

## PATENT ASSIGNMENT

Electronic Version v1.1  
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| SUBMISSION TYPE:   | NEW ASSIGNMENT                   |
| NATURE OF CONVEYANCE:  | ASSIGNMENT                       |
| CONVEYING PARTY DATA   |                                  |
| Name   | Execution Date                   |
| NextWave Broadband, Inc.   | 07/16/2009                       |
| RECEIVING PARTY DATA   |                                  |
| Name:  | Wi-Lan, Inc.                     |
| Street Address:  | 11 Holland Avenue                |
| Internal Address:  | Suite 608                        |
| City:  | Ottawa                           |
| State/Country:   | CANADA                           |
| Postal Code:   | K1Y4S1                           |
| PROPERTY NUMBERS Total: 1  |                                  |
| Property Type  | Number                           |
| Application Number:  | 13618102                         |
| CORRESPONDENCE DATA  |                                  |
| Fax Number:  | 2155686499                       |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> |                                  |
| Phone:   | 2155686400                       |
| Email:   | cwalsh@vklaw.com                 |
| Correspondent Name:  | Christina R. Walsh               |
| Address Line 1:  | 30 South 17th Street             |
| Address Line 2:  | Volpe and Koenig, P.C.           |
| Address Line 4:  | Philadelphia, PENNSYLVANIA 19103 |
| ATTORNEY DOCKET NUMBER:  | WIN-P00514US2                    |
| NAME OF SUBMITTER:   | Christina R. Walsh               |
| Signature:   | /Christina R. Walsh/             |
| Date:  | 06/20/2013                       |

CH \$40.00 13618102

**Total Attachments: 8**

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**SCHEDULE B**

**Form of Patent Assignment for Recordation**

**PATENT ASSIGNMENT**

Pursuant to the Patent Sale and Transfer Agreement dated July 16, 2009 (the "Patent Agreement"), and for and in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, NextWave Broadband Inc., having its address at 10350 Science Center Drive, Suite 210, San Diego, CA 92121-1138, USA ("Assignor") a Delaware corporation has sold, assigned and transferred, and does hereby sell, assign and transfer, unto Wi-LAN Inc., having its address at 11 Holland Avenue, Suite 608, Ottawa, Ontario, K1Y 4S1, Canada ("ASSIGNEE") and its successors and assigns, Assignor's entire right, title and interest in and to certain inventions and/or improvements in the patents and applications listed on Exhibit A to this Patent Assignment, together with the entire right, title and interest in and to said application, and/or in and to Letters Patent which may be issued upon said application, and any divisions, extensions, continuations or reissues thereof including, in each such case, all rights to sue for infringement of any of the patents, whether arising prior to, on or subsequent to the date of this Patent Assignment and including the right to collect past damages for any such infringement.

Assignor hereby also sells, assigns and transfers unto ASSIGNEE the entire right, title and interest in and to said inventions and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of said inventions and said applications for Letters Patent in foreign countries, and further authorizes ASSIGNEE to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

Assignor agrees that, when requested, it will reasonably cooperate to sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in ASSIGNEE, its successors, assigns and legal representatives or nominees.

This Patent Assignment is subject to the terms and provisions of the Patent Agreement and in the event of a conflict between this Assignment and the Patent Agreement, the terms of the Patent Agreement shall control.

**ASSIGNOR DOES HEREBY CONSTITUTE AND APPOINT ASSIGNEE, ITS SUCCESSORS AND ASSIGNS, AS ASSIGNOR'S TRUE AND LAWFUL ATTORNEY, WITH FULL POWER OF SUBSTITUTION FOR ASSIGNOR, AND IN ITS NAME, PLACE AND STEAD OR OTHERWISE, BUT ON BEHALF OF AND FOR THE BENEFIT OF ASSIGNEE, ITS SUCCESSORS AND ASSIGNS, THE AUTHORITY AND POWER FOR THE PURPOSE TO TAKE ALL ACTIONS AND EXECUTE ALL DOCUMENTS ON BEHALF OF ASSIGNOR NECESSARY TO EFFECT THIS PATENT ASSIGNMENT, AND FROM TIME TO TIME TO INSTITUTE AND PROSECUTE IN ASSIGNOR'S NAME OR OTHERWISE, BUT AT THE DIRECTION AND EXPENSE**

