

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5462827

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENTS

**CONVEYING PARTY DATA**

Name	Execution Date
BANK OF AMERICA, N.A., AS ADMINISTRATIVE AGENT	04/04/2019

**RECEIVING PARTY DATA**

<b>Name:</b>	ARRIS GROUP, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	ARRIS ENTERPRISES, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	ARRIS SOLUTIONS, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	ARRIS KOREA, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	ARRIS HOLDINGS CORP. OF ILLINOIS, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM

**PATENT**

<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	BIG BAND NETWORKS, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	TEXSCAN CORPORATION
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	POWER GUARD, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	4HOME, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	ACADIA AIC, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	AEROCAST, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	BROADBUS TECHNOLOGIES, INC.

**PATENT**

**REEL: 048825 FRAME: 0295**

<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	GENERAL INSTRUMENT CORPORATION
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	GENERAL INSTRUMENT AUTHORIZATION SERVICES, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	GENERAL INSTRUMENT INTERNATIONAL HOLDINGS, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	IMEDIA CORPORATION
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	JERROLD DC RADIO, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	LEAPSTONE SYSTEMS, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM

**PATENT**

**REEL: 048825 FRAME: 0296**

<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	MODULUS VIDEO, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	MOTOROLA WIRELINE NETWORKS, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	NETOPIA, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	NEXTLEVEL SYSTEMS (PUERTO RICO), INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	QUANTUM BRIDGE COMMUNICATIONS, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	SETJAM, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	SUNUP DESIGN SYSTEMS, INC.

**PATENT**

**REEL: 048825 FRAME: 0297**



<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	UCENTRIC SYSTEMS, INC.
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	GIC INTERNATIONAL HOLDCO LLC
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	GIC INTERNATIONAL CAPITAL LLC
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	CCE SOFTWARE LLC
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044
<b>Name:</b>	THE GI REALTY TRUST 1996
<b>Street Address:</b>	101 TOURNAMENT DRIVE
<b>Internal Address:</b>	ATTN LEGAL DOCKETING
<b>City:</b>	HORSHAM
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	19044

**PROPERTY NUMBERS Total: 1355**

Property Type	Number
Patent Number:	5113523

<b>Property Type</b>	<b>Number</b>
Patent Number:	4729095
Patent Number:	4863393
Patent Number:	4863398
Patent Number:	5068630
Patent Number:	5092663
Patent Number:	5158155
Patent Number:	5150087
Patent Number:	5096444
Patent Number:	5421030
Patent Number:	5237295
Patent Number:	5179334
Patent Number:	5281933
Patent Number:	5189256
Patent Number:	5341415
Patent Number:	5425027
Patent Number:	5614813
Patent Number:	5594490
Patent Number:	5499046
Patent Number:	5424770
Patent Number:	5623595
Patent Number:	5642351
Patent Number:	5544164
Patent Number:	6033101
Patent Number:	5745276
Patent Number:	5826085
Patent Number:	5659539
Patent Number:	5734762
Patent Number:	5822018
Patent Number:	5841468
Patent Number:	6055278
Patent Number:	6055577
Patent Number:	5832078
Patent Number:	5655117
Patent Number:	6028860
Patent Number:	5909063
Patent Number:	5907422
Patent Number:	5844327
Patent Number:	6070172

Property Type	Number
Patent Number:	5805804
Patent Number:	5926479
Patent Number:	6009473
Patent Number:	5864682
Patent Number:	5909154
Patent Number:	6081533
Patent Number:	6307933
Patent Number:	6112226
Patent Number:	6138147
Patent Number:	6119154
Patent Number:	5878220
Patent Number:	6477197
Patent Number:	6230326
Patent Number:	5995393
Patent Number:	7058721
Patent Number:	6075972
Patent Number:	6484317
Patent Number:	6526471
Patent Number:	6304356
Patent Number:	5973489
Patent Number:	6836898
Patent Number:	6473858
Patent Number:	6526580
Patent Number:	6445474
Patent Number:	6574389
Patent Number:	6578070
Patent Number:	7573529
Patent Number:	6917614
Patent Number:	6356143
Patent Number:	6879634
Patent Number:	6826195
Patent Number:	6788169
Patent Number:	7155734
Patent Number:	7237251
Patent Number:	6571048
Patent Number:	7051111
Patent Number:	6868058
Patent Number:	6611526

<b>Property Type</b>	<b>Number</b>
Patent Number:	6853680
Patent Number:	6560678
Patent Number:	6434141
Patent Number:	6486644
Patent Number:	6757910
Patent Number:	7095746
Patent Number:	7451475
Patent Number:	7239607
Patent Number:	7061861
Patent Number:	6892391
Patent Number:	7512698
Patent Number:	6449249
Patent Number:	6662368
Patent Number:	6769132
Patent Number:	6633877
Patent Number:	6587012
Patent Number:	7047553
Patent Number:	6493200
Patent Number:	6489986
Patent Number:	6529233
Patent Number:	6909726
Patent Number:	6397388
Patent Number:	6944880
Patent Number:	7036138
Patent Number:	6732325
Patent Number:	7245817
Patent Number:	7200859
Patent Number:	7194754
Patent Number:	7313802
Patent Number:	7103905
Patent Number:	6813643
Patent Number:	8418214
Patent Number:	6630963
Patent Number:	6710815
Patent Number:	6842837
Patent Number:	6498754
Patent Number:	7340761
Patent Number:	7236204

<b>Property Type</b>	<b>Number</b>
Patent Number:	6636482
Patent Number:	6619864
Patent Number:	7068716
Patent Number:	7203952
Patent Number:	7162728
Patent Number:	7660328
Patent Number:	7103908
Patent Number:	6580319
Patent Number:	7187697
Patent Number:	6999477
Patent Number:	7076202
Patent Number:	7320134
Patent Number:	6559866
Patent Number:	6762773
Patent Number:	7302696
Patent Number:	6937619
Patent Number:	7058087
Patent Number:	7116717
Patent Number:	7386129
Patent Number:	7093277
Patent Number:	7434246
Patent Number:	7046805
Patent Number:	7146632
Patent Number:	6559894
Patent Number:	7266832
Patent Number:	6457978
Patent Number:	6941575
Patent Number:	7003795
Patent Number:	7433598
Patent Number:	7002914
Patent Number:	7155067
Patent Number:	7181759
Patent Number:	6914936
Patent Number:	6813270
Patent Number:	7428023
Patent Number:	7006613
Patent Number:	7272657
Patent Number:	7017174

