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

PATENT "REEL: 017435 FRAME: 0603

500092490

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
<u> </u>	PATENT PEEL : 047425 EPAME

REEL: 017435 FRAME: 0604

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

li	II
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
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	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
- 1		DATENT

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

PATENT

REEL: 017435 FRAME: 0608

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#### **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. <u>Defined Terms</u>. 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. <u>Termination</u>. 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. <u>Counterparts</u>. 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

Name

Title:

MOBILE SATELLITE VENTURES LP

ly:

Name:

Title:

PATENT

**REEL: 017435 FRAME: 0612** 

Acknowledged and Agreed to:

THE BANK OF NEW YORK, as Collateral Agent

By: Name:

Title:

REMO J. REALE VICE PRESIDENT

[Patent Security Agreement]

On this 20 day	of March	2006 before me personally came	Food.
COUNTY OF New York	)		
	: ss.:	-	
STATE OF IVEW 167K	)		

STATE OF MALL VOLV

On this <u>30</u> day of <u>March</u>, 2006 before me personally came <u>Landy Segal</u>, who being duly sworn, did depose and say that she is <u>Seriet Vie Resident</u> of <u>AIC Technologies ille</u> the <u>Seriet Vice President</u> of <u>Mobile Satellite</u>, 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.

Notary Public

EILEEN C. THOMSON NOTARY PUBLIC, State of New York No. 01TH4681414 Qualified in Nassau County Commission Expires Sept. 30, 2006

[Patent Security Agreement]

#### **SCHEDULE I**

to

# PATENT SECURITY AGREEMENT PATENTS AND PATENT APPLICATIONS

#### **UNITED STATES PATENTS:**

#### **UNITED STATES PATENTS:**

## U.S. Patents:

	PATENT	
OWNER	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,	5594461	Low Loss Quadrature Matching Network for
LLC		Quadrifilar Helix Antenna
ATC Technologies,	5604972	Method of Manufacturing a Helical Antenna
LLC		
ATC Technologies,	D380201	Mobile Communicator Computer
LLC		
ATC Technologies,	5748742	Fraud Detection and User Validation System for
LLC		Mobile Earth Terminal Communication Device
ATC Technologies,	5719771	System for Mapping Occurrences of Conditions in a
LLC		Transport Route
ATC Technologies,	5913164	Conversion System Used in Billing System for Mobile
LLC		Satellite System
ATC Technologies,	5708716	Fraud Detection and User Validation System for
LLC		Mobile Earth Terminal Communication Device
ATC Technologies,	5713075	Network Engineering/ Systems Engineering System
LLC		for Mobile Satellite Communication System
ATC Technologies,	5815809	Mobile Earth Terminal Communication Device
LLC		Providing Voice, Data, Facsimile, and/or Roaming
		Communication Features
ATC Technologies,	5850602	Communication Protocol for Mobile Earth Terminal
LLC		Communication Device Used in Mobile Satellite
		Communication System
ATC Technologies,	6522635	Communication Protocol for Satellite Data Processing
LLC		6
ATC Technologies,	5717830	Satellite Trunked Radio Service System
LLC		
ATC Technologies,	6449461	System for Mobile Communications in Coexistence
LLC		with Communication Systems Having Priority
ATC Technologies,	5926745	Network Operations Center for Mobile Earth Terminal
LLC	3320713	Satellite Communications System
ATC Technologies,	5898681	Methods of Load Balancing and Controlling
LLC	3030001	Congestion in a Combined Frequency Division and
BEC		Time Division Multiple Access Communication
		System Using Intelligent Login Procedures and Mobile
		Terminal Move Commands
ATC Technologies,	5923648	Methods of Dynamically Switching Return Channel
LLC		Transmissions of Time-Division Multiple-Access
LLC		(TDMA) Communication Systems Between Signalling
		Burst Transmissions and Message Transmissions
ATC Technologies,	5982813	Demand-Based Power and Data Rate Adjustments to a
LLC	3702013	Transmitter to Optimize Channel Capacity and Power
		Usage with Respect to Data Transmission Traffic Over
		a Fixed-Bandwidth Channel
ATC Technologies,	5982761	Methods of Communicating Over Time-Division
LLC	3704/01	Muliple-Access (TDMA) Communication Systems
LALC		with Distinct Non-Time-Critical and Time-Critical
	1	
ATC Technologies	5942126	Network Management Information Transmission Rates
ATC Technologies,	5842125	Network Control Center for Satellite Communication
LLC	5025057	System
ATC Technologies,	5835857	Position Determination for Reducing Unauthorized
LLC	1	Use of a Communication System

