent                         | Communication apparatus,<br>communication system, and<br>communication control method         |
| 25 | JP4777286B2          | JP200782197A         | Lapsed                         | COMMUNICATIONS DEVICE,<br>COMMUNICATION SYSTEM AND<br>METHOD FOR CONTROLLING<br>COMMUNICATION |
| 25 | EP2140621B1          | EP08739758.4         | Completed                      | COMMUNICATION APPARATUS,<br>COMMUNICATION SYSTEM, AND<br>COMMUNICATION CONTROL                |
| 25 | DE60200801802<br>6.3 | EP08739758.4         | Patent                         | COMMUNICATION APPARATUS,<br>COMMUNICATION SYSTEM, AND<br>COMMUNICATION CONTROL                |
| 25 | FREP2140621          | EP08739758.4         | Patent                         | COMMUNICATION APPARATUS,<br>COMMUNICATION SYSTEM, AND<br>COMMUNICATION CONTROL                |
| 25 | GBEP2140621          | EP08739758.4         | Ceased                         | COMMUNICATION APPARATUS,<br>COMMUNICATION SYSTEM, AND<br>COMMUNICATION CONTROL                |
| 25 | WO2008123579         | WOPCT/JP08/5665<br>1 | National<br>phase<br>completed | COMMUNICATION APPARATUS,<br>COMMUNICATION SYSTEM, AND<br>COMMUNICATION CONTROL<br>METHOD      |