AND FOR THE BENEFIT OF ASSIGNEE AND ITS SUCCESSORS AND ASSIGNS, ANY AND ALL PROCEEDINGS AT LAW, IN EQUITY OR OTHERWISE, WHICH ASSIGNEE, ITS SUCCESSORS OR ASSIGNS MAY DEEM PROPER IN ORDER TO COLLECT, ASSERT OR ENFORCE ANY CLAIM, RIGHT OR TITLE OF ANY KIND IN RELATION TO THIS PATENT ASSIGNMENT AND TO DEFEND AND COMPROMISE ANY AND ALL ACTIONS, SUITS AND PROCEEDINGS IN RESPECT OF THIS PATENT ASSIGNMENT AND TO DO ANY AND ALL SUCH ACTS AND THINGS IN RELATION THERETO AS ASSIGNEE, ITS SUCCESSORS OR ASSIGNS SHALL DEEM ADVISABLE, ASSIGNOR HEREBY DECLARING THAT THE APPOINTMENT HEREBY MADE AND THE POWERS HEREBY GRANTED ARE COUPLED WITH AN INTEREST AND ARE AND SHALL BE IRREVOCABLE BY ASSIGNOR IN ANY MANNER OR FOR ANY REASON.

IN WITNESS WHEREOF, the Parties have executed this Patent Assignment as of the date below.

ASSIGNOR:

NEXTWAVE BROADBAND, INC.

By: [Signature]  
Title: CEO  
Date: July 16, 2009

ASSIGNEE:

WI-LAN INC

By: [Signature]  
Title: Chairman & CEO  
Date: July 17, 2009

**EXHIBIT A**  
**(Patents)**

| FILE #    | FILING DATE | SERIAL NUMBER       | STAGE                             | TITLE   |
|-----------|-------------|---------------------|-----------------------------------|---|
|           | 31-Jul-96   | 8690036             | Issued -<br>#5,883,927<br>3/16/99 | Digital Wireless<br>Telecommunication Device for<br>Reduced Interference with<br>hearing Aids |
| 06-066USA | 18-May-06   | 11419188            | Abandoned                         | Mode Switching ASIC and<br>Wireless Communications<br>Equipment                               |
| 05-015PCT | 16-Jan-08   | PCTUS08051181       | Pending                           | Tiling Allocations for Wireless<br>Communication  |
| 05-015USA | 22-Jan-07   | 11625773            | Pending                           | Tiling Allocations for Wireless<br>Communication  |
| 05-019TW  | 2-Jul-07    | 98123994            | Closed                            | Method and System for Generic<br>Multiprotocol Convergence Over<br>Wireless Air Interface     |
| 05-019USA | 7-Jul-06    | 11482495            | Pending                           | Method and System for Generic<br>Multiprotocol Convergence Over<br>Wireless Air Interface     |
| 05-032USA | 6-Jun-06    | 11447466            | Issued<br>#7,526,248<br>4/28/09   | Extended Wireless<br>Communication System and<br>Method                                       |
| 05-035EPO | 26-Apr-07   | 77613602            | Pending                           | Modulation Dependent<br>Automatic Gain Control  |
| 05-035TW  | 20-Apr-07   | 98114029            | Pending                           | Modulation Dependent<br>Automatic Gain Control  |
| 05-035USA | 5-May-06    | 11381959            | Pending                           | Modulation Dependent<br>Automatic Gain Control  |
| 05-036USA | 1-Sep-06    | 11469782            | Issued<br>#7,321,328<br>1/22/08   | Single Bit DAC with Tristate<br>Driver  |
| 05-041TW  | 28-Jun-07   | 96123602            | Pending                           | Early Energy Measurement  |
| 05-041USA | 29-Jun-06   | 11427651            | Pending                           | Early Energy Measurement  |
| 05-045EPO | 29-Jan-09   | 78097987            | Pending                           | Packet Delineation Process  |
| 05-045TW  | 28-Jun-07   | 96123501            | Pending                           | A System and Process for<br>Packet Delineation  |
| 05-045USA | 29-Jun-06   | 11479871            | Pending                           | A System and Process for<br>Packet Delineation  |
| 06-046PCT | 13-Dec-07   | PCTUS07087376       | Pending                           | Shorthand Connection Identifier<br>with Embedded Subfield                                     |
| 06-046USA | 26-Dec-06   | 11616210            | Pending                           | Shorthand Connection Identifier<br>with Embedded Subfield                                     |
| 06-047EPO | 7-Apr-09    | 78137783            | Pending                           | Pre-Allocated Random Access<br>Identifiers  |
| 06-047USA | 1-Sep-06    | 11469794            | Pending                           | Pre-allocated Random Access<br>Identifiers  |
| 06-051PCT | 14-Mar-08   | PCTUS200605697<br>9 | Pending                           | Methods and Apparatus for<br>Identifying subscriber Station<br>Mobility                       |

