

04-19-2005

Form PTO-1595

REC

U.S. DEPARTMENT OF COMMERCE

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

U.S. Patent and Trademark Office

Tab settings

102878885

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

**Remec, Inc.**  
**Remec Microwave, Inc.**  
**3790 Via de la Ville**  
**Del Mar, CA 92014**

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

3. Nature of conveyance:

- ☐ Assignment ☐ Merger  
☒ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: **February 11, 2003**

2. Name and address of receiving party(ies):

Name: **Silicon Valley Bank**

Internal Address: \_\_\_\_\_

Street Address: **3003 Tasman Drive**City: **Santa Clara** State: **CA** Zip: **95054-1191**Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

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

A. Patent Application No.(s)

**09/756,038 (filed 01-05-01)****10/187,177 (filed 06-28-02)**

B. Patent No.(s)

**5,894,250 (issued 04-13-99)****5,969,584 (issued 10-19-99)**Additional numbers attached? ☒ Yes ☐ No

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

Name: **Kim Walker**  
**BUCHALTER NEMER FIELDS & YOUNGER**

Internal Address: \_\_\_\_\_

Street Address: **601 S. FIGUEROA STREET, SUITE 2400**City: **LOS ANGELES** State: **CA** Zip: **90017**6. Total number of applications and patents involved: **33**7. Total fee (37 CFR 3.41).....\$ **1320.00**☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

**20-0052**

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

DO NOT USE THIS SPACE

9. Statement and signature.

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

Kim Walker

Name of Person Signing

Signature

1-7-04

Date

Total number of pages including cover sheet, attachments and documents: **22**

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents & Trademarks, Box Assignments  
 Washington, D.C. 20231

01/11/2005 ECOOPER 00000019 200052 09756038

01 FC:8021 1320.00 DA

04/21/2005 DBYRNE 00000056 200052 09756038

01 FC:8023 120.00 DA

BNFY 353849v1

**PATENT**  
**REEL: 015918 FRAME: 0671**

CONFIDENTIAL

| General Patents                                               | N/a           | N/a                           | N/a  | N/a        |
|---------------------------------------------------------------|---------------|-------------------------------|------|------------|
| INTELLIGENT MULTIPLEXERS IN AN ANTENNA LINE MANAGEMENT SYSTEM | UNITED STATES | 60/277,120                    | 8513 | 03/19/2001 |
| INTELLIGENT MULTIPLEXERS IN AN ANTENNA LINE MANAGEMENT SYSTEM | UNITED STATES | 10/085,340                    | 8537 | 02/27/2002 |
|                                                               |               | PUBLICATION NO.: 2002-0132644 |      |            |
| BALANCED REDUCTION CIRCUIT                                    | UNITED STATES | PUBLICATION DATE: 09/19/2002  |      | 06/29/2001 |
|                                                               |               | 60/301,927                    |      |            |
| TRANSCIEVER ASSEMBLY                                          | UNITED STATES | 60/318,150                    |      | 09/07/2001 |
| TRANSCIEVER ASSEMBLY                                          | UNITED STATES | 10/237,544                    | 9147 | 09/06/2002 |
| DIELECTRIC RESONATOR                                          | UNITED STATES | 09/711,598                    | 7918 | 11/13/2000 |



|                                                   |               | DATE: 11/07/2002 |      |            |
|---------------------------------------------------|---------------|------------------|------|------------|
| DYNAMIC RANGE EXTENSION FOR AN ELECTRONIC CIRCUIT | UNITED STATES | 09/875,322       | 7513 | 06/06/2001 |
| DUAL MODE RESONATOR                               | UNITED STATES | 09/876,590       | 1353 | 06/07/2001 |
| TUNABLE RESONATOR                                 | UNITED STATES | 09/922,542       | 9025 | 08/03/2001 |

| Title                                                                                                     | Date Filed | Serial #   | Country |
|-----------------------------------------------------------------------------------------------------------|------------|------------|---------|
| Apparatus for High-Performance Sected Antenna System                                                      | 11/03/97   | 08/963,039 | U.S.    |
| High-Performance Sected Antenna System Using Low Profile Broadband Feed Devices                           | 09/10/98   | 09/151,036 | U.S.    |
| Point-to-Multipoint Two-Way Broadband Wireless Communication System                                       | 04/06/99   | 09/287,144 | U.S.    |
| Methods for Determining an Optimum Sector Distribution within a Coverage Area of a Wireless Communication | 04/06/99   | 09/287,142 | U.S.    |
| Hybrid Cable/Wireless Communication Systems and Methods                                                   | 01/27/00   | 09/491,929 | U.S.    |