<b>Property Type</b>	<b>Number</b>
Patent Number:	7071968
Patent Number:	6993257
Patent Number:	7463737
Patent Number:	7036140
Patent Number:	7142230
Patent Number:	6873195
Patent Number:	7031301
Patent Number:	7120142
Patent Number:	7113502
Patent Number:	7167531
Patent Number:	7251294
Patent Number:	7382838
Patent Number:	7161994
Patent Number:	7073118
Patent Number:	7131054
Patent Number:	7069284
Patent Number:	7165264
Patent Number:	6944372
Patent Number:	7111320
Patent Number:	8375407
Patent Number:	6798457
Patent Number:	6943843
Patent Number:	7035355
Patent Number:	6938198
Patent Number:	6865555
Patent Number:	7161887
Patent Number:	6915528
Patent Number:	6754085
Patent Number:	6632008
Patent Number:	7208992
Patent Number:	7320137
Patent Number:	6674804
Patent Number:	6738536
Patent Number:	6959153
Patent Number:	7184433
Patent Number:	7360232
Patent Number:	7032177
Patent Number:	7243123

<b>Property Type</b>	<b>Number</b>
Patent Number:	7036090
Patent Number:	7036091
Patent Number:	7031259
Patent Number:	6947998
Patent Number:	7155675
Patent Number:	7058816
Patent Number:	7594246
Patent Number:	7197715
Patent Number:	7055104
Patent Number:	7735102
Patent Number:	6687432
Patent Number:	7159176
Patent Number:	7159177
Patent Number:	7107531
Patent Number:	7107532
Patent Number:	6801014
Patent Number:	7197234
Patent Number:	7116894
Patent Number:	6879641
Patent Number:	6859044
Patent Number:	7272144
Patent Number:	6861952
Patent Number:	6972787
Patent Number:	7237252
Patent Number:	7034927
Patent Number:	6727935
Patent Number:	7266835
Patent Number:	7787439
Patent Number:	6724791
Patent Number:	7277450
Patent Number:	7535888
Patent Number:	7533403
Patent Number:	7310355
Patent Number:	6749498
Patent Number:	7080394
Patent Number:	6882514
Patent Number:	7650569
Patent Number:	7218610

<b>Property Type</b>	<b>Number</b>
Patent Number:	8151293
Patent Number:	7350157
Patent Number:	7380260
Patent Number:	8141117
Patent Number:	7774815
Patent Number:	8245257
Patent Number:	7739718
Patent Number:	7688803
Patent Number:	7263362
Patent Number:	7127182
Patent Number:	7024185
Patent Number:	6856185
Patent Number:	6907158
Patent Number:	6996836
Patent Number:	7196840
Patent Number:	7480378
Patent Number:	8099680
Patent Number:	7757253
Patent Number:	7921440
Patent Number:	7251255
Patent Number:	8032016
Patent Number:	6907159
Patent Number:	7100011
Patent Number:	6975713
Patent Number:	6975717
Patent Number:	6980638
Patent Number:	7391808
Patent Number:	7218915
Patent Number:	7471639
Patent Number:	7233660
Patent Number:	7031435
Patent Number:	8104065
Patent Number:	8146123
Patent Number:	7936818
Patent Number:	7397822
Patent Number:	7460523
Patent Number:	7280479
Patent Number:	7764863



<b>Property Type</b>	<b>Number</b>
Patent Number:	8036250
Patent Number:	8185926
Patent Number:	8000475
Patent Number:	7031463
Patent Number:	7721317
Patent Number:	7480237
Patent Number:	7267568
Patent Number:	7200718
Patent Number:	7792023
Patent Number:	7474150
Patent Number:	8245269
Patent Number:	7504176
Patent Number:	8121112
Patent Number:	7653932
Patent Number:	7480241
Patent Number:	7403374
Patent Number:	7606870
Patent Number:	7366239
Patent Number:	7860122
Patent Number:	8068516
Patent Number:	7403562
Patent Number:	8108896
Patent Number:	7151782
Patent Number:	7885182
Patent Number:	7974303
Patent Number:	7653090
Patent Number:	7676720
Patent Number:	7773855
Patent Number:	7395321
Patent Number:	7653740
Patent Number:	7403547
Patent Number:	7843894
Patent Number:	8249114
Patent Number:	7672438
Patent Number:	7206399
Patent Number:	7643553
Patent Number:	7665116
Patent Number:	8081657

Property Type	Number
Patent Number:	7278002
Patent Number:	8107526
Patent Number:	8238441
Patent Number:	7804824
Patent Number:	7809264
Patent Number:	7701956
Patent Number:	7751449
Patent Number:	8266424
Patent Number:	7593495
Patent Number:	7574345
Patent Number:	7546622
Patent Number:	7440523
Patent Number:	7593041
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Patent Number:	8117638
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Patent Number:	7990951
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Patent Number:	7817672
Patent Number:	7702877
Patent Number:	7466640
Patent Number:	8218651
Patent Number:	8312488
Patent Number:	8085804
Patent Number:	8184687
Patent Number:	8175175
Patent Number:	8401152
Patent Number:	7744321
Patent Number:	7346738
Patent Number:	7957600
Patent Number:	7930551
Patent Number:	7916744
Patent Number:	8149859

