

**ASSIGNMENT RECORDATION FORM COVER SHEET** *Patents Only*

To: Commissioner for Patents:

Date: June 17, 2005  
Attorney Docket No. 9301-1

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

**Mobile Satellite Ventures, LP**

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

**ATC Technologies, LLC**  
10802 Parkridge Boulevard  
Reston, VA 20191-5416Additional name(s) of conveying party(ies) attached? Yes ☒ No

3. Nature of conveyance:

☒ Assignment  
☐ Merger  
☐ Security Agreement  
☐ Change of Name  
☐ Other

Execution Date: June 16, 2005

Additional name(s) & address(es) attached? Yes ☐ No ☒4. Application/Patent Nos. **SEE ATTACHED SCHEDULE A**

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

Additional numbers attached? ☒ Yes ☐ No

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

**Mitchell S. Bigel**  
**Myers Bigel Sibley & Sajovec**  
P. O. Box 37428  
Raleigh NC 276276. Total number of applications and patents involved: 1747. Total fee (37 CFR 3.41) \$6960.00  
☐ Enclosed  
☒ Authorized to be charged to deposit account

8. Deposit account number: 50-0220

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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.*Mitchell S. Bigel, #29.614  
Name of Person Signing

Signature

June 17, 2005

Date

Total number of pages including cover sheet, attachments and document: 15**CERTIFICATION OF FACSIMILE TRANSMISSION UNDER 37 CFR § 1.8**I hereby certify that this correspondence is being facsimile transmitted to the U.S. Patent and Trademark Office via facsimile number 703-306-5995 on June 17, 2005.Susan E. Freedman  
Susan E. Freedman

CH \$6960.00 600220 10074097

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| In re:           | Serial No.: | Filed      | Title:                                                                                                                                             | Assignment Recorded: | Reel:  | Frame: | Atty. Dkt. No. |
|------------------|-------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|--------|----------------|
| Karabinis        | 10/074,097  | 02/12/2002 | Systems and Methods for Terrestrial Reuse of Cellular Satellite Frequency Spectrum                                                                 | 02/12/2002           | 012592 | 0569   | 9301-2         |
| Karabinis        | 10/730,660  | 12/08/2003 | Systems and Methods for Terrestrial Reuse of Cellular Satellite Frequency Spectrum in a Time-Division Duplex Mode                                  | 12/08/2003           | 014785 | 0295   | 9301-2IP       |
| Karabinis et al. | 11/021,077  | 12/23/2004 | Systems and Methods for Terrestrial Reuse of Cellular Satellite Frequency Spectrum in a Time-Division Duplex and/or Frequency-Division Duplex Mode | 03/18/2005           | 015920 | 0498   | 9301-2IP2      |
| Karabinis        | 60/356,264  | 02/12/2002 | Wireless Communications Systems and Methods Using Satellite-Linked Remote Terminal Interface Subsystems                                            | 02/12/2002           | 012592 | 0780   | 9301-3PR       |
| Karabinis        | 10/151,567  | 05/20/2002 | Wireless Communications Systems and Methods Using Satellite-Linked Remote Terminal Interface Subsystems                                            | 05/20/2002           | 012919 | 0244   | 9301-3         |
| Karabinis        | 60/347,173  | 01/09/2002 | Spatial Guardbands for Terrestrial Reuse of Satellite Frequencies                                                                                  | 01/09/2002           | 012470 | 0351   | 9301-4PR       |
| Karabinis        | 10/180,281  | 06/26/2002 | Spatial Guardbands for Terrestrial Reuse of Satellite Frequencies                                                                                  | 06/26/2002           | 013061 | 0695   | 9301-4         |
| Karabinis        | 60/347,174  | 01/09/2002 | Systems and Methods for Monitoring Terrestrially-Reused Satellite Frequencies to Reduce Interference                                               | 01/09/2002           | 012470 | 0354   | 9301-5PR       |
| Karabinis et al. | 10/156,363  | 05/28/2002 | Systems and Methods For Monitoring Terrestrially Reused Satellite Frequencies To Reduce Potential Interference                                     | 05/28/2002           | 012944 | 0956   | 9301-5         |
| Karabinis et al. | 60/392,754  | 07/01/2002 | Additional Systems and Methods For Monitoring Terrestrially Reused Satellite Frequencies To Reduce Potential Interference                          | 07/01/2002           | 013108 | 0211   | 9301-5IPPR     |
| Karabinis et al. | 10/225,616  | 08/22/2002 | Additional Systems and Methods For Monitoring Terrestrially Reused Satellite Frequencies To Reduce Potential Interference                          | 08/22/2002           | 013220 | 0625   | 9301-5IP       |
| Karabinis        | 60/383,688  | 05/28/2002 | Systems and Methods For Reducing Satellite Feeder Link Bandwidth In Satellite Cellular Systems                                                     | 05/28/2002           | 012943 | 0774   | 9301-6PR       |
| Karabinis        | 10/328,062  | 12/23/2002 | Systems and Methods for Reducing Satellite Feeder Link Bandwidth/Carriers in Cellular Satellite Systems                                            | 12/23/2002           | 013646 | 0851   | 9301-6         |
| Karabinis        | 60/388,087  | 06/12/2002 | Multi-Band/Multi-Mode Satellite Radiotelephone Communications and Systems                                                                          | 06/12/2002           | 012999 | 0419   | 9301-7PR       |

