

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3985862

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	THE DIRECTV GROUP, INC.	05/19/2005
RECEIVING PARTY DATA		
Name:	HUGHES NETWORK SYSTEMS, LLC	
Street Address:	11717 EXPLORATION LANE	
City:	GERMANTOWN	
State/Country:	MARYLAND	
Postal Code:	20876	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Patent Number:	7643416	
CORRESPONDENCE DATA		
Fax Number:		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
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Correspondent Name:	POTOMAC TECHNOLOGY LAW, LLC	
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Address Line 2:	CRAIG PLASTRIK	
Address Line 4:	POTOMAC, MARYLAND 20854	
ATTORNEY DOCKET NUMBER:	P1040US01	
NAME OF SUBMITTER:	CRAIG PLASTRIK	
SIGNATURE:	/Craig Plastrik/	
DATE SIGNED:	07/31/2016	
Total Attachments: 19		
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**CONFIRMATORY
ASSIGNMENT OF PATENTS**

WHEREAS, THE DIRECTV GROUP, INC., a Delaware corporation having a place of business at 2250 East Imperial Highway, El Segundo, California 90245 (formerly known as Hughes Electronics Corporation) ("Assignor") was the owner of the patent registrations and patent applications listed on Schedule A hereto (the "Patents");

WHEREAS, Assignor on or about April 22, 2005 assigned to Assignee certain assets, including all of Assignor's right, title and interest in and to the Patents, as further specified below;

WHEREAS, Assignor desires to confirm the sale, assignment, transfer and conveyance of all of Assignor's right, title and interest in and to the Patents, as further specified below, to HUGHES NETWORK SYSTEMS, LLC, a Delaware limited liability company having a place of business at 11717 Exploration Lane, Germantown, MD 20876 ("Assignee"); and

NOW, THEREFORE, for good and valuable consideration paid by Assignee, the receipt of which is hereby acknowledged, Assignor hereby confirms the sale, assignment, transfer and conveyance to Assignee of all of Assignor's right, title and interest in and to the Patents, and all Letters Patent of the United States and foreign jurisdictions which may be granted thereon, and any continuations, continuations-in-part, reissues, reexaminations, extensions or the like subsequently arising therefrom, subject to certain exceptions set forth in associated contractual documents between Assignor and Assignee.

IN WITNESS WHEREOF, the undersigned have caused this instrument to be signed as of this 19th day of May, 2005.

THE DIRECTV GROUP, INC.

By: David W. Baker

Name: David W. Baker

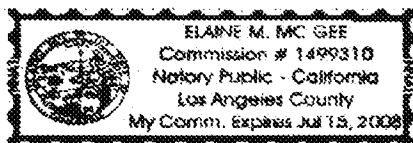
Title: Vice President

On behalf of THE DIRECTV GROUP, INC.

JURAT

State of California)
) ss.
County of Los Angeles)

Subscribed and sworn to (or affirmed) before me this 19th day of May 2005 by David W. Baker, personally known to me or proved to me on the basis of satisfactory evidence to be the person who appeared before me, and did say that he is the Vice President of Assignor and that he duly executed the foregoing instrument for and on behalf of Assignor being duly authorized to do so and that said individual acknowledged said instrument to be the free act and deed of Assignor.



Elaine M. McGee

Notary Public

SCHEDULE A to CONFIRMATORY ASSIGNMENT OF PATENTS

Patents

Issued Patents:

Patent Number	Issue Date	Country	Title
5050191	9/17/1991	U.S.	SYNCHRONIZATION DETECTOR USING PATH METRIC AND BRANCH METRIC VALUES OF A VITERBI DECODER
5208829	5/4/1993	U.S.	COMMUNICATION SATELLITE SYSTEM HAVING AN INCREASED POWER OUTPUT DENSITY PER UNIT OF BANDWIDTH
5280625	1/18/1994	U.S.	COMMUNICATION SYSTEM AND METHOD FOR LINKING DATA TERMINALS AND THEIR HOST COMPUTERS THROUGH A SATELLITE OR OTHER WIDE AREA NETWORK
5309439	5/3/1994	U.S.	TDMA SYSTEM WITH VIRTUAL REFERENCE
5315589	5/24/1994	U.S.	TDMA SYNCHRONIZATION USING VISIBILITY DESIGNATION
5343471	8/30/1994	U.S.	ADDRESS FILTER FOR A TRANSPARENT BRIDGE INTERCONNECTING LOCAL AREA NETWORKS
D 363,249	9/12/1995	U.S.	PORTABLE TELEPHONE
5459814	10/17/1995	U.S.	VOICE ACTIVITY DETECTOR FOR SPEECH SIGNALS IN VARIABLE BACKGROUND NOISE
5471657	11/28/1995	U.S.	FREQUENCY TUNING FOR SATELLITE GROUND STATIONS
5491771	2/13/1996	U.S.	REAL-TIME IMPLEMENTATION OF A 8KBPS CELP CODER ON A DSP PAIR
D 367,042	2/13/1996	U.S.	ELECTRONIC EQUIPMENT HOUSING
5495555	2/27/1996	U.S.	HIGH QUALITY LOW BIT RATE CELP-BASED SPEECH CODEC
5511079	4/23/1996	U.S.	APPARATUS AND METHOD FOR CONTROLLING FORWARD ERROR CORRECTION ENCODING IN A VERY SMALL APERTURE TERMINAL
5519640	5/21/1996	U.S.	MULTIMEDIA FRAME RELAY CODEC
5524126	6/4/1996	U.S.	SYMBOL TIMING RECOVERY USING FIR DATA INTERPOLATORS
5528727	6/18/1996	U.S.	ADAPTIVE PITCH PULSE ENHANCER AND METHOD FOR USE IN A CODEBOOK EXCITED LINEAR PREDICTION (CELP) SEARCH LOOP
5533133	7/2/1996	U.S.	NOISE SUPPRESSION IN DIGITAL VOICE COMMUNICATIONS SYSTEMS
5537509	7/16/1996	U.S.	COMFORT NOISE GENERATION FOR DIGITAL COMMUNICATION SYSTEMS