<b>Property Type</b>	<b>Number</b>
Patent Number:	7971215
Patent Number:	8332911
Patent Number:	7992168
Patent Number:	8161516
Patent Number:	8073951
Patent Number:	7698461
Patent Number:	8155002
Patent Number:	7953144
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Patent Number:	8171166
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Patent Number:	8032650
Patent Number:	7970999
Patent Number:	8023274
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Patent Number:	7873077
Patent Number:	8204221
Patent Number:	8259457
Patent Number:	8386630
Patent Number:	8305928
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Patent Number:	8355450
Patent Number:	8136141
Patent Number:	8379660
Patent Number:	8301776
Patent Number:	7986702
Patent Number:	8291103
Patent Number:	7752564
Patent Number:	8127179
Patent Number:	8238431
Patent Number:	7999631
Patent Number:	8145066

<b>Property Type</b>	<b>Number</b>
Patent Number:	7948416
Patent Number:	8145068
Patent Number:	8237767
Patent Number:	8386643
Patent Number:	8260138
Patent Number:	8300640
Patent Number:	8281333
Patent Number:	8005095
Patent Number:	8225353
Patent Number:	8331442
Patent Number:	8306058
Patent Number:	7954125
Patent Number:	8396065
Patent Number:	8387105
Patent Number:	8218438
Patent Number:	7958260
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Patent Number:	8242829
Patent Number:	8250603
Patent Number:	8244251
Patent Number:	8385400
Patent Number:	8300156
Patent Number:	8418216
Patent Number:	D464643
Patent Number:	D464043
Patent Number:	D464956
Patent Number:	D465215
Patent Number:	D462339
Application Number:	11608701
Application Number:	12901904
Patent Number:	D462340
Patent Number:	D463444
Patent Number:	D469104
Patent Number:	D450058
Patent Number:	D453768
Patent Number:	D486834
Patent Number:	D453936
Patent Number:	D450324

<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	D490086
<b>Patent Number:</b>	D450711
<b>Patent Number:</b>	D453767
<b>Patent Number:</b>	D478595
<b>Patent Number:</b>	D468274
<b>Patent Number:</b>	D462333
<b>Patent Number:</b>	D480733
<b>Patent Number:</b>	D476994
<b>Patent Number:</b>	D465227
<b>Patent Number:</b>	D469105
<b>Patent Number:</b>	D474197
<b>Patent Number:</b>	D475718
<b>Patent Number:</b>	D478912
<b>Patent Number:</b>	D470152
<b>Patent Number:</b>	D470153
<b>Patent Number:</b>	D469443
<b>Patent Number:</b>	D478090
<b>Patent Number:</b>	D496665
<b>Patent Number:</b>	D494186
<b>Patent Number:</b>	D493165
<b>Patent Number:</b>	D489678
<b>Patent Number:</b>	D512371
<b>Patent Number:</b>	D510721
<b>Patent Number:</b>	8412942
<b>Patent Number:</b>	8271575
<b>Patent Number:</b>	8166499
<b>Patent Number:</b>	7289007
<b>Patent Number:</b>	D508898
<b>Patent Number:</b>	D514096
<b>Patent Number:</b>	D509824
<b>Patent Number:</b>	D518035
<b>Patent Number:</b>	6980357
<b>Patent Number:</b>	7119948
<b>Patent Number:</b>	7911946
<b>Patent Number:</b>	D521991
<b>Patent Number:</b>	5907552
<b>Patent Number:</b>	5982972
<b>Patent Number:</b>	6487262

<b>Property Type</b>	<b>Number</b>
Patent Number:	D404018
Patent Number:	D414496
Patent Number:	D409582
Patent Number:	D414497
Patent Number:	D418515
Patent Number:	6385253
Patent Number:	6154020
Patent Number:	6700927
Patent Number:	7109831
Patent Number:	D509490
Patent Number:	D512995
Patent Number:	7877064
Patent Number:	7274409
Patent Number:	7512182
Patent Number:	8160161
Patent Number:	D532414
Patent Number:	D520500
Patent Number:	D511510
Patent Number:	D513411
Patent Number:	D529476
Patent Number:	D514081
Patent Number:	D515529
Patent Number:	D514544
Patent Number:	D535970
Patent Number:	7236504
Patent Number:	7227477
Patent Number:	7400866
Patent Number:	D524280
Patent Number:	D530302
Patent Number:	D525233
Patent Number:	D524282
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Application Number:	11690217
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Application Number:	13667604
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<b>Property Type</b>	<b>Number</b>
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<b>Property Type</b>	<b>Number</b>
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Application Number:	13188107

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Patent Number:	6232836
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Patent Number:	6570430
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Patent Number:	6239668
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Patent Number:	7082135
Patent Number:	6647252
Patent Number:	D470484



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Application Number:	13493583
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<b>Application Number:</b>	13419597
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<b>Application Number:</b>	61702203
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<b>Application Number:</b>	61719928
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Patent Number:	6944362
Patent Number:	7024110
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<b>Property Type</b>	<b>Number</b>
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<b>Application Number:</b>	13525777
<b>Application Number:</b>	13528439
<b>Application Number:</b>	13534040
<b>Application Number:</b>	13547179
<b>Application Number:</b>	13550712
<b>Application Number:</b>	13550894
<b>Application Number:</b>	13555038
<b>Application Number:</b>	13558650
<b>Application Number:</b>	13558943
<b>Application Number:</b>	13566438
<b>Application Number:</b>	13566666
<b>Application Number:</b>	61681959
<b>Application Number:</b>	13585527
<b>Application Number:</b>	13589448
<b>Application Number:</b>	13591015
<b>Application Number:</b>	13591052
<b>Application Number:</b>	61691878
<b>Application Number:</b>	13606387
<b>Application Number:</b>	13609319
<b>Application Number:</b>	13614952
<b>Application Number:</b>	13616118
<b>Application Number:</b>	13631404
<b>Application Number:</b>	61707903
<b>Application Number:</b>	13632719
<b>Application Number:</b>	13645966
<b>Application Number:</b>	13646194
<b>Application Number:</b>	13646899
<b>Application Number:</b>	13650209
<b>Application Number:</b>	61714025
<b>Patent Number:</b>	6553062
<b>Patent Number:</b>	6381213
<b>Patent Number:</b>	6457175
<b>Patent Number:</b>	6289015
<b>Patent Number:</b>	5982741

