

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT

**CONVEYING PARTY DATA**

Name	Execution Date
ATC Technologies, LLC	03/30/2006
Mobile Satellite Ventures LP	03/30/2006

**RECEIVING PARTY DATA**

Name:	The Bank of New York
Street Address:	101 Barclay St
Internal Address:	8W
City:	New York
State/Country:	NEW YORK
Postal Code:	10286

**PROPERTY NUMBERS Total: 159**

Property Type	Number
Patent Number:	4896336
Patent Number:	4904930
Patent Number:	4922206
Patent Number:	5073900
Patent Number:	5313493
Patent Number:	5339330
Patent Number:	5450447
Patent Number:	5475597
Patent Number:	5485170
Patent Number:	5454007
Patent Number:	5446756
Patent Number:	5512912
Patent Number:	5511233

**OP \$6360.00 4896336**

Patent Number:	D367043
Patent Number:	5594953
Patent Number:	5612703
Patent Number:	5613223
Patent Number:	5594461
Patent Number:	5604972
Patent Number:	D380201
Patent Number:	5748742
Patent Number:	5719771
Patent Number:	5913164
Patent Number:	5708716
Patent Number:	5713075
Patent Number:	5815809
Patent Number:	5850602
Patent Number:	6522635
Patent Number:	5717830
Patent Number:	6449461
Patent Number:	5926745
Patent Number:	5898681
Patent Number:	5923648
Patent Number:	5982813
Patent Number:	5982761
Patent Number:	5842125
Patent Number:	5835857
Patent Number:	6112083
Patent Number:	5878329
Patent Number:	6016423
Patent Number:	6850497
Patent Number:	6112085
Patent Number:	6272341
Patent Number:	5832379
Patent Number:	5940753
Patent Number:	6185409
Patent Number:	6058307
Patent Number:	6035039

Patent Number:	6208859
Patent Number:	6122671
Patent Number:	6292473
Patent Number:	6477370
Patent Number:	6278861
Patent Number:	6272338
Patent Number:	5995832
Patent Number:	6130887
Patent Number:	6301232
Patent Number:	6407986
Patent Number:	6108561
Patent Number:	6343205
Patent Number:	6463040
Patent Number:	6587443
Patent Number:	6522865
Patent Number:	6243580
Patent Number:	6411806
Patent Number:	6542739
Patent Number:	6529731
Patent Number:	6992991
Patent Number:	6636721
Patent Number:	6892068
Patent Number:	6859652
Patent Number:	6684057
Patent Number:	6856787
Patent Number:	6999720
Patent Number:	6937857
Patent Number:	6785543
Patent Number:	6879829
Application Number:	10246868
Application Number:	10225615
Application Number:	10225613
Application Number:	10156363
Application Number:	10225616
Application Number:	10374375

Application Number:	10353308
Application Number:	10343471
Application Number:	10730660
Application Number:	10751715
Application Number:	10795875
Application Number:	10795620
Application Number:	10819542
Application Number:	10317320
Application Number:	10447461
Application Number:	10880023
Application Number:	10890758
Application Number:	10914515
Application Number:	10932810
Application Number:	10965303
Application Number:	10948606
Application Number:	11021077
Application Number:	11036637
Application Number:	11036230
Application Number:	11069305
Application Number:	11095007
Application Number:	11079574
Application Number:	11067006
Application Number:	11133102
Application Number:	11146463
Application Number:	11061346
Application Number:	11094931
Application Number:	11082458
Application Number:	11096862
Application Number:	10827961
Application Number:	11142119
Application Number:	11126799
Application Number:	11131044
Application Number:	11178883
Application Number:	11178930
Application Number:	11147048

Application Number:	11167010
Application Number:	11252956
Application Number:	11241519
Application Number:	11200609
Application Number:	60731426
Application Number:	11300868
Application Number:	11325696
Application Number:	11356418
Application Number:	10979295
Application Number:	10979404
Application Number:	11044477
Application Number:	11281078
Application Number:	11006318
Application Number:	11280621
Application Number:	11291192
Application Number:	11295383
Application Number:	11324711
Application Number:	60661690
Application Number:	60662053
Application Number:	60655199
Application Number:	11313039
Application Number:	60655148
Application Number:	11367065
Application Number:	60660755
Application Number:	11367955
Application Number:	60659794
Application Number:	11355639
Application Number:	60661364
Application Number:	11098288
Application Number:	60725813
Application Number:	60692758
Application Number:	60692404
Application Number:	60696574
Application Number:	60700928
Application Number:	60703842

Application Number:	60706823
Application Number:	60707418
Application Number:	60760432
Application Number:	60773490
Application Number:	60777602
Application Number:	11197357

**CORRESPONDENCE DATA**

Fax Number: (202)728-0744  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
Phone: 2027216439  
Email: daved.davitalvitch@thomson.com  
Correspondent Name: CSC Networks/Prentice Hall  
Address Line 1: 80 State St  
Address Line 2: 6th Floor  
Address Line 4: Albany, NEW YORK 12207

NAME OF SUBMITTER:	Daved Alexander
--------------------	-----------------

Total Attachments: 31  
source=Patent Security Agreement#page1.tif  
source=Patent Security Agreement#page2.tif  
source=Patent Security Agreement#page3.tif  
source=Patent Security Agreement#page4.tif  
source=Patent Security Agreement#page5.tif  
source=Patent Security Agreement#page6.tif  
source=Patent Security Agreement#page7.tif  
source=Patent Security Agreement#page8.tif  
source=Patent Security Agreement#page9.tif  
source=Patent Security Agreement#page10.tif  
source=Patent Security Agreement#page11.tif  
source=Patent Security Agreement#page12.tif  
source=Patent Security Agreement#page13.tif  
source=Patent Security Agreement#page14.tif  
source=Patent Security Agreement#page15.tif  
source=Patent Security Agreement#page16.tif  
source=Patent Security Agreement#page17.tif  
source=Patent Security Agreement#page18.tif  
source=Patent Security Agreement#page19.tif  
source=Patent Security Agreement#page20.tif  
source=Patent Security Agreement#page21.tif  
source=Patent Security Agreement#page22.tif  
source=Patent Security Agreement#page23.tif  
source=Patent Security Agreement#page24.tif  
source=Patent Security Agreement#page25.tif  
source=Patent Security Agreement#page26.tif  
source=Patent Security Agreement#page27.tif  
source=Patent Security Agreement#page28.tif

source=Patent Security Agreement#page29.tif  
source=Patent Security Agreement#page30.tif  
source=Patent Security Agreement#page31.tif

## Patent Security Agreement

**Patent Security Agreement**, dated as of March 30, 2006, by ATC Technologies, LLC a Delaware limited liability company and Mobile Satellite Ventures LP a Delaware limited partnership both located at 10802 Parkridge Boulevard, Reston, Virginia as pledgors and debtors (each individually a "Pledgor" and collectively the "Pledgors"), in favor of The Bank of New York, a New York banking corporation located at 101 Barclay Street - 7E New York, New York in its capacity as collateral agent, pledgee and Secured Party pursuant to the Security Agreement (in such capacity, the "Collateral Agent").