|                                                                                        |          |            |      |
|----------------------------------------------------------------------------------------|----------|------------|------|
| Wireless Communication Methods and Systems Using Multiple Sectorized Cells             | 04/10/00 | 09/546,060 | U.S. |
| Wireless Communication Methods and Systems using Multiple Overlapping Sectorized Cells | 12/15/00 | 09/737,511 | U.S. |
| Dynamic Adaptive Modulation Negotiation for Point-to-Point Terrestrial Links           | 07/28/99 | 09/362,043 | U.S. |
| Direct Conversion Up-Converter for Broadband Wireless Access Equipment                 | 03/08/00 | 09/521,466 | U.S. |
| Methods and Apparatus for Automatically Detecting a Channel in a Communication System  | 01/25/02 | 10/057,740 | U.S. |
| Wireless Communication Methods and Systems Using Multiple Adjacent Sectorized Cells    | 05/10/01 | 09/852,511 | U.S. |
| Scalable Sector Wide Area Networks in Wireless Communication System                    | 06/08/01 | 09/877,242 | U.S. |
| Dynamic Adaptive Modulation Negotiation for Point-to-Point Terrestrial Links           | 09/28/01 | 09/967,479 | U.S. |

| Country | Title                                                                         | Serial #   | Date Filed |
|---------|-------------------------------------------------------------------------------|------------|------------|
| US      | Gate Feed Structure for Reduced Size Field Effect Transistors                 | 10/158,265 | 5/29/02    |
| US      | Small Aspect Ratio Mimic Power Amplifier Layout                               | 09/900,562 | 7/6/01     |
| US      | Small Area Cascode FET Structure Operating at mm-Wave Frequencies             | 09/906,312 | 7/16/01    |
| US      | 1-100 GHz Microstrip Filter                                                   | 10/090,100 | 2/28/02    |
| US      | Duty-Cycle Adjustable Clock Generator with Low Reverse Bias and Zero DC Level | 10/035,388 | 12/28/01   |

Borrower holds only a one half interest in the following patent:

| Country | Title                                                                                                          | Serial #                                       | Date Filed |
|---------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------|
| US      | Group Delay Equalizer Integrated with a Wideband Distributed Amplifier Monolithic Microwave Integrated Circuit | 10/061,716<br>Anritsu Company<br>(joint owner) | 1/31/02    |

# INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement is entered into as of February 11, 2003 by and between SILICON VALLEY BANK ("Bank") and REMEC, INC., a California corporation, and REMEC MICROWAVE, INC., a California corporation (collectively, jointly and severally, "Grantor").

## RECITALS

A. Bank has agreed to make certain advances of money and to extend certain financial accommodation to Grantor (the "Loans") in the amounts and manner set forth in that certain Loan and Security Agreement by and between Bank and Grantor, dated as of even date herewith (as the same may be amended, modified or supplemented from time to time, the "Loan Agreement"; capitalized terms used herein are used as defined in the Loan Agreement). Bank is willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in certain Copyrights, Trademarks, Patents, and Mask Works to secure the obligations of Grantor under the Loan Agreement.

B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement, Grantor hereby represents, warrants, covenants and agrees as follows:

## AGREEMENT

To secure its obligations under the Loan Agreement, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under its Intellectual Property Collateral (including without limitation those Copyrights, Patents, Trademarks and Mask Works listed on Schedules A, B, C, and D hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions continuations, renewals, extensions and continuations-in-part thereof.

This security interest is granted in conjunction with the security interest granted to Bank under the Loan Agreement. The rights and remedies of Bank with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Bank of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan

Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Bank, of any or all other rights, powers or remedies.

Notwithstanding anything above to the contrary, Bank hereby agrees that (a) Borrower may transfer, assign or license (whether on an exclusive basis or otherwise) to REMEC International, Inc. any or all rights to use or license Borrower's Intellectual Property outside the United States, and (b) such transfer and Intellectual Property so transferred, assigned or licensed will be free of the security interest of Bank in such Intellectual Property.

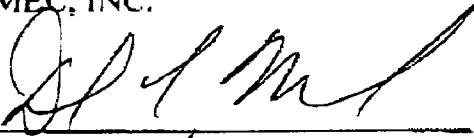
IN WITNESS WHEREOF, the parties have cause this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

Address of Grantor:

3790 Via de la Valle  
Del Mar, California 92014

REMEC, INC.