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| FILE #    | FILING DATE | SERIAL NUMBER     | STAGE   | TITLE  |
|-----------|-------------|-------------------|---------|--|
| 06-051USA | 21-Mar-07   | 11689473          | Pending | Methods and Apparatus for Identifying subscriber Station Mobility                          |
| 06-056USA | 23-Mar-07   | 11690706          | Pending | System and Method for Personal Content Access  |
| 06-059USA | 23-Mar-07   | 11690711          | Pending | System and Method for Content Distribution   |
| 06-071USA | 7-Mar-07    | 11683274          | Pending | Channel Aggregation (old title:Channel Bonding)  |
| 06-085PCT | 15-Jan-08   | pctus0851064      | Pending | Wireless Transceiver with Reduced Transmit Emissions (Hop and Squish)                      |
| 06-085USA | 19-Jan-07   | 11625254          | Pending | Wireless Transceiver with Reduced Transmit Emissions (Hop and Squish)                      |
| 06-086PCT | 8-Jan-08    | PCTUS2008050500   | Pending | Wireless Broadcasting System   |
| 06-086TW  | 9-Jan-08    | 97100783          | Pending | Wireless Broadcasting System   |
| 06-086USA | 12-Jan-07   | 11623032          | Pending | Wireless Broadcasting System   |
| 06-101PCT | 27-Jan-09   | PCTUS0932165      | Pending | Downlink Acquisition   |
| 06-101USA | 28-Jan-08   | 12021167          | Pending | Downlink Acquisition   |
| 06-108USA | 6-Sep-07    | 11851362          | Pending | Contention-Based Protocol  |
| 06-113PCT | 15-Jan-08   | PCTUS08051069     | Pending | Transceiver with Receive and Transmit Path Performance Diversity (Golden Arches)           |
| 06-113USA | 19-Jan-07   | 11625248          | Pending | Transceiver with Receive and Transmit Path Performance Diversity (Golden Arches)           |
| 06-122PCT | 16-Dec-08   |                   | Pending | Wireless System with Reduced Effect of IQ Imbalance  |
| 06-122USA | 19-Dec-07   | 11960637          | Pending | Wireless System with Reduced Effect of IQ Imbalance  |
| 06-125PCT | 8-Jan-08    | PCTUS2008051073   | Pending | Transmit Power Dependent Reduced Emissions From a Wireless Transceiver (Low Power Stretch) |
| 06-125USA | 19-Jan-07   | 11625260          | Pending | Transmit Power Dependent Reduced Emissions From a Wireless Transceiver (Low Power Stretch) |
| 06-139PCT | 10-Jan-08   | PCTUS0850719      | Pending | Convergence Sublayer for Use in a Wireless Broadcasting System                             |
| 06-139TW  | 9-Jan-08    | 97100784          | Pending | Convergence Sublayer for Use in a Wireless Broadcasting System                             |
| 06-139USA | 12-Jan-07   | 11623034          | Pending | Convergence Sublayer for Use in a Wireless Broadcasting System                             |
| 06-140USA | 16-Jan-08   | 12015431          | Pending | System and Method for Power Reduction with Multiple Receive Paths                          |
| 06-140PCT | 15-Jan-09   | PCT/US2009/031142 | Pending | Power Reduction with Multiple Receive Paths  |