SCHEDULE A to CONFIRMATORY ASSIGNMENT OF PATENTS

Patent Number	Issue Date	Country	Title
5570454	10/29/1996	U.S.	METHOD FOR PROCESSING SPEECH SIGNALS AS BLOCK FLOATING POINT NUMBERS IN A CELP-BASED CODER USING A FIXED POINT PROCESSOR
5577074	11/19/1996	U.S.	COMBINED CLOCK RECOVERY/FREQUENCY STABILIZATION LOOP
5577056	11/19/1996	U.S.	METHOD AND APPARATUS FOR ADJUSTING THE POSTAMBLE FALSE DETECTION PROBABILITY THRESHOLD FOR A BURST TRANSMISSION
5578972	11/26/1996	U.S.	TRANSMIT/RECEIVE ISOLATION ASSEMBLY FOR A VERY SMALL APERTURE SATELLITE TERMINAL
D 376,350	12/10/1996	U.S.	ELECTRONIC EQUIPMENT HOUSING
5589837	12/31/1996	U.S.	APPARATUS FOR POSITIONING AN ANTENNA IN A REMOTE GROUND TERMINAL
5596676	1/21/1997	U.S.	METHOD OF ENCODING A SIGNAL CONTAINING SPEECH
5619689	4/8/1997	U.S.	METHOD AND APPARATUS FOR CONFIRMING DELIVERY OF FILES IN A FILE BROADCAST SYSTEM WITH REBROADCAST TIMING AT THE RECEIVER
5625640	4/29/1997	U.S.	APPARATUS FOR AND METHOD OF BROADCAST SATELLITE NETWORK RETURN-LINK SIGNAL TRANSMISSION
5625628	4/29/1997	U.S.	ALOHA OPTIMIZATION
5630016	5/13/1997	U.S.	COMFORT NOISE GENERATION FOR DIGITAL COMMUNICATION SYSTEMS
5633982	5/27/1997	U.S.	REMOVAL OF SWIRL ARTIFACTS FROM CELP-BASED SPEECH CODERS
5638374	6/10/1997	U.S.	ENHANCED TRANSACTION RESERVATION
5649055	7/15/1997	U.S.	VOICE ACTIVITY DETECTOR FOR SPEECH SIGNALS IN VARIABLE BACKGROUND NOISE
5649012	7/15/1997	U.S.	METHOD FOR SYNTHESIZING AN ECHO PATH IN AN ECHO CANCELLER
5651026	7/22/1997	U.S.	ROBUST VECTOR QUANTIZATION OF LINE SPECTRAL FREQUENCIES
5652795	7/29/1997	U.S.	METHOD AND APPARATUS FOR AN ADAPTER CARD PROVIDING CONDITIONAL ACCESS IN A COMMUNICATION SYSTEM
5657031	8/12/1997	U.S.	EARTH STATION ANTENNA SYSTEM
5659615	8/19/1997	U.S.	SECURE SATELLITE RECEIVE-ONLY LOCAL AREA NETWORK WITH ADDRESS FILTER

SCHEDULE A to CONFIRMATORY ASSIGNMENT OF PATENTS

Patent Number	Issue Date	Country	Title
5659892	8/19/1997	U.S.	OPERATION OF LOW-COST, FIXED OUTPUT POWER RADIO IN FIXED GAIN MODE
5666370	9/9/1997	U.S.	HIGH PERFORMANCE ERROR CODING IN CHANNEL ENCODERS AND DECODERS
5678210	10/14/1997	U.S.	METHOD AND APPARATUS OF COUPLING A TRANSMITTER TO A WAVEGUIDE IN A REMOTE GROUND TERMINAL
5678228	10/14/1997	U.S.	SATELLITE TERMINAL WITH SLEEP MODE
5689556	11/18/1997	U.S.	METHOD OF DETECTING NARROW-BAND SIGNALS IN AN ECHO CANCELLER
5704000	12/30/1997	U.S.	ROBUST PITCH ESTIMATION METHOD AND DEVICE FOR TELEPHONE SPEECH
5710982	1/20/1998	U.S.	POWER CONTROL FOR TDMA MOBILE SATELLITE COMMUNICATION SYSTEM
5734789	3/31/1998	U.S.	VOICED, UNVOICED OR NOISE MODES IN A CELP VOCODER
5751903	5/12/1998	U.S.	A LOW RATE MULTI-MODE CELP CODEC THAT USES BACKWARD PREDICTION
5758256	5/26/1998	U.S.	METHOD OF TRANSPORTING SPEECH INFORMATION IN A WIRELESS CELLULAR SYSTEM
5781540	7/14/1998	U.S.	DEVICE AND METHOD FOR COMMUNICATING IN A MOBILE SATELLITE SYSTEM
5790940	8/4/1998	U.S.	POWER CONTROL FOR TDMA MOBILE SATELLITE COMMUNICATION SYSTEM
5790939	8/4/1998	U.S.	METHOD AND SYSTEM OF FRAME TIMING SYNCHRONIZATION IN TDMA BASED MOBILE SATELLITE COMMUNICATION SYSTEM
5793755	8/11/1998	U.S.	SIGNAL CLASSIFIER AND ECHO SUPPRESSOR FOR FACSIMILE CALLS IN A SATELLITE NETWORK
5839068	11/17/1998	U.S.	METHOD OF DELIVERING SERVICE VOICE ANNOUNCEMENTS IN A SATELLITE TELEPHONY COMMUNICATION SYSTEM
5809463	9/15/1998	U.S.	METHOD OF DETECTING DOUBLE TALK IN AN ECHO CANCELLER
5852721	12/22/1998	U.S.	METHOD AND APPARATUS FOR SELECTIVELY RETRIEVING INFORMATION FROM A SOURCE COMPUTER USING A TERRESTRIAL OR SATELLITE INTERFACE
5870443	2/9/1999	U.S.	SYMBOL TIMING RECOVERY AND TRACKING METHOD FOR BURST-MODE DIGITAL COMMUNICATIONS
5901367	5/4/1999	U.S.	LOW INSERTION LOSS CONNECTION OF AN ANTENNA TO A MOBILE RADIO