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|----------------|-------------|------------|------------------------------------------------------------------------------------------------------------------------|----------------------|--------|--------|-----------------|
| Karabinis      | 60/225,613  | 08/22/2002 | Multi-Band/Multi-Mode Satellite Radiotelephone Communications Systems and Methods                                      | 08/22/2002           | 013220 | 0635   | 9301-7          |
| Karabinis      | 60/467,100  | 05/01/2003 | Aggregate Radiated Power Control for Multi-Band/Multi-Mode Satellite Radiotelephone Communications Systems             | 08/11/2003           | 014376 | 0728   | 9301-7JPPR      |
| Karabinis      | 10/819,542  | 04/07/2004 | Aggregate Radiated Power Control for Multi-Band/Multi-Mode Satellite Radiotelephone Communications Systems and Methods | 04/07/2004           | 015192 | 0495   | 9301-7IP        |
| Hencely et al. | 07/237,912  | 08/29/1988 | Differential Phase-Shift Keying Demodulator                                                                            | 04/05/2002           | 012785 | 0731   | 9301-8          |
| Nicholas       | 07/245,478  | 09/16/1988 | Method of Carrier Frequency Estimation                                                                                 | 04/05/2002           | 012785 | 0731   | 9301-9          |
| Nicholas       | 07/373,833  | 06/28/1989 | Method Demodulation Using Split Delay Line                                                                             | 04/05/2002           | 012785 | 0731   | 9301-10         |
| Dutta          | 07/532,283  | 06/01/1990 | Plural-Differential, Phase Shift-Keyed Modulation, Communications System                                               | 04/05/2002           | 012785 | 0731   | 9301-11         |
| Dutta          | 07/954,640  | 09/30/1992 | Adaptive Variable-Gain Phase and Frequency Locked Loop for Rapid Carrier Acquisition                                   | 04/05/2002           | 012785 | 0731   | 9301-12         |
| Buck           | 08/022,037  | 02/24/1993 | System for Mapping Occurrences of Predetermined Conditions in a Transport Route                                        | 04/05/2002           | 012785 | 0731   | 9301-13         |
| Buck et al.    | 08/566,410  | 12/01/1995 | System for Mapping Occurrences of Conditions in a Transport Route                                                      | 04/05/2002           | 012785 | 0731   | 9301-13IP       |
| McCarrick      | 08/058,079  | 05/10/1993 | MSAT Mast Antenna With Reduced Frequency Scanning                                                                      | 04/05/2002           | 012785 | 0731   | 9301-14         |
| McCarrick      | 08/481,995  | 06/07/1995 | Method of Manufacturing a Helical Antenna                                                                              | 04/05/2002           | 012785 | 0731   | 9301-14DV       |
| O'Neill, Jr.   | 08/450,737  | 05/25/1995 | Low Loss Quadrature Matching Network for Quadrifilar Helix Antenna                                                     | 04/05/2002           | 012785 | 0731   | 9301-15CT (FWC) |
| Dutta          | 08/126,847  | 09/24/1993 | Arrangement for an Method of Concurrent Quadrature Downconversion Input Sampling of a Bandpass Signal                  | 04/05/2002           | 012785 | 0731   | 9301-16         |
| Ross et al.    | 08/187,996  | 01/28/1994 | Marine Antenna Mount                                                                                                   | 04/05/2002           | 012785 | 0731   | 9301-17         |
| Ross et al.    | 08/408,526  | 03/22/1995 | Mobile Communicator Systems                                                                                            | 04/05/2002           | 012785 | 0731   | 9301-17IP       |
| Ross et al.    | 08/445,777  | 05/22/1995 | Mobile Communicator Bracing System                                                                                     | 04/05/2002           | 012785 | 0731   | 9301-17IP3      |
| Ross et al.    | 08/796,769  | 02/06/1997 | Mobile Communicator System                                                                                             | 04/05/2002           | 012785 | 0731   | 9301-17IP3CT    |
| Ross et al.    | 29/036,572  | 03/21/1995 | Mobile Communicator Computer                                                                                           | 04/05/2002           | 012785 | 0731   | 9301-18DS       |
| Ross et al.    | 29/045,826  | 10/31/1995 | Mobile Communicator Computer                                                                                           | 04/05/2002           | 012785 | 0731   | 9301-18DSJP     |
| Hedwell        | 09/654,453  | 05/28/1996 | Communication Protocol for Satellite Processing                                                                        | 04/05/2002           | 012790 | 0802   | 9301-19CX       |
| Tisdale et al. | 08/565,036  | 11/30/1995 | Fraud Detection and User Validation System for Mobile Earth Terminal Communication Device                              | 04/05/2002           | 012785 | 0731   | 9301-20         |
| Tisdale et al. | 08/601,912  | 02/15/1996 | Fraud Detection and User Validation System for Mobile Earth Terminal Communication Device                              | 04/05/2002           | 012785 | 0731   | 9301-20CT       |
| Tisdale et al. | 09/024,256  | 02/17/1998 | Fraud Detection and User Validation System for Mobile Earth Terminal Communication Device                              | 04/05/2002           | 012785 | 0731   | 9301-20DV       |
|                |             |            |                                                                                                                        | 04/05/2002           | 012791 | 0347   |                 |