### WITNESSETH:

WHEREAS, the Pledgors, among other pledgors, are parties to a Security Agreement dated as of March 30, 2006 (the "Security Agreement") in favor of the Collateral Agent pursuant to which the Pledgors are required to execute and deliver this Patent Security Agreement;

NOW, THEREFORE, in consideration of the foregoing promises and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Pledgors and Collateral Agent hereby agree as follows:

SECTION 1. Defined Terms. Unless otherwise defined herein, capitalized terms used herein shall have the meaning assigned to them in the Security Agreement.

SECTION 2. Grant of Security Interest in Patent Collateral. As collateral security for the payment and performance in full of the Secured Obligations, each Pledgor hereby pledges and grants to the Collateral Agent for the benefit of the Secured Parties, a lien on and security interest in all of the right title and interest of such Pledgor in, to and under all the following Pledged Collateral of such Pledgor (other than Excluded Assets):

- (a) Patents of such Pledgor listed on Schedule I attached hereto; and
- (b) all Proceeds of any and all of the foregoing.

SECTION 3. Security Agreement. The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Collateral Agent pursuant to the Security Agreement, and Pledgors hereby acknowledge and affirm that the rights and remedies of the Collateral Agent with respect to the security interest in the Patents made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control unless the Collateral Agent shall otherwise determine.



SECTION 4. Termination. This Patent Security Agreement shall terminate and the collateral pledged hereunder shall be released in accordance with Section 12.7 of the Security Agreement.

SECTION 5. Counterparts. This Patent Security Agreement may be executed in any number of counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed to be an original but all such counterparts together shall constitute one and the same instrument, and any party hereto may execute this Patent Security Agreement by signing and delivering one or more counterparts.

---

[signature page follows]

IN WITNESS WHEREOF, the Pledgors have caused this Patent Security Agreement to be duly executed and delivered by its duly authorized officer as of the date above first written.

Very truly yours,

ATC TECHNOLOGIES, LLC

By: Randy Segal  
Name: Randy Segal  
Title: SVP

MOBILE SATELLITE VENTURES LP

By: Randy Segal  
Name: Randy Segal  
Title: SVP

Acknowledged and Agreed to:

THE BANK OF NEW YORK, as Collateral Agent

By: \_\_\_\_\_

Name:

Title:



REMO J. REALE  
VICE PRESIDENT

[Patent Security Agreement]

PATENT  
REEL: 017435 FRAME: 0613

STATE OF New York )

: ss.:

COUNTY OF New York )

On this 30 day of March, 2006 before me personally came Landy Segal,  
who being duly sworn, did depose and say that she is Senior Vice President of ATC Technologies LLC  
and the Senior Vice President of Mobile Satellite Ventures LP, that she is authorized to execute the foregoing Patent  
Security Agreement on behalf of said corporations and that she did so by authority of the Board  
of Directors of said corporations.

Eileen C. Thomson

Notary Public

EILEEN C. THOMSON  
NOTARY PUBLIC, State of New York  
No. 01TH4681414  
Qualified in Nassau County  
Commission Expires Sept. 30, 2008

[Patent Security Agreement]

PATENT  
REEL: 017435 FRAME: 0614

**SCHEDULE I**  
to  
**PATENT SECURITY AGREEMENT**  
**PATENTS AND PATENT APPLICATIONS**

**UNITED STATES PATENTS:**

**UNITED STATES PATENTS:**

U.S. Patents:

OWNER	PATENT NUMBER	DESCRIPTION
ATC Technologies, LLC	4896336	Differential Phase-Shift Keying Demodulator
ATC Technologies, LLC	4904930	Method of Carrier Frequency Estimation
ATC Technologies, LLC	4922206	Method of Demodulation Using Split Delay Line
ATC Technologies, LLC	5073900	Integrated Cellular Communications System
ATC Technologies, LLC	5313493	Plural-Differential, Phase-Shift-Keyed Modulation, Communication System
ATC Technologies, LLC	5339330	Integrated Cellular Communications Systems
ATC Technologies, LLC	5450447	Adaptive Variable-Gain Phase and Frequency Locked Loop for Rapid Carrier Acquisition
ATC Technologies, LLC	5475597	System for Mapping Occurrences of Predetermined Conditions in a Transport Route
ATC Technologies, LLC	5485170	MSAT Mast Antenna with Reduced Frequency Scanning
ATC Technologies, LLC	5454007	Arrangement for and Method of Concurrent Quadrature Downconversion Input Sampling of a Bandpass Signal
ATC Technologies, LLC	5446756	Integrated Cellular Communications Systems
ATC Technologies, LLC	5512912	Marine Antenna Mount
ATC Technologies, LLC	5511233	System and Method for Mobile Communications in Coexistence with Established Communications Systems
ATC Technologies, LLC	D367043	Mobile Communicator Computer
ATC Technologies, LLC	5594953	Mobile Communicator System
ATC Technologies, LLC	5612703	Position Determination in an Integrated Cellular Communications System
ATC Technologies, LLC	5613223	Mobile Communicator Bracing System