By: 

Title: EVP/CFO

REMEC MICROWAVE, INC.

By: 

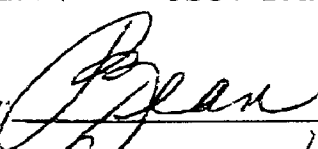
Title: Secretary

BANK:

Address of Bank:

3003 Tasman Drive  
Santa Clara, CA 95054-1191

SILICON VALLEY BANK

By: 

Title: SENIOR VICE PRESIDENT

Attn: \_\_\_\_\_

EXHIBIT A

Copyrights

Description

Registration/  
Application  
Number

Registration/  
Application  
Date

Not applicable.

EXHIBIT B

Patents

Description

Registration/  
Application  
Number \_\_\_\_\_

Registration/  
Application  
Date \_\_\_\_\_

See attached.

CONFIDENTIAL

| General Patents                                                     | N/a              | N/a                                                                                             | N/a  | N/a        |
|---------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------|------|------------|
| FEEDFORWARD AMPLIFIER<br>LINEARIZATION ADAPTING OFF<br>MODULATION   | UNITED<br>STATES | 09/756,038                                                                                      |      | 01/05/2001 |
| INTELLIGENT MULTIPLEXERS IN<br>AN ANTENNA LINE MANAGEMENT<br>SYSTEM | UNITED<br>STATES | 60/277,120 /                                                                                    | 8513 | 03/19/2001 |
| INTELLIGENT MULTIPLEXERS IN<br>AN ANTENNA LINE MANAGEMENT<br>SYSTEM | UNITED<br>STATES | 10/085,340 /<br><br>PUBLICATION<br>NO.: 2002-<br>0132644<br><br>PUBLICATION<br>DATE: 09/19/2002 | 8537 | 02/27/2002 |
| BALANCED DISTORTION<br>REDUCTION CIRCUIT                            | UNITED<br>STATES | 60/301,927 /                                                                                    |      | 06/29/2001 |
| BALANCED DISTORTION<br>REDUCTION CIRCUIT                            | UNITED<br>STATES | 10/187,177 /                                                                                    | 6733 | 06/28/2002 |
| TRANSCIVER ASSEMBLY                                                 | UNITED<br>STATES | 60/318,150 /                                                                                    |      | 09/07/2001 |
| TRANSCIVER ASSEMBLY                                                 | UNITED<br>STATES | 10/237,544 /                                                                                    | 9147 | 09/06/2002 |
| DIELECTRIC RESONATOR                                                | UNITED<br>STATES | 09/711,598 /                                                                                    | 7918 | 11/13/2000 |

|                                                                                           |                  |                                                                       |      |                            |
|-------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------|------|----------------------------|
| CAVITY RESONATOR FILTER<br>STRUCTURE HAVING IMPROVED<br>CAVITY ARRANGEMENT                | UNITED<br>STATES | 08/821,246<br>(5,894,250)                                             | N/A  | 03/20/1997<br>(04/13/1999) |
| RESONATING STRUCTURE<br>PROVIDING NOTCH AND<br>BANDPASS FILTERING                         | UNITED<br>STATES | 08/886,990<br>(5,969,584)                                             | N/A  | 07/02/1997<br>(10/19/1999) |
| TEMPERATURE COMPENSATION<br>STRUCTURE FOR RESONATOR<br>CAVITY                             | UNITED<br>STATES | 08/878,495<br>(5,905,419)                                             | N/A  | 06/18/1997<br>05/18/1999   |
| COUPLING STRUCTURE FOR<br>CAVITY RESONATORS                                               | UNITED<br>STATES | 09/247,380<br>(6,232,851)                                             |      | 02/10/1999<br>(05/15/2001) |
| CIRCUIT ARRANGEMENT FOR<br>REDUCING INTERMODULATION IN<br>A BANDPASS FILTER SYSTEM        | UNITED<br>STATES | 09/012,755<br>(6,072,824)                                             |      | 01/23/1998<br>(06/06/2000) |
| METHOD AND CIRCUIT<br>ARRANGEMENT FOR REDUCING<br>PASSBAND RIPPLE OF A<br>BANDPASS FILTER | UNITED<br>STATES | 09/019,847<br>(5,977,835)                                             |      | 02/06/1998<br>11/02/1999   |
| HIGH DYNAMIC RANGE<br>AMPLIFICATION CIRCUIT                                               | UNITED<br>STATES | 09/850,294<br>NOTICE OF<br>PUBLICATION<br>NO.: US-2002-<br>0163382-A1 | 2208 | 05/07/2001<br>PUBLICATION  |