ATC Technologies, LLC	6112083	Full Service Dispatcher for Satellite Trunked Radio Service System
ATC Technologies,	5878329	Power Control of an Integrated Cellular
LLC		Communications System
ATC Technologies,	6016423	Mobile Communicator System
LLC		
ATC Technologies,	6850497	Satellite Trunked Radio Service System
LLC		244444
ATC Technologies,	6112085	Virtual Network Configuration and Management
LLC	0112003	System for Satellite Communication System
ATC Technologies,	6272341	Network Engineering/ Systems Engineering System
LLC	02/2541	for Mobile Satellite Communication System
	5922270	
ATC Technologies,	5832379	Communications Systems Including Control Means for
LLC		Designating Communication Between Space Nodes
		and Surface Nodes
ATC Technologies,	5940753	Controller for Cellular Communications System
LLC		
ATC Technologies,	6185409	Network Engineering/Systems Engineering System
LLC		for Mobile Satellite Communication System
ATC Technologies,	6058307	Priority and Preemption Service System for Satellite
LLC		Related Communication Using Central Controller
ATC Technologies,	6035039	Fraud Detection and User Validation System for
LLC	0022037	Mobile Earth Terminal Communication Device
ATC Technologies,	6208859	Service Preemption for Mobile Terminals in a Mobile
LLC	0200039	
	(122/71	Satellite Communications System
ATC Technologies,	6122671	Mobile Communications from Computer Aided
LLC		Dispatch System Via a Customer Premises Gateway
		for Satellite Communication System
ATC Technologies,	6292473	Mobile Communications Terminal for Satellite
LLC		Communications System
ATC Technologies,	6477370	Improved Satellite Trunked Radio Service System
LLC		
ATC Technologies,	6278861	Mobile Earth Terminal with Roaming Capability
LLC		3 - 1
ATC Technologies,	6272338	Network Control Center for Satellite Communication
LLC		System
ATC Technologies,	5995832	Communications Systems
LLC	3773032	Communications Systems
	6120007	Mothed of Description Contains Date Contains
ATC Technologies,	6130887	Methods of Dynamically Switching Return Channel
LLC		Transmissions of Time-Division Multiple-Access
		(TDMA) Communication Systems Between Signalling
ADOD 1 1	6001555	Burst Transmissions and Message Transmissions
ATC Technologies,	6301232	Methods of Dynamically Switching Return Channel
LLC	1	Transmissions of Time-Division Multiple-Access
		(TDMA) Communication Systems Between Signalling
		Burst Transmissions and Message Transmissions
ATC Technologies,	6407986	Methods of Dynamically Switching Return Channel
LLC		Transmissions of Time-Division Multiple-Access
		(TDMA) Communication Systems Between Signaling
		Burst Transmissions and Message Transmissions
ATC Technologies,	6108561	Power Control of an Integrated Cellular
LLC	0100001	Communications System
	1	Communications bysicin

A TC T - 1111	6242205	Notes of Control Control Control
ATC Technologies,	6343205	Network Operations Center for Mobile Earth Terminal Satellite Communications System
ATC Technologies,	6463040	Methods of Communicating Overtime Division
LLC	0403040	Multiple Access (TDMA) Communication Systems
BEC		with Distinct Non-Time Critical and Time Critical
		Network Management Information Transmission Rates
ATC Technologies,	6587443	Methods of Communicating Over Time-Division
LLC	0307443	Multiple-Access (TDMA) Communication Systems
DEC		with Distinct Non-Time-Critical and Time-Critical
		Network Management Information Transmission Rates
ATC Technologies,	6522865	Hybrid Satellite Communications System
LLC LC LC LLC	0322803	Hyorid Sateritie Communications System
ATC Technologies,	6243580	Drianity and Dragmation Courses System for Satallita
LLC	0243380	Priority and Preemption Service System for Satellite
	6411006	Related Communication Using Central Controller
ATC Technologies, LLC	6411806	Virtual Network Configuration and Management
	(542720	System for Satellite Communications System
ATC Technologies,	6542739	Priority and Preemption Service System for Satellite
LLC	(520521	Related Communication Using Central Controller
ATC Technologies,	6529731	Network Control Center for Satellite Communication
LLC	(0000001	System
ATC Technologies,	6992991	Mobile Communications Terminal for Satellite
LLC		Communications System
ATC Technologies,	6636721	Network Engineering/ Systems for Mobile Satellite
LLC		Communication System
ATC Technologies, LLC	6892068	Coordinated Satellite-Terrestrial Frequency Reuse
ATC Technologies,	6859652	Integrated or autonomous system and method of
LLC	0057052	satellite-terrestrial frequency reuse using signal
		attenuation an/or blockage, dynamic assignment of
		frequencies an/or hysteresis
ATC Technologies,	6684057	Systems and Methods for Terrestrial Reuse of Cellular
LLC		Satellite Frequency Spectrum
ATC Technologies,	6856787	Wireless Communications Systems and Methods
LLC	0000,0,	Using Satellite-Linked Remote Terminal Interface
		Subsystems
ATC Technologies,	6999720	Spatial Guardbands for Terrestrial Reuse of Satellite
LLC	, Q2221 <b>20</b>	Frequencies
ATC Technologies,	7006789	Space-Based Network Architectures for Satellite
LLC	1,000,05	Radiotelephone Systems
ATC Technologies,	6937857	Systems and Methods for Reducing Satellite Feeder
LLC	0,0,00	Link Bandwidth/Carriers in Cellular Satellite Systems
ATC Technologies,	6785543	Filters for Combined Radiotelephone/GPS Terminals
LLC	3,000	1 moto for Comonica radiowicphone of C Terminals
ATC Technologies,	6879829	Systems and Methods for Handover Between Space
LLC	100.7047	Based and Terrestrial Radioterminal Communications,
		and for Monitoring Terrestrially Reused Satellite
		Frequencies at a Radioterminal to Reduce Potential
		Interference
·····	1	