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|-------------------|-------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|--------------|----------------|
| Tisdale et al.    | 09/468,932  | 12/22/1999 | Fraud Detection and User Validation System for Mobile Earth Terminal Communication Device                                                                                                                         | 04/05/2002               | 012648           | 0648         | 9301-20DVCT    |
| Duske, Jr. et al. | 09/903,809  | 07/13/2001 | Mobile Communications Terminal for Satellite Communications System                                                                                                                                                | 04/05/2002               | 012648           | 0648         | 9301-21CT      |
| Farrar Jr. et al. | 09/100,775  | 06/08/1998 | Mobile Communications From Computer Aided Dispatch System Via A Customer Premises Gateway for Satellite Communication System                                                                                      | 04/05/2002<br>04/05/2002 | 012785<br>012791 | 0731<br>0347 | 9301-22        |
| Farrar Jr. et al. | 09/625,310  | 07/25/2000 | Mobile Communications From Computer Aided Dispatch System Via a Customer Premises Gateway for Satellite Communication System                                                                                      | 04/05/2002               | 012648           | 0648         | 9301-22CT      |
| Dutta             | 08/724,116  | 09/30/1996 | Methods of Dynamically Switching Return Channel Transmissions of Time-Division Multiple-Access (TDMA) Communication Systems Between Signalling Burst Transmissions and Message Transmissions                      | 04/05/2002<br>04/05/2002 | 012785<br>012791 | 0731<br>0347 | 9301-23        |
| Dutta             | 09/233,068  | 01/20/1999 | Methods of Dynamically Switching Return Channel Transmissions of Time-Division Multiple-Access (TDMA) Communication Systems Between Signalling Burst Transmissions and Message Transmissions                      | 04/05/2002               | 012785           | 0731         | 9301-23DV      |
| Dutta             | 09/233,179  | 01/20/1999 | Methods of Dynamically Switching Return Channel Transmissions of Time-Division Multiple-Access (TDMA) Communication Systems Between Signalling Burst Transmissions and Message Transmissions                      | 04/05/2002               | 012785           | 0731         | 9301-23DV2     |
| Dutta             | 09/233,067  | 01/20/1999 | Methods of Dynamically Switching Return Channel Transmissions of Time-Division Multiple-Access (TDMA) Communication Systems Between Signalling Burst Transmissions and Message Transmissions                      | 04/05/2002               | 012648           | 0648         | 9301-23DV3     |
| Dutta             | 09/233,066  | 01/20/1999 | Methods of Dynamically Switching Return Channel Transmissions of Time-Division Multiple-Access (TDMA) Communication Systems Between Signalling Burst Transmissions and Message Transmissions                      | 04/05/2002               | 012648           | 0648         | 9301-23DV4     |
| Dutta             | 08/724,115  | 09/30/1996 | Methods of Load Balancing and Controlling Congestion in a Combined Frequency Division and Time Division Multiple Access Communication System Using Intelligent Login Procedures and Mobile Terminal Move Commands | 04/05/2002<br>04/05/2002 | 012785<br>012791 | 0731<br>0347 | 9301-24        |

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|--------------|-------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|--------------|----------------|
| Dutta        | 09/231,089  | 01/14/1999 | Method of Load Balancing and Controlling Congestion in a Combined Frequency Division and Time Division Multiple Access Communication System Using Intelligent Login Procedures and Mobile Terminal Move Commands | 04/05/2002               | 012648           | 0648         | 9301-24CT      |
| Dutta et al. | 08/723,406  | 09/30/1996 | Demand-Based Power and Data Rate Adjustments to a Transmitter to Optimize Channel Capacity and Power Usage With Respect to Data Transmission Traffic Over a Fixed-Bandwidth Channel                              | 04/05/2002<br>04/05/2002 | 012785<br>012791 | 0731<br>0347 | 9301-25        |
| Dutta et al. | 09/358,890  | 07/22/1999 | Demand-Based Power and Data Rate Adjustments to a Transmitter to Optimize Channel Capacity and Power Usage With Respect to Data Transmission Traffic Over A Fixed-Bandwidth Channel                              | 04/05/2002               | 012648           | 0648         | 9301-25CT      |
| Dutta        | 08/724,120  | 09/30/1996 | Methods of Communicating Over Time-Division Multiple-Access (TDMA) Communication Systems With Distinct Non-Time-Critical and Time-Critical Network Management Information Transmission Rates                     | 04/05/2002<br>04/05/2002 | 012785<br>012791 | 0731<br>0347 | 9301-26        |
| Dutta        | 09/300,424  | 04/28/1999 | Methods of Communicating Over Time-Division Multiple-Access (TDMA) Communication Systems With Distinct Non-Time-Critical and Time-Critical Network Management Information Transmission Rates                     | 04/05/2002               | 012648           | 0648         | 9301-26DV      |
| Dutta        | 09/300,429  | 04/28/1999 | Methods of Communicating Over Time-Division Multiple-Access (TDMA) Communication Systems With Distinct Non-Time-Critical and Time-Critical Network Management Information Transmission Rates                     | 04/05/2002               | 012648           | 0648         | 9301-26DV2     |
| Dutta        | 09/300,422  | 04/28/1999 | Methods of Communicating Over Time-Division Multiple-Access (TDMA) Communication Systems With Distinct Non-Time-Critical and Time-Critical Network Management Information Transmission Rates                     | 04/05/2002               | 012648           | 0648         | 9301-26DV3     |
| Dutta        | 09/300,423  | 04/28/1999 | Methods of Communicating Over Time-Division Multiple-Access (TDMA) Communication Systems With Distinct Non-Time-Critical and Tie-Critical Network Management Information Transmission Rates                      | 04/05/2002               | 012648           | 0648         | 9301-26DV4     |

