TRADEMARK ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	Trademark Release

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
JPMorgan Chase Bank, N.A., as Administrative Agent		06/08/2011	Association: UNITED STATES

RECEIVING PARTY DATA

Name:	Hughes Network Systems, LLC
Street Address:	11717 Exploration Lane
City:	Germantown
State/Country:	MARYLAND
Postal Code:	20876
Entity Type:	LIMITED LIABILITY COMPANY: DELAWARE

PROPERTY NUMBERS Total: 27

Property Type	Number	Word Mark
Registration Number:	3332324	BROADBAND UNBOUND
Registration Number:	3417295	CONNECT TO THE FUTURE
Registration Number:	3093477	HUGHES
Registration Number:	2806871	HUGHES SOFTWARE SYSTEMS
Registration Number:	3410631	HUGHES SYSTIQUE
Registration Number:	3277871	HUGHESNET
Registration Number:	3277872	HUGHESNET
Registration Number:	3235303	HUGHESNET
Registration Number:	3235304	HUGHESNET
Registration Number:	3383133	IPOS
Registration Number:	2658179	AIREACH
Registration Number:	2634379	AIREACH
Registration Number:	2302346	AIREACH
Registration Number:	2735541	BROADBAND THAT'S OUT OF THIS WORLD

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Registration Number:	1288713	HUGHES
Registration Number:	3006113	HUGHES
Registration Number:	2995459	HUGHES
Registration Number:	2886884	HUGHES
Registration Number:	3066229	HUGHES
Registration Number:	2886885	HUGHES
Registration Number:	2854495	HUGHES BROADBAND ALLIANCE
Registration Number:	2818028	HUGHES BROADBAND ALLIANCE
Registration Number:	2702089	HUGHES BROADBAND ALLIANCE
Registration Number:	2774975	HUGHES NETWORK SYSTEMS
Registration Number:	516350	HUGHESNEWS
Registration Number:	3541804	SPACEWAY
Registration Number:	3541805	SPACEWAY

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	8173423

NAME OF SUBMITTER:	Ted Mulligan

Signature:	/Ted Mulligan/

Date:	06/16/2011

Total Attachments: 18
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TERMINATION AND RELEASE OF SECURITY INTEREST
IN INTELLECTUAL PROPERTY

This TERMINATION AND RELEASE (this "Release") is made as of June 8, 2011 from JPMORGAN CHASE BANK, N.A., as Administrative Agent for the Secured Parties (in such capacity as administrative agent, together with its successors and permitted assigns, the "Administrative Agent") to HUGHES NETWORK SYSTEMS, LLC (the "Grantor"). Unless otherwise defined herein, terms defined in the Credit Agreement or in the Security Agreement (each as defined below) and used herein have the meaning given to them in the Credit Agreement or the Security Agreements, as the case may be.

WHEREAS, pursuant to the Credit Agreement, dated as of April 22, 2005, as amended and restated as of June 27, 2005, April 13, 2006 and March 16, 2010 (the "Credit Agreement"), among Hughes Network Systems, LLC (the "Borrower"), the Lenders party thereto and the Administrative Agent, the Lenders have severally agreed to make loans and other extensions of credit to the Borrower upon the terms and subject to the conditions set forth therein;

WHEREAS, Agent, Lenders and Borrower are parties to (i) the Grant of Security Interest in U.S. Trademark Rights dated as of June 27, 2005 (the "Trademark Grant") and (ii) the Grant of Security Interest in U.S. Patent Rights dated as of June 27, 2005 (the "Patent Grant", and together with the Trademark Grant, collectively, the "Intellectual Property Security Agreements"), by and among Hughes Network Systems, LLC and JPMorgan Chase Bank, N.A., as administrative agent;

WHEREAS, Agent, Lenders and Borrower are parties to (i) the Assignment of Security Interest in U.S. Trademark Rights dated August 28, 2006 (the "Assignment of Trademark Rights"), and (ii) the Assignment of Security Interest in U.S. Patent Rights dated August 28, 2006 (the "Assignment of Patent Rights", and together with the Assignment of Trademark Rights, collectively, the "Assignment of Security Interest I"), by and between JPMorgan Chase Bank, N.A. and Bear Stearns Corporate Lending Inc.;

WHEREAS, Agent, Lenders and Borrower are parties to (i) the Assignment of Security Interest in U.S. Trademark Rights dated March 16, 2010 (the "Assignment of Trademark Rights"), and (ii) the Assignment of Security Interest in U.S. Patent Rights dated March 16, 2010 (the "Assignment of Patent Rights", and together with the Assignment of Trademark Rights, collectively, the "Assignment of Security Interest II"), by and between Bear Stearns Corporate Lending Inc. and JPMorgan Chase Bank, N.A.;

WHEREAS, Agent, Lenders and Borrower are parties to (i) the After-Acquired Intellectual Property Security Agreement (First Supplemental Filing) in U.S. Trademark Rights dated March 16, 2010 (the "After-Acquired Trademark Rights"), and (ii) the After-Acquired Intellectual Property Security Agreement (First Supplemental Filing) in U.S. Patent Rights dated