# U.S. Patent Publications:

	APPLICATION			
OWNER	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 Frequenices 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]	

1.50	140040445		
		Aggregate Radiated Power	Published
Technologies,		Control for Multi-Band/Multi-	[Pub. No. 20040192395]
LLC		Mode Satellite Radiotelephone	
		Communications Systems and	
1,000	10015000	Methods	
ATC	10317320	Systems and Methods for	Published
Technologies,		Increasing Capacity and/or	[Pub. No. 20040203742]
LLC		Quality of Service of Terrestrial	
		Cellular and Satellite Systems	
		Using Terrestrial Reception of	
		Satellite Band Frequencies	
ATC	10447461	Wireless Communications	Published
Technologies,		Methods and Apparatus Using	[Pub. No. 20040240525]
LLC		Licensed-Use System Protocols	
		with Unlicensed-Use Access	
1.050		Points	
ATC	10880023	Systems and Methods for	Published
Technologies,		Modifying Antenna Radiation	[Pub. No. 20050026606]
LLC		Patterns of Peripheral Base	
		Stations of Terrestrial Network	
1 mg	10000	to Allow Reduced Interference	
ATC	10890758	Intra-and/or Inter-System	Published
Technologies,		Interference Reducing Systems	[Pub. No. 20050026606]
LLC		and Methods for Satellite	
AMC	10011515	Communications Systems	
ATC	10914515	Wireless Systems, Methods and	Published
Technologies,		Devices Employing Forward-	[Pub. No. 20050037749]
LLC		and/or Return-Link Carriers	
		Having Different Numbers of	
ATC	10932810	Sub-Band Carriers	D.11'.1 1
Technologies,	10932010	Systems and Methods for Inter-	Published
LLC		System Sharing of Satellite	[Pub. No. 20050041619]
LLC		Communications Frequencies	
ATC	10965303	within a Common Footprint	D 11: 1
Technologies,	10903303	Integrated or Autonomous	Published
LLC		System and Method of Satellite-	[Pub. No. 20050064813]
LLC		Terrestrial Frequency Reuse Using Signal Attenuation and/or	
		Blockage, Dynamic Assignment of Frequencies and/or Hysteresis	
ATC	10948606	Systems and Methods for	Published
Technologies,	10240000	Mobility Management in	[Pub. No. 20050090256]
LLC		Overlaid Mobile	[[1 40.110.20030030230]
		Communications Systems	
ATC	11021077	Systems and Methods for	Published
Technologies,		Terrestrial Reuse of Cellular	[Pub. No. 20050118948]
LLC		Satellite Frequency Spectrum in	[1 40. 110. 20030110340]
		a Time-Division Duplex and/or	
		Frequency-Division Duplex	
		Mode	
7,7,7		141000	I