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|-------------------|-------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|--------|----------------|
| Halvorson         | 09/030,953  | 02/26/1998 | Service Preemption for Mobile Terminals In a Mobile Satellite Communications System                                                                                                | 04/05/2002           | 012785 | 0731   | 9301-28        |
| Ward et al.       | 08/634,305  | 04/16/1996 | Mobile Earth Terminal Communication Device Providing Voice, Data, Facsimile, and/or Roaming Communication Features                                                                 | 04/05/2002           | 012791 | 0347   | 9301-29        |
| Ward et al.       | 09/124,254  | 07/29/1998 | Mobile Earth Terminal With Roaming Capability                                                                                                                                      | 04/05/2002           | 012785 | 0731   | 9301-29IP      |
| Ward et al.       | 09/917,942  | 07/31/2001 | Mobile Earth Terminal                                                                                                                                                              | 04/05/2002           | 012791 | 0347   | 9301-29IPCT    |
| Pawa et al.       | 08/598,556  | 02/08/1996 | Conversion System Used In Billing System for Mobile Satellite System                                                                                                               | 04/05/2002           | 012648 | 0648   | 9301-30        |
| Peppers           | 08/691,190  | 08/05/1996 | Call Forwarding Bypass Arrangement for Mobile Earth Terminal Communication Device Used in Mobile Satellite Communication System                                                    | 08/05/1996           | 008156 | 0020   | 9301-33        |
| Singh             | 60/253,937  | 11/30/2000 | Coordinated Satellite-Terrestrial Frequency Reuse                                                                                                                                  | 05/09/2001           | 011787 | 0038   | 9301-35PR      |
| Singh             | 60/222,605  | 08/02/2000 | System and Method of Satellite-Terrestrial Frequency Reuse                                                                                                                         | 05/09/2001           | 011785 | 0963   | 9301-36PR      |
| Olvera et al.     | 60/245,194  | 11/03/2000 | Coordinated Satellite-Terrestrial Frequency Reuse                                                                                                                                  | 05/09/2001           | 011787 | 0044   | 9301-37PR      |
| Karabinis et al.  | 09/918,709  | 08/01/2001 | Coordinated Satellite-Terrestrial Frequency Reuse                                                                                                                                  | 04/09/2002           | 012793 | 0929   | 9301-38XX      |
| Karabinis et al.  | 11/079,574  | 03/14/2005 | Coordinated Satellite-Terrestrial Frequency Reuse                                                                                                                                  | 04/09/2002           | 012793 | 0929   | 9301-38XXCT    |
| Modzelesky et al. | 08/728,227  | 10/10/1996 | Network Control Center for Satellite Communication System                                                                                                                          | 04/05/2002           | 012785 | 0731   | 9301-39        |
| Threadgill et al. | 08/601,749  | 02/15/1996 | Network Engineering/Systems Engineering System for Mobile Satellite Communications System                                                                                          | 04/05/2002           | 012791 | 0347   | 9301-40        |
| Threadgill et al. | 08/700,943  | 08/21/1996 | Network Operations Center for Mobile Earth Terminal Satellite Communications System                                                                                                | 04/05/2002           | 012785 | 0731   | 9301-41        |
| Singh             | 60/250,461  | 12/04/2000 | System and Method Of Satellite-Terrestrial Frequency Reuse Using Signal Blockage, Dynamic Assignment Of Frequencies and/or Switching Center/Base Station Coordinated Frequency Use | 05/09/2001           | 011787 | 0027   | 9301-43PR      |
| Karabinis et al.  | 10/000,799  | 12/04/2001 | Integrated or Autonomous System and Method Of Satellite-Terrestrial Frequency Reuse Using Signal Attenuation and/or Blockage, Dynamic Assignment Of Frequencies and/or Hysteresis  | 03/22/2002           | 012716 | 0878   | 9301-43        |

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|-------------------|-------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------|------------------------------|----------------|
| Karabinis et al.  | 10/965,303  | 10/15/2004 | Integrated Or Autonomous System and Method Of Satellite-Terrestrial Frequency Reuse Using Signal Attenuation and/or Blockage, Dynamic Assignment Of Frequencies and/or Hysteresis | 03/22/2002                                           | 012716                               | 0878                         | 9301-43CT      |
| Karabinis et al.  | 11/069,305  | 03/01/2005 | Integrated Or Autonomous System and Method Of Satellite-Terrestrial Frequency Reuse Using Signal Attenuation and/or Blockage, Dynamic Assignment Of Frequencies and/or Hysteresis | 03/22/2002                                           | 012716                               | 0878                         | 9301-43CT2     |
| Sigler et al.     | 08/718,133  | 09/18/1996 | Improved Satellite Trunked Radio Service System                                                                                                                                   | 09/17/2004<br>09/17/2004<br>09/17/2004<br>09/24/2004 | 015822<br>015915<br>015813<br>015853 | 0165<br>0008<br>0445<br>0271 | 9301-52        |
| Modzelesky et al. | 09/133,687  | 08/13/1998 | Network Control Center for Satellite Communication System                                                                                                                         | 04/05/2002                                           | 012648                               | 0648                         | 9301-53CT      |
| Modzelesky et al. | 09/796,647  | 03/02/2001 | Network Control Center for Satellite Communication System                                                                                                                         | 04/05/2002                                           | 012648                               | 0648                         | 9301-53CT2     |
| Sigler et al.     | 09/887,691  | 08/29/1997 | Satellite Trunked Radio Service System                                                                                                                                            | 09/17/2004<br>09/17/2004<br>09/17/2004<br>09/24/2004 | 015822<br>015915<br>015813<br>015853 | 0165<br>0008<br>0445<br>0271 | 9301-54FWC     |
| Sigler et al.     | 09/114,289  | 07/13/1998 | Improved Satellite Trunked Radio Service System                                                                                                                                   | 04/05/2002                                           | 012648                               | 0648                         | 9301-54IP      |
| Tisdale et al.    | 08/654,198  | 05/28/1996 | Communication Protocol for Mobile Earth Terminal Communication Device Used in Mobile Satellite Communication System                                                               | 04/05/2002                                           | 021785                               | 0731                         | 9301-55        |
| Threadgill et al. | 08/931,622  | 09/16/1997 | Network Engineering/Systems Engineering System for Mobile Satellite Communication System                                                                                          | 04/05/2002<br>04/05/2002                             | 012785<br>012791                     | 0731<br>0347                 | 9301-56CT      |
| Threadgill et al. | 09/918,550  | 08/01/2001 | Network Engineering/Systems Engineering System for Mobile Satellite Communication System                                                                                          | 04/05/2002                                           | 012648                               | 0648                         | 9301-56CT2     |
| Threadgill et al. | 09/007,172  | 01/14/1998 | Network Engineering/Systems Engineering System for Mobile Satellite Communication System                                                                                          | 04/05/2002                                           | 012785                               | 0731                         | 9301-56IP      |
| Threadgill et al. | 09/267,600  | 03/15/1999 | Network Operations Center for Mobile Earth Terminal Satellite Communication System                                                                                                | 04/05/2002                                           | 012785                               | 0731                         | 9301-57CT      |
| Sweet et al.      | 08/751,807  | 11/19/1996 | Full Service Dispatcher for Satellite Trunked Radio Service System                                                                                                                | 04/05/2002                                           | 012785                               | 0731                         | 9301-58        |
| Garner et al.     | 08/923,534  | 09/04/1997 | Virtual Network Configuration and Management System For Satellite Communication System                                                                                            | 04/05/2002                                           | 012791                               | 0347                         | 9301-59IP      |