March 16, 2010 (the "After-Acquired Patent Rights", and together with the Assignment of Trademark Rights, collectively, the "After-Acquired Security Interest"), by and between Hughes Network Systems, LLC and JPMorgan Chase Bank, N.A.;

WHEREAS, the Trademark Grant was recorded with the U.S. Patent and Trademark Office at Reel/Frame No. 3134/0170 on July 14, 2005;

WHEREAS, the Patent Grant was recorded with the U.S. Patent and Trademark Office at Reel/Frame No. 016345/0401 on on July 11, 2005;

WHEREAS, the Assignment of Trademark Rights from JPMorgan Chase Bank, N.A. to Bear Stearns Corporate Lending Inc. was recorded with the U.S. Patent and Trademark Office at Reel/Frame No. 3380/0152 on August 29, 2006;

WHEREAS, the Assignment of Patent Rights from JPMorgan Chase Bank, N.A. to Bear Stearns Corporate Lending Inc. was recorded with the U.S. Patent and Trademark Office at Reel/Frame No. 0181840/0196 on August 29, 2006;

WHEREAS, the Assignment of Trademark Rights from Bear Stearns Corporate Lending Inc. to JPMorgan Chase Bank, N.A. was recorded with the U.S. Patent and Trademark Office at Reel/Frame No. 4183/0508 on April 9, 2010;

WHEREAS, the Assignment of Patent Rights from Bear Stearns Corporate Lending Inc. to JPMorgan Chase Bank, N.A. was recorded with the U.S. Patent and Trademark Office at Reel/Frame No. 024213/0001 on April 9, 2010;

WHEREAS, the After-Acquired Intellectual Property Security Agreement (First Supplemental Filing) of Trademark Rights was recorded with the U.S. Patent and Trademark Office at Reel/Frame No. 4183/0573 on April 9, 2010;

WHEREAS, the After-Acquired Intellectual Property Security Agreement (First Supplemental Filing) of Patent Rights was recorded with the U.S. Patent and Trademark Office at Reel/Frame No. 024213/0070 on April 9, 2010; and

WHEREAS, the Administrative Agent now desires to terminate and release the entirety of its security interest in the Trademark Collateral and Patent Collateral.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and upon the terms set forth in this Trademark and Patent Release, the Administrative Agent and the Grantor hereby agree as follows:

SECTION 1.   Trademark Collateral. The term "Trademark Collateral," as used herein, shall mean:

(a) all Grantor's United States, and foreign trademarks, trade names, corporate names, company names, business names, fictitious business names, Internet domain names, service marks, certification marks, collective marks, logos, trade dress, other source or business identifiers, designs and general intangibles of a like nature, all registrations and applications for any of the foregoing including, but not limited to: (i) the registrations and applications referred to in Schedule I hereto (as such schedule may be amended or supplemented from time to time), (ii) all extensions or renewals of any of the foregoing, (iii) all of the goodwill of the business connected with the use of and symbolized by any of the foregoing, (iv) the right to sue or otherwise recover for any past, present and future infringement, dilution or other violation of any of the foregoing or for any injury to goodwill and (v) all proceeds of the foregoing, including, without limitation, licenses, royalties, income, payments, claims, damages, and proceeds of suit, *provided, however*, that the foregoing shall not include any intent-to-use trademark application prior to the filing of a "Statement of Use" or "Amendment to Allege Use" with respect thereto, to the extent, if any, and solely during the period, if any, that the grant of a security interest therein would impair the validity or enforceability of such intent-to-use trademark application under applicable federal law or any other trademark interest that is damaged, harmed or restricted by the granting of a security interest; and

(b) any and all agreements and licenses made by Grantor providing for the granting of any exclusive right in or to any Trademark registered in the United States Patent and Trademark Office, including each agreement referred to in Schedule I hereto (as such schedule may be amended or supplemented from time to time).

SECTION 2.   Patent Collateral.   The term "Patent Collateral," as used herein, shall mean:

(a) all Grantor's United States and foreign patents and certificates of invention, or similar industrial property rights, and applications for any of the foregoing, including, but not limited to: (i) each patent and patent application required to be listed in Schedule II hereto (as such schedule may be amended or supplemented from time to time), (ii) all reissues, divisions, continuations, continuations-in-part, extensions, renewals, and reexaminations thereof, (iii) all rights corresponding thereto throughout the world, (iv) all inventions and improvements described therein, (v) all rights to sue for past, present and future infringements thereof, (vi) all licenses, claims, damages, and proceeds of suit arising therefrom and (vii) all proceeds of the foregoing, including, without limitation, licenses, royalties, income, payments, claims, damages, and proceeds of suit; and

(b) any and all agreements and licenses made by Grantor providing for the granting of any exclusive right in or to any Patent registered in the United States Patent and Trademark Office, including each agreement referred to in Schedule II hereto (as such schedule may be amended or supplemented from time to time).

SECTION 3.   Release of Security Interest.   The Administrative Agent hereby terminates, releases and discharges its security interest in the Trademark Collateral and Patent Collateral.