SCHEDULE A to CONFIRMATORY ASSIGNMENT OF PATENTS

Patent Number	Issue Date	Country	Title
5906031	5/25/1999	U.S.	ROTATING AND LOCKING CLIP FOR PORTABLE ELECTRONIC DEVICE
5949888	9/7/1999	U.S.	COMFORT NOISE GENERATOR FOR ECHO CANCELLERS
5966688	10/12/1999	U.S.	SPEECH MODE BASED MULTI-STAGE VECTOR QUANTIZER
5968129	10/19/1999	U.S.	METHOD AND APPARATUS FOR SELECTIVELY RETRIEVING INFORMATION FROM A SOURCE COMPUTER USING A TERRESTRIAL SATELLITE INTERFACE
5974092	10/26/1999	U.S.	METHOD AND SYSTEM FOR MOBILE ALERTING IN A MOBILE SATELLITE COMMUNICATION SYSTEM
D418822	1/11/2000	U.S.	HOUSING FOR ELECTRONIC APPARATUS
6038328	3/14/2000	U.S.	MINIMIZATION OF ACOUSTIC ECHO EFFECTS IN A MICROPHONE BOOT
6043781	3/28/2000	U.S.	LOW INSERTION LOSS CONNECTION OF AN ANTENNA TO A MOBILE RADIO WITH RETRACTABLE SWIVELING ANTENNA FEATURE
6058306	5/2/2000	U.S.	COMPENSATION OF DYNAMIC DOPPLER FREQUENCY OF LARGE RANGE IN SATELLITE COMMUNICATION SYSTEMS
6067561	5/23/2000	U.S.	AN ELECTRONIC MAIL NOTIFICATION SYSTEM AND METHOD WITHIN A HYBRID NETWORK THAT TRANSMITS NOTIFICATIONS VIA A CONTINUOUS, HIGH-SPEED CHANNEL
6072841	6/6/2000	U.S.	BLOCK PHASE ESTIMATOR FOR THE COHERENT DETECTION OF NON-DIFFERENTIALLY PHASE MODULATED DATA BURSTS ON RICIAN FADING CHANNELS
6125184	9/26/2000	U.S.	METHOD AND APPARATUS FOR AN ADAPTER CARD PROVIDING CONDITIONAL ACCESS IN A COMMUNICATION SYSTEM
6131160	10/10/2000	U.S.	METHOD AND APPARATUS FOR AN ADAPTER CARD PROVIDING CONDITIONAL ACCESS IN A COMMUNICATION SYSTEM
6182251	1/30/2001	U.S.	CHANNEL ESTIMATION IN A FADING CHANNEL
6215873	4/10/2001	U.S.	ADAPTER FOR CONNECTING COMPUTER TO SATELLITE ANTENNA
D 440,953	4/24/2001	U.S.	AESTHETIC DESIGN OF A TELEPHONE HANDSET OR SIMILAR ARTICLE
6226304	5/1/2001	U.S.	LEASED LINE OPTIMIZATION AND VOICE QUALITY IMPROVEMENT IN BANDWIDTH CONSTRAINED COMMUNICATION SYSTEMS
6233451	5/15/2001	U.S.	SPOT BEAM SELECTION IN A MOBILE SATELLITE COMMUNICATION SYSTEM

SCHEDULE A to CONFIRMATORY ASSIGNMENT OF PATENTS

Patent Number	Issue Date	Country	Title
6246874	6/12/2001	U.S.	METHOD AND APPARATUS FOR PREDICTING SPOT BEAM AND SATELLITE HANDOVER IN A MOBILE SATELLITE COMMUNICATION NETWORK
6249677	6/19/2001	U.S.	APPARATUS AND METHOD FOR DELIVERING KEY INFORMATION OF A CHANNEL REQUEST MESSAGE FROM A USER TERMINAL TO A NETWORK
6269240	7/31/2001	U.S.	SLIDABLE CONNECTION FOR A RETRACTABLE ANTENNA TO A MOBILE RADIO
6282178	8/28/2001	U.S.	PAGING RECEPTION ASSURANCE IN A MULTIPLY REGISTERED WIRELESS TRANSCEIVER
6289482	9/11/2001	U.S.	ERROR AND FLOW CONTROL IN A SATELLITE COMMUNICATIONS SYSTEM
6292155	9/18/2001	U.S.	SYSTEM AND METHOD FOR RESTORING PERFORMANCE TO A WEATHERED SATELLITE TERMINAL
6298048	10/2/2001	U.S.	TDMA SYSTEM TIMER FOR MAINTAINING TIMING TO MULTIPLE SATELLITES SIMULTANEOUSLY
6307937	10/23/2001	U.S.	METHOD AND APPARATUS FOR AN ADAPTER CARD PROVIDING CONDITIONAL ACCESS IN A COMMUNICATION SYSTEM
6307503	10/23/2001	U.S.	METHOD AND SYSTEM OF DETERMINING USER TERMINAL POSITION USING A MEASURED SIGNAL PROPAGATION DELAY AND DOPPLER SHIFT OF A COMMUNICATIONS LINK
6314393	11/6/2001	U.S.	PARALLEL/PIPELINE VLSI ARCHITECTURE FOR A LOW-DELAY CELP CODER/DECODER
6314290	11/6/2001	U.S.	MOBILE SATELLITE SYSTEM AND METHOD FOR IMPLEMENTING A SINGLE-HOP TERMINAL-TO-TERMINAL CALL
6317077	11/13/2001	U.S.	METHOD AND SYSTEM OF DETERMINING USER TERMINAL POSITION USING MULTIPLE SATELLITES
6321268	11/20/2001	U.S.	METHOD AND APPARATUS FOR SELECTIVELY RETRIEVING INFORMATION FROM A SOURCE COMPUTER USING A TERRESTRIAL OR SATELLITE INTERFACE
6332069	12/18/2001	U.S.	APPARATUS AND METHOD FOR GROUPING CARRIERS TO MINIMIZE THE OCCURRENCE OF CALL BLOCKING IN A SATELLITE-BASED COMMUNICATIONS NETWORK
6347124	2/12/2002	U.S.	SYSTEM AND METHOD OF SOFT DECISION DECODING
6349120	2/19/2002	U.S.	METHOD FOR IMPROVING SPECTRAL SAMPLING USING SUB-BURST DISCREET FOURIER TRANSFORMS