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|------------------|-------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|--------------|----------------|
| Garner           | 09/022,877  | 02/12/1998 | Priority And Preemption Service System For Satellite Related Communication Using Central Controller                                                                           | 04/05/2002               | 012785           | 0731         | 9301-59IP2     |
| Garner et al.    | 09/611,759  | 07/06/2000 | Virtual Network Configuration and Management System for Satellite Communications Systems                                                                                      | 04/05/2002               | 012648           | 0648         | 9301-59IPDV    |
| Garner et al.    | 09/611,713  | 07/06/2000 | Virtual Network Configuration And Management System For Satellite Communications System                                                                                       | 04/05/2002               | 012648           | 0648         | 9301-59IPDV2   |
| Garner et al.    | 09/448,921  | 11/23/1999 | Priority and Preemption Service System For Satellite Related Communication Using Central Controller                                                                           | 04/05/2002<br>04/05/2002 | 012785<br>012791 | 0731<br>0347 | 9301-59IP2CT   |
| Garner           | 09/679,560  | 10/06/2000 | Priority and Preemption Service System for Satellite Related Communication Using Central Controller                                                                           | 04/05/2002               | 012648           | 0648         | 9301-59IP2CT2  |
| Halvorson        | 09/756,749  | 01/10/2001 | Computer Architecture for Service Preemption to Mobile Terminals in a Mobile Satellite Communications System                                                                  | 04/05/2002               | 012648           | 0648         | 9301-60CT      |
| McGowan et al.   | 09/694,282  | 10/24/2000 | Dual-Mode Satellite and Terrestrial Antenna                                                                                                                                   | 04/05/2002               | 012790           | 0802         | 9301-67        |
| Sigler et al.    | 08/657,479  | 05/29/1996 | Satellite Trunked Radio Service System                                                                                                                                        | 04/05/2002<br>04/05/2002 | 012785<br>012791 | 0731<br>0347 | 9301-72XX      |
| Karabinis et al. | 60/392,771  | 07/02/2002 | Space-Based Network Architectures for Satellite Radiotelephone Systems                                                                                                        | 07/01/2002               | 01369            | 0574         | 9301-73PR      |
| Karabinis et al. | 10/225,623  | 08/22/2002 | Space-Based Network Architectures For Satellite Radiotelephone Systems                                                                                                        | 08/22/2002               | 013222           | 0821         | 9301-73        |
| Karabinis        | 60/393,191  | 07/02/2002 | Filters for Combined Satellite Radiotelephone/GPS Terminals                                                                                                                   | 07/02/2002               | 013090           | 0648         | 9301-74PR      |
| Karabinis        | 10/353,548  | 01/29/2003 | Filters For Combined Radiotelephone/GPS Terminals                                                                                                                             | 06/26/2003               | 014207           | 0311         | 9301-74        |
| Karabinis        | 60/393,287  | 07/02/2002 | Staggered Sectorization for Terrestrial Reuse of Satellite Frequencies                                                                                                        | 07/02/2002               | 013090           | 0660         | 9301-75PR      |
| Karabinis        | 10/353,308  | 01/29/2003 | Staggered Sectorization for Terrestrial Reuse of Satellite Frequencies                                                                                                        | 01/29/2003               | 013724           | 0153         | 9301-75        |
| Karabinis        | 60/392,772  | 07/01/2002 | Modified Satellite Antenna Cell Patterns for Terrestrial Reuse of Satellite Frequencies                                                                                       | 07/01/2002               | 013069           | 0565         | 9301-76PR      |
| Karabinis        | 10/225,625  | 08/22/2002 | Methods and Systems for Modifying Satellite Antenna Cell Patterns in Response to Terrestrial Reuse of Satellite Frequencies                                                   | 08/22/2002               | 013220           | 0632         | 9301-76        |
| Karabinis        | 10/317,320  | 12/12/2002 | Systems and Methods for Increasing Capacity and/or Quality of Service of Terrestrial Cellular and Satellite Systems Using Terrestrial Reception of Satellite Band Frequencies | 12/12/2002               | 013572           | 0482         | 9301-79        |