ATC Technologies, LLC	5594461	Low Loss Quadrature Matching Network for Quadrifilar Helix Antenna
ATC Technologies, LLC	5604972	Method of Manufacturing a Helical Antenna
ATC Technologies, LLC	D380201	Mobile Communicator Computer
ATC Technologies, LLC	5748742	Fraud Detection and User Validation System for Mobile Earth Terminal Communication Device
ATC Technologies, LLC	5719771	System for Mapping Occurrences of Conditions in a Transport Route
ATC Technologies, LLC	5913164	Conversion System Used in Billing System for Mobile Satellite System
ATC Technologies, LLC	5708716	Fraud Detection and User Validation System for Mobile Earth Terminal Communication Device
ATC Technologies, LLC	5713075	Network Engineering/ Systems Engineering System for Mobile Satellite Communication System
ATC Technologies, LLC	5815809	Mobile Earth Terminal Communication Device Providing Voice, Data, Facsimile, and/or Roaming Communication Features
ATC Technologies, LLC	5850602	Communication Protocol for Mobile Earth Terminal Communication Device Used in Mobile Satellite Communication System
ATC Technologies, LLC	6522635	Communication Protocol for Satellite Data Processing
ATC Technologies, LLC	5717830	Satellite Trunked Radio Service System
ATC Technologies, LLC	6449461	System for Mobile Communications in Coexistence with Communication Systems Having Priority
ATC Technologies, LLC	5926745	Network Operations Center for Mobile Earth Terminal Satellite Communications System
ATC Technologies, LLC	5898681	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
ATC Technologies, LLC	5923648	Methods of Dynamically Switching Return Channel Transmissions of Time-Division Multiple-Access (TDMA) Communication Systems Between Signalling Burst Transmissions and Message Transmissions
ATC Technologies, LLC	5982813	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
ATC Technologies, LLC	5982761	Methods of Communicating Over Time-Division Multiple-Access (TDMA) Communication Systems with Distinct Non-Time-Critical and Time-Critical Network Management Information Transmission Rates
ATC Technologies, LLC	5842125	Network Control Center for Satellite Communication System
ATC Technologies, LLC	5835857	Position Determination for Reducing Unauthorized Use of a Communication System

ATC Technologies, LLC	6112083	Full Service Dispatcher for Satellite Trunked Radio Service System
ATC Technologies, LLC	5878329	Power Control of an Integrated Cellular Communications System
ATC Technologies, LLC	6016423	Mobile Communicator System
ATC Technologies, LLC	6850497	Satellite Trunked Radio Service System
ATC Technologies, LLC	6112085	Virtual Network Configuration and Management System for Satellite Communication System
ATC Technologies, LLC	6272341	Network Engineering/ Systems Engineering System for Mobile Satellite Communication System
ATC Technologies, LLC	5832379	Communications Systems Including Control Means for Designating Communication Between Space Nodes and Surface Nodes
ATC Technologies, LLC	5940753	Controller for Cellular Communications System
ATC Technologies, LLC	6185409	Network Engineering/ Systems Engineering System for Mobile Satellite Communication System
ATC Technologies, LLC	6058307	Priority and Preemption Service System for Satellite Related Communication Using Central Controller
ATC Technologies, LLC	6035039	Fraud Detection and User Validation System for Mobile Earth Terminal Communication Device
ATC Technologies, LLC	6208859	Service Preemption for Mobile Terminals in a Mobile Satellite Communications System
ATC Technologies, LLC	6122671	Mobile Communications from Computer Aided Dispatch System Via a Customer Premises Gateway for Satellite Communication System
ATC Technologies, LLC	6292473	Mobile Communications Terminal for Satellite Communications System
ATC Technologies, LLC	6477370	Improved Satellite Trunked Radio Service System
ATC Technologies, LLC	6278861	Mobile Earth Terminal with Roaming Capability
ATC Technologies, LLC	6272338	Network Control Center for Satellite Communication System
ATC Technologies, LLC	5995832	Communications Systems
ATC Technologies, LLC	6130887	Methods of Dynamically Switching Return Channel Transmissions of Time-Division Multiple-Access (TDMA) Communication Systems Between Signalling Burst Transmissions and Message Transmissions
ATC Technologies, LLC	6301232	Methods of Dynamically Switching Return Channel Transmissions of Time-Division Multiple-Access (TDMA) Communication Systems Between Signalling Burst Transmissions and Message Transmissions
ATC Technologies, LLC	6407986	Methods of Dynamically Switching Return Channel Transmissions of Time-Division Multiple-Access (TDMA) Communication Systems Between Signaling Burst Transmissions and Message Transmissions
ATC Technologies, LLC	6108561	Power Control of an Integrated Cellular Communications System

ATC Technologies, LLC	6343205	Network Operations Center for Mobile Earth Terminal Satellite Communications System
ATC Technologies, LLC	6463040	Methods of Communicating Overtime Division Multiple Access (TDMA) Communication Systems with Distinct Non-Time Critical and Time Critical Network Management Information Transmission Rates
ATC Technologies, LLC	6587443	Methods of Communicating Over Time-Division Multiple-Access (TDMA) Communication Systems with Distinct Non-Time-Critical and Time-Critical Network Management Information Transmission Rates
ATC Technologies, LLC	6522865	Hybrid Satellite Communications System
ATC Technologies, LLC	6243580	Priority and Preemption Service System for Satellite Related Communication Using Central Controller
ATC Technologies, LLC	6411806	Virtual Network Configuration and Management System for Satellite Communications System
ATC Technologies, LLC	6542739	Priority and Preemption Service System for Satellite Related Communication Using Central Controller
ATC Technologies, LLC	6529731	Network Control Center for Satellite Communication System
ATC Technologies, LLC	6992991	Mobile Communications Terminal for Satellite Communications System
ATC Technologies, LLC	6636721	Network Engineering/ Systems for Mobile Satellite Communication System
ATC Technologies, LLC	6892068	Coordinated Satellite-Terrestrial Frequency Reuse
ATC Technologies, LLC	6859652	Integrated or autonomous system and method of satellite-terrestrial frequency reuse using signal attenuation an/or blockage, dynamic assignment of frequencies an/or hysteresis
ATC Technologies, LLC	6684057	Systems and Methods for Terrestrial Reuse of Cellular Satellite Frequency Spectrum
ATC Technologies, LLC	6856787	Wireless Communications Systems and Methods Using Satellite-Linked Remote Terminal Interface Subsystems
ATC Technologies, LLC	6999720	Spatial Guardbands for Terrestrial Reuse of Satellite Frequencies
ATC Technologies, LLC	7006789	Space-Based Network Architectures for Satellite Radiotelephone Systems
ATC Technologies, LLC	6937857	Systems and Methods for Reducing Satellite Feeder Link Bandwidth/Carriers in Cellular Satellite Systems
ATC Technologies, LLC	6785543	Filters for Combined Radiotelephone/GPS Terminals
ATC Technologies, LLC	6879829	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



U.S. Patent Publications:

OWNER	APPLICATION NUMBER	DESCRIPTION	STATUS
ATC Technologies, LLC	10246868	Hybrid Satellite Communications System	Published [Pub. No. 20030022625]
ATC Technologies LLC [1]	10225615	Methods and Systems for Modifying Satellite Antenna Cell Patterns in Response to Terrestrial Reuse of Satellite Frequencies	Published [Pub. No. 20030054762]
ATC Technologies LLC [1]	10225613	Multi-Band/Multi-Mode Satellite Radiotelephone Communications Systems and Methods	Published [Pub. No. 20030054762]
ATC Technologies, LLC	10156363	Systems and Methods for Monitoring Terrestrially Reused Satellite Frequencies to Reduce Potential Interference	Published [Pub. No. 20030054814]
ATC Technologies, LLC	10225616	Additional Systems and Methods for Monitoring Terrestrially Reused Satellite Frequencies to Reduce Potential Interference	Published [Pub. No. 20030073436]
ATC Technologies, LLC	10374375	Security System for Defeating Satellite Television Piracy	Published [Pub. No. 20030149986]
ATC Technologies, LLC	10353308	Staggered Sectorization for Terrestrial Reuse of Satellite Frequencies	Published [Pub. No. 20030153308]
ATC Technologies LLC [1]	10343471	Coordinated Satellite-Terrestrial Frequency Reuse	Published [Pub. No. 20040023658]
ATC Technologies, LLC	10730660	Systems and Methods for Terrestrial Reuse of Cellular Satellite Frequency Spectrum in a Time-Division Duplex Mode	Published [Pub. No. 20040121727]
ATC Technologies, LLC	10751715	Network-Assisted Global Positioning Systems, Methods and Terminals Including Doppler Shift and Code Phase Estimates	Published [Pub. No. 20040142660]
ATC Technologies, LLC	10795875	Co-Channel Wireless Communication Methods and Systems Using Nonsymmetrical Alphabets	Published [Pub. No. 20040192200]
ATC Technologies, LLC	10795620	Satellite Assisted Push-To-Send Radioterminal Systems and Methods	Published [Pub. No. 20040192293]

ATC Technologies, LLC	10819542	Aggregate Radiated Power Control for Multi-Band/Multi-Mode Satellite Radiotelephone Communications Systems and Methods	Published [Pub. No. 20040192395]
ATC Technologies, LLC	10317320	Systems and Methods for Increasing Capacity and/or Quality of Service of Terrestrial Cellular and Satellite Systems Using Terrestrial Reception of Satellite Band Frequencies	Published [Pub. No. 20040203742]
ATC Technologies, LLC	10447461	Wireless Communications Methods and Apparatus Using Licensed-Use System Protocols with Unlicensed-Use Access Points	Published [Pub. No. 20040240525]
ATC Technologies, LLC	10880023	Systems and Methods for Modifying Antenna Radiation Patterns of Peripheral Base Stations of Terrestrial Network to Allow Reduced Interference	Published [Pub. No. 20050026606]
ATC Technologies, LLC	10890758	Intra-and/or Inter-System Interference Reducing Systems and Methods for Satellite Communications Systems	Published [Pub. No. 20050026606]
ATC Technologies, LLC	10914515	Wireless Systems, Methods and Devices Employing Forward-and/or Return-Link Carriers Having Different Numbers of Sub-Band Carriers	Published [Pub. No. 20050037749]
ATC Technologies, LLC	10932810	Systems and Methods for Inter-System Sharing of Satellite Communications Frequencies within a Common Footprint	Published [Pub. No. 20050041619]
ATC Technologies, LLC	10965303	Integrated or Autonomous System and Method of Satellite-Terrestrial Frequency Reuse Using Signal Attenuation and/or Blockage, Dynamic Assignment of Frequencies and/or Hysteresis	Published [Pub. No. 20050064813]
ATC Technologies, LLC	10948606	Systems and Methods for Mobility Management in Overlaid Mobile Communications Systems	Published [Pub. No. 20050090256]
ATC Technologies, LLC	11021077	Systems and Methods for Terrestrial Reuse of Cellular Satellite Frequency Spectrum in a Time-Division Duplex and/or Frequency-Division Duplex Mode	Published [Pub. No. 20050118948]

ATC Technologies, LLC	11036637	Additional Intra-and/or Inter-System Interference Reducing Systems and Methods for Satellite Communications Systems	Published [Pub. No. 20050136836]
ATC Technologies, LLC	11036230	Satellite with Different Size Service Link Antennas and Radioterminal Communication Methods Using the Same	Published [Pub. No. 20050164700]
ATC Technologies, LLC	11069305	Integrated or Autonomous System and Method of Satellite-Terrestrial Frequency Reuse Using Signal Attenuation and/or Blockage, Dynamic Assignment of Frequencies and/or Hysteresis	Published [Pub. No. 20050164701]
ATC Technologies, LLC	11095007	Systems And Methods for Handover Between Space Based And Terrestrial Radioterminal Communications	Published [Pub. No. 20050170834]
ATC Technologies, LLC	11079574	Coordinated Satellite-Terrestrial Frequency Reuse	Published [Pub. No. 20050181786]
ATC Technologies LLC [1]	11067006	Code Synchronization in CDMA Satellite Wireless Communications System Using Uplink Channel Detection	Published [Pub. No. 20050201449]
ATC Technologies, LLC	11133102	Systems and Methods for Monitoring Selected Terrestrially Reused Satellite Frequency Signals to Reduce Potential Interference	Published [Pub. No. 20050208890]
ATC Technologies, LLC	11146463	Systems and Methods for Reducing Satellite Feeder Link Bandwidth/Carriers in Cellular Satellite Systems	Published [Pub. No. 20050221757]
ATC Technologies, LLC	11061346	Multi-Band Satellite and/or Ancillary Terrestrial Component Radioterminal Communications Systems and Methods with Diversity Operation	Published [Pub. No. 20050227618]
ATC Technologies, LLC	11094931	Satellite/Hands-Free Interlock Systems and/or Companion Devices for Radioterminals and Related Methods	Published [Pub. No. 20050239399]
ATC Technologies, LLC	11082458	Systems and Methods with Different Utilization of Satellite Frequency Bands by a Spaced-Based Network and an Ancillary Terrestrial Network	Published [Pub. No. 20050239403]