SCHEDULE A to CONFIRMATORY ASSIGNMENT OF PATENTS

Patent Number	Issue Date	Country	Title
6351467	2/26/2002	U.S.	SYSTEM AND METHOD FOR MULTICASTING MULTIMEDIA CONTENT
6353738	3/5/2002	U.S.	METHOD FOR IMPLEMENTING A TERMINAL-TO-TERMINAL CALL WITH AN OPTIMAL USE OF RADIO RESOURCES IN A MOBILE SATELLITE SYSTEM
6356740	3/12/2002	U.S.	METHOD AND SYSTEM OF FREQUENCY STABILIZATION IN A MOBILE SATELLITE COMMUNICATION SYSTEM
6363131	3/26/2002	U.S.	METHOD AND APPARATUS FOR JOINT TIMING SYNCHRONIZATION AND FREQUENCY OFFSET ESTIMATION
6374096	4/16/2002	U.S.	INTERFERENCE DETECTION IN MOBILE SATELLITE COMMUNICATIONS LINKS
6373858	4/16/2002	U.S.	BURST FORMAT AND ASSOCIATED SIGNAL PROCESSING TO IMPROVE FREQUENCY AND TIMING ESTIMATION FOR RANDOM ACCESS CHANNELS
6385447	5/7/2002	U.S.	SIGNALING MAINTENANCE FOR DISCONTINUOUS INFORMATION COMMUNICATIONS
6385727	5/7/2002	U.S.	AN APPARATUS FOR PROVIDING A SECURE PROCESSING ENVIRONMENT
6389289	5/14/2002	U.S.	EARTH TILTING SYSTEM FOR PROVIDING REGIONAL BASED SERVICE IN A MOBILE SATELLITE COMMUNICATION NETWORK
6388614	5/14/2002	U.S.	ANTENNA APERTURE COVER FOR ANTENNA POINTING AND IMPROVED ANTENNA POINTING METHOD USING APERTURE COVER
6411689	6/25/2002	U.S.	FACSIMILE CALL SUCCESS RATES IN LONG DELAY ENVIRONMENTS
6418158	7/9/2002	U.S.	SYNCHRONIZATION IN MOBILE SATELLITE SYSTEMS USING DUAL-CHIRP WAVEFORM
6418408	7/9/2002	U.S.	FREQUENCY DOMAIN INTERPOLATIVE SPEECH CODEC SYSTEM
D 460,954	7/9/2002	U.S.	ORNAMENTAL DESIGN OF AN EQUIPMENT STAND
6428612	8/6/2002	U.S.	HYDROGEN GETTER PACKAGE ASSEMBLY
6438666	8/20/2002	U.S.	METHOD AND APPARATUS FOR CONTROLLING ACCESS TO CONFIDENTIAL DATA BY ANALYZING PROPERTY INHERENT IN DATA
6438386	8/20/2002	U.S.	IMMEDIATE CHANNEL ASSIGNMENT IN A WIRELESS SYSTEM

SCHEDULE A to CONFIRMATORY ASSIGNMENT OF PATENTS

Patent Number	Issue Date	Country	Title
6441782	8/27/2002	U.S.	METHOD AND SYSTEM OF DIRECTING AN ANTENNA IN A TWO-WAY SATELLITE SYSTEM
6453289	9/17/2002	U.S.	METHOD OF NOISE REDUCTION FOR SPEECH CODECS
6473035	10/29/2002	U.S.	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
6473793	10/29/2002	U.S.	METHOD AND APPARATUS FOR SELECTIVELY ALLOCATING AND ENFORCING BANDWIDTH USAGE REQUIREMENTS ON NETWORK USERS
6476764	11/5/2002	U.S.	POST-INSTALLATION MONITORING METHOD FOR A SATELLITE TERMINAL ANTENNA
6493664	12/10/2002	U.S.	SPECTRAL MAGNITUDE MODELING AND QUANTIZATION IN A FREQUENCY DOMAIN INTERPOLATIVE SPEECH CODEC SYSTEM
6501423	12/31/2002	U.S.	METHOD AND SYSTEM OF DIRECTING AN ANTENNA IN A TWO-WAY SATELLITE SYSTEM
6516065	2/4/2003	U.S.	METHOD FOR IMPLEMENTING CIPHERED COMMUNICATION FOR SINGLE-HOP TERMINAL-TO-TERMINAL CALLS IN A MOBILE SATELLITE SYSTEM
6519651	2/11/2003	U.S.	APPARATUS AND METHOD FOR HYBRID NETWORK ACCESS
6546488	4/8/2003	U.S.	BROADCAST DELIVERY OF INFORMATION TO A PERSONAL COMPUTER FOR LOCAL STORAGE AND ACCESS
6553225	4/22/2003	U.S.	OFFSET ZONE ARRANGEMENT ALGORITHM WITH INCREASED CALL DURATION
6560850	5/13/2003	U.S.	MICROWAVE WAVEGUIDE ASSEMBLY AND METHOD FOR MAKING SAME
6580391	6/17/2003	U.S.	ANTENNA ALIGNMENT SYSTEM AND METHOD
6603577	8/5/2003	U.S.	FACSIMILE CALL SUCCESS RATES IN LONG DELAY AND IMPAIRED CHANNEL ENVIRONMENTS WITHOUT COLLISION DETECTION
6608874	8/19/2003	U.S.	QUADRATURE MULTI-PULSE (QMP) MODULATION FOR HIGH SPECTRAL EFFICIENCY COMMUNICATIONS
6630895	11/18/2003	U.S.	IN-CALL DTMF TRANSPORT FOR GEOSTATIONERY MOBILE SATELLITE COMMUNICATION SYSTEM
6630649	11/18/2003	U.S.	EXTENSION INTERFACE UNITS IN A COMMUNICATION SYSTEM
6658463	12/2/2003	U.S.	SATELLITE MULTICAST PERFORMANCE ENHANCING MULTICAST HTTP PROXY SYSTEM AND METHOD

SCHEDULE A to CONFIRMATORY ASSIGNMENT OF PATENTS

Patent Number	Issue Date	Country	Title
6671338	12/30/2003	U.S.	COMBINED INTERFERENCE CANCELLATION WITH FEC DECODING FOR HIGH SPECTRAL EFFICIENCY SATELLITE COMMUNICATIONS
6680987	1/20/2004	U.S.	FADING COMMUNICATIONS CHANNEL ESTIMATION AND COMPENSATION
6691092	2/10/2004	U.S.	VOICING MEASURE AS AN ESTIMATE OF SIGNAL PERIODICITY FOR A FREQUENCY DOMAIN INTERPOLATIVE SPEECH CODEC SYSTEM
6711710	3/23/2004	U.S.	ROBUST CARRIER IDENTIFYING METHOD AND APPARATUS FOR BANDWIDTH-ON-DEMAND (BOD) SYSTEM
6721538	4/13/2004	U.S.	TIME-OFFSET DISTRIBUTION TO ENSURE CONSTANT SATELLITE POWER
6738330	5/18/2004	U.S.	CONGESTION AVOIDANCE APPROACH FOR A SWITCHING COMMUNICATION SYSTEM WITH TRANSMISSION CONSTRAINTS
6738366	5/18/2004	U.S.	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
6763493	7/13/2004	U.S.	METHOD AND SYSTEM FOR PERFORMING DECODING USING A REDUCED-MEMORY IMPLEMENTATION
6765971	7/20/2004	U.S.	SYSTEM METHOD AND COMPUTER PROGRAM PRODUCT FOR IMPROVED NARROW BAND SIGNAL DETECTION FOR ECHO CANCELLATION
6771615	8/3/2004	U.S.	SYNCHRONIZATION APPARATUS AND METHOD FOR A RETURN LINK POWER CONTROL MESSAGE FOR SATELLITE SYSTEMS
6778509	8/17/2004	U.S.	MAC LAYER PROTOCOL FOR A SATELLITE BASED PACKET SWITCHED SERVICES
6795848	9/21/2004	U.S.	SYSTEM AND METHOD OF READING AHEAD OF OBJECTS FOR DELIVERY TO AN HTTP PROXY SERVER
6804492	10/12/2004	U.S.	HIGH VOLUME UPLINK IN A BROADBAND SATELLITE COMMUNICATIONS SYSTEM
6807554	10/19/2004	U.S.	METHOD, SYSTEM AND COMPUTER PROGRAM PRODUCT FOR DIGITALLY GENERATING A FUNCTION
6763222	7/13/2004	U.S.	LOW VOLTAGE INDICATION FOR NON-INTELLIGENT ODU EQUIPMENT
6834039	12/21/2004	U.S.	EFFICIENT TDMA BANDWIDTH ALLOCATION FOR TCP/IP SATELLITE-BASED NETWORKS
6836515	12/28/2004	U.S.	MULTI-MODULATION RADIO COMMUNICATIONS