SECTION 4.   Execution in Counterparts.   This Release may be executed and delivered (including by facsimile transmission) in any number of counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement.

SECTION 5.   Recordation.   The Administrative Agent authorizes the recordation of this Release with the United States Patent and Trademark Office and any other applicable registry.

SECTION 6.   Applicable Law.   This Release and the rights and obligations of the parties hereunder and all claims and controversies arising out of the subject matter hereof whether sounding in contract law, tort law or otherwise shall be governed by, and shall be construed and enforced in accordance with, the laws of the State of New York, without giving effect to any law, rule, provision or principle of conflicts of laws that would cause the laws of any jurisdiction other than the State of New York to be applied (other than any mandatory provisions of the uniform commercial code relating to the law governing perfection and the effect of perfection of a security interest).

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IN WITNESS WHEREOF, the undersigned has executed this Release by its duly authorized officer as of the date first above written.

JPMORGAN CHASE BANK, N.A., as Administrative Agent

By:

    Name: Christophe Vohmann

    Title: Executive Director

(Signature page to Intellectual Property Release)

SCHEDULE I – TRADEMARKS

No.	Trademark	App. No. App. Date	Reg. No. Reg. Date	Status
1.	BROADBAND UNBOUND	78845587 24-MAR-2006	3332324 06-NOV-2007	Registered
2.	CONNECT TO THE FUTURE	77214944 25-JUN-2007	3417295 29-APR-2008	Registered
3.	HUGHES	75547882 03-SEP-1998	3093477 16-MAY-2006	Registered Section 2(F)
4.	HUGHES SOFTWARE SYSTEMS	76034238 25-APR-2000	2806871 20-JAN-2004	Registered Section 2(F)
5.	HUGHES SYSTIQUE	78786145 06-JAN-2006	3410631 08-APR-2008	Registered
6.	HUGHESNET HughesNet	78817550 17-FEB-2006	3277871 07-AUG-2007	Registered
7.	HUGHESNET HughesNet	78817559 17-FEB-2006	3277872 07-AUG-2007	Registered
8.	HUGHESNET	78758918 22-NOV-2005	3235303 24-APR-2007	Registered
9.	HUGHESNET	78758921 22-NOV-2005	3235304 24-APR-2007	Registered
10.	IPOS IPOS	78833072 09-MAR-2006	3383133 12-FEB-2008	Registered
11.	AIREACH	76215344 23-FEB-2001	2658179 10-DEC-2002	Registered
12.	AIREACH	76215345 23-FEB-2001	2634379 15-OCT-2002	Registered
13.	AIREACH	74723800 01-SEP-1995	2302346 21-DEC-1999	Registered
14.	BROADBAND THAT'S OUT OF THIS WORLD	76975261 10-DEC-2001	2735541 08-JUL-2003	Registered
15.	HUGHES	73351504 22-FEB-1982	1288713 07-AUG-1984	Registered Section 2(F)
16.	HUGHES HUGHES	76140742 04-OCT-2000	3006113 11-OCT-2005	Registered Section 2(F)
17.	HUGHES HUGHES	76140743 04-OCT-2000	2995459 13-SEP-2005	Registered Section 2(F)
18.	HUGHES HUGHES	76140745 04-OCT-2000	2886884 21-SEP-2004	Registered Section 2(F)
19.	HUGHES HUGHES	76140746 04-OCT-2000	3066229 07-MAR-2006	Registered Section 2(F)
20.	HUGHES HUGHES	76140747 04-OCT-2000	2886885 21-SEP-2004	Registered Section 2(F)

No.	Trademark	App. No. App. Date	Reg. No. Reg. Date	Status
21.	HUGHES BROADBAND ALLIANCE **HUGHES** BROADBAND ALLIANCE	76396622 18-APR-2002	2854495 15-JUN-2004	Registered
22.	HUGHES BROADBAND ALLIANCE	76362367 24-JAN-2002	2818028 24-FEB-2004	Registered
23.	HUGHES BROADBAND ALLIANCE	76362368 24-JAN-2002	2702089 01-APR-2003	Registered
24.	HUGHES NETWORK SYSTEMS	76444299 26-AUG-2002	2774975 21-OCT-2003	Registered Section 2(F)
25.	HUGHESNEWS *HugHesNews*	71511154 19-OCT-1946	0516350 18-OCT-1949	Registered. Section 2(F)
26.	SPACEWAY	78589324 17-MAR-2005	3541804 02-DEC-2008	Registered
27.	SPACEWAY	78589331 17-MAR-2005	3541805 02-DEC-2008	Registered