ATC	11036637	Additional Intra-and/or Inter-	Published
Technologies,	11030037	System Interference Reducing [Pub. No. 2005013]	
LLC		Systems and Methods for	[1 40.110.20030130030]
DEC		Satellite Communications	
		Systems	
ATC	11036230	Satellite with Different Size	Published
Technologies,	11030230	Service Link Antennas and	[Pub. No. 20050164700]
LLC		Radioterminal Communication	[1 ub. 140. 20030104700]
LLC		Methods Using the Same	1
ATC	11069305	Integrated or Autonomous	Published
Technologies,	11005505	System and Method of Satellite-	[Pub. No. 20050164701]
LLC		Terrestrial Frequency Reuse	[F ub. No. 20030104701]
LDC		Using Signal Attenuation and/or	
		Blockage, Dynamic Assignment	
		of Frequencies and/or Hysteresis	
ATC	11095007		Published
•	1107300/	Systems And Methods for	ł .
Technologies, LLC		Handover Between Space Based And Terrestrial Radioterminal	[Pub. No. 20050170834]
LLC			
ATC	11079574	Communications	D-2.17.11
	110/93/4	Coordinated Satellite-Terrestrial	Published
Technologies, LLC		Frequency Reuse	[Pub. No. 20050181786]
	11007000	Calada I i i i GDMA	D 11: 1 1
ATC Technologies	11067006	Code Synchronization in CDMA	Published
LLC[1]		Satellite Wireless	[Pub. No. 20050201449]
		Communications System Using	
A T/C	11122102	Uplink Channel Detection	2011:1
ATC	11133102	Systems and Methods for	Published
Technologies,		Monitoring Selected	[Pub. No. 20050208890]
LLC		Terrestrially Reused Satellite	
		Frequency Signals to Reduce	·
A 000	11146462	Potential Interference	2 11:1
ATC	11146463	Systems and Methods for	Published
Technologies,		Reducing Satellite Feeder Link	[Pub. No. 20050221757]
LLC		Bandwidth/Carriers in Cellular	
A TO	11061246	Satellite Systems	
ATC	11061346	Multi-Band Satellite and/or	Published
Technologies,		Ancillary Terrestrial Component	[Pub. No. 20050227618]
LLC		Radioterminal Communications	
		Systems and Methods with	
1.00	44004054	Diversity Operation	
ATC	11094931	Satellite/Hands-Free Interlock	Published
Technologies,		Systems and/or Companion	[Pub. No. 20050239399]
LLC		Devices for Radioterminals and	
		Related Methods	
ATC	11082458	Systems and Methods with	Published
Technologies,		Different Utilization of Satellite	[Pub. No. 20050239403]
LLC		Frequency Bands by a Spaced-	
		Based Network and an Ancillary	
		Terrestrial Network	

ATC	11096862	Mobile Terminals and Set Top	Published
Technologies,	11000002	Boxes Including Multiple	[Pub. No. 20050239404]
LLC		Satellite Band Service Links,	[1 45. 116. 20030237101]
BEC	,	and Related Systems and	TANKA TA
		Methods	
ATC	10827961	Extraterrestrial Communications	Published
Technologies,	1002/701	Systems and Methods Including	[Pub. No. 20050239457]
LLC		Ancillary Extraterrestrial	[1 40.140.20030237437]
		Components	
ATC	11142119	Radiotelephones and Operating	Published
Technologies,	11142119	Methods that Use a Single Radio	[Pub. No. 20050245192]
LLC		Frequency Chain and a Single	[Fub. No. 20030243192]
LLC		Baseband Processor for Space-	
		based and terrestiral	
		Communications	
ATC Technologies	11126799	Satellite Communications	Published
LLC [1]	11120/99	Systems and Methods Using	[Pub. No. 20050260947]
LLC[1]		Radiotelephone Location-Based	[Fub. No. 20030200947]
		1 -	
ATC	11131044	Beamforming Systems and Methods for Space-	Published
1	11131044	Based Use of Terrestrial Cellular	
Technologies, LLC		i	[Pub. No. 20050260984]
ATC	11178883	Frequency Spectrum	Published
	111/0003	Integrated or Autonomous	· · · · · · · · · · · · · · · · · · ·
Technologies,		System and Method of Satellite-	[Pub. No. 20050272369]
LLC		Terrestrial Frequency Reuse Using Signal Attenuation and/or	
		Blockage, Dynamic Assignment	
		of Frequencies and/or Hysteresis	
ATC	11178930	Coordinated Satellite-Terrestrial	Published
Technologies,	111/0930	Frequency Reuse	[Pub. No. 20050272369]
LLC		riequency Reuse	[Fub. No. 20030272309]
ATC	11147048	Systems and Mathada for	Published
	1114/040	Systems and Methods for Terrestrial Use of Cellular	[Pub No. 20050282542]
Technologies, LLC		Satellite Frequency Spectrum	[Fub No. 20030282342]
	11167010	Methods of Ground Based	Published
ATC Technologies	1110/010		
LLC[1]		Beamforming and On-Board	[Pub. No. 20050288011]
		Frequency Translation and	
ATC	11252956	Related Systems	D. 1.11.1 1
	11232930	Spatial Guardbands for	Published
Technologies,		Terrestrial Reuse of Satellite	[Pub No. 20060040659]
LLC	11241510	Frequencies	Destaliate and
ATC Tacharlasias	11241519	Space-based network	Published
Technologies,		architectures for satellite	[Pub No. 20060040657]
LLC	11200600	radiotelephone systems	
ATC Technologies	11200609	Satellite-band spectrum	Published
LLC [1]		utilization for reduced or	[Pub. No. 20060040613]
		minimum interference	

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

<sup>[1]</sup> 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	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