SCHEDULE A to CONFIRMATORY ASSIGNMENT OF PATENTS

Patent Number	Issue Date	Country	Title
6839540	1/4/2005	U.S.	POWER SAVING METHOD FOR MULTIPLE CHANNELS PER CARRIER (MCPC) SATELLITE TRANSMISSION
6839770	1/4/2005	U.S.	APPARATUS AND METHOD FOR ACCESS TO NETWORK VIA SATELLITE
6842437	1/11/2005	U.S.	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
6859466	2/22/2005	U.S.	PHYSICAL LAYER HEADER FOR PACKET DATA
6863388	3/8/2005	U.S.	DYNAMIC QUEUE DEPTH MANAGEMENT IN A SATELLITE TERMINAL FOR BANDWIDTH ALLOCATIONS IN A BROADBAND SATELLITE COMMUNICATIONS SYSTEM

Patent Applications:

Patent Application Number	Filing Date	Country	Title
09401694	9/23/1999	U.S.	METHOD AND SYSTEM FOR INTERFERENCE CANCELLATION FOR HIGH SPECTRAL EFFICIENCY SATELLITE COMMUNICATIONS
09447684	11/23/1999	U.S.	ACQUISITION MECHANISM FOR A MOBILE SATELLITE SYSTEM
09631269	8/2/2000	U.S.	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
09662072	9/14/2000	U.S.	PERFORMANCE ENHANCING PROXY AND METHOD FOR ENHANCING PERFORMANCE
09664165	9/18/2000	U.S.	SELECTIVE SPOOFER AND METHOD OF PERFORMING SELECTIVE SPOOFING
09669283	9/26/2000	U.S.	IN-BAND TRANSMISSION OF TTY/TDD SIGNALS FOR SYSTEMS EMPLOYING LOW BIT-RATE VOICE COMPRESSION
09670124	9/26/2000	U.S.	AN APPROACH TO MINIMIZE WORST-CASE QUEUEING DELAY FOR A SWITCHING COMMUNICATION SYSTEM WITH TRANSMISSION CONSTRAINTS
09716924	11/20/2000	U.S.	AVAILABLE BANDWIDTH CONTROL MECHANISM
09716922	11/20/2000	U.S.	QUEUE AND SCHEDULER UTILIZATION METRICS
09728743	12/4/2000	U.S.	LEASED LINE OPTIMIZATION AND VOICE QUALITY IMPROVEMENT IN BANDWIDTH CONSTRAINED COMMUNICATION SYSTEMS

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09733156	12/8/2000	U.S.	METHOD AND APPARATUS FOR DERIVING UPLINK TIMING FROM ASYNCHRONOUS TRAFFIC ACROSS MULTIPLE TRANSPORT STREAMS
09741120	12/20/2000	U.S.	RESOURCE MANAGEMENT AND BILLING SYSTEM FOR A BROADBAND SATELLITE COMMUNICATIONS SYSTEM
09768728	1/24/2001	U.S.	METHOD AND APPARATUS FOR TRACKING A SYNCHRONIZATION SIGNAL
09768726	1/24/2001	U.S.	METHOD AND APPARATUS FOR ACQUIRING A SYNCHRONIZATION SIGNAL
09782973	2/14/2001	U.S.	SYSTEM INTERFACES IN A TWO-WAY SATELLITE SYSTEM
09783849	2/15/2001	U.S.	APPORTIONING BANDWIDTH CAPACITY IN COMMUNICATION SWITCHING SYSTEMS
09783851	2/15/2001	U.S.	SYSTEM AND METHOD FOR PERFORMING AUTO-COMMISSIONING IN A TWO-WAY SATELLITE SYSTEM
09788234	2/16/2001	U.S.	SYSTEM AND METHOD FOR PROVIDING CONTROL OF A TWO-WAY SATELLITE SYSTEM
09785735	2/16/2001	U.S.	SYSTEM AND METHOD FOR PROVIDING A TWO-WAY SATELLITE SYSTEM
09789076	2/20/2001	U.S.	SYSTEM AND METHOD FOR MANAGING BANDWIDTH IN A TWO-WAY SATELLITE SYSTEM
09789079	2/20/2001	U.S.	SYSTEM AND METHOD FOR SCALING A TWO-WAY SATELLITE SYSTEM
09789080	2/20/2001	U.S.	USER INTERFACE FOR A TWO-WAY SATELLITE COMMUNICATIONS SYSTEM
09790379	2/22/2001	U.S.	TRANSCIVER IN A TWO-WAY SATELLITE SYSTEM
09789969	2/22/2001	U.S.	METHOD AND SYSTEM FOR PROVIDING EFFICIENT DATA TRANSMISSION BASED UPON A CONTENTION PROTOCOL
09802660	3/9/2001	U.S.	ADAPTER FOR CONNECTING COMPUTER TO SATELLITE ANTENNA
09832512	4/11/2001	U.S.	CAPACITY MANAGEMENT IN A BROADBAND SATELLITE COMMUNICATIONS SYSTEM
09863157	5/23/2001	U.S.	CACHING ADDRESS INFORMATION IN A COMMUNICATIONS SYSTEM
09875607	6/6/2001	U.S.	UPLINK POWER CONTROL SYSTEM FOR SATELLITE COMMUNICATION SYSTEM EMPLOYING ON-BOARD SATELLITE PROCESSING AND FADE ESTIMATION
09879020	6/12/2001	U.S.	SELECTIVE SPOOFER AND METHOD OF PERFORMING SELECTIVE SPOOFING
09883539	6/18/2001	U.S.	LINEARIZED OFFSET QPSK MODULATION UTILIZING A SIGMA-DELTA BASED FREQUENCY MODULATOR