SCHEDULE II – PATENTS

No.	Title	App. No. Filing Date	Patent No. Issue Date
1.	Method and system for efficient flow control in a spot beam satellite system	11130985 5/17/2005	
2.	System, method and computer program product for implementing rate 3/4 low density parity check code	11432576 5/11/2006	7581162 8/25/2009
3.	Approach to minimize worst-case queueing delay for a switching communication system with transmission constraints	11499416 8/4/2006	7370116 5/6/2008
4.	Method and apparatus for generating low rate turbo codes	12017219 01/21/2008	
5.	Method and system for adaptively applying performance enhancing functions	12046883 3/12/2008	7643416 1/5/2010
6.	Method and system for providing scrambled coded multiple access (SCMA)	12056144 3/26/2008	
7.	Method and system for providing a satellite interface to support mobile communication services	12324260 11/26/2008	
8.	Earth station antenna system	07637567 1/7/1991	5657031 8/12/1997
9.	Communication satellite system having an increased power output	07674746 3/26/1991	5208829 5/4/1993
10.	TDMA synchronization using visibility designation	07770206 10/3/1991	5315589 5/24/1994
11.	TDMA system with a virtual reference	07799809 11/29/1991	5309439 5/3/1994
12.	Address filter for a transparent bridge interconnecting local area Network	07880857 5/11/1992	5343471 8/30/1994
13.	Comfort noise generation for digital communication systems	07890747 5/28/1992	5537509 7/16/1996
14.	Communication system and method for linking data terminals and their host computers through a satellite or other wide area network	07904733 6/26/1992	5280625 1/18/1994
15.	High quality low bit rate celp-based speech codec	07905992 6/25/1992	5495555 2/27/1996
16.	Frequency tuning for satellite ground stations	07986845 12/4/1992	5471657 11/28/1995
17.	Real-time implementation of a 8KBPS CELP coder on a DSP pair	08037193 3/26/1993	5491771 2/13/1996
18.	Noise suppression in digital voice communications systems	08037946 3/26/1993	5533133 7/2/1996
19.	Voice activity detector for speech signals in variable background noise	08038734 3/26/1993	5459814 10/17/1995
20.	Apparatus and method for controlling forward error correction encoding in a very small aperture terminal	08067765 5/26/1993	5511079 4/23/1996
21.	Method and apparatus for confirming delivery of files in a file broadcast system with rebroadcast timing at the receiver	08138940 10/19/1993	5619689 4/8/1997

No.	Title	App. No. Filing Date	Patent No. Issue Date
22.	Multimedia frame relay codec	08192463 1/26/1994	5519640 5/21/1996
23.	Voiced, unvoiced or noise modes in a CELP vocoder	08229271 4/18/1994	5734789 3/31/1998
24.	Method for processing speech signals as block floating point numbers in a celp-based coder using a fixed point processor	08257831 6/9/1994	5570454 10/29/1996
25.	Apparatus for and method of broadcast satellite network return-link signal transmission	08308003 9/16/1994	5625640 04/29/1997
26.	Robust pitch estimation method and device for telephone speech	08337595 11/10/1994	5704000 12/30/1997
27.	Secure satellite receive-only local area network with address filter	08340348 11/14/1994	5659615 8/19/1997
28.	Symbol timing recovery using fir data interpolators	08341891 11/15/1994	5524126 6/4/1996
29.	Low rate multi-mode CELP codec that encodes line spectal frequencies utilizing an offset	08359116 12/19/1994	5751903 5/12/1998
30.	Apparatus for positioning an antenna in a remote ground terminal	08384060 2/6/1995	5589837 12/31/1996
31.	Method and apparatus for adjusting the postamble false detection probability threshold for a burst transmission	08394120 2/24/1995	5577056 11/19/1996
32.	Satellite terminal with sleep mode	08398842 3/6/1995	5678228 10/14/1997
33.	Aloha optimization	08404707 3/15/1995	5625628 4/29/1997
34.	Enhanced transaction reservation	08404850 3/15/1995	5638374 6/10/1997
35.	Transmit/receive isolation assembly for a very small aperture satellite terminal	08405689 3/17/1995	5578972 11/26/1996
36.	Method and apparatus of coupling a transmitter to a waveguide in a remote ground terminal	08406228 3/17/1995	5678210 10/14/1997
37.	Adaptive pitch pulse enhancer and method for use in a codebook excited linear prediction (CELP) search loop	08434096 5/3/1995	5528727 6/18/1996
38.	Method of transporting speech information in a wireless cellular system	08483426 6/7/1995	5758256 5/26/1998
39.	Robust vector quantization of line spectral frequencies	08495148 6/27/1995	5651026 7/22/1997
40.	Power control for tdma mobile satellite communication system	08496633 6/29/1995	5710982 1/20/1998
41.	Method and system of frame timing synchronization in tdma based mobile satellite communication system	08496737 6/29/1995	5790939 8/4/1998
42.	Method and system of frequency stabilization in a mobile satellite communication system	08497333 6/30/1995	6356740 3/12/2002