ATC Technologies, LLC	11096862	Mobile Terminals and Set Top Boxes Including Multiple Satellite Band Service Links, and Related Systems and Methods	Published [Pub. No. 20050239404]
ATC Technologies, LLC	10827961	Extraterrestrial Communications Systems and Methods Including Ancillary Extraterrestrial Components	Published [Pub. No. 20050239457]
ATC Technologies, LLC	11142119	Radiotelephones and Operating Methods that Use a Single Radio Frequency Chain and a Single Baseband Processor for Space-based and terrestrial Communications	Published [Pub. No. 20050245192]
ATC Technologies LLC [1]	11126799	Satellite Communications Systems and Methods Using Radiotelephone Location-Based Beamforming	Published [Pub. No. 20050260947]
ATC Technologies, LLC	11131044	Systems and Methods for Space-Based Use of Terrestrial Cellular Frequency Spectrum	Published [Pub. No. 20050260984]
ATC Technologies, LLC	11178883	Integrated or Autonomous System and Method of Satellite-Terrestrial Frequency Reuse Using Signal Attenuation and/or Blockage, Dynamic Assignment of Frequencies and/or Hysteresis	Published [Pub. No. 20050272369]
ATC Technologies, LLC	11178930	Coordinated Satellite-Terrestrial Frequency Reuse	Published [Pub. No. 20050272369]
ATC Technologies, LLC	11147048	Systems and Methods for Terrestrial Use of Cellular Satellite Frequency Spectrum	Published [Pub No. 20050282542]
ATC Technologies LLC [1]	11167010	Methods of Ground Based Beamforming and On-Board Frequency Translation and Related Systems	Published [Pub. No. 20050288011]
ATC Technologies, LLC	11252956	Spatial Guardbands for Terrestrial Reuse of Satellite Frequencies	Published [Pub No. 20060040659]
ATC Technologies, LLC	11241519	Space-based network architectures for satellite radiotelephone systems	Published [Pub No. 20060040657]
ATC Technologies LLC [1]	11200609	Satellite-band spectrum utilization for reduced or minimum interference	Published [Pub. No. 20060040613]

ATC Technologies, LLC	11178883	Integrated or autonomous system and method of satellite-terrestrial frequency reuse using signal attenuation and/or blockage dynamic assignment of frequencies and/or hysteresis	Published [Pub. No. 20050265273]
ATC Technologies, LLC	10965303	Integrated or autonomous system and method of satellite-terrestrial frequency reuse using signal attenuation and/or blockage dynamic assignment of frequencies and/or hysteresis	Published [Pub. No. 20050079816]
ATC Technologies LLC [1]	1022615	Methods and systems for modifying satellite antenna cell patterns in response to terrestrial reuse of satellite frequencies	Published [Pub. No. 20030054815]

[1] The transfer of these published applications from Mobile Satellite Ventures LP to ATC Technologies LLC was submitted for recordation on March 29, 2006.

U.S. Patent Applications:

OWNER [2]	APPLICATION NUMBER	DESCRIPTION	STATUS
ATC Technologies LLC	60731426	Additional aggregate radiated power control for multi-band/multi-mode satellite radiotelephone communications systems and methods	Pending
ATC Technologies LLC	11300868	Aggregate radiated power control for multi-band/multi-mode satellite radiotelephone communications systems and methods	Pending
ATC Technologies LLC	11178930	Coordinated satellite-terrestrial frequency reuse	Pending
ATC Technologies LLC	11325696	Filters for combined radiotelephone/GPS terminals	Pending
ATC Technologies LLC	11356418	Methods and systems for modifying satellite antenna cell patterns in response to terrestrial use of satellite frequencies	Pending
ATC Technologies LLC	10979295	Apparatus and methods for power control in satellite communications systems with satellite-linked terrestrial stations	Pending

ATC Technologies LLC	10979404	Multi-frequency band/multi air interface/multi spectrum reuse cluster size/multi cell size satellite radioterminal communications systems and methods	Pending
ATC Technologies LLC	11044477	Satellite/terrestrial wireless communications systems and methods using disparate channel separation codes	Pending
ATC Technologies LLC	11281078	Electronic antenna beam steering using ancillary receivers and related methods	Pending
ATC Technologies LLC	11006318	Broadband wireless communications systems and methods using multiple non-contiguous frequency bands/segments	Pending
ATC Technologies LLC	11280621	Satellite communications systems, components and methods for operating shared satellite gateways	Pending
ATC Technologies LLC	11291192	Location-based broadcast message for radioterminal users	Pending
ATC Technologies LLC	11295383	Prediction of uplink interference potential generated by an ancillary terrestrial network and/or radioterminals	Pending
ATC Technologies LLC	11324711	Adaptive beam forming with multi-user detection and interference reduction in satellite communications systems and methods	Pending
ATC Technologies LLC	60661690	Methods and systems providing adaptive feeder links for ground based forming and related systems and satellites	Pending
ATC Technologies LLC	60662053	Intra-system and/or Inter-system reuse of feeder link frequencies including interference suppression systems and methods	Pending
ATC Technologies LLC	60655199	Reusing frequencies of a fixed and/or mobile communications system	Pending
ATC Technologies LLC	11313039	Satellite communications systems and methods using diverse polarizations	Pending
ATC Technologies LLC	60655148	Satellites using inter-satellite links to create indirect feeder link paths	Pending

ATC Technologies LLC	11367065	Modification of transmission values to compensate for interference in satellite down-link communications	Pending
ATC Technologies LLC	60660755	Interference reduction in forward link satellite communications by pre-distortion	Pending
ATC Technologies LLC	11367955	Reducing interference in a wireless communications signal in the frequency domain	Pending
ATC Technologies LLC	60659794	Interference reduction in satellite communications by excision	Pending
ATC Technologies LLC	11355639	Methods, radioterminals, and ancillary terrestrial components for communicating using spectrum allocated to another satellite operator	Pending
ATC Technologies LLC	60661364	Satellite communications systems and methods with distributed and/or centralized architecture including ground-based beam forming	Pending
ATC Technologies LLC	11098288	Radioterminals and associated operating methods that alternate transmission of wireless communications and processing of global positioning system signals	Pending
ATC Technologies LLC	60725813	Systems and methods for mobility management in overlaid mobile communications systems	Pending
ATC Technologies LLC	60692758	System and methods of waveform and/or information splitting for wireless transmission of information to one or more radioterminals over a plurality of transmission paths and/or systems	Pending
ATC Technologies LLC	60692404	Systems and methods of interference reduction to satellite terminals using ancillary terrestrial components with smart antennas	Pending
ATC Technologies LLC	60696574	Robust demodulation and decoding method for satellite-CDMA reverse access channel	Pending
ATC Technologies LLC	60700928	Carrier frequency-dependent filtering for cellular wireless communications transmitters	Pending

ATC Technologies LLC	60703842	Satellite communications apparatus and methods using asymmetrical forward and return link frequency reuse	Pending
ATC Technologies LLC	60706823	Systems and methods for reducing a number of feeder link antenna sites	Pending
ATC Technologies LLC	60707418	Systems and methods for reducing inter-and intra-system interference by adaptive beam forming antennas	Pending
ATC Technologies LLC	60760432	Systems and methods for satellite forward link transmit diversity and/or beamforming	Pending
ATC Technologies LLC	60773490	Adaptive spotbeam broadcasting, systems, methods and devices for high bandwidth content distribution over satellite	Pending
ATC Technologies LLC	60777602	Systems and methods for wireless communications over discontinuous spectrum segments	Pending
ATC Technologies LLC	11/197357	Systems and Methods for Facilitating Communications Over a Shared Channel	Pending

[2] The transfer of the unpublished applications from Mobile Satellite Ventures LP to ATC Technologies LLC was submitted for recordation on March 29, 2006.