<b>Property Type</b>	<b>Number</b>
Patent Number:	6073172
Patent Number:	6230194
Patent Number:	5379005
Patent Number:	5467061
Patent Number:	5450594
Patent Number:	5696790
Patent Number:	6246718
Patent Number:	6879645
Patent Number:	6735217
Patent Number:	6879644
Patent Number:	6292517
Patent Number:	6771774
Application Number:	13653050
Application Number:	13664154
Application Number:	13669050
Application Number:	13668928
Application Number:	13669608
Application Number:	61727947
Application Number:	13683168
Application Number:	13709848
Application Number:	13710526
Application Number:	13727162
Application Number:	13728550
Application Number:	13763601
Application Number:	13770024
Application Number:	13770380
Application Number:	13772486
Application Number:	13777689
Application Number:	13788508
Application Number:	13798055
Application Number:	13804745
Application Number:	13832756
Application Number:	13833450
Application Number:	13843104
Application Number:	13850495
Application Number:	13854902
Application Number:	13854906
Application Number:	13854908

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	61772242
<b>Application Number:</b>	61774011
<b>Application Number:</b>	61774061
<b>Application Number:</b>	61774397
<b>Application Number:</b>	61775150
<b>Application Number:</b>	61779752
<b>Application Number:</b>	61781223
<b>Application Number:</b>	61783633
<b>Application Number:</b>	61783899
<b>Application Number:</b>	61790171
<b>Application Number:</b>	61800689
<b>Application Number:</b>	13662600
<b>Application Number:</b>	13827668
<b>Application Number:</b>	13793650
<b>Application Number:</b>	13794735
<b>Application Number:</b>	13802185
<b>Application Number:</b>	13798391
<b>Application Number:</b>	13831096
<b>Application Number:</b>	13798367
<b>Application Number:</b>	29448217
<b>Application Number:</b>	13741616
<b>Application Number:</b>	13798337
<b>Application Number:</b>	61590805
<b>Application Number:</b>	61730953
<b>Application Number:</b>	61794814
<b>Application Number:</b>	13830898
<b>Application Number:</b>	13777090
<b>Application Number:</b>	13762942
<b>Application Number:</b>	13794763
<b>Application Number:</b>	13802073
<b>Application Number:</b>	13841192
<b>Application Number:</b>	13754101
<b>Application Number:</b>	13830616
<b>Application Number:</b>	13794753
<b>Application Number:</b>	13837679
<b>Application Number:</b>	13760302
<b>Application Number:</b>	61802381
<b>Application Number:</b>	61794638

Property Type	Number
Application Number:	13832191
Application Number:	13787771
Application Number:	13830504
Application Number:	13841569
Application Number:	13723157
Application Number:	13844373
Application Number:	13844523
Application Number:	13844716
Application Number:	13844727
Application Number:	13774489
Application Number:	13842110
Application Number:	13832262
Application Number:	29448521
Application Number:	61800954
Application Number:	13830558
Application Number:	13540792
Application Number:	13540754
Application Number:	13540776
Application Number:	13397704
Application Number:	90008536
Application Number:	90005186
Application Number:	90005185
PCT Number:	US2012025590
Patent Number:	D537806

**CORRESPONDENCE DATA**

**Fax Number:** (704)331-1159

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**ATTORNEY DOCKET NUMBER:** 327000.027689

**NAME OF SUBMITTER:** JOHN SLAUGHTER

**SIGNATURE:** /john slaughter/

**DATE SIGNED:** 04/08/2019









**TERMINATION AND RELEASE OF SECURITY INTEREST  
IN PATENTS**

This **TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENTS**, dated as of April 4, 2019 (“Release”), is made by Bank of America, N.A., as Administrative Agent (“Administrative Agent”) in favor of the grantors listed on Exhibit A hereto (each a “Grantor”, and collectively, the “Grantors”).

**WHEREAS**, pursuant to that certain Guarantee and Collateral Agreement, dated as of April 17, 2013 (as amended, supplemented or otherwise modified from time to time, the “Collateral Agreement”) and Grant of Security Interest in Patent Rights dated as of April 17, 2013 (“Patent Grant”), each by and among the Grantors and Administrative Agent, each Grantor granted to the Administrative Agent, for the ratable benefit of the Secured Parties, a security interest in such Grantor’s Patents; and

**WHEREAS**, the Patent Grant was recorded at the United States Patent and Trademark Office (“USPTO”) on May 28, 2013 at Reel 030498 Frame 0023.

**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Administrative Agent, on behalf of the Secured Parties, and Grantor agree as follows:

**SECTION 1. Defined Terms.** All capitalized terms used herein but not otherwise defined herein have the meanings given to them in the Collateral Agreement or Patent Grant, as applicable.

**SECTION 2. Termination and Release.** Administrative Agent, on behalf of the Secured Parties, without representation, warranty, or recourse, hereby:

(a) terminates, cancels, discharges, and releases the security interest in each Grantor’s Patents, including, but not limited to, the foregoing listed on Schedule A attached hereto, granted pursuant to the Collateral Agreement or Patent Grant; and

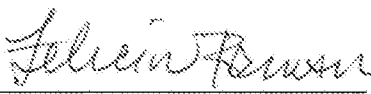
(b) authorizes the recordation of this Release with the USPTO at Grantor’s expense.

**SECTION 3. Choice of Law.** This Release shall be governed by and construed in accordance with the laws of the State of New York.

IN WITNESS WHEREOF, the Administrative Agent, on behalf of the Secured Parties, has caused this Termination and Release of Security Interest in Patents to be duly executed as of the date first set forth above.