ATOT 1 1	110070404	3.6.50 2. 3. 3.6.30	D 11
ATC Technologies	10979404	Multi-frequency band/multi air	Pending
LLC		interface/multi spectrum reuse	
		cluster size/multi cell size	
		satellite radioterminal	
		communications systems and	
		methods	
ATC Technologies	11044477	Satellite/terrestrial wireless	Pending
LLC		communications systems and	
		methods using disparate channel	
		separation codes	
ATC Technologies	11281078	Electronic antenna beam steering	Pending
LLC		using ancillary receivers and	
		related methods	
ATC Technologies	11006318	Broadband wireless	Pending
LLC	11000310	communications systems and	
LEC		methods using multiple non-	
		contiguous frequency	
		bands/segments	
ATC Testerales	11280621	Satellite communications	D. J.
ATC Technologies	11280021		Pending
LLC		systems, components and	
		methods for operating shared	
		satellite gateways	
ATC Technologies	11291192	Location-based broadcast	Pending
LLC		message for radioterminal users	
ATC Technologies	11295383	Prediction of uplink interference	Pending
LLC		potential generated by an	
		ancillary terrestrial network	
		and/or radioterminals	
ATC Technologies	11324711	Adaptive beam forming with	Pending
LLC		multi-user detection and	
		interference reduction in satellite	
	,	communications systems and	
,		methods	
ATC Technologies	60661690	Methods and systems providing	Pending
LLC		adaptive feeder links for ground	
		based forming and related	
		systems and satellites	
ATC Technologies	60662053	Intra-system and/or Inter-system	Pending
LLC	00002033	reuse of feeder link frequencies	Chang
LIC		including interference	
		· ·	
ATC Toohnologies	60655199	Suppression systems and methods  Pouring fragmencies of a fixed	Ponding
ATC Technologies	000001199	Reusing frequencies of a fixed and/or mobile communications	Pending
LLC			
4.TO TO 1 1 1	11212020	system	D 1
ATC Technologies	11313039	Satellite communications	Pending
LLC		systems and methods using	
		diverse polarizations	
ATC Technologies	60655148	Satellites using inter-satellite	Pending
LLC		links to create indirect feeder link	
		paths	
		1 * '	

ATC Technologies LLC	11367065	Modification of transmission values to compensate for interference in satellite down-link	Pending
		communications	
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	
ATC Technologies LLC	60659794	Interference reduction in satellite communications by excision	Pending
ATC Technologies	11355639	Methods, radioterminals, and ancillary terrestrial components for communicating using spectrum allocated to another satellite operator	Pending
ATC Technologies	60661364	Satellite communications systems and methods with distributed and/or centralized architecture including ground- based beam forming	Pending
ATC Technologies LLC	11098288	Radioterminals ad 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	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 discontiguous 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

N 6-1-31-	1 2005017252	TOOTE 1		1 = 4.
Mobile	2005017253	PCT; designates all		Pending
Satellite		states	Communications	
Ventures LP			Systems and Methods	
			Using Radiotelephone	
			Location-Based	
			Beamforming	
Mobile	2005017297	PCT; designates all	Satellite	Pending
Satellite		states	Communications	
Ventures LP			Systems and Methods	
			Using Radiotelephone	
			Location-Based Beam-	
			Forming	
Mobile	200518007	PCT; designates all	Systems and Methods	Pending
Satellite		states	for Monitoring Selected	1 Chang
Ventures LP		States	Terrestrially Used	
			Satellite Frequency	
	İ		Signals to Reduce	
			1 —	
Mobile	2005036559	DCT: danian in	Potential Interference	D 1:
Satellite	2003030339	PCT; designates all	Multi Frequency	Pending
Ventures LP		states	Band/Multi Air	
ventures LP			Interface/Multi	
			Spectrum Reuse Cluster	-
			Size/Multi Cell Size	
			Satellite Radioterminal	
			Communications	
			Systems and Methods	
Mobile	Application	PCT; designates all	Satellite/Terrestrial	Pending
Satellite	number not yet	states	Wireless	
Ventures LP	assigned		Communications	
			Systems and Methods	
			Using Disparate	
			Channel Separation	
			Codes	
Mobile	Application	PCT; designates all	Satellite-Band	Published
Satellite	number not yet	states	Spectrum Utilization for	
Ventures LP	assigned		Reduced or Minimum	
			Interference	-
Mobile	2005041992	PCT; designates all	Electronic Antenna	Pending
Satellite		states	Beam Steering Using	1 chang
Ventures LP		Suites	Ancillary Receivers and	
· Oillates Li			Related Methods	
Mobile	2005040400	DCT: docionata a 11		D1'
Satellite	200JU40400	PCT; designates all	Broadband Wireless	Pending
Ventures LP		states	Communications	
ventures LP			Systems and Methods	
			Using Multiple Non-	l
			Contiguous Frequency	]
3.6.1.11			Bands/Segments	
Mobile	2005041559	PCT; designates all	Satellite	Pending
Satellite		states	Communications	
Ventures LP			Systems, Components	
			and Methods For	
ĺ			Operating Shared	
			Satellite Gateways	