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|------------------|-------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|--------|----------------|
| Karabinis et al. | 10/447,461  | 05/29/2003 | Wireless Communications Methods and Apparatus Using Licensed-Use System Protocols With Unlicensed-Use Access Points                                                                                                  | 05/29/2003           | 014126 | 0721   | 9301-80        |
| Churan           | 60/438,967  | 01/09/2003 | Terrestrial Network-Assisted Global Positioning Systems, Methods and Terminals Including Doppler Shift Estimates                                                                                                     | 06/24/2003           | 014193 | 0606   | 9301-81PR      |
| Churan           | 10/751,715  | 01/05/2004 | Network-Assisted Global Positioning Systems, Methods and Terminals Including Doppler Shift and Code Phase Estimates                                                                                                  | 01/05/2004           | 014784 | 0770   | 9301-81        |
| Karabinis        | 60/457,043  | 03/24/2003 | Satellite Assisted Push-to-Send Radiotelephone Systems and Methods                                                                                                                                                   | 03/11/2004           | 015061 | 0279   | 9301-82PR      |
| Karabinis        | 10/795,620  | 03/08/2004 | Satellite Assisted Push-to-Send Radiotelephone Systems and Methods                                                                                                                                                   | 03/08/2004           | 015068 | 0534   | 9301-82        |
| Karabinis        | 60/457,118  | 03/24/2003 | Radio Frequency Communication Systems and Methods That Use Polarization Orthogonality To Double Channel Capacity                                                                                                     | 03/18/2004           | 015102 | 0057   | 9301-83PR      |
| Karabinis        | 10/795,875  | 03/08/2004 | Co-Channel Wireless Communication Methods and Systems Using Nonsymmetrical Alphabets                                                                                                                                 | 03/08/2004           | 015091 | 0601   | 9301-83        |
| Dutta et al.     | 60/470,992  | 05/16/2003 | Systems and Methods For Handover Between Space Based and Terrestrial Radioterminal Communications, and For Monitoring Terrestrially Reused Satellite Frequencies At A Radioterminal To Reduce Potential Interference | 07/07/2003           | 014229 | 0702   | 9301-84PR      |
| Dutta et al.     | 10/828,378  | 04/20/2004 | Systems and Methods for Handover Between Space Based and Terrestrial Radioterminal Communications, and for Monitoring Terrestrially Reused Satellite Frequencies at a Radioterminal to Reduce Potential Interference | 04/20/2004           | 015254 | 0329   | 9301-84        |
| Dutta et al.     | 11/095,007  | 03/31/2005 | Systems and Methods For Handover Between Space Based and Terrestrial Radioterminal Communications                                                                                                                    | 04/20/2004           | 015254 | 0329   | 09301-84CT     |
| Karabinis        | 60/473,959  | 05/28/2003 | Systems and Methods That Enable Co-Channel Communications With A Base Station Of A Plurality Of Radioterminals                                                                                                       | 07/28/2003           | 014312 | 0640   | 9301-85PR      |
| Karabinis et al. | 60/477,522  | 06/11/2003 | Satellite Assisted Push-to-Send Radioterminal Systems, Methods and Protocols                                                                                                                                         | 03/11/2004           | 015059 | 0265   | 9301-86PR      |
| Karabinis et al. | 60/490,993  | 07/30/2003 | Intra- and Inter-System Interference Reduce Systems and Methods for Satellite Communications Systems                                                                                                                 | 10/24/2003           | 014621 | 0287   | 9301-87PR      |

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|------------------|-------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|--------|----------------|
| Karabinis et al. | 10/890,758  | 07/14/2004 | Intra-and/or Inter-System Interference Reduce Systems and Methods for Satellite Communications Systems                                                                  | 09/29/2004           | 015198 | 0616   | 9301-87        |
| Karabinis        | 60/490,638  | 07/28/2003 | Systems and Methods For Modifying Antenna Radiation Patterns Of Peripheral Base Stations Of An Ancillary Terrestrial Component To Allow Reduced Interference            | 10/24/2003           | 014621 | 0242   | 9301-88PR      |
| Karabinis        | 60/492,710  | 08/05/2003 | Additional Systems and Methods For Modifying Antenna Radiation Patterns Of Peripheral Base Stations Of An Ancillary Terrestrial Component To Allow Reduced Interference | 10/24/2003           | 014621 | 0236   | 9301-88PR2     |
| Karabinis        | 10/880,023  | 06/28/2004 | Systems and Methods For Modifying Antenna Radiation Patterns Of Peripheral Base Stations Of An Ancillary Terrestrial Component To Allow Reduced Interference            | 09/15/2004           | 015155 | 0107   | 9301-88        |
| Karabinis et al. | 60/497,269  | 08/22/2003 | Time-Frequency Division Multiplexing (T-FDM) and/or Orthogonal FDM (OFDM) Systems and Methods Employing Unsymmetrical Sub-Band Carrier Groupings                        | 07/22/2004           | 014889 | 0283   | 9301-89PR      |
| Karabinis et al. | 10/914,515  | 08/09/2004 | Time-Frequency Division Multiplexing (T-FDM) and/or Orthogonal FDM (OFDM) Systems and Methods Employing Unsymmetrical Sub-Band Carrier Groupings                        | 12/20/2004           | 015479 | 0201   | 9301-89        |
| Dutta            | 60/505,526  | 09/23/2003 | Mobility Management for Hybrid Terrestrial-Satellite Networks                                                                                                           | 10/24/2003           | 014621 | 0273   | 9301-91PR      |
| Dutta            | 10/948,606  | 09/23/2004 | Systems and Methods for Mobility Management in Overlaid Mobile Communications Systems                                                                                   | 11/15/2004           | 015376 | 0528   | 9301-91        |
| Karabinis        | 60/538,299  | 01/22/2004 | Satellite With Different Size Service Link Antennas and Radioterminal Communication Methods Using Same                                                                  | 01/31/2005           | 015634 | 0782   | 9301-92PR      |
| Karabinis        | 11/036,230  | 01/14/2005 | Satellite With Different Size Service Link Antennas and Radioterminal Communication Methods Using Same                                                                  | 04/18/2005           | 016088 | 0832   | 9301-92        |
| Churan           | 60/551,526  | 03/09/2004 | Code Synchronization Over Satellite Return Path                                                                                                                         | 05/19/2004           | 015373 | 0820   | 9301-93PR      |
| Churan           | 11/067,066  | 02/25/2005 | Code Synchronization in CDMA Satellite Wireless Communications System Using Uplink Channel Detection                                                                    | 04/07/2005           | 016024 | 0646   | 9301-93        |
| Levin et al.     | 10/827,961  | 04/20/2004 | Extraterrestrial Communications Systems and Methods Including Ancillary Extraterrestrial Components                                                                     | 04/20/2004           | 015245 | 0264   | 9301-94        |