Administrative Agent:

Bank of America, N.A., as Administrative Agent

By: 

Name:

Title:

**Felicia Brinson**  
**Assistant Vice President**

**Exhibit A**

**Grantors**

ARRIS GROUP, INC., a Delaware corporation

ARRIS ENTERPRISES, INC., a Delaware corporation

ARRIS SOLUTIONS, INC., a Delaware corporation

ARRIS KOREA, INC., a Delaware corporation

ARRIS HOLDINGS CORP. OF ILLINOIS, INC., an Illinois corporation

BIG BAND NETWORKS, INC., a Delaware corporation

TEXSCAN CORPORATION, a Nevada corporation

POWER GUARD, INC., an Illinois corporation

4HOME, INC., a Delaware corporation

ACADIA AIC, INC., a Delaware corporation

AEROCAST, INC., a Delaware corporation

BROADBUS TECHNOLOGIES, INC., a Delaware corporation

GENERAL INSTRUMENT CORPORATION, a Delaware corporation

GENERAL INSTRUMENT AUTHORIZATION SERVICES, INC., a Delaware corporation

GENERAL INSTRUMENT INTERNATIONAL HOLDINGS, INC., a Delaware corporation

IMEDIA CORPORATION, a California corporation

JERROLD DC RADIO, INC., a Delaware corporation

LEAPSTONE SYSTEMS, INC., a Delaware corporation

MODULUS VIDEO, INC., a Delaware corporation

MOTOROLA WIRELINE NETWORKS, INC., a Delaware corporation

NETOPIA, INC., a Delaware corporation

NEXTLEVEL SYSTEMS (PUERTO RICO), INC., a Delaware corporation

QUANTUM BRIDGE COMMUNICATIONS, INC., a Delaware corporation

SETJAM, INC., a Delaware corporation

SUNUP DESIGN SYSTEMS, INC., a Delaware corporation

UCENTRIC SYSTEMS, INC., a Delaware corporation

GIC INTERNATIONAL HOLDCO LLC, Delaware limited liability company

GIC INTERNATIONAL CAPITAL LLC, Delaware limited liability company

CCE SOFTWARE LLC, Delaware limited liability company

THE GI REALTY TRUST 1996, a Delaware statutory trust

**Schedule A**

**To Be Attached**

**Schedule A**

**PATENTS**

<b>Registered Owner</b>	<b>Patent #</b>	<b>Issue/Grant Date</b>	<b>Application #</b>	<b>Filing Date</b>	<b>Title</b>	<b>Jurisdiction</b>	<b>Status</b>
ARRIS Solutions, Inc.	5,113,523	05/12/1992	06/731,170	05/06/1985	HIGH PERFORMANCE COMPUTER SYSTEM	US	Granted
ARRIS Solutions, Inc.	4,729,095	03/01/1988	06/864,596	05/19/1986	BROADCAST INSTRUCTION FOR USE IN A HIGH PERFORMANCE COMPUTER SYSTEM	US	Granted
ARRIS Solutions, Inc.	4,863,393	09/05/1989	07/198,227	05/25/1988	MODULAR JACK ASSEMBLY WITH IMPROVED BRIDGING ARRANGEMENT	US	Granted
ARRIS Solutions, Inc.	4,863,398	09/05/1989	07/303,903	01/30/1989	UNIVERSAL ADAPTER FOR OFFICE WALL PANELS	US	Granted
ARRIS Solutions, Inc.	5,068,630	11/26/1991	07/450,759	02/14/1989	MULTIPLE COUPLER DEVICE WITH RETURN PATH	US	Granted
Arris Enterprises, Inc.	5,092,663	03/03/1992	07/526,875	05/21/1990	APPARATUS AND METHOD FOR MAINTAINING SLACK OF FIBER OPTIC CABLE OR THE LIKE	US	Granted
Arris Enterprises, Inc.	5,158,155	10/27/1992	07/595,553	10/11/1990	VENDORS' STRUCTURAL COMPLEX	US	Granted
Arris Enterprises, Inc.	5,150,087	09/22/1992	07/619,942	11/29/1990	Electrical Signal Filter and Method for Manufacture of Electrical Signal Filter Internal Circuit Board	US	Granted
Arris Enterprises, Inc.	5,096,444	03/17/1992	07/637,162	01/03/1991	Flat F-Port Connector	US	Granted
Arris Enterprises, Inc.	5,421,030	05/30/1995	07/761,281	09/17/1991	COMMUNICATIONS SYSTEM AND METHOD FOR BI-DIRECTIONAL COMMUNICATIONS BETWEEN AN UPSTREAM CONTROL FACILITY AND DOWNSTREAM USER TERMINALS	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	5,237,295	08/17/1993	07/779,938	10/21/1991	Printed Networks for Improving Electrical Isolation at High Frequencies	US	Granted
Arris Enterprises, Inc.	5,179,334	01/12/1993	07/780,734	10/18/1991	Power Passing Inductor Capable of Operation at Frequencies Higher Than 900 MHZ	US	Granted
ARRIS Solutions, Inc.	5,281,933	01/25/1994	07/784,285	10/29/1991	LINE POWER TAPPING DEVICE FOR CABLE TV DISTRIBUTION SYSTEM HAVING A MOVEABLE MODULE	US	Granted
ARRIS Solutions, Inc.	5,189,256	02/23/1993	07/793,205	01/30/1989	APPARATUS FOR COILING AND STORING CONDUCTORS IN A CIRCULAR SHAPE	US	Granted
Arris Enterprises, Inc.	5,341,415	08/23/1994	07/949,424	09/22/1992	Method and apparatus for sharing of common in-house wiring to permit multiple telephone carriers to serve the same customer	US	Granted
Arris Enterprises, Inc.	5,425,027	06/13/1995	08/000,373	01/04/1993	WIDE AREA FIBER AND TV CABLE FAST PACKET CELL NETWORK	US	Granted
Arris Enterprises, Inc.	5,614,813	03/25/1997	08/229,895	04/18/1994	Unity Trapezoidal Wave RMS Regulator	US	Granted
ARRIS Solutions, Inc.	5,594,490	01/14/1997	08/247,834	05/23/1994	SYSTEM FOR DISTRIBUTING VIDEO/AUDIO FILES FROM CENTRAL LOCATION TO A PLURALITY OF CABLE HEADENDS	US	Granted
ARRIS Solutions, Inc.	5,499,046	03/12/1996	08/247,967	05/23/1994	CATV DISTRIBUTION SYSTEM WITH EACH CHANNEL HAVING ITS OWN REMOTE SCHEDULER	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
ARRIS Solutions, Inc.	5,424,770	06/13/1995	08/305,312	09/15/1994	METHOD AND APPARATUS FOR AUTOMATIC INSERTION OF A TELEVISION SIGNAL FROM A REMOTE SOURCE	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	5,623,595	04/22/1997	08/312,509	09/26/1994	A METHOD AND APPARATUS FOR TRANSPARENT, REAL TIME RECONSTRUCTION OF CORRUPTED DATA IN A REDUNDANT ARRAY DATA STORAGE SYSTEM	US	Granted
Arris Enterprises, Inc.	5,642,351	06/24/1997	08/328,583	10/17/1994	WIDE AREA FIBER AND TV CABLE FAST PACKET CELL NETWORK	US	Granted
Arris Enterprises, Inc.	5,544,164	08/06/1996	08/336,325	11/08/1994	METHOD AND CELL BASED WIDE AREA NETWORK ALTERNATIVE ACCESS TELEPHONE AND DATA SYSTEM	US	Granted
Arris Enterprises, Inc.	6,033,101	03/07/2000	08/350,801	12/07/1994	CABLE TELEVISION RADIO FREQUENCY AND AC POWER MULTITAP	US	Granted
Arris Enterprises, Inc.	5,745,276	04/28/1998	08/430,893	04/27/1995	UNIVERSAL OPTICAL SIGNAL RECEIVER	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	5826085	10/20/1998	08/501,272	07/12/1995	OBJECT ORIENTED COMPUTER INTERFACE SUPPORTING INTERACTIVE NETWORKED APPLICATIONS	US	Granted
Alcatel USA Sourcing, Inc. and ARRIS Solutions, Inc.	5659539	08/19/1997	08/502,480	07/14/1995	METHOD AND APPARATUS FOR FRAME ACCURATE ACCESS OF DIGITAL AUDIO-VISUAL INFORMATION	US	Granted



Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	5,734,762	03/31/1998	08/529,170	09/15/1995	OPTICAL ISOLATOR SYSTEM AND METHOD	US	Granted
Arris Enterprises, Inc.	5,822,018	10/13/1998	08/626,733	04/02/1996	METHOD AND APPARATUS FOR NORMALIZING SIGNAL LEVELS IN A SIGNAL PROCESSING SYSTEM	US	Granted
ARRIS Solutions, Inc.	5,841,468	11/24/1998	08/638,280	04/26/1996	SYSTEM AND METHOD FOR ROUTING DATA MESSAGES THROUGH A CABLE TRANSMISSION SYSTEM	US	Granted
Arris Enterprises, Inc.	6,055,278	04/25/2000	08/638,551	04/26/1996	LINEARIZATION CIRCUITS AND METHODS	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	6,055,577	04/25/2000	08/646,685	05/06/1996	SYSTEM FOR GRANTING BANDWIDTH FOR REAL TIME PROCESSES AND ASSIGNING BANDWIDTH FOR NON-REAL TIME PROCESSES WHILE BEING FORCED TO PERIODICALLY RE-ARBITRATE FOR NEW ASSIGNED BANDWIDTH	US	Granted
Arris Enterprises, Inc.	5,832,078	11/03/1998	08/695,311	08/09/1996	MULTIPLE JACK AND ENCLOSURE APPARATUS COMBINATION	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	5655117	08/05/1997	08/719,308	09/24/1996	METHOD AND APPARATUS FOR INDEXING MULTIMEDIA INFORMATION STREAMS	US	Granted
Arris Enterprises, Inc.	6,028,860	02/22/2000	08/731,958	10/23/1996	PRIORITIZED VIRTUAL CONNECTION TRANSMISSIONS IN A PACKET TO ATM CELL CABLE NETWORK	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
ARRIS Solutions, Inc.	5,909,063	06/01/1999	08/774,766	12/30/1996	Switchable or automatically terminating connecting device and combination thereof	US	Granted
Arris Enterprises, Inc.	5,907,422	05/25/1999	08/779,204	01/06/1997	UNIVERSAL OPTICAL SIGNAL RECEIVER	US	Granted
Arris Enterprises, Inc.	5,844,327	12/01/1998	08/802,026	02/18/1997	APPARATUS AND METHOD FOR OPTIMIZING POWER DISTRIBUTED IN A BROADBAND SIGNAL SYSTEM	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	6,070,172	05/30/2000	08/813,811	03/06/1997	ON-LINE FREE SPACE DEFRAGMENTATION OF A CONTIGUOUS-FILE FILE SYSTEM	US	Granted
Arris Enterprises, Inc.	5,805,804	09/08/1998	08/816,207	03/12/1997	METHOD AND APPARATUS FOR SCALABLE, HIGH BANDWIDTH STORAGE RETRIEVAL AND TRANSPORTATION OF MULTIMEDIA DATA ON A NETWORK	US	Granted
Arris Enterprises, Inc.	5,926,479	07/20/1999	08/843,111	04/24/1997	MULTIPLE PROTOCOL PERSONAL COMMUNICATIONS NETWORK SYSTEM	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	6,009,473	12/28/1999	08/846,715	04/30/1997	USING CALLBACKS TO EFFECTIVELY MANAGE RESOURCES	US	Granted
Alcatel USA Sourcing, Inc. and ARRIS Solutions, Inc.	5,864,682	01/26/1999	08/859,860	05/21/1997	METHOD AND APPARATUS FOR FRAME ACCURATE ACCESS OF DIGITAL AUDIOVISUAL INFORMATION	US	Granted
Arris Enterprises, Inc.	5,909,154	06/01/1999	08/867,036	06/02/1997	BROADBAND SIGNAL TAP WITH CONTINUITY BRIDGE	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	6,081,533	06/27/2000	08/881,942	06/25/1997	METHOD AND APPARATUS FOR AN APPLICATION INTERFACE MODULE IN A SUBSCRIBER TERMINAL UNIT	US	Granted
Arris Enterprises, Inc.	6,307,933	10/23/2001	08/934,961	09/22/1997	APPARATUS FOR PROVIDING A PLURALITY OF PROVIDERS OF SUBSCRIBER SERVICE SIGNALS WITH EASY ACCESS TO AT LEAST ONE SUBSCRIBER PREMISES LINE	US	Granted
Alcatel USA Sourcing, Inc. and ARRIS Solutions, Inc.	6,112,226	08/29/2000	08/956,261	10/22/1997	METHOD AND APPARATUS FOR CONCURRENTLY ENCODING AND TAGGING DIGITAL INFORMATION FOR ALLOWING NON-SEQUENTIAL ACCESS DURING PLAYBACK	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	6,138,147	10/24/2000	08/956,262	10/22/1997	METHOD AND APPARATUS FOR IMPLEMENTING SEAMLESS PLAYBACK OF CONTINUOUS MEDIA FEEDS	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	6,119,154	09/12/2000	08/956,263	10/22/1997	METHOD AND APPARATUS FOR NON-SEQUENTIAL ACCESS TO AN IN-PROGRESS VIDEO FEED	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	5,878,220	03/02/1999	08/964,422	11/04/1997	METHOD AND APPARATUS FOR STORING AND TRANSFERRING DATA ON A NETWORK	US	Granted
Arris Enterprises, Inc.	6,477,197	11/05/2002	09/109,258	06/30/1998	METHOD AND APPARATUS FOR A CABLE MODEM UPSTREAM RF SWITCHING SYSTEM	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	6,230,326	05/08/2001	09/126,557	07/30/1998	Method and Apparatus for Initialization of a Cable Modem	US	Granted
ARRIS Solutions, Inc.	5,995,393	11/30/1999	09/127,002	07/31/1998	LATCHING SHUTDOWN AND DELAYED RESTART OF DC POWER SUPPLY IN BROADBAND NETWORK	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	7058721 B1	06/06/2006	09/128,244	08/03/1998	DYNAMIC QUALITY ADJUSTMENT BASED ON CHANGING STREAMING CONSTRAINTS	US	Granted
Arris Enterprises, Inc.	6,075,972	06/13/2000	09/130,842	08/07/1998	CATV NETWORK AND CABLE MODEM SYSTEM HAVING A WIRELESS RETURN PATH	US	Granted
ARRIS Solutions, Inc.	6,484,317	11/19/2002	09/137,448	08/11/1998	METHOD FOR ROUTING DATA MESSAGES THROUGH A CABLE TRANSMISSION SYSTEM	US	Granted
Arris Enterprises, Inc.	6,526,471	02/25/2003	09/156,466	09/18/1998	Method and apparatus for a high-speed memory subsystem	US	Granted