**FOREIGN PATENTS AND APPLICATIONS:**

Patents:

OWNER [3]	PATENT NUMBER	COUNTRY/STATE	DESCRIPTION	STATUS
Mobile Satellite Ventures LP	2005117292	PCT; designates all states	Systems and Methods for Space-based Reuse of Terrestrial Cellular Frequency Spectrum	Pending
Mobile Satellite Ventures LP	2005044336	PCT; designates all states	Systems and Methods for Terrestrial Reuse of cellular Satellite Frequency Spectrum in a Time-Division Duplex and/or Frequency-Division Duplex Mode	Pending



Mobile Satellite Ventures LP	2005024458	PCT; designates all states	Additional Intra-and/or Inter-System Interference Reducing Systems and Methods for Satellite Communications Systems	Pending
Mobile Satellite Ventures LP	2005001451	PCT; designates all states	Satellite with Different Size Service Link Antennas and Radioterminal Communication Methods Using Same	Pending
Mobile Satellite Ventures LP	2005007483	PCT; designates all states	Code Synchronization Over Satellite Return Path	Pending
Mobile Satellite Ventures LP	2005008981	PCT; designates all states	Multi-Band Satellite and/or Ancillary Terrestrial Component Radioterminal Communications Systems and Methods with Diversity	Pending
Mobile Satellite Ventures LP	2005012825	PCT; designates all states	Mobile terminal and Set Top Boxes Including Multiple Satellite Band Service Links, and Related Systems and Methods	Pending
Mobile Satellite Ventures LP	2005012100	PCT; designates all states	Systems and Methods with Different Utilization of Satellite Frequency Bands by a Space-Based Network and an Ancillary Terrestrial Network	Pending
Mobile Satellite Ventures LP	2005022596	PCT; designates all states	Methods of Ground Based Beamforming and On-Board Frequency Translation and Related Systems	Pending
Mobile Satellite Ventures LP	2005039854	PCT; designates all states	Apparatus and Methods for Power Control in Satellite Communications Systems with Satellite-Linked Terrestrial Stations	Pending

Mobile Satellite Ventures LP	2005017253	PCT; designates all states	Satellite Communications Systems and Methods Using Radiotelephone Location-Based Beamforming	Pending
Mobile Satellite Ventures LP	2005017297	PCT; designates all states	Satellite Communications Systems and Methods Using Radiotelephone Location-Based Beamforming	Pending
Mobile Satellite Ventures LP	200518007	PCT; designates all states	Systems and Methods for Monitoring Selected Terrestrially Used Satellite Frequency Signals to Reduce Potential Interference	Pending
Mobile Satellite Ventures LP	2005036559	PCT; designates all states	Multi Frequency Band/Multi Air Interface/Multi Spectrum Reuse Cluster Size/Multi Cell Size Satellite Radioterminal Communications Systems and Methods	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Satellite/Terrestrial Wireless Communications Systems and Methods Using Disparate Channel Separation Codes	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Satellite-Band Spectrum Utilization for Reduced or Minimum Interference	Published
Mobile Satellite Ventures LP	2005041992	PCT; designates all states	Electronic Antenna Beam Steering Using Ancillary Receivers and Related Methods	Pending
Mobile Satellite Ventures LP	2005040400	PCT; designates all states	Broadband Wireless Communications Systems and Methods Using Multiple Non-Contiguous Frequency Bands/Segments	Pending
Mobile Satellite Ventures LP	2005041559	PCT; designates all states	Satellite Communications Systems, Components and Methods For Operating Shared Satellite Gateways	Pending

Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Location-Based Broadcast Message for Radioterminal Users	Pending
Mobile Satellite Ventures LP	2005044122	PCT; designates all states	Prediction of Uplink Interference Potential Generated by an Ancillary Terrestrial Network and/or Radio Terminals	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Adaptive Beam-Forming with Multi-User Detection and Interference Reduction in Satellite Communications Systems and Methods	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Methods and Systems Providing Adaptive Feeder links for Ground Based Beam Forming and Related Systems and Satellites	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Intra-System and or/Inter-System Reuse of Feeder Link Frequencies Including Interference Suppression Systems and Methods	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Reusing Frequencies of a Fixed and/or Mobile Communications System	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Satellite Communications Systems and Methods Using Diverse Polarizations	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Satellites Using Inter-Satellite Links to Create Indirect Feeder Link Paths	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Interference Reduction in Forward Link Satellite Communications by Pre-Distortion	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Interference Reduction in Satellite Communications by Excision	Pending

Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Reusing Spectrum of Another Satellite Operator for MSS and ATC Without Exceeding a Coordinated Threshold	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Satellite Communications Systems and Methods with Distributed and/or Centralized Architecture Including Ground-Based Beam Forming	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	PCT; designates all states	Radioterminals and Associated Operating Methods that Alternate Transmission of Wireless Communications and Processing of Global Positioning System Signals	Pending
Mobile Satellite Ventures LP	2004241972	Australia	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	Pending
Mobile Satellite Ventures LP	PI04084470	Brazil		Pending
ATC Technologies, LLC	2518778	Canada		Issued
Mobile Satellite Ventures LP	2004800131534	China		Pending
Mobile Satellite Ventures LP	1625759	Europe; designates all states		Published
Mobile Satellite Ventures LP	Application number not yet assigned	Japan		Pending
Mobile Satellite Ventures LP	169914	Israel		Pending
Mobile Satellite Ventures LP	3370DELNP2005	India		Pending
Mobile Satellite Ventures LP	20057016255	Korea, Republic of		Pending