|                                                   |               | DATE: 11/07/2002 |      |            |
|---------------------------------------------------|---------------|------------------|------|------------|
| DYNAMIC RANGE EXTENSION FOR AN ELECTRONIC CIRCUIT | UNITED STATES | 09/875,322       | 7513 | 06/06/2001 |
| DUAL MODE RESONATOR                               | UNITED STATES | 09/876,590       | 1353 | 06/07/2001 |
| TUNABLE RESONATOR                                 | UNITED STATES | 09/922,542       | 9025 | 08/03/2001 |

| Title                                                                                                     | Date Filed | Serial #   | Country |
|-----------------------------------------------------------------------------------------------------------|------------|------------|---------|
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| High-Performance Sectorized Antenna System Using Low Profile Broadband Feed Devices                       | 09/10/98   | 09/151,036 | U.S.    |
| Point-to-Multipoint Two-Way Broadband Wireless Communication System                                       | 04/06/99   | 09/287,144 | U.S.    |
| Methods for Determining an Optimum Sector Distribution within a Coverage Area of a Wireless Communication | 04/06/99   | 09/287,142 | U.S.    |
| Hybrid Cable/Wireless Communication Systems and Methods                                                   | 01/27/00   | 09/491,929 | U.S.    |

|                                                                                       |          |            |      |
|---------------------------------------------------------------------------------------|----------|------------|------|
| Wireless Communication Methods and Systems Using Multiple Sectored Cells              | 04/10/00 | 09/546,060 | U.S. |
| Wireless Communication Methods and Systems using Multiple Overlapping Sectored Cells  | 12/15/00 | 09/737,511 | U.S. |
| Dynamic Adaptive Modulation Negotiation for Point-to-Point Terrestrial Links          | 07/28/99 | 09/362,043 | U.S. |
| Direct Conversion Up-Converter for Broadband Wireless Access Equipment                | 03/08/00 | 09/521,466 | U.S. |
| Methods and Apparatus for Automatically Detecting a Channel in a Communication System | 01/25/02 | 10/057,740 | U.S. |
| Wireless Communication Methods and Systems Using Multiple Adjacent Sectored Cells     | 05/10/01 | 09/852,511 | U.S. |
| Scalable Sector Wide Area Networks in Wireless Communication System                   | 06/08/01 | 09/877,242 | U.S. |
| Dynamic Adaptive Modulation Negotiation for Point-to-Point Terrestrial Links          | 09/28/01 | 09/967,479 | U.S. |

| Country | Title                                                                         | Serial #     | Date Filed |
|---------|-------------------------------------------------------------------------------|--------------|------------|
| US      | Gate Feed Structure for Reduced Size Field Effect Transistors                 | 10/158,265 ✓ | 5/29/02    |
| US      | Small Aspect Ratio Mimic Power Amplifier Layout                               | 09/900,562 ✓ | 7/6/01     |
| US      | Small Area Cascode FET Structure Operating at mm-Wave Frequencies             | 09/906,312 ✓ | 7/16/01    |
| US      | 1-100 GHz Microstrip Filter                                                   | 10/090,100 ✓ | 2/28/02    |
| US      | Duty-Cycle Adjustable Clock Generator with Low Reverse Bias and Zero DC Level | 10/035,388 ✓ | 12/28/01   |

Borrower holds only a one half interest in the following patent:

| Country | Title                                                                                                          | Serial #                                         | Date Filed |
|---------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------|
| US      | Group Delay Equalizer Integrated with a Wideband Distributed Amplifier Monolithic Microwave Integrated Circuit | 10/061,716 ✓<br>Anritsu Company<br>(joint owner) | 1/31/02    |

EXHIBIT C

Trademarks

Description

Registration/  
Application  
Number

Registration/  
Application  
Date

See attached.