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09903755	7/12/2001	U.S.	METHOD AND SYSTEM FOR PROVIDING BUFFER MANAGEMENT IN A PERFORMANCE ENHANCING PROXY ARCHITECTURE
09903780	7/12/2001	U.S.	METHOD AND SYSTEM FOR IMPROVING NETWORK PERFORMANCE ENHANCING PROXY ARCHITECTURE WITH GATEWAY REDUNDANCY
09903781	7/12/2001	U.S.	METHOD AND SYSTEM FOR PRIORITIZING TRAFFIC IN A NETWORK
09903779	7/12/2001	U.S.	METHOD AND SYSTEM FOR IMPROVING NETWORK PERFORMANCE BY UTILIZING PATH SELECTION, PATH ACTIVATION, AND PROFILES
09903832	7/12/2001	U.S.	METHOD AND SYSTEM FOR IMPROVING NETWORK PERFORMANCE USING A PERFORMANCE ENHANCING PROXY
09905151	7/13/2001	U.S.	NETWORK MANAGEMENT OF A PERFORMANCE ENHANCING PROXY ARCHITECTURE
09905215	7/13/2001	U.S.	METHOD AND SYSTEM FOR PROVIDING CONNECTION HANDLING
09903502	7/13/2001	U.S.	METHOD AND SYSTEM FOR USING A BACKBONE PROTOCOL TO IMPROVE NETWORK PERFORMANCE
09851219	7/20/2001	U.S.	SYSTEM AND METHOD FOR MULTICASTING MULTIMEDIA CONTENT
09915811	7/26/2001	U.S.	INTEGRATED PMP-RADIO AND DSL MULTIPLEXER AND METHOD FOR USING THE SAME
09918961	7/31/2001	U.S.	METHOD AND APPARATUS FOR ALLOCATING DATA COMMUNICATIONS RESOURCES IN A SATELLITE COMMUNICATIONS NETWORK
09925178	8/9/2001	U.S.	LOW LATENCY HANDLING OF TRANSMISSION CONTROL PROTOCOL MESSAGES IN A BROADBAND SATELLITE COMMUNICATIONS SYSTEM
09925181	8/9/2001	U.S.	SCHEDULING AND QUEUE SERVICING IN A SATELLITE TERMINAL FOR BANDWIDTH ALLOCATIONS IN A BROADBAND SATELLITE COMMUNICATIONS SYSTEM
09925177	8/9/2001	U.S.	METHOD, APPARATUS, AND SYSTEM FOR IDENTIFYING AND EFFICIENTLY TREATING CLASSES OF TRAFFIC
09934013	8/21/2001	U.S.	MULTICAST ENABLED CACHING SERVICE
09949564	9/10/2001	U.S.	AUTOMATED SIGNAL MEASUREMENT IN A SATELLITE COMMUNICATION SYSTEM
09949563	9/10/2001	U.S.	WIRELESS SYSTEMS FREQUENCY REUSE PLANNING USING SIMULATED ANNEALING

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09963350	9/26/2001	U.S.	FEED FORWARD SIGMA DELTA INTERPOLATOR FOR USE IN A FRACTIONAL-N SYNTHESIZER
09963223	9/26/2001	U.S.	HYBRID SATELLITE SYSTEM FOR PROVIDING ONE-WAY AND TWO-WAY COMMUNICATIONS SERVICES
09963225	9/26/2001	U.S.	METHOD AND SYSTEM FOR IMPROVEMENT OF NETWORK PERFORMANCE OVER ASYMMETRIC LINKS
09963222	9/26/2001	U.S.	METHOD AND SYSTEM FOR PROVIDING A MULTI-LEVEL POWER CONTROL LOOP
09963352	9/26/2001	U.S.	METHOD, SYSTEM AND COMPUTER PROGRAM PRODUCT FOR BANDWIDTH-ON-DEMAND SIGNALING
09975051	10/11/2001	U.S.	SYSTEM AND METHOD FOR CONTROLLING INTERFERENCE AFFECTING SATELLITE TERMINALS IN A SATELLITE COMMUNICATIONS NETWORK BY ESTABLISHING AND USING VIRTUAL CELLS WHICH ARE INDEPENDENT OF THE CELLS FORMED BY THE SPOT BEAMS GENERATED BY THE SATELLITE
09974934	10/11/2001	U.S.	SYSTEM AND METHOD FOR MANAGING CONGESTION IN A SATELLITE COMMUNICATIONS NETWORK
09978291	10/16/2001	U.S.	METHOD, DEVICE AND COMPUTER PROGRAM PRODUCT FOR A DEMODULATOR USING A FUZZY ADAPTIVE FILTER (FAF) AND DECISION FEEDBACK
09978469	10/17/2001	U.S.	METHOD, SYSTEM AND COMPUTER PROGRAM PRODUCT FOR EFFICIENT STORAGE OF DATA
10039520	10/24/2001	U.S.	DUAL CHANNEL REMOTE TERMINAL
10054681	11/13/2001	U.S.	METHOD AND APPARATUS FOR SELECTIVELY RETRIEVING INFORMATION FROM A SOURCE COMPUTER USING A TERRESTRIAL OR SATELLITE INTERFACE
09990358	11/21/2001	U.S.	SYSTEM AND METHOD FOR MULTICASTING MULTIMEDIA CONTENT
09996445	11/28/2001	U.S.	SYSTEM AND METHOD OF READING AHEAD OF CONTENT
09998266	11/30/2001	U.S.	SYSTEM AND METHOD FOR PROVIDING CLOSED-LOOP POWER CONTROL
10011002	12/6/2001	U.S.	SYSTEM AND METHOD FOR MULTICASTING MULTIMEDIA CONTENT
10010521	12/7/2001	U.S.	METHOD AND APPARATUS FOR SELECTIVELY ALLOCATING AND ENFORCING BANDWIDTH USAGE REQUIREMENTS ON NETWORK USERS
10007978	12/7/2001	U.S.	APPARATUS FOR PROVIDING VARIABLE CONTROL OF THE GAIN OF AN AMPLIFIER