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| FILE #    | FILING DATE | SERIAL NUMBER  | STAGE   | TITLE  |
|-----------|-------------|----------------|---------|--|
| 06-142PCT | 10-Jan-08   | PCTUS0850743   | Pending | Multiple Network Access system and Method  |
| 06-142TW  | 9-Jan-08    | 97100788       | Pending | Multiple Network Access system and Method  |
| 06-142USA | 26-Jan-07   | 11627897       | Pending | Multiple Network Access system and Method  |
| 06-143USA | 11-Apr-08   | 12101845       | Pending | Efficient Determination of a Link Performance Parameter                            |
| 06-146PCT | 14-Mar-08   | PCTUS200856987 | Pending | Methods and Apparatus for Mobility Influenced Handoff                              |
| 06-146USA | 21-Mar-07   | 11689476       | Pending | Methods and Apparatus for Mobility Influenced Handoff                              |
| 06-151PCT | 4-Jan-08    | PCTUS08050302  | Pending | Connection Identifier for Wireless Broadcast System                                |
| 06-151TW  | 8-Jan-08    | 97100680       | Pending | Connection Identifier for Wireless Broadcast System                                |
| 06-151USA | 12-Jan-07   | 11623024       | Pending | Connection Identifier for Wireless Broadcast System                                |
| 06-152PCT | 7-Jan-08    | PCTUS0850365   | Pending | Multidiversity Handoff in a Wireless Broadcast System                              |
| 06-152TW  | 9-Jan-08    | 97100793       | Pending | Multidiversity Handoff in a Wireless Broadcast System                              |
| 06-152USA | 12-Jan-07   | 11623026       | Pending | Multidiversity Handoff in a Wireless Broadcast System                              |
| 06-153PCT | 7-Jan-08    | PCTUS0850369   | Pending | Airlink Management in a Wireless Broadcast System                                  |
| 06-153TW  | 9-Jan-08    | 97100792       | Pending | Airlink Management in a Wireless Broadcast System                                  |
| 06-153USA | 12-Jan-07   | 11623027       | Pending | Airlink Management in a Wireless Broadcast System                                  |
| 07-168PCT | 21-Mar-08   | PCTUS200857875 | Pending | Method and Apparatus for Service Identification in a Wireless Communication System |
| 07-168TW  | 24-Mar-08   | 97110341       | Pending | Method and Apparatus for Service Identification in a Wireless Communication System |
| 07-168USA | 21-Dec-07   | 11963504       | Pending | Method and Apparatus for Service Identification in a Wireless Communication System |
| 07-171USA | 8-Jul-08    | 12169537       | Pending | Signal Transmission Parameter Control Using Channel Sounding                       |
| 07-174USA | 9-Apr-08    | 12100339       | Pending | Reduction of Transmission Overhead in a Wireless Communication System              |
| 07-178USA | 2-May-08    | 12114701       | Pending | Transmit Emission Control in a Wireless Transceiver                                |
| 07-179PCT | 29-Feb-08   | PCTUS200855456 | Pending | Multi-band Channel Aggregation   |
| 07-179USA | 7-Mar-07    | 11683314       | Pending | Multi-band Channel Aggregation   |
| 07-183PCT | 16-Apr-08   | PCTUS200860517 | Pending | Base Station Synchronization for a Single Frequency Network                        |