CONFIDENTIAL

| Mark        | Country | Class | Filing Date | App. No.   | Reg. No.<br>Reg. Date<br>Renewal<br>Date | Goods/Services                                                                                                                                                                                                                                                       |
|-------------|---------|-------|-------------|------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EXCELAIR    | U.S.    | 9     | 4/19/2001   | 76/244,056 | 2,586,616<br>6/25/02<br>6/25/12          | Wireless communications microwave transport equipment, namely, broadband wireless transceivers, broadband wireless customer premise antennas, broadband wireless receiver antennas, broadband wireless transmitter antennas, broadband wireless transceiver antennas |
| REMEC       | U.S.    | 9     | 2/13/1985   | 73/522,065 | 1,398,299<br>6/24/1986<br>6/24/2006      | Radio frequency and microwave components and supercomponents, namely, filters, equalized filters and equalizers, contiguous and non-contiguous multiplexers, switched filters and integrated switched modules, frequency multipliers and structural components       |
| SECTORSHAPE | U.S.    | 9     | 4/19/2001   | 76/244,057 |                                          | Wireless microwave communications antennas                                                                                                                                                                                                                           |

| Mark            | Country | Class | Filing Date | App. No.   | Reg. No.<br>Reg. Date<br>Renewal Date | Goods/Services                                                                                                                                                                                                                                                                                    |
|-----------------|---------|-------|-------------|------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPIKE           | U.S.    | 9     | 9/18/2000   | 76/129,533 |                                       | Wireless communication equipment, namely, base station antennas, base station transceivers and power supplies, base station modems, subscriber antennas, subscriber transceivers and subscriber modems; and computer software for use in facilitating two-way communication between base stations |
| SPIKE           | U.S.    | 42    | 7/25/2000   | 76/095,818 |                                       | Installation, product support and warranty services for wireless communication products                                                                                                                                                                                                           |
| SPIKE<br>Design | U.S.    | 9     | 12/8/1999   | 75/866,737 | 2,431,246<br>2/27/2001<br>2/27/2011   | Wireless communication equipment, namely base station sector antennas, base station transceivers and power supplies, base station modems, subscriber antennas, subscriber transceivers, subscriber modems                                                                                         |

| Mark                          | Country | Class | Filing Date | App. No.   | Reg. No.<br>Reg. Date<br>Renewal<br>Date | Goods/Services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------|---------|-------|-------------|------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPIKE<br>BROADBAND<br>SYSTEMS | U.S.    | 38    | 7/19/2000   | 76/092,879 |                                          | Wireless communication equipment, namely, base station antennas, base station transceivers and power supplies, base station modems, subscriber antennas, subscriber transceivers and subscriber modems; computer software for use in facilitating two-way communication between base stations and subscriber stations; wireless and terrestrial communication services, namely, telephony services; providing multiple-user access to a global computer information network; and installation, product support and warranty services for wireless communication products |

| Mark                                     | Country | Class | Filing Date | App. No.   | Reg. No.<br>Reg. Date<br>Renewal<br>Date | Goods/Services                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------|---------|-------|-------------|------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPIKE<br>CONTINUUM                       | U.S.    | 9     | 1/11/2001   | 76/192,841 |                                          | Wireless communication equipment, namely, base station antennas, base station transceivers and power supplies, base station modems, subscriber antennas, subscriber transceivers and subscriber modems; and computer software for use in facilitating two-way communication between base stations and subscribers                         |
| WIRELESS<br>ACCESS<br>CONCENTRATOR<br>OR | U.S.    | 9     | 2/29/2000   | 75/931,672 | 2,420,334<br>1/9/2001<br>1/9/2011        | Wireless communication equipment, namely, base station antennas, base station transceivers and power supplies, base station modems, subscriber station antennas, subscriber station transceivers and subscriber modems; and computer software for use in facilitating two-way communication between base stations and subscriber stations |

| Mark                         | Country | Class | Filing Date | App. No.   | Reg. No.<br>Reg. Date<br>Renewal<br>Date | Goods/Services                                                                                                                                                                                                                                                                                                                            |
|------------------------------|---------|-------|-------------|------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WIRELESS<br>CONCENTRAT<br>OR | U.S.    | 9     | 12/9/1999   | 75/867,882 | 2,420,325<br>1/9/2001<br>1/9/2011        | Wireless communication equipment, namely, base station antennas, base station transceivers and power supplies, base station modems, subscriber station antennas, subscriber station transceivers and subscriber modems; and computer software for use in facilitating two-way communication between base stations and subscriber stations |

EXHIBIT D

Mask Works

Description

Registration/  
Application  
Number

Registration/  
Application  
Date

Not applicable.