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10023115	12/13/2001	U.S.	COMBINED INTERFERENCE CANCELLATION WITH FEC DECODING FOR HIGH SPECTRAL EFFICIENCY SATELLITE COMMUNICATIONS
10017975	12/13/2001	U.S.	SYSTEM AND METHOD FOR PROVIDING TRANS-POLAR SATELLITE COMMUNICATIONS
10015845	12/14/2001	U.S.	ENROUTE TRAINING IN A TWO-WAY SATELLITE SYSTEM
10027734	12/20/2001	U.S.	METHOD, SYSTEM, DEVICE AND COMPUTER PROGRAM PRODUCT FOR A DEMODULATOR WITH COMMUNICATIONS LINK ADAPTATION
10043668	1/10/2002	U.S.	METHOD AND SYSTEM FOR AUTOMATIC GAIN CONTROL IN A SATELLITE COMMUNICATIONS SYSTEM
10043775	1/10/2002	U.S.	METHOD AND SYSTEM FOR ADAPTIVE EQUALIZATION FOR RECEIVERS IN A WIDE-BAND SATELLITE COMMUNICATIONS SYSTEM
10043803	1/10/2002	U.S.	SYSTEM AND METHOD OF PARALLEL PARTITIONING A SATELLITE COMMUNICATIONS MODEM
10074500	2/11/2002	U.S.	METHOD AND SYSTEM FOR PROVIDING A SEMI-DATA AIDED FREQUENCY ESTIMATOR FOR QPSK
10074760	2/12/2002	U.S.	METHOD AND SYSTEM FOR DELAYED CONNECTION RELEASE PROTOCOL
10074759	2/12/2002	U.S.	SYSTEM AND METHOD FOR PROVIDING CONTENTION CHANNEL ORGANIZATION FOR BROADBAND SATELLITE ACCESS IN A COMMUNICATIONS NETWORK
10073424	2/13/2002	U.S.	FREQUENCY DOMAIN INTERPOLATIVE SPEECH CODEC SYSTEM
10073128	2/13/2002	U.S.	PROTOTYPE WAVEFORM MAGNITUDE QUANTIZATION FOR A FREQUENCY DOMAIN INTERPOLATIVE SPEECH CODEC SYSTEM
10073406	2/13/2002	U.S.	VOICING MEASURE FOR A SPEECH CODEC SYSTEM
10073423	2/13/2002	U.S.	PROTOTYPE WAVEFORM PHASE MODELING FOR A FREQUENCY DOMAIN INTERPOLATIVE SPEECH CODEC SYSTEM
10077339	2/15/2002	U.S.	SATELLITE BROADCASTING SYSTEM EMPLOYING CHANNEL SWITCHING
10081828	2/21/2002	U.S.	METHOD AND SYSTEM FOR PERFORMING STATELESS COMPRESSION OF MESSAGES
10084790	2/23/2002	U.S.	TRANSPARENT PROXYING ENHANCEMENT
10102326	3/20/2002	U.S.	VECTOR BASED TRACKING SYSTEM AND METHOD FOR SYMBOL TIMING RECOVERY

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10106940	3/26/2002	U.S.	FILTER LOOP STRUCTURE FOR SYNCHRONIZATION IN A MOBILE COMMUNICATION TERMINAL AND A METHOD OF USING THE SAME
10118756	4/9/2002	U.S.	SYSTEM AND METHOD FOR ESTIMATING SIGNAL TO NOISE RATIO
10138135	5/2/2002	U.S.	METHOD AND SYSTEM FOR PROVIDING DIFFERENTIATED QUALITY OF SERVICE DIVERSITY ALOHA
10140345	5/7/2002	U.S.	SYNCHRONIZATION SCHEME IN A TURBO DECODER BASED FEC SYSTEM
10141109	5/8/2002	U.S.	SYSTEM AND METHOD FOR EFFICIENTLY USING CHANNEL UNIT HARDWARE TO PROVIDE MULTIPLE NARROWBAND CHANNELS OVERLAIN ON A SINGLE WIDEBAND CHANNEL IN A SATELLITE COMMUNICATIONS NETWORK
10140717	5/8/2002	U.S.	METHOD AND SYSTEM FOR PROVIDING PEER-TO-PEER EXCHANGE OF TERMINAL INFORMATION OVER A MESHED NETWORK
10142594	5/9/2002	U.S.	METHOD AND SYSTEM FOR CENTRALLY EXCHANGING TERMINAL INFORMATION OVER A MESHED NETWORK
10158278	5/30/2002	U.S.	METHOD AND SYSTEM FOR PROVIDING TWO-WAY COMMUNICATION USING AN OVERLAY OF SIGNALS OVER A NON-LINEAR COMMUNICATIONS CHANNEL
10185256	6/28/2002	U.S.	MOBILITY MANAGEMENT-RADIO RESOURCE LATER INTERFACE SYSTEM AND METHOD FOR HANDLING DARK BEAM SCENARIOS
10185277	6/28/2002	U.S.	A MOBILITY MANAGEMENT STATE TRANSITION SYSTEM AND METHOD FOR HANDLING DARK BEAM SCENARIOS
10230039	8/28/2002	U.S.	DYNAMIC CONNECTION ESTABLISHMENT IN A MESHED COMMUNICATION SYSTEM
10245196	9/17/2002	U.S.	SYSTEM AND METHOD FOR PROVIDING REAL-TIME AND NON-REAL-TIME SERVICES OVER A COMMUNICATIONS SYSTEM
10319117	12/13/2002	U.S.	METHOD AND SYSTEM FOR PROVIDING LOAD SENSITIVE THROTTLING
10353183	1/28/2003	U.S.	METHOD AND SYSTEM FOR INTEGRATING PERFORMANCE ENHANCING FUNCTIONS IN A VIRTUAL PRIVATE NETWORK (VPN)
10353231	1/28/2003	U.S.	METHOD AND SYSTEM FOR PROVIDING SECURITY IN A PERFORMANCE ENHANCED NETWORK
10353247	1/28/2003	U.S.	METHOD AND SYSTEM FOR ADAPTIVELY APPLYING PERFORMANCE ENHANCING FUNCTIONS