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|------------------|-------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|--------|----------------|
| Singh et al.     | 60/555,283  | 03/22/2004 | Multi-Band Satellite Radioterminal Communications Systems and Methods With Common Return Link Band                                                    | 07/22/2004           | 014888 | 0478   | 9301-95PR      |
| Karabinis        | 60/564,177  | 04/21/2004 | Mobile Terminals Including Multiple Satellite Band Service Links, and Related Systems and Methods                                                     | 06/29/2004           | 014790 | 0416   | 9301-98PR      |
| Karabinis        | 60/561,325  | 04/12/2004 | Different Utilization of Satellite Frequency Bands by a Space-Based Network and an Ancillary Terrestrial Network                                      | 06/29/2004           | 014790 | 0452   | 9301-99PR      |
| Karabinis        | 60/560,221  | 04/07/2004 | Satellite/Hands-Free Interlock Systems and Methods of Radioterminals                                                                                  | 06/29/2004           | 014790 | 0473   | 9301-100PR     |
| Dutta            | 60/583,218  | 06/25/2004 | Methods of Ground Based Beamforming and On-Board Frequency Translation and Related Systems                                                            | 07/20/2004           | 014873 | 0630   | 9301-108PR     |
| Karabinis        | 10/979,295  | 11/02/2004 | Apparatus and Methods for Power Control in Satellite Communications Systems With Satellite-Linked Terrestrial Stations                                | 02/08/2005           | 015716 | 0553   | 9301-109       |
| Karabinis        | 60/573,253  | 05/21/2004 | Systems and Methods for Space-Based Reuse of Terrestrial Cellular Frequency Spectrum                                                                  | 07/27/2004           | 014907 | 0834   | 9301-112PR     |
| Karabinis et al. | 60/573,992  | 05/24/2004 | Control Channel Synchronization of Terrestrial-Only Radioterminals to Space-Based Networks                                                            | 08/31/2004           | 015095 | 0241   | 9301-113PR     |
| Karabinis et al. | 60/572,164  | 05/18/2004 | Space-Based Networks and Methods With Ground-Based Beam Forming                                                                                       | 10/19/2004           | 015263 | 0343   | 9301-114PR     |
| Karabinis        | 60/573,991  | 05/24/2004 | Systems And Methods For Monitoring Selected Terrestrially Reused Satellite Frequency Signals To Reduce Potential Interference                         | 08/10/2004           | 015059 | 0378   | 9301-115PR     |
| Karabinis        | 60/598,975  | 08/05/2004 | Systems And Methods For Monitoring Selected Terrestrially Reused Satellite Frequency Signals To Reduce Potential Interference                         | 10/19/2004           | 015263 | 0155   | 9301-115PR2    |
| Karabinis        | 10/979,404  | 11/02/2004 | Multi Frequency Band/Multi Air Interface/Multi Spectrum Reuse Cluster Size/Multi Cell Size Satellite Radioterminal Communications Systems and Methods | 01/31/2005           | 015634 | 0867   | 9301-117       |
| Karabinis et al. | 60/600,575  | 08/11/2004 | Satellite-Band Spectrum Utilization for Reduced or Minimum Interference                                                                               | 08/26/2004           | 015086 | 0261   | 9301-119PR     |
| Dutta            | 60/629,794  | 11/19/2004 | Electronic Antenna Beam Steering Using Ancillary, Asynchronous, Pilot Channel Receivers                                                               | 12/16/2004           | 015470 | 0224   | 9301-120PR     |
| Mallinckrodt     | 07/495,497  | 03/19/1990 | Integrated Cellular Communications Systems                                                                                                            | 01/05/2005           | 015530 | 0272   | 9301-121       |
| Mallinckrodt     | 07/781,972  | 10/24/1991 | Integrated Cellular Communications Systems                                                                                                            | 01/05/2005           | 015530 | 0275   | 9301-122       |
| Mallinckrodt     | 08/145,246  | 10/28/1993 | Integrated Cellular Communications System                                                                                                             | 01/05/2005           | 015530 | 0275   | 9301-123       |

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|-----------------|-------------|------------|-------------------------------------------------------------------------------------------------------------------|----------------------|--------|--------|----------------|
| Otten           | 08/223,437  | 04/05/1994 | System and Method for Mobile Communications in Coexistence With Established Communications Systems                | 01/05/2005           | 015530 | 0292   | 9301-124       |
| Otten et al.    | 08/255,341  | 06/07/1994 | Communications System                                                                                             | 01/05/2005           | 015533 | 0962   | 9301-125       |
| Mallinckrodt    | 08/444,574  | 05/19/1995 | Position Determination In An Integrated Cellular Communications System                                            | 01/05/2005           | 015530 | 0289   | 9301-131       |
| Mallinckrodt    | 08/444,573  | 05/19/1995 | Power Control Of An Integrated Cellular Communications System                                                     | 01/05/2005           | 015539 | 0326   | 9301-132       |
| Otten           | 08/679,848  | 07/15/1996 | System for Mobile Communications in Coexistence With Communication Systems Having Priority                        | 01/05/2005           | 015530 | 0702   | 9301-133       |
| Otten           | 08/751,651  | 11/18/1996 | Position Determination for Reducing Unauthorized Use Of A Communication System                                    | 01/05/2005           | 015530 | 0736   | 9301-134       |
| Mallinckrodt    | 08/780,519  | 01/08/1997 | Power Control Of An Integrated Cellular Communications System                                                     | 01/05/2005           | 015530 | 0727   | 9301-135       |
| Mallinckrodt    | 08/815,310  | 03/11/1997 | Position Determination In An Integrated Cellular Communications System                                            | 01/05/2005           | 015539 | 0472   | 9301-136       |
| Mallinckrodt    | 08/944,727  | 10/06/1997 | Controller for Cellular Communications System                                                                     | 01/05/2005           | 015530 | 0767   | 9301-137       |
| Mallinckrodt    | 08/944,570  | 10/06/1997 | Communications System Including Control Means For Designating Communication Between Space Nodes And Surface Nodes | 01/05/2005           | 015530 | 0906   | 9301-138       |
| Mallinckrodt    | 09/181,492  | 10/28/1998 | Communications System                                                                                             | 01/05/2005           | 015530 | 0909   | 9301-140       |
| Mallinckrodt    | 09/182,724  | 10/29/1998 | Position Determination In An Integrated Cellular Communications System                                            | 01/05/2005           | 015530 | 0970   | 9301-141       |
| Mallinckrodt    | 09/260,161  | 03/01/1999 | Power Control Of An Integrated Cellular Communications System                                                     | 01/05/2005           | 015530 | 0895   | 9301-142       |
| Otten           | 09/371,316  | 08/10/1999 | Hybrid Satellite Communications System                                                                            | 01/05/2005           | 015530 | 0892   | 9301-143       |
| Otten et al.    | 10/246,868  | 09/17/2002 | Data Communications Systems and Methods Using Different Wireless Links for Inbound and Outbound Data              | 01/05/2005           | 055540 | 0062   | 9301-145       |
| Mayfield et al. | 10/374,375  | 02/25/2003 | Security System For Defeating Satellite Television Privacy                                                        | 01/05/2005           | 015540 | 0003   | 9301-146       |
| Karabinis       | 11/006,318  | 12/07/2004 | Broadband Wireless Communications Systems and Methods Using Multiple Non-Contiguous Frequency Bands/Segments      | 01/31/2005           | 015634 | 0864   | 9301-148       |
| Karabinis       | 60/628,149  | 11/16/2004 | Satellite Communications Systems and Methods Having Shared Ground Infrastructure                                  | 01/31/2005           | 015634 | 0826   | 9301-149PR     |
| Karabinis       | 60/636,594  | 12/16/2004 | Location-Based Broadcast Messaging For Radioterminal Users                                                        | 01/31/2005           | 015634 | 0766   | 9301-150PR     |
| Karabinis       | 60/636,592  | 12/16/2004 | Prediction of Uplink Interference Potential Generated By An Ancillary Terrestrial Network                         | 01/31/2005           | 015635 | 0166   | 9301-151PR     |