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| FILE #     | FILING DATE | SERIAL NUMBER         | STAGE   | TITLE   |
|------------|-------------|-----------------------|---------|---|
| 07-183TW   | 18-Apr-08   | 97114091              | Pending | Base Station Synchronization for a Single Frequency Network                                 |
| 07-183USA  | 16-Apr-08   | 12104299              | Pending | Base Station Synchronization for a Single Frequency Network                                 |
| 07-184CA   | 3-Apr-08    | 2629205               | Pending | System and Method for Facilitating Co-Channel & Co-Existence Via Enhanced Frame Preambles   |
| 07-184USA  | 31-Oct-07   | 11930695              | Pending | System and Method for Facilitating Co-Channel and Co-Existence Via Enhanced Frame Preambles |
| 07-188USA  | 11-Apr-08   | 12101852              | Pending | Uplink Modulation and Coding Scheme Selection   |
| 07-194PCT  | 21-Mar-08   | PCTUS200857883        | Pending | Method and Apparatus for A Scheduler for a Macro-Diversity Portion of a Transmission        |
| 07-194TW   | 24-Mar-08   | 97110338              | Pending | Method and Apparatus for A Scheduler for a Macro-Diversity Portion of a Transmission        |
| 07-194USA  | 1-Nov-07    | 11933987              | Pending | Method and Apparatus for A Scheduler for a Macro-Diversity Portion of a Transmission        |
| 07-205PCT  | 4-Sep-08    | PCTUS200807527<br>9   | Pending | Persistent Resource Allocation (Sticky Allocation)  |
| 07-205US   | 5-Sep-08    | 12205436              | Pending | Persistent Resource Allocation (Sticky Allocation)  |
| 07-206USA  | 27-Jun-08   | 12163586              | Pending | Demapper Using Floating-Point Representation of Soft Bits                                   |
| 07-208PCT  | 17-Sep-08   | PCT/US2008/0766<br>85 | Pending | Time Multiplexing for Coexistence Within Multiple Communication Systems                     |
| 07-208US   | 30-May-08   | 12130902              | Pending | Time Multiplexing for Coexistence Within Multiple Communication Systems                     |
| 07-217PCT  | 5-Nov-08    | PCTUS0882444          | Pending | Advanced Technology Frame Structure with Backward Compatibility                             |
| 07-217USA  | 5-Nov-08    | 12265435              | Pending | Advanced Technology Frame Structure with Backward Compatibility                             |
| 07-222PCT  | 3-Dec-08    | PCTUS200808543<br>6   | Pending | Intercell Interference Mitigation   |
| 07-222US   | 3-Dec-08    | 12327732              | Pending | Intercell Interference Management   |
| 07-226 PCT | 4-Sep-08    |                       | Pending | Error Correction for a Persistent Resource Allocation                                       |
| 07-226US   | 4-Sep-08    | 12204719              | Pending | Error Correction for a Persistent Resource Allocation                                       |
| 08-233PCT  | 16-Apr-08   | PCTUS200860618        | Pending | Base Station Synchronization for a Single Frequency Network                                 |

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| FILE #      | FILING DATE | SERIAL NUMBER   | STAGE   | TITLE  |
|-------------|-------------|-----------------|---------|--|
| 08-233TW    | 18-Apr-08   | 97114081        | Pending | Base Station Synchronization for a Single Frequency Network  |
| 08-233USA   | 17-Apr-08   | 12104567        | Pending | Macro-Diversity Region Rate Modification   |
| 08-234US    | 17-Mar-09   | 12405662        | Pending | Transceiver w/ Receive Path Performance Diversity and Combiner w/ Detect Feedback                      |
| 08-235PCT   | 9-Mar-09    | PCTUS2009036556 | Pending | Efficient & Consistent Wireless Downlink Channel Configuration   |
| 08-235US    | 9-Mar-09    | 12400618        | Pending | Efficient and Consistent Wireless Downlink Channel   |
| 08-239PCT   | 8-Dec-08    | PCTUS0885974    | Pending | Outer Coding Framework for Application Packet Error Rate Minimization                                  |
| 08-239USA   | 2-Jul-08    | 12167186        | Pending | Outer Coding Framework for Application Packet Error Rate Minimization                                  |
| 08-241PRV   | 27-Jun-08   | 61076360        | Pending | Method and Apparatus for Using Physical Layer Error Control to Direct Media Access Layer Error Control |
| 08-241PRV B | 9-Sep-08    | 61095580        | Pending | Method and Apparatus for Using Physical Layer Error Control to Direct Media Access Layer Error Control |
| 08-252PCT   | 8-Dec-08    | PCTUS0885979    | Pending | Network Entry and Recovery   |
| 08-252USA   | 29-Aug-08   | 12202182        | Pending | Network Entry and Recovery   |
| 08-254PCT   | 8-Dec-08    | PCTUS0885982    | Pending | Data Fragmentation Identification in a Data Table (aka Convergence Sub-Layer)                          |
| 08-254US    | 29-Aug-08   | 12202184        | Pending | Data Fragmentation Identification in a Data Table (aka Convergence Sub-Layer)                          |
| 08-255PCT   | 8-Dec-08    | PCTUS0885984    | Pending | Compact Specification of Data Allocations (aka MBS Numbering System)                                   |
| 08-255US    | 29-Aug-08   | 12202187        | Pending | Compact Specification of Data Allocations (aka MBS Numbering System)                                   |
| 08-258US    | 3-Mar-09    | 12397300        | Pending | CL-MIMO Harmonized Feedback  |
| 08-259PCT   | 9-Dec-08    | PCTUS0886103    | Pending | Outer Coding Framework   |
| 08-259US    | 29-Aug-08   | 12202170        | Pending | Outer Coding Framework   |
| 08-260PCT   | 10-Dec-08   | PCTUS0886272    | Pending | Packet Error Correlation Minimization  |
| 08-260US    | 29-Aug-08   | 12202180        | Pending | Packet Error Correlation Minimization  |
| 08-261PCT   | 10-Dec-08   | PCTUS0886278    | Pending | Modulation Symbol to Outer Codeword Mapping  |
| 08-261US    | 29-Aug-08   | 12202174        | Pending | Modulation Symbol to Outer Codeword Mapping  |
| 08-262PRV   | 3-Jul-08    | 61078273        | Pending | Fractional HARQ Re-  |