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	Pending
Mobile Satellite Ventures LP	PI04084470	Brazil	Space-based and Terrestrial	Pending
ATC Technologies, LLC	2518778	Canada	Radioterminal communications, and for Monitoring	Issued
Mobile Satellite Ventures LP	2004800131534	China	Terrestrially Reused Satellite Frequencies at a Radioterminal to	Pending
Mobile Satellite Ventures LP	1625759	Europe; designates all states	Reduce Potential Interference	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	2005012324	Mexico		Pending
Ventures LP ATC Technologies,	2484232	Canada	Systems and Methods for	Issued
LLC. Mobile	1508249	Europe;	reducing Satellite	Published
Satellite Ventures LP		designates all states	Feeder Link Bandwidth/Carriers	
Mobile Satellite Ventures LP	2004008493	Mexico	in Cellular Systems	Pending
Mobile Satellite Ventures LP	2003213006	Australia	Wireless Communications	Pending
Mobile Satellite Ventures LP	2476191	Canada	Systems and Methods Using Satellite-Linked	Issued
Mobile Satellite Ventures LP	1474879	Europe; designates all states	Remote Terminal Interface Subsystems	Published
Mobile Satellite Ventures LP	2004007734	Mexico		Pending
ATC Technologies, LLC	2216672	Canada	Network/engineering system for mobile satellite communication system	Issued
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

D 1 11	(00/20			т
Rockwell International	609632	Australia	Differential Phase-	Issued
Corp. [**]			shift Keying	
ATC	1328681	Canada	—— Modulator	Issued
Technologies,	1320001	Canada		Issued
LLC				
Rockwell	96021961	Japan		Issued
International	90021901	Japan		issued
Corp. [**]				
ATC	2217038	Canada	Virtual Network	Issued
Technologies,	2217030	Canaua		Issueu
LLC			Configuration and	
			Management System	
			for Satellite	
			Communications	
			System	
			Configuration	
ATC	2221373	Canada	Full Service	Issued
Technologies,			Dispatcher for	
LLC			Satellite Trunked	
			Radio Service	
			System	
ATC	2229615	Canada	Improved Mobile	Issued
Technologies,			Earth Terminal	
LLC	2220646			
ATC Technologies	2238646	Canada	Improved Satellite	Issued
Technologies, LLC			Trunked Radio	
			Service System	
ATC	2229615	Canada	Improved Mobile	Issued
Technologies,			Earth Terminal	
LLC				
ATC	2261410	Canada	Priority and	Issued
Technologies,			Preemption Service	
LLC			System for Satellite	
			Related	
			Communication	
			ſ	
			Using Central	ļ
Mobile	307432	A	Controller	, ,
Satellite	307432	Austria	Coordinated	Issued
Ventures LP			Satellite-terrestrial	
Mobile Mobile	PA02001964	Mexico	—— Frequency Reuse	Tagnod
Satellite	1 7302001704	IVICATEO		Issued
Ventures LP				
Mobile Mobile	PA03004903	Mexico		Issued
Satellite	* 1 100004903	IVICATO		issued
Ventures LP				
Mobile	1316233	Europe		Issued
Satellite	1010200	Limope		199000
Ventures LP				
		<u> </u>		

ATC	2328003	Canada		Published
Technologies,	2320003	Canada		1 donshod
LLC				
ATC	2381811	Canada		Issued
Technologies,				150000
LLC				
ATC	2428702	Canada	<del>-</del>	Issued
Technologies,			***	
LLC	****			
Mobile	60114236	Germany		Issued
Satellite	1	Ť		
Ventures LP				
Mobile	1316233	Europe;		Published
Satellite		designates all		
Ventures LP		states		
Mobile	1350344	Europe;		Published
Satellite		designates all		
Ventures LP		states		
Mobile	1608086	Europe;		Published
Satellite		designates all		1 donaired
Ventures LP		states		
Mobile	1619810	Europe;		Published
Satellite	1019010	designates all		Published
Ventures LP		· -		
	2002226515	states		1
Mobile Satellite	2002326515	Australia	Spatial Guardbands	Pending
Ventures LP			for Terrestrial Reuse	
ATC	2459549	Canada	of Satellite	Yd
Technologies,	2439349	Canada	Frequencies	Issued
LLC				
ATC	2460323	Canada	-	Issued
Technologies,	2400323	Canada	1	155000
LLC				
Mobile	PA04002456	Mexico	<b></b>	Issued
Satellite	*************************************			l issued
Ventures LP			• • • • • • • • • • • • • • • • • • • •	
Mobile	PA04002457	Mexico		Issued
Satellite				
Ventures LP				
Mobile	PA04002458	Mexico		Issued
Satellite				
Ventures LP				
Mobile	PA04002459	Mexico		Issued
Satellite				
Ventures LP				
Mobile	PA04002460	Mexico		Issued
Satellite				
Ventures LP				
Mobile	PA04002461	Mexico		Issued
Satellite				
Ventures LP			_1	