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|------------------|-------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|--------|----------------|
| Zheng            | 60/641,560  | 01/05/2005 | Adaptive Beam-Forming With Interference Suppression and Multi-User Detection In Satellite Systems With Terrestrial Reuse of Frequencies | 03/18/2005           | 015920 | 0433   | 9301-152PR     |
| Karabinis et al. | 60/655,199  | 02/22/2005 | Reusing Frequencies of a Fixed and/or Mobile Communications System                                                                      | 04/18/2005           | 016088 | 0705   | 9301-155PR     |
| Karabinis        | 60/655,150  | 02/22/2005 | Using Different Service Link Polarizations to Increase Service Link Capacity of a Satellite Communication System                        | 04/18/2005           | 016088 | 0660   | 9301-156PR     |
| Karabinis        | 60/655,148  | 02/22/2005 | Satellites Using Inter-Satellite Links to Create Indirect Feeder Link Paths                                                             | 04/18/2005           | 016088 | 0637   | 9301-157PR     |
| Karabinis        | 60/660,755  | 03/11/2005 | Interference Reduction In Forward Link Satellite Communications by Predistortion                                                        | 04/18/2005           | 016088 | 0734   | 9301-158PR     |
| Karabinis et al. | 60/659,794  | 03/09/2005 | Interference Reduction in Satellite Communications by Excision                                                                          | 04/18/2005           | 016088 | 0701   | 9301-159PR     |
| Karabinis        | 60/659,463  | 03/08/2005 | Reusing Spectrum of Another Satellite Operator for MSS and ATC Without Exceeding a Coordination Threshold                               | 04/18/2005           | 016088 | 0698   | 9301-160PR     |
| Karabinis        | 60/661,364  | 03/14/2005 | Satellite Communications Systems and Methods With Distributed and/or Centralized Architecture Including Ground-Based Beam Forming       | 04/18/2005           | 016088 | 0604   | 9301-161PR     |

### ASSIGNMENT

THIS ASSIGNMENT, made by **Mobile Satellite Ventures, LP**, a Delaware limited partnership, having a principal place of business at Reston, County of Fairfax, State of Virginia, hereinafter referred to as assignor;

WITNESSETH: That,

WHEREAS the above named limited partnership is the owner of the entire right, title, and interest in and to the U.S. patents and patent applications set forth in Schedule A attached hereto, and all rights therein provided by international conventions or treaties, and the inventions disclosed and claimed therein, and any applications that rely on one or more of the patents and patent applications set forth in Schedule A for priority, including with respect to all of the foregoing, any and all divisionals, continuations, continued prosecution applications, continuations-in-part, reissues, reexaminations thereof as well as foreign counterparts thereof, together with all patents issuing on any of the aforesaid applications for a patent (collectively the "Patents and Applications");

WHEREAS **ATC Technologies, LLC**, a Delaware limited liability corporation, having its principal place of business at Reston, County of Fairfax, State of Virginia, hereinafter referred to as assignee, is desirous of acquiring the assignor's entire right, title, and interest in and to said Patents and Applications;

NOW, THEREFORE, To All Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the above assignor has sold and by these presents does hereby sell, assign, transfer, and convey unto the said assignee, its successors and assigns, its entire right, title, and interest in and to said Patents and Applications, for the full end of the term for which said Patents and Applications may be granted along with any term extensions thereon or therefor, together with the right to claim the priority of said application in all foreign countries in accordance with the international conventions or treaties, the same to be held and enjoyed by said assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by assignor if this assignment and sale had not been made.

The assignor further covenants and agrees that, at the time of the execution and delivery of these presents, it possesses full title to said Patents and Applications, and that it has the unencumbered right and authority to make this assignment.

The assignor further covenants and agrees to promptly communicate to said assignee or its representatives any facts known to the assignor relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said Patents and Applications.

IN WITNESS WHEREOF, the assignor has caused this assignment to be executed this

16<sup>th</sup> day of JUNE, 2005.

By:

Alexander H. Good  
Vice Chairman and CEO  
Mobile Satellite Ventures, LP

(SEAL)

STATE OF VIRGINIA

)

) ss:

COUNTY OF FAIRFAX

)

Before me personally appeared Alexander H. Good, to me known to be the person described in and who executed the foregoing instrument, and she acknowledged to me that she executed the same for the purposes therein stated, this 16<sup>th</sup> day of JUNE, 2005.

Notary Public



My Commission Expires: My Commission Expires December 31, 2006