ARRIS Solutions, Inc.	6,304,356	10/16/2001	09/179,285	10/27/1998	Optical transmitter for reducing impulse noise in a fiber optic link	US	Granted
ARRIS Solutions, Inc.	5,973,489	10/26/1999	09/207,723	12/08/1998	Expanded input voltage range for switch-mode power supply in broadband network	US	Granted
ARRIS Solutions, Inc.	6836898	12/28/2004	09/217,430	02/21/1998	Subscriber power module for CATV customer interface equipment	US	Granted
Arris Enterprises, Inc.	6,473,858	10/29/2002	09/293,079	04/16/1999	Method and apparatus for broadcasting data with access control	US	Granted
Arris Enterprises, Inc.	6,526,580	02/25/2003	09/293,594	04/16/1999	A Broadband Data Boadcasting Service	US	Granted
ARRIS Solutions, Inc.	6,445,474	09/03/2002	09/321,326	05/27/1999	Optical transmitter using multiple optical sources	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
ARRIS Solutions, Inc.	6,574,389	06/03/2003	09/343,909	06/30/1999	Optical communication with pre-compensation for odd order distortion in modulation and transmission	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	6,578,070	06/10/2003	09/352,630	07/13/1999	METHOD AND APPARATUS FOR IMPLEMENTING SEAMLESS PLAYBACK OF CONTINUOUS MEDIA FEEDS	US	Granted
Arris Enterprises, Inc.	7573529	08/11/2009	09/379,710	08/24/1999	SYSTEM AND METHOD FOR PERFORMING INTERLACED-TO-PROGRESSIVE CONVERSION USING INTERFRAME MOTION DATA	US	Granted
Arris Enterprises, Inc.	6917614	07/12/2005	09/398,267	09/17/1999	MULTI-CHANNEL SUPPORT FOR VIRTUAL PRIVATE NETWORKS IN A PACKET TO ATM CELL CABLE SYSTEM	US	Granted
Arris Enterprises, Inc.	6,356,143	03/12/2002	09/430,922	11/01/1999	METHOD AND APPARATUS FOR FILTERING RADIO FREQUENCY SIGNALS	US	Granted
ARRIS Solutions, Inc.	6879634	04/12/2005	09/461,859	12/15/1999	METHOD AND SYSTEM FOR TRANSMITTING MEDIA STREAMS OVER A VARIABLE BANDWIDTH NETWORK	US	Granted
ARRIS Solutions, Inc.	6826195	11/30/2004	09/474,039	12/28/1999	SYSTEM AND PROCESS FOR HIGH-AVAILABILITY, DIRECT, FLEXIBLE AND SCALABLE SWITCHING OF DATA PACKETS IN BROADBAND NETWORKS	US	Granted
ARRIS Solutions, Inc.	6,788,169	09/07/2004	09/474,295	12/29/1999	AMPLIFIER COMPOSITE TRIPLE BEAT (CTB) REDUCTION BY PHASE FILTERING	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	7155734	12/26/2006	09/515,152	02/29/2000	Methods of operating a data broadcast service	US	Granted
ARRIS Solutions, Inc.	7237251	06/26/2007	09/517,818	03/02/2000	METHOD AND APPARATUS FOR USING DELAY TIME DURING SWITCHING EVENTS TO DISPLAY PREVIOUSLY STORED INFORMATION ELEMENTS	US	Granted
Arris Enterprises, Inc.	6,571,048	05/27/2003	09/528,669	03/20/2000	UNIVERSAL SPLITTER FOR SPLITTING RIBBON FIBER AND BUFFER TUBES	US	Granted
Arris Enterprises, Inc.	7051111	05/23/2006	09/558,077	04/25/2000	Multiple Source Pproxy Managment System	US	Granted
Arris Enterprises, Inc.	6868058	03/15/2005	09/558,826	04/26/2000	Multi-Node HFC Diverse Route Recovery Algorithm Using Multi-Stage, Wide-Node Marshal with Branch Failure Detection	US	Granted
ARRIS Solutions, Inc.	6611526	08/26/2003	09/566,540	05/08/2000	SYSTEM HAVING A MESHED BACKPLANE AND PROCESS FOR TRANSFERRING DATA THERETHROUGH	US	Granted
ARRIS Solutions, Inc.	6853680	02/08/2005	09/568,628	05/10/2000	SYSTEM AND PROCESS FOR EMBEDDED CABLE MODEM IN A CABLE MODEM TERMINATION SYSTEM TO ENABLE DIAGNOSTICS AND MONITORING	US	Granted
Arris Enterprises, Inc.	6560678	05/06/2003	09/571,791	05/16/2000	MAINTAINING INFORMATION VARIETY IN AN INFORMATION RECEIVING SYSTEM	US	Granted
ARRIS Solutions, Inc.	6434141	08/13/2002	09/579,551	05/26/2000	COMMUNICATION MANAGEMENT SYSTEM AND METHOD	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	6486644	11/26/2002	09/579,930	05/26/2000	METHOD AND ARCHITECTURE FOR LIMITING INPUT CURRENT TO A BROADBAND NETWORK POWER SUPPLY	US	Granted
ARRIS Solutions, Inc.	6,757,910	06/29/2004	09/590,933	06/08/2000	Adaptive filter for reducing ingress noise in CATV return signals	US	Granted
Arris Enterprises, Inc.	7,095,746	08/22/2006	09/594,216	06/14/2000	Method and apparatus for sub-network devices without direct layer-2 communication and coupled to a common forwarding agent interface to communicate through layer-3	US	Granted
ARRIS Solutions, Inc.	7451475	11/11/2008	09/595,624	06/16/2000	METHOD FOR DELIVERY OF NARROW-CAST DATA OVER DIGITAL BROADCAST CHANNELS	US	Granted
ARRIS Solutions, Inc.	7239607B1	07/03/2007	09/608,747	06/30/2000	GUARANTEED QUALITY OF SERVICE IN AN ASYNCHRONOUS METRO PACKET TRANSPORT RING	US	Granted
ARRIS Solutions, Inc.	7,061,861	06/13/2006	09/611,180	07/06/2000	METHOD AND SYSTEM FOR WEIGHTED FAIR FLOW CONTROL IN AN ASYNCHRONOUS METRO PACKET TRANSPORT RING NETWORK	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	6,892,391	05/10/2005	09/615,468	07/13/2000	Dynamic generation of video content for presentation by a media server	US	Granted
Alcatel Telecom Limited and ARRIS Solutions, Inc.	7512698	03/31/2009	09/653,039	09/01/2000	DYNAMIC QUALITY ADJUSTMENT BASED ON CHANGING STREAMING CONSTRAINTS	US	Granted