No.	Title	App. No. Filing Date	Patent No. Issue Date
43.	Device and method for communicating in a mobile satellite system	08497582 6/30/1995	5781540 7/14/1998
44.	Signal classifier and echo suppressor for facsimile calls in a satellite network	08499421 7/7/1995	5793755 8/11/1998
45.	Operation of low-cost, fixed output power radio in fixed gain mode	08502029 7/13/1995	5659892 8/19/1997
46.	Method and system for mobile alerting in a communication system	08507176 7/26/1995	5974092 10/26/1999
47.	Method of detecting narrow-band signals in an echo canceller	08528762 9/15/1995	5689556 11/18/1997
48.	Method of detecting double talk in an echo canceller	08528967 9/15/1995	5809463 9/15/1998
49.	Method for synthesizing an echo path in an echo canceller	08529042 9/15/1995	5649012 7/15/1997
50.	Comfort noise generator for echo cancelers	08529232 9/15/1995	5949888 9/7/1999
51.	Voice activity detector for speech signals in variable background noise	08536507 9/29/1995	5649055 7/15/1997
52.	A mode-specific method and apparatus for encoding signals containing speech	08540637 10/11/1995	5596676 1/21/1997
53.	Combined clock recovery/frequency stabilization loop	08546028 10/20/1995	5577074 11/19/1996
54.	Method and apparatus for an adapter card providing conditional access in a communication system	08557398 11/13/1995	5652795 7/29/1997
55.	High performance error coding in channel encoders and decoders	08591127 1/25/1996	5666370 9/9/1997
56.	Comfort noise generation for digital communication systems	08614777 3/7/1996	5630016 5/13/1997
57.	Low voltage indication for non-intelligent ODU equipment	08721921 9/27/1996	6763222 7/13/2004
58.	Removal of swirl artifacts from CELP-based speech coders	08734210 10/21/1996	5633982 5/27/1997
59.	Method and apparatus for selectively retrieving information from a source computer using a terrestrial or satellite interface	08797505 2/7/1997	5852721 12/22/1998
60.	An electronic mail notification system and method within a hybrid network that transmits notifications via a continuous, high-speed channel	08797506 2/7/1997	6067561 5/23/2000
61.	Symbol timing recovery and tracking method for burst-mode digital communications	08820021 3/19/1997	5870443 2/9/1999
62.	Method and apparatus for an adapter card providing conditional access in a communication system	08862346 5/23/1997	6125184 9/26/2000

No.	Title	App. No. Filing Date	Patent No. Issue Date
63.	Low insertion loss connection of an antenna to a mobile radio	08872583 6/10/1997	5901367 5/4/1999
64.	Block phase estimator for the coherent detection of non-differentially phase modulated data bursts on rician fading channels	08886637 7/1/1997	6072841 6/6/2000
65.	Minimization of acoustic echo effects in a microphone boot	08889168 7/7/1997	6038328 3/14/2000
66.	Power control for tdma mobile satellite communication system	08896337 7/18/1997	5790940 8/4/1998
67.	Speech mode based multi-stage vector quantizer	08958143 10/28/1997	5966688 10/12/1999
68.	Method and apparatus for quadrature multi-pulse modulation of data for spectrally efficient communication	09005469 1/12/1998	6608874 8/19/2003
69.	System and method for multicasting multimedia content	09049334 3/27/1998	6351467 2/26/2002
70.	Rotating and locking clip for portable electronic device	09062631 4/17/1998	5906031 5/25/1999
71.	TDMA system timer for maintaining timing to multiple satellite simultaneously	09069339 4/29/1998	6298048 10/2/2001
72.	Leased line optimization and voice quality improvement in bandwidth constrained communication systems	09075568 5/11/1998	6226304 5/1/2001
73.	Method and apparatus for selectively retrieving information from a source computer using a terrestrial or satellite interface	09082626 5/21/1998	5968129 10/19/1999
74.	Low insertion loss connection of an antenna to a mobile radio with retractable swiveling antenna feature	09097803 6/16/1998	6043781 3/28/2000
75.	Method and apparatus for joint timing synchronization and frequency offset estimation	09109798 7/2/1998	6363131 3/26/2002
76.	Burst format and associated signal processing to improve frequency and timing estimation for random access channels	09110035 7/2/1998	6373858 4/16/2002
77.	Immediate channel assignment in a wireless system	09115095 7/13/1998	6438386 8/20/2002
78.	Spot beam selection in a mobile satellite communication system	09115096 7/13/1998	6233451 5/15/2001
79.	Error and flow control in a satellite communications system	09115099 7/13/1998	6289482 9/11/2001
80.	Paging reception assurance in a multiply registered wireless transceiver	09115101 7/13/1998	6282178 8/28/2001
81.	Signaling maintenance for discontinuous information communications	09115102 7/13/1998	6385447 5/7/2002
82.	Broadcast delivery of information to a personal computer for local storage and access	09157896 9/21/1998	6546488 4/8/2003
83.	Method and apparatus for controlling access to confidential data by analyzing property inherent in data	09160846 9/25/1998	6438666 8/20/2002
84.	An apparatus for providing a secure processing environment	09161150 9/25/1998	6385727 5/7/2002