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| FILE #        | FILING DATE | SERIAL NUMBER | STAGE                      | TITLE  |
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|               |             |               |                            | transmission   |
| 08-263PRV     | 7-Jul-08    | 61078766      | Pending                    | Closed Form Singular Value Decomposition   |
| 08-264PRV     | 7-Jul-08    | 61078765      | Pending                    | Improved Precoder for Multiple-subcarrier Band Feedback                                  |
| 08-265PRV     | 7-Jul-08    | 61078767      | Pending                    | Multiple Input Multiple Output (MIMO) Rank Adaptation with Uniform Channel Decomposition |
| 08-274PRV     | 28-Aug-08   | 61092716      | Pending                    | Hybrid Feedback for Closed Loop MIMO   |
| 08-275PRV     | 3-Sep-08    | 61094027      | Pending                    | MBS with Outer Coding and Adjusted Frame Reference                                       |
| 08-277PRV     | 31-Oct-08   | 61110455      | Pending                    | Multicast Broadcast Service (MBS) Controller   |
| NEXTWV.001A   | 1-Sep-99    | 9388236       | Issued #6,941,338B1 9/6/05 | Distributed Cache for a Wireless Communication System                                    |
| NEXTWV.001VAU | 1-Sep-00    | 7107500       | Issued                     | Distributed Cache for a Wireless Communication System                                    |
| NEXTWV.001VDE | 1-Sep-00    | 9598152       | Issued                     | Distributed Cache for a Wireless Communication System                                    |
| NEXTWV.001VFI | 1-Sep-00    | 9598152       | Issued                     | Distributed Cache for a Wireless Communication System                                    |
| NEXTWV.001VFR | 1-Sep-00    | 9598152       | Issued                     | Distributed Cache for a Wireless Communication System                                    |
| NEXTWV.001VGB | 1-Sep-00    | 9598152       | Issued                     | Distributed Cache for a Wireless Communication System                                    |
| NEXTWV.001VIL | 1-Sep-00    | 148231        | Issued                     | Distributed Cache for a Wireless Communication System                                    |
| NEXTWV.001VIN | 1-Sep-00    | 200200203DEL  | Issued                     | Distributed Cache for a Wireless Communication System                                    |
| NEXTWV.001VKR | 1-Sep-00    | 1020027002615 | Issued                     | Distributed Cache for a Wireless Communication System                                    |
| NEXTWV.001VSE | 1-Sep-00    | 9598152       | Issued                     | Distributed Cache for a Wireless Communication System                                    |
| NEXTWV.001VCA | 1-Sep-00    | 2384040       | Issued                     | Distributed Cache for a Wireless Communication System                                    |