Mobile Satellite Ventures LP	2005012324	Mexico		Pending
ATC Technologies, LLC.	2484232	Canada	Systems and Methods for reducing Satellite Feeder Link Bandwidth/Carriers in Cellular Systems	Issued
Mobile Satellite Ventures LP	1508249	Europe; designates all states		Published
Mobile Satellite Ventures LP	2004008493	Mexico		Pending
Mobile Satellite Ventures LP	2003213006	Australia		Wireless Communications Systems and Methods Using Satellite-Linked Remote Terminal Interface Subsystems
Mobile Satellite Ventures LP	2476191	Canada	Issued	
Mobile Satellite Ventures LP	1474879	Europe; designates all states	Published	
Mobile Satellite Ventures LP	2004007734	Mexico	Pending	
ATC Technologies, LLC	2216672	Canada	Network/engineering system for mobile satellite communication system	
ATC Technologies, LLC	2240022	Canada	Mobile Communications from Computer Aided Dispatch System via a Customer Premises Gateway for Satellite Communication System	Issued
ATC Technologies, LLC	2239985	Canada	Mobile Communications Terminal for Satellite Communications System	Issued
ATC Technologies, LLC	2160801	Canada	MSAT Mast Antenna with Reduced Frequency Scanning Antennae	Issued

Rockwell International Corp. [**]	609632	Australia	Differential Phase-shift Keying Modulator	Issued
ATC Technologies, LLC	1328681	Canada		Issued
Rockwell International Corp. [**]	96021961	Japan		Issued
ATC Technologies, LLC	2217038	Canada	Virtual Network Configuration and Management System for Satellite Communications System Configuration	Issued
ATC Technologies, LLC	2221373	Canada	Full Service Dispatcher for Satellite Trunked Radio Service System	Issued
ATC Technologies, LLC	2229615	Canada	Improved Mobile Earth Terminal	Issued
ATC Technologies, LLC	2238646	Canada	Improved Satellite Trunked Radio Service System	Issued
ATC Technologies, LLC	2229615	Canada	Improved Mobile Earth Terminal	Issued
ATC Technologies, LLC	2261410	Canada	Priority and Preemption Service System for Satellite Related Communication Using Central Controller	Issued
Mobile Satellite Ventures LP	307432	Austria	Coordinated Satellite-terrestrial Frequency Reuse	Issued
Mobile Satellite Ventures LP	PA02001964	Mexico		Issued
Mobile Satellite Ventures LP	PA03004903	Mexico		Issued
Mobile Satellite Ventures LP	1316233	Europe		Issued

ATC Technologies, LLC	2328003	Canada		Published
ATC Technologies, LLC	2381811	Canada		Issued
ATC Technologies, LLC	2428702	Canada		Issued
Mobile Satellite Ventures LP	60114236	Germany		Issued
Mobile Satellite Ventures LP	1316233	Europe; designates all states		Published
Mobile Satellite Ventures LP	1350344	Europe; designates all states		Published
Mobile Satellite Ventures LP	1608086	Europe; designates all states		Published
Mobile Satellite Ventures LP	1619810	Europe; designates all states		Published
Mobile Satellite Ventures LP	2002326515	Australia		Pending
ATC Technologies, LLC	2459549	Canada		Issued
ATC Technologies, LLC	2460323	Canada		Issued
Mobile Satellite Ventures LP	PA04002456	Mexico		Issued
Mobile Satellite Ventures LP	PA04002457	Mexico		Issued
Mobile Satellite Ventures LP	PA04002458	Mexico		Issued
Mobile Satellite Ventures LP	PA04002459	Mexico	Issued	
Mobile Satellite Ventures LP	PA04002460	Mexico	Issued	
Mobile Satellite Ventures LP	PA04002461	Mexico	Issued	
			Spatial Guardbands for Terrestrial Reuse of Satellite Frequencies	

Mobile Satellite Ventures LP	PA04002462	Mexico		Issued
Mobile Satellite Ventures LP	1425926	Europe; designates all states		Published
Mobile Satellite Ventures LP	1425929	Europe; designates all states		Published
Mobile Satellite Ventures LP	1425931	Europe; designates all states		Published
Mobile Satellite Ventures LP	1482949	Europe; designates all states		Published
Mobile Satellite Ventures LP	1425927	Europe; designates all states		Published
Mobile Satellite Ventures LP	1425928	Europe; designates all states		Published
Mobile Satellite Ventures LP	1425930	Europe; designates all states		Published
Mobile Satellite Ventures LP	1433340	Europe; designates all states		Published
Mobile Satellite Ventures LP	1519790	Europe; designates all states		Published
Mobile Satellite Ventures LP	1577675	Europe; designates all states		Published
ATC Technologies, LLC	2334447	Canada	Coordinated satellite-terrestrial frequency reuse	Published
Mobile Satellite Ventures LP	1316233	Europe; designates all states		Published
Mobile Satellite Ventures LP	2002001964	Mexico		Published
Mobile Satellite Ventures LP	2003225137	Australia	Filters for combined radiotelephone/GPS terminals	Pending
ATC Technologies, LLC	2489395	Canada		Issued



Mobile Satellite Ventures LP	2003239169	Australia	Staggered sectorization for terrestrial reuse of satellite frequencies	Pending
ATC Technologies, LLC	2489387	Canada		Issued
Mobile Satellite Ventures LP	037338860	Europe		Pending
Mobile Satellite Ventures LP	2005000014	Mexico		Pending
Mobile Satellite Ventures LP	2003259889	Australia	Systems and methods for increasing capacity and/or quality of service of terrestrial cellular and satellite systems using terrestrial reception of satellite band frequencies	Pending
ATC Technologies, LLC	2504248	Canada		Issued
Mobile Satellite Ventures LP	038133351	Europe		Published
Mobile Satellite Ventures LP	2005006206	Mexico		Pending
ATC Technologies, LLC	2512271	Canada	Network-assisted global positioning systems, methods and terminals including Doppler shift and code phase estimates	Issued
Mobile Satellite Ventures LP	2004222905	Australia	Satellite assisted push-to-send radioterminal systems and methods	Pending
ATC Technologies, LLC	2516760	Canada		Issued
Mobile Satellite Ventures LP	047577424	Europe		Published
Mobile Satellite Ventures LP	2005010286	Mexico		Pending
Mobile Satellite Ventures LP	2004223381	Australia	Co-channel wireless communication methods and systems using nonsymmetrical	Pending
ATC Technologies, LLC	2517067	Canada		Issued