Mobile Satellite	PA04002462	Mexico		Issued
Ventures LP				
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	moquomoy rouse	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	Pending
ATC Technologies, LLC	2489387	Canada	terrestrial reuse of satellite frequencies	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 conseity	Pending
ATC Technologies, LLC	2504248	Canada	increasing capacity and/or quality of service of terrestrial	Issued
Mobile Satellite Ventures LP	038133351	Europe	cellular and satellite systems using terrestrial reception	Published
Mobile Satellite Ventures LP	2005006206	Mexico	of satellite band frequencies	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	Pending
ATC Technologies, LLC	2516760	Canada	systems and methods	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	Pending
ATC Technologies, LLC	2517067	Canada	using nonsymmetrical	Issued

Mobile	047580741	Europe	alphabets	Pending
Satellite Ventures LP				
Mobile	2005010287	Mexico	_	Pending
Satellite	2003010207	THE MICH		
Ventures LP				
Mobile	2004306356	Australia		Pending
Satellite				
Ventures LP				
Mobile	Application	Brazil		Pending
Satellite	number not yet			
Ventures LP	assigned			
Mobile	Application	Canada	Intra- and Inter-	Pending
Satellite	number not yet		system interference	
Ventures LP	assigned		reducing systems	
Mobile	Application	China	and methods for	Pending
Satellite	number not yet		satellite	
Ventures LP	assigned		communications	
Mobile	048094981	Europe	systems	Pending
Satellite			Systems	
Ventures LP Mobile	173311	Israel	-	Danding
Satellite	1/3311	Israei		Pending
Ventures LP				
Mobile Mobile	425DELNP2006	India		Pending
Satellite	423DELNI 2000	nidia		Chang
Ventures LP				
Mobile	Application	Japan	-	Pending
Satellite	number not yet			
Ventures LP	assigned	-		
Mobile	20067001819	Korea, Republic of		Pending
Satellite				
Ventures LP				
Mobile	20006001188	Mexico		Pending
Satellite				
Ventures LP				
Mobile	2004300986	Australia	Systems and	Pending
Satellite			methods for	
Ventures LP	A1:	D'1	modifying antenna	Desdies
Mobile Satellite	Application	Brazil	radiation patterns of	Pending
Ventures LP	number not yet assigned		peripheral base	
Mobile	Application	Canada	stations of a	Pending
Satellite	number not yet	Canada	terrestrial network to	1 count
Ventures LP	assigned		allow reduced	
, omaros Di	CONSTIGN		interferences	
Mobile	2004800220097	China	<u></u>	Pending
Satellite	200700022007/	Omna	Systems and	1 onume
Ventures LP			methods for	
Mobile	047780978	Europe	modifying antenna	Pending; Not
Satellite			radiation patterns of	Verifiable
Ventures LP			peripheral base	=
		I	1	

Mobile	172721	Israel	stations of a	Pending
Satellite			terrestrial network to	
Ventures LP			allow reduced	
Mobile	6134DELNP2005	India	interferences	Pending
Satellite			interferences	
Ventures LP				
Mobile	Application	Japan		Pending
Satellite	number not yet	•		
Ventures LP	assigned			
Mobile	20067001995	Korea, Republic of	1	Pending
Satellite				Į ,
Ventures LP				
Mobile	2006001127	Mexico	7	Pending
Satellite				
Ventures LP				
Mobile	200420903	Australia	Wireless systems,	Pending
Satellite	1		methods and devices	1 21144418
Ventures LP				
Mobile	Application	Brazil	employing forward-	Pending
Satellite	number not yet	2	and/or return-link	- unumg
Ventures LP	assigned		carriers having	
Mobile	Application	Canada	different numbers of	Pending
Satellite	number not yet	Cumuu	sub-band carriers	1 Unums
Ventures LP	assigned			
Mobile	Application	China		Pending
Satellite	number not yet	Cimia		1 chams
Ventures LP	assigned			
Mobile	Application	Europe	1	Pending
Satellite	number not yet	Lurope		1 Chang
Ventures LP	assigned			
Mobile	173804	Israel	and the same of th	Pending
Satellite	175001	Islaci		1 chang
Ventures LP				
Mobile	893DELNP2006	India		Pending
Satellite	OSSELLINI 2000	India		1 chang
Ventures LP			***************************************	
Mobile	Application	Japan		Pending
Satellite	number not yet	vapan		1 Chang
Ventures LP	assigned			
Mobile	20067003549	Korea, Republic of	-	Pending
Satellite	#000100JJ#3	Roica, Republic 01		1 Chang
Ventures LP				
Mobile	2006002056	Mexico	1	Pending
Satellite	2000002030	171CAICO		1 Chang
Ventures LP				
Mobile	Application	Canada	Systems and	Pending
Satellite	number not yet	Canaga	1 -	1 chung
Ventures LP	assigned		methods for inter-	
Mobile	Application	Europa	system sharing of	Dandina
Satellite		Europe	satellite	Pending
Ventures LP	number not yet		communications	
v entures LP	assigned			