No.	Title	App. No. Filing Date	Patent No. Issue Date
85.	System and method of soft decision decoding	09181905 10/29/1998	6347124 2/12/2002
86.	Channel estimation in a fading channel	09198774 11/24/1998	6182251 1/30/2001
87.	Method for improving spectral sampling using sub-burst discreet fourier transforms	09205592 12/4/1998	6349120 2/19/2002
88.	Method and system of determining user terminal position using a measured signal propagation delay and doppler shift of a communications link	09212528 12/16/1998	6307503 10/23/2001
89.	Method and apparatus for predicting spot beam and satellite handover in a mobile satellite communication network	09213027 12/16/1998	6246874 6/21/2001
90.	Method and apparatus for selectively allocating and enforcing bandwidth usage requirements on network users	09233343 1/19/1999	6473793 10/29/2002
91.	Apparatus and method for grouping carriers to minimize the occurrence of call blocking in a satellite-based communications network	09244970 2/10/1999	6332069 12/18/2001
92.	Method for implementing a terminal-to-terminal call with an optimal use of radio resources in a mobile satellite system	09247845 2/11/1999	6353738 3/5/2002
93.	Facsimile call success rates in long delay environments	09247846 2/11/1999	6411689 6/25/2002
94.	Mobile satellite system and method for implementing a single-hop terminal-to-terminal call	09247847 2/11/1999	6314290 11/6/2001
95.	Method for implementing ciphered communication for single-hop terminal-to-terminal calls in a mobile satellite system	09247848 2/11/1999	6516065 2/4/2003
96.	Apparatus and method for delivering key information of a channel request message from a user terminal to a network	09247849 2/11/1999	6249677 6/19/2001
97.	Parallel/pipeline VLSI architecture for a low-delay CELP coder/decoder	09270918 3/16/1999	6314393 11/6/2001
98.	Method and apparatus for an adapter card providing conditional access in a communication system	09288986 4/9/1999	6131160 10/10/2000
99.	Earth tiling system for providing regional based service in a mobile satellite communication network	09290487 4/12/1999	6389289 5/14/2002
100.	Compensation of dynamic doppler frequency of large range in satellite communication systems	09310477 5/12/1999	6058306 5/2/2000
101.	System and method for detecting interference present in mobile satellite communication links based on noise floor power levels of satellite communication links	09323319 6/1/1999	6374096 4/16/2002
102.	Slidable connection for a retractable antenna to a mobile radio	09330603 6/11/1999	6269240 7/31/2001
103.	Extension interface units in a communication system	09359832 7/23/1999	6650649 11/18/2003
104.	Multi-modulation radio communications	09360209 7/23/1999	6836515 12/28/2004
105.	Method of noise reduction for speech codecs	09361015 7/23/1999	6453289 9/17/2002

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107.	Apparatus and method for positioning single-offset zones in a spot beam coverage area to maximize call duration in a satellite-based communications network	09417592 10/14/1999	6553225 4/22/2003
108.	Combined interference cancellation with FEC decoding for high efficiency satellite communications	09436670 11/10/1999	6671338 12/30/2003
109.	Facsimile call success rates in long delay and impaired channel environments without collision detection	09440744 11/16/1999	6603577 8/5/2003
110.	Acquisition mechanism for a mobile satellite system	09447684 11/23/1999	7245930 7/17/2007
111.	Synchronization in mobile satellite systems using dual-chirp waveform	09447685 11/23/1999	6418158 7/9/2002
112.	In-call dtmf transport for geostationary mobile satellite communication system	09447696 11/23/1999	6650895 11/18/2003
113.	System and method for using inhibit sense multiple access (ISMA) protocol and a capture message to optimize random access control and data packet communication between access terminals and a base station over a wireless reverse common channel	09478452 1/6/2000	6738366 5/18/2004
114.	Satellite multicast performance enhancing multicast http proxy system and method	09498936 2/4/2000	6658463 12/02/2003
115.	Method and system of determining user terminal position using multiple satellites	09510921 2/22/2000	6317077 11/13/2001
116.	Method and apparatus for selectively retrieving information from a source computer using a terrestrial or satellite interface	09512269 2/24/2000	6321268 11/20/2001
117.	System for providing satellite bandwidth on demand employing uplink frame formatting for smoothing and mitigating jitter and dynamically changing numbers of contention and data channels	09518452 3/3/2000	6842437 1/11/2005
118.	Adapter for connecting computer to satellite antenna	09541249 4/3/2000	6215873 4/10/2001
119.	Voicing measure as an estimate of signal periodicity for a frequency domain interpolative speech codec system	09542390 4/4/2000	6691092 2/10/2004
120.	Frequency domain interpolative speech codec system	09542792 4/4/2000	6418408 7/9/2002
121.	Spectral magnitude modeling and quantization in a frequency domain interpolative speech codec system	09542793 4/4/2000	6493664 12/10/2002
122.	Method and apparatus for an adapter card providing conditional access in a communication system	09562487 5/1/2000	6307937 10/23/2001
123.	Congestion avoidance approach for a switching communication system with transmission constraints	09625289 7/25/2000	6738350 5/18/2004
124.	Method and system for providing satellite bandwidth on demand using multi-level queuing	09631269 8/2/2000	6985455 1/10/2006
125.	Fading communications channel estimation and compensation	09634018 8/8/2000	6680987 1/20/2004