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Arris Enterprises, Inc.	6,449,249	09/10/2002	09/656,940	09/07/2000	Spare Circuit Switching	US	Granted
Arris Enterprises, Inc.	6,662,368	12/09/2003	09/659,193	09/11/2000	VARIABLE SPARE CIRCUIT GROUP SIZE AND QUANTITY HAVING MULTIPLE ACTIVE CIRCUITS	US	Granted
Arris Enterprises, Inc.	6,769,132	07/27/2004	09/660,120	09/12/2000	Signal splitter matrix for a cable modem termination system	US	Granted
Arris Enterprises, Inc.	6633877	10/14/2003	09/669,134	09/26/2000	METHOD AND APPARATUS FOR DELIVERY OF SELECTED ELECTRONIC WORKS AND FOR CONTROLLING RERPODUCTION OF THE SAME	US	Granted
Arris Enterprises, Inc.	6,587,012	07/01/2003	09/677,168	10/02/2000	AUTOMATIC SLOPE AND GAIN (ASG) DETECTOR TECHNIQUE INCLUDING A PILOT SIGNAL	US	Granted
Arris Enterprises, Inc.	7,047,553	05/16/2006	09/680,113	10/05/2000	Method and Apparatus for Decreasing Cable Installation Time and Cable Installation Faults	US	Granted
Arris Enterprises, Inc.	6,493,200	12/10/2002	09/684,131	10/10/2000	COAXIAL CABLE PROTECTION DEVICE	US	Granted
Arris Enterprises, Inc.	6489986	12/03/2002	09/698,297	10/27/2000	REMOTE CONTROL DEVICE FOR VIDEO AND AUDIO CAPTURE AND COMMUNICATION	US	Granted
Arris Enterprises, Inc.	6,529,233	03/04/2003	09/698,298	10/27/2000	SYSTEMS AND METHODS FOR REMOTE VIDEO AND AUDIO CAPTURE AND COMMUNICATION	US	Granted
ARRIS Solutions, Inc.	6909726	06/21/2005	09/699,236	10/27/2000	ADAPTIVE BANDWIDTH SYSTEM AND METHOD FOR BROADCAST DATA	US	Granted



Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	6,397,388	05/28/2002	09/707,072	11/06/2000	Systems and devices for audio capture and communication during television broadcasts	US	Granted
Arris Enterprises, Inc.	6944880	09/13/2005	09/707,073	11/06/2000	METHODS FOR AUDIO CAPTURE AND COMMUNICATION DURING TELEVISION BROADCASTS	US	Granted
Arris Enterprises, Inc.	7036138	04/25/2006	09/709,004	11/08/2000	Method and Apparatus for Scheduling Broadcast Information	US	Granted
Arris Enterprises, Inc.