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10353245	1/28/2003	U.S.	METHOD AND SYSTEM FOR UTILIZING VIRTUAL PRIVATE NETWORK (VPN) CONNECTIONS IN A PERFORMANCE ENHANCED NETWORK
10353992	1/28/2003	U.S.	METHOD AND SYSTEM FOR COMMUNICATING OVER A SEGMENTED VIRTUAL PRIVATE NETWORK (VPN)
10371425	2/21/2003	U.S.	COMPENSATING FOR NON-LINEARITY IN AN OVERLAID COMMUNICATION SYSTEM
10382202	3/5/2003	U.S.	MULTI-RATE FREQUENCY DOMAIN INTERPOLATIVE SPEECH CODEC SYSTEM
10401088	3/27/2003	U.S.	METHOD AND APPARATUS FOR ESTABLISHING A CLEAR SKY REFERENCE VALUE
10430868	5/7/2003	U.S.	METHOD AND APPARATUS FOR ESTIMATING BEACON POWER VARIATIONS
10613876	7/3/2003	U.S.	METHOD AND SYSTEM FOR PROVIDING LOAD-SENSITIVE BANDWIDTH ALLOCATION
60490302	7/25/2003	U.S.	LAYER 2 SWITCHING IN A MULTIPLE SATELLITE SYSTEM
60490301	7/25/2003	U.S.	DYNAMIC BANDWIDTH AND RESOURCE ALLOCATION (DBRA) DESIGN
10637225	8/8/2003	U.S.	METHOD AND APPARATUS OF ESTIMATING NON-LINEAR AMPLIFIER RESPONSE IN AN OVERLAID COMMUNICATION SYSTEM
10639558	8/12/2003	U.S.	METHOD AND SYSTEM FOR PROVIDING DYNAMIC TIMING AND POWER VALIDATION IN A TWO-WAY SATELLITE NETWORK
10659481	9/10/2003	U.S.	SYSTEM AND METHOD FOR PRE-FETCHING CONTENT IN A PROXY ARCHITECTURE
10659486	9/10/2003	U.S.	METHOD AND SYSTEM FOR PROVIDING ENHANCED PERFORMANCE OF WEB BROWSING
10671808	9/26/2003	U.S.	GENERATING A LIST OF NETWORK ADDRESSES FOR PRE-LOADING A NETWORK ADDRESS CACHE VIA MULTICAST
60507819	10/1/2003	U.S.	LINK LAYER ARQ FOR MESH SATELLITE SYSTEMS WITH ON-BROAD ROUTING/SWITCHING
10584914	10/14/2003	U.S.	METHOD AND SYSTEM FOR MULTICAST IN A BROADBAND SATELLITE SYSTEM
10691302	10/22/2003	U.S.	APPARATUS AND METHOD FOR ACCESS TO NETWORK VIA SATELLITE
60516464	10/31/2003	U.S.	TURBOPOP SPECIFICATION

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10704412	11/7/2003	U.S.	SYSTEMS AND METHODS FOR SELECTING A TRANSMISSION RATE AND CODING SCHEME FOR USE IN A SATELLITE COMMUNICATIONS
10705164	11/7/2003	U.S.	SYSTEMS AND METHODS FOR TRANSMITTING INTERNET PROTOCOL DATA VIA SATELLITE
10705314	11/10/2003	U.S.	FALLBACK MODE INGRESS/EGRESS MECHANISM FOR SATELLITE COMMUNICATION SYSTEM
10715178	11/17/2003	U.S.	SYSTEM AND METHOD FOR ROUTING AMONG PRIVATE ADDRESSING DOMAINS
60523240	11/19/2003	U.S.	WEB ACCELERATION IN A BROADBAND SATELLITE SYSTEM FOR SECURE WEB PAGES
10750356	12/31/2003	U.S.	NETWORK SYSTEM WITH TCP/IP PROTOCOL SPOOFING
10752952	1/7/2004	U.S.	METHOD AND SYSTEM FOR PROVIDING COMMITTED INFORMATION RATE (CIR) BASED FAIR ACCESS POLICY
10754828	1/8/2004	U.S.	PROXY ARCHITECTURE FOR PROVIDING QUALITY OF SERVICE (QOS) RESERVATIONS
10783902	2/24/2004	U.S.	SYSTEM AND METHOD FOR PROVISIONING OF ROUTE INFORMATION IN A MESHED COMMUNICATIONS NETWORK
60555556	3/23/2004	U.S.	NARROWBAND PACKET DATA CHANNEL DESIGN FOR MOBILE SATELLITE SYSTEMS
60555592	3/23/2004	U.S.	SYSTEM AND METHOD FOR ARCHIVING ALTERNATE VOICE AND PACKET DATA OPERATION IN WIRELESS SYSTEMS
60555594	3/23/2004	U.S.	IMPROVED MAC LAYER DESIGN FOR MOBILE SATELLITE SYSTEMS
10821300	4/9/2004	U.S.	SYSTEMS AND METHODS FOR DISTRIBUTING DATA
10836672	4/30/2004	U.S.	STITCHING OF VIDEO FOR CONTINUOUS PRESENCE MULTIPOINT VIDEOCONFERENCING
10870637	6/17/2004	U.S.	SYSTEM AND METHOD FOR HIGH QUALITY VIDEOCONFERENCING WITH HETEROGENEOUS END-POINTS AND NETWORKS
10927844	8/27/2004	U.S.	METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING MULTIPLE SERVICES UTILIZING A SINGLE RECEIVER IN A BROADBAND SATELLITE SYSTEM
10930297	8/31/2004	U.S.	DIGITAL LINKS FOR MULTI-MEDIA NETWORK CONFERENCING
10933984	9/8/2004	U.S.	APPARATUS AND METHOD FOR HYBRID NETWORK ACCESS
10940211	9/14/2004	U.S.	EFFICIENT TDMA BANDWIDTH ALLOCATION FOR TCP/IP SATELLITE-BASED NETWORKS
10941593	9/13/2004	U.S.	EFFICIENT TDMA BANDWIDTH ALLOCATION FOR TCP/IP SATELLITE-BASED NETWORKS

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10963194	10/12/2004	U.S.	PRE-FETCHING SECURE CONTENT USING PROXY ARCHITECTURE
10967410	10/18/2004	U.S.	METHOD AND APPARATUS FOR ANTENNA SATELLITE POINTING
11086001	3/22/2005	U.S.	METHOD AND APPARATUS FOR PROVIDING QUALITY OF SERVICE GUARANTEES USING STATEFUL MONITORING OF NETWORK LOAD
11085994	3/22/2005	U.S.	METHOD AND APPARATUS FOR ASSESSING TRAFFIC LOAD OF A COMMUNICATION NETWORK
11087054	3/22/2005	U.S.	METHOD AND APPARATUS FOR SECURE ACCESS TO DEDICATED NETWORK RESOURCES
11085975	3/22/2005	U.S.	METHOD AND APPARATUS FOR ADJUSTING SERVICE RATE TO ADAPT TO CHANNEL CONDITIONS
11085954	3/22/2005	U.S.	METHOD AND SYSTEM FOR LOAD BALANCING OVER A SET OF COMMUNICATION CHANNELS
11085972	3/22/2005	U.S.	METHOD AND APPARATUS FOR PROVIDING OPEN LOOP BANDWIDTH ALLOCATION