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127.	Power saving method for multiple channels per carrier (MCPC) satellite transmission	09639457 8/15/2000	6839540 1/4/2005
128.	Synchronization apparatus and method for a return link power control for satellite systems	09642283 8/18/2000	6771615 8/3/2004
129.	System and method for restoring performance to a weathered satellite terminal	09664162 9/18/2000	6292155 9/18/2001
130.	Selective spoofer and method of performing selective spoofing	09664165 9/18/2000	6973497 12/6/2005
131.	In-band transmission of tty/ttd signals for systems employing low bit-rate voice compression	09669283 9/26/2000	6961320 11/1/2005
132.	Time-offset distribution to ensure constant satellite power	09678681 10/5/2000	6721538 4/13/2004
133.	Physical layer header for packet data	09707362 11/7/2000	6859466 2/22/2005
134.	System and method of reading ahead of objects for delivery to an http proxy server	09708134 11/8/2000	6795848 9/21/2004
135.	Mac layer protocol for a satellite based packet switched services	09714788 11/16/2000	6778509 8/17/2004
136.	Available bandwidth control mechanism	09716924 11/20/2000	6947445 9/20/2005
137.	Apparatus and method for hybrid network access	09722464 11/28/2000	6519651 2/11/2003
138.	Apparatus And Method For Efficient TDMA Bandwidth Allocation For TCP/IP Satellite-Based Network	09722930 11/27/2000	6834039
139.	Method and apparatus for deriving uplink timing from asynchronous traffic across multiple transport streams	09733156 12/8/2000	6993009 1/31/2006
140.	Robust carrier identifying method and apparatus for bandwidth-on-demand (BOD) system	09735675 12/13/2000	6711710 3/23/2004
141.	Method and apparatus for acquiring a synchronization signal	09768726 1/24/2001	7042854 5/9/2006
142.	Method and apparatus for tracking a synchronization signal	09768728 1/24/2001	7012937 3/14/2006
143.	Apportioning bandwidth capacity in communication switching systems	09783849 2/15/2001	6937580 8/30/2005
144.	System and method for providing a two-way satellite system	09785755 2/16/2001	7164661 1/16/2007
145.	System and method for managing bandwidth in a two-way satellite system	09789076 2/20/2001	6987741 1/17/2006
146.	System and method for scaling a two-way satellite system	09789079 2/20/2001	7463582 12/9/2008
147.	Method and system of directing an antenna in a two-way satellite system	09789081 2/20/2001	6441782 8/27/2002

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150.	Microwave waveguide assembly and method for making same	09825624 4/4/2001	6560850 5/13/2003
151.	High volume uplink in a broadband satellite communications syst	09825635 4/4/2001	6804492 10/12/2004
152.	Capacity management in a broadband satellite communications system	09832512 4/11/2001	6904265 6/7/2005
153.	Hydrogen getter package assembly	09837912 4/19/2001	6428612 8/6/2002
154.	Antenna aperture cover for attenna pointing and improved antenna pointing method using aperture cover	09852459 5/10/2001	6388614 5/14/2002
155.	Uplink power control system for satellite communication system employing on-board satellite processing and fade estimation	09875607 6/6/2001	7043199 5/9/2006
156.	Method and device for selective transport level spoofing based on information in transport level packet	09879020 6/12/2001	7082467 7/25/2006
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158.	Method and system for providing buffer management in a performance enhancing proxy architecture	09903755 7/12/2001	7213077 5/1/2007
159.	Method and system for improving network performance by utilizing path selection, path activation, and profiles	09903779 1/31/2006	6993584 7/12/2001
160.	Method and system for improving network performance using a performance enhancing proxy	09903832 7/12/2001	7219158 5/15/2007
161.	Method and system for providing connection handling	09905215 7/13/2001	7596802 9/29/2009
162.	Method and system for using a backbone protocol to improve network performance	09905502 7/13/2001	7006480 2/28/2006
163.	Method and apparatus for allocating data communications resources in a satellite communications network	09918961 7/31/2001	7450914 11/11/2008
164.	Method, apparatus, and system for identifying and efficiently treating classes of traffic	09925177 8/9/2001	7027414 4/11/2006
165.	Low latency handling of transmission control protocol messages in a broadband satellite communications system	09925178 8/9/2001	6961539 11/1/2005
166.	Dynamic queue depth management in a satellite terminal for bandwidth allocations in a broadband satellite communications system	09925180 8/9/2001	6865388 3/8/2005
167.	Scheduling and queue servicing in a satellite terminal for bandwidth allocations in a broadband satellite communications system	09925181 8/9/2001	7085247 8/1/2006
168.	Method and system for performing decoding using a reduced-memory implementation	09957749 9/21/2001	6763493 7/13/2004
169.	System and method for pointing the bore-sight of a terminal antenna towards the center of a satellite station-keeping box in the geo-stationary orbit	09962369 9/25/2001	6473035 10/29/2002