Mobile Satellite Ventures LP	047580741	Europe	alphabets	Pending	
Mobile Satellite Ventures LP	2005010287	Mexico		Pending	
Mobile Satellite Ventures LP	2004306356	Australia		Pending	
Mobile Satellite Ventures LP	Application number not yet assigned	Brazil		Pending	
Mobile Satellite Ventures LP	Application number not yet assigned	Canada	Intra- and Inter-system interference reducing systems and methods for satellite communications systems	Pending	
Mobile Satellite Ventures LP	Application number not yet assigned	China		Pending	
Mobile Satellite Ventures LP	048094981	Europe		Pending	
Mobile Satellite Ventures LP	173311	Israel		Pending	
Mobile Satellite Ventures LP	425DELNP2006	India		Pending	
Mobile Satellite Ventures LP	Application number not yet assigned	Japan		Pending	
Mobile Satellite Ventures LP	20067001819	Korea, Republic of		Pending	
Mobile Satellite Ventures LP	20006001188	Mexico		Pending	
Mobile Satellite Ventures LP	2004300986	Australia		Systems and methods for modifying antenna radiation patterns of peripheral base stations of a terrestrial network to allow reduced interferences	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	Brazil		Pending	
Mobile Satellite Ventures LP	Application number not yet assigned	Canada	Pending		
Mobile Satellite Ventures LP	2004800220097	China	Systems and methods for modifying antenna radiation patterns of peripheral base	Pending	
Mobile Satellite Ventures LP	047780978	Europe		Pending; Not Verifiable	

Mobile Satellite Ventures LP	172721	Israel	stations of a terrestrial network to allow reduced interferences	Pending	
Mobile Satellite Ventures LP	6134DELNP2005	India		Pending	
Mobile Satellite Ventures LP	Application number not yet assigned	Japan		Pending	
Mobile Satellite Ventures LP	20067001995	Korea, Republic of		Pending	
Mobile Satellite Ventures LP	2006001127	Mexico		Pending	
Mobile Satellite Ventures LP	200420903	Australia	Wireless systems, methods and devices employing forward-and/or return-link carriers having different numbers of sub-band carriers	Pending	
Mobile Satellite Ventures LP	Application number not yet assigned	Brazil		Pending	
Mobile Satellite Ventures LP	Application number not yet assigned	Canada		Pending	
Mobile Satellite Ventures LP	Application number not yet assigned	China		Pending	
Mobile Satellite Ventures LP	Application number not yet assigned	Europe		Pending	
Mobile Satellite Ventures LP	173804	Israel		Pending	
Mobile Satellite Ventures LP	893DELNP2006	India		Pending	
Mobile Satellite Ventures LP	Application number not yet assigned	Japan		Pending	
Mobile Satellite Ventures LP	20067003549	Korea, Republic of		Pending	
Mobile Satellite Ventures LP	2006002056	Mexico		Pending	
Mobile Satellite Ventures LP	Application number not yet assigned	Canada		Systems and methods for inter-system sharing of satellite communications	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	Europe			Pending

Mobile Satellite Ventures LP	2006002783	Mexico	frequencies within a common footprint	Pending
Mobile Satellite Ventures LP	2004306121	Australia	Systems and methods for mobility management in overlaid mobile communications systems	Pending
Mobile Satellite Ventures LP	Application number not yet assigned	Brazil		Pending
Mobile Satellite Ventures LP	Application number not yet assigned	Canada		Pending
Mobile Satellite Ventures LP	Application number not yet assigned	China		Pending
Mobile Satellite Ventures LP	Application number not yet assigned	Europe		Pending
Mobile Satellite Ventures LP	173956	Israel		Pending
Mobile Satellite Ventures LP	Application number not yet assigned	India		Pending
Mobile Satellite Ventures LP	Application number not yet assigned	Japan		Pending
Mobile Satellite Ventures LP	Application number not yet assigned	Korea, Republic of		Pending
Mobile Satellite Ventures LP	Application number not yet assigned	Mexico		Pending
Mobile Satellite Ventures LP	2002330987	Australia		Systems and Methods for Monitoring Terrestrially Reused Satellite Frequencies to Reduce Potential Interference
ATC Technologies, LLC	2460325	Canada	Systems and Methods for Monitoring Terrestrially Reused Satellite Frequencies to Reduce Potential Interference	Issued
Mobile Satellite Ventures LP	2002329817	Australia	Additional Systems and Methods for Monitoring Terrestrially Reused Satellite Frequencies to Reduce Potential Interference	Pending
ATC Technologies, LLC	2460491	Canada	Additional Systems and Methods for Monitoring Terrestrially Reused Satellite Frequencies to Reduce Potential Interference	Issued
Mobile Satellite Ventures LP	20022327511	Australia	Multi-Band/Multi-Mode Satellite	Pending

ATC Technologies, LLC	2460361	Canada	Radiotelephone Communications Systems and Methods	Issued
Mobile Satellite Ventures LP	2004237669	Australia	Aggregate Radiated Power Control for Multi-Band/Multi-Mode Satellite Radiotelephone Communications Systems and Methods	Pending
Mobile Satellite Ventures LP	PI04074645	Brazil		Pending
ATC Technologies, LLC	2515209	Canada		Issued
Mobile Satellite Ventures LP	2004800041270	China		Pending
Mobile Satellite Ventures LP	047505268	Europe		Pending
Mobile Satellite Ventures LP	337DELNP2005	India		Pending
Mobile Satellite Ventures LP	Application number not yet assigned	Japan		Pending
Mobile Satellite Ventures LP	20057015008	Korea, Republic of		Pending
Mobile Satellite Ventures LP	2005008651	Mexico		Pending
Mobile Satellite Ventures LP	2002327518	Australia		Space-Based Network Architectures for Satellite Radiotelephone Systems
Mobile Satellite Ventures LP	2460494	Canada	Issued	
Mobile Satellite Ventures LP	027635127	Europe	Published	
Mobile Satellite Ventures LP	2004002461	Mexico	Pending	
Mobile Satellite Ventures LP	2002329831	Australia	Modified Satellite Antenna Cell Patterns in Response to Terrestrial Reuse of Satellite Frequencies	Pending
ATC Technologies, LLC	2460495	Canada		Issued
Mobile Satellite Ventures LP	027660844	Europe		Pending

Mobile Satellite Ventures LP	2004002459	Mexico		Pending
Mobile Satellite Ventures LP	047856141	Europe	Wireless Communications Methods and Apparatus Using Licensed-Use System Protocols with Unlicensed-Use Access Points	Published

[3] The ownership of all the patents has or will be transferred by Mobile Satellite Ventures LP to ATC Technologies LLC. However, the registered owner is still Mobile Satellite Ventures LP, where indicated.

[\*\*] The record ownership of these patents does not appear to be updated as of Closing from Rockwell International Corp. through to the current owner, ATC Technologies, LLC.