Mobile Satellite	2006002783	Mexico	frequencies within a common footprint	Pending
Ventures LP				
Mobile	2004306121	Australia	Systems and	Pending
Satellite			methods for mobility	
Ventures LP			management in	
Mobile	Application	Brazil	overlaid mobile	Pending
Satellite	number not yet		communications	
Ventures LP	assigned			
Mobile	Application	Canada	systems	Pending
Satellite	number not yet			
Ventures LP	assigned			
Mobile	Application	China		Pending
Satellite	number not yet			
Ventures LP	assigned			
Mobile	Application	Europe		Pending
Satellite	number not yet			
Ventures LP	assigned			
Mobile	173956	Israel		Pending
Satellite				
Ventures LP				
Mobile	Application	India	7	Pending
Satellite	number not yet			
Ventures LP	assigned			
Mobile	Application	Japan	1	Pending
Satellite	number not yet	1		
Ventures LP	assigned			
Mobile	Application	Korea, Republic of	1	Pending
Satellite	number not yet	1		J
Ventures LP	assigned			
Mobile	Application	Mexico		Pending
Satellite	number not yet			_
Ventures LP	assigned			
Mobile	2002330987	Australia	Systems and	Pending
Satellite			Methods for	
Ventures LP			j .	
ATC	2460325	Canada	Monitoring	Issued
Technologies,			Terrestrially Reused	
LLC			Satellite Frequencies	
			to Reduce Potential	
			Interference	
Mobile	2002329817	Australia	Additional Systems	Pending
Satellite			and Methods for	
Ventures LP	<b>!</b>		Monitoring	
ATC	2460491	Canada	_	Issued
Technologies,			Terrestrially Reused	
LLC			Satellite Frequencies	
			to Reduce Potential	
			Interference	
Mobile	20022327511	Australia	Multi-Band/Multi-	Pending
Satellite			Mode Satellite	

ATO	2460261	16.1		1 - 1
ATC	2460361	Canada	Radiotelephone	Issued
Technologies,			Communications	
LLC			Systems and	
			Methods	
Mobile	2004237669	Australia	Aggregate Radiated	Pending
Satellite			Power Control for	- oname
Ventures LP			1	
Mobile	PI04074645	Brazil	Multi-Band/Multi-	Pending
Satellite			Mode Satellite	
Ventures LP			Radiotelephone	
ATC	2515209	Canada	Communications	Issued
Technologies,			Systems and	
LLC			Methods	
Mobile	2004800041270	China		Pending
Satellite				
Ventures LP				1
Mobile	047505268	Europe		Pending
Satellite				
Ventures LP				
Mobile	337DELNP2005	India		Pending
Satellite				
Ventures LP				
Mobile	Application	Japan		Pending
Satellite	number not yet			
Ventures LP	assigned			
Mobile	20057015008	Korea, Republic of		Pending
Satellite				
Ventures LP			_	
Mobile	2005008651	Mexico		Pending
Satellite				
Ventures LP	2002227510	1.		
Mobile Satellite	2002327518	Australia	Space-Based	Pending
Ventures LP			Network	
Mobile Mobile	2460404	<u> </u>	Architectures for	
Satellite	2460494	Canada	Satellite	Issued
Ventures LP		]	Radiotelephone	
Mobile Mobile	027635127	Europo	Systems	Deski skad
Satellite	02/03312/	Europe		Published
Ventures LP		-		
Mobile	2004002461	Mexico	-	Pending
Satellite	2004002401	WICKICO		rending
Ventures LP				
Mobile	2002329831	Australia	Modified Satellite	Pending
Satellite			Antenna Cell	
Ventures LP			Patterns in Response	
ATC	2460495	Canada	· •	Issued
Technologies,			to Terrestrial Reuse	
LLC			of Satellite	
Mobile	027660844	Europe	Frequencies	Pending
Satellite		, The state of the		
Ventures LP				

Mobile Satellite	2004002459	Mexico		Pending
Ventures LP	047056141	<b>.</b>	****	Published
Mobile	047856141	Europe	Wireless	Published
Satellite			Communications	
Ventures LP		***************************************	Methods and	
			Apparatus Using	
			Licensed-Use	
			System Protocols	
			with Unlicensed-Use	
			Access Points	

<sup>[3]</sup> 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.

**RECORDED: 04/10/2006** 

<sup>[\*\*]</sup> 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.