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171.	Method and system for improvement of network performance over asymmetic links	09963225 9/26/2001	7133361 11/7/2006
172.	Feed forward sigma delta interpolator for use in a fractional-n synthesizer	09963350 9/26/2001	6941330 9/6/2005
173.	Antenna alignment system and method	09976230 10/12/2001	6580391 6/17/2003
174.	System and method for reading ahead of content	09996445 11/28/2001	
175.	Method, system and computer program product for digitally generating a function	10005926 11/8/2001	6807554 10/19/2004
176.	Method and apparatus for selectively allocating and enforcing bandwidth usage requirements on network users	10010521 12/7/2001	7562130 7/14/2009
177.	Inroute training in a two-way satellite system	10016845 12/14/2001	7656813
178.	Method and system for automatic gain control in a satellite communications system	10043668 1/10/2002	6904273 6/7/2005
179.	Method and system for adaptive equalization for receivers in a wide-band satellite communications system	10043775 1/10/2002	6985523 1/10/2006
180.	Method and apparatus for selectively retrieving information from a source computer using a terrestrial or satellite interface	10054681 11/13/2001	6931512 8/16/2005
181.	Prototype waveform magnitude quantization for a frequency domain interpolative speech codec system	10073128 2/13/2002	6996523 2/7/2006
182.	Voicing measure for a speech codec system	10073406 2/13/2002	7013269 3/14/2006
183.	Prototype waveform phase modeling for a frequency domain interpolative speech codec system	10073423 2/13/2002	6931373 8/16/2005
184.	Method and system for providing a semi-data aided frequency estimator for OQPSK	10074500 2/11/2002	7027546 4/11/2006
185.	System and method for providing contention channel organization for broadband satellite access in a communications network	10074759 2/12/2002	6980800 12/27/2005
186.	Filter loop structure for synchronization in a mobile communication terminal and a method of using the same	10106940 3/26/2002	7016444 3/21/2006
187.	Method and system for providing differentiated quality of service diversity aloha	10138135 5/2/2002	7336679 2/26/2008
188.	Method and system of directing an antenna in a two-way satellite system	10139706 5/6/2002	6501423 12/31/2002
189.	System and method for efficiently using channel unit hardware to provide multiple narrowband channels overlaid on a single wideband channel in a satellite communications network	10141109 5/8/2002	7170889 1/30/2007
190.	Method and system for centrally exchanging terminal information over a meshed network	10142594 5/9/2002	

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192.	Mobility management-radio resource layer interface system and method for handling dark beam scenarios	10185256 6/28/2002	6996372 2/7/2006
193.	Mobility management state transition system and method for handling dark beam scenarios	10185277 6/28/2002	7058403 6/6/2006
194.	System and method for providing real-time and non-real-time services over a communications system	10245196 9/17/2002	7580424 8/25/2009
195.	Method and system for providing load sensitive throttling	10319117 12/13/2002	
196.	Method and system for communicating over a segmented virtual private network (VPN)	10352992 1/28/2003	
197.	Method and system for integrating performance enhancing functions in a virtual private network (VPN)	10353183 1/28/2003	7398552 7/8/2008
198.	Method and system for adaptively applying performance enhancing functions	10353247 1/28/2003	7389533
199.	Compensating for non-linearity in an overlaid communication system	10371425 2/21/2003	7016644 3/21/2006
200.	Method and apparatus for estimating beacon power variations	10430868 5/7/2003	7116936 10/3/2006
201.	Method and system for providing load-sensitive bandwidth allocation	10613876 7/3/2003	7336967 2/26/2008
202.	System and method for pre-fetching content in a proxy architecture	10659481 9/10/2003	7389330 6/17/2008
203.	Method and system for providing enhanced performance of web browsing	10659486 9/10/2003	
204.	Method and system for multicast in a broadband satellite system	10684914 10/14/2003	7471645 12/30/2008
205.	Fallback mode ingress/egress mechanism for satellite communication system	10705314 11/10/2003	7386310 6/10/2008
206.	System and method for routing among private addressing domains	10715178 11/17/2003	7388869 6/17/2008
207.	Network system with TCP/IP protocol spoofing	10750356 12/31/2003	7337233 2/26/2008
208.	Proxy architecture for providing quality of service (QOS) reservations	10754828 1/8/2004	7353279 4/1/2008
209.	Stitching of video for continuous presence multipoint video conferencing	10836672 4/30/2004	
210.	Network layer tunnel apparatus having transport layer/network layer stack and network layer tunnel and method using network layer tunnel	10935984 9/8/2004	
211.	Apparatus and method for efficient TDMA bandwidth allocation for TCP/IP satellite-based Network	10940211 9/14/2004	7619968
212.	Pre-fetching secure content using proxy architecture	10963194 10/13/2004	7584500

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214.	Method and apparatus for providing open loop bandwidth allocation	11085972 3/22/2005	
215.	Method and apparatus for assessing traffic load of a communication network	11085994 3/22/2005	
216.	Method and apparatus for providing quality of service guarantees using stateful monitoring of network load	11086001 3/22/2005	7620006
217.	Method and apparatus for secure access to dedicated network resources	11087054 3/23/2005	7581098
218.	Electronic equipment housing	29034165 1/27/1995	D376350 12/10/1996
219.	Housing for electronic apparatus	29094881 10/13/1998	D418822 1/11/2000
220.	Telephone handset	29130429 10/2/2000	D440953 4/24/2001
221.	Ornamental design of an equipment stand	29135724 1/18/2001	D460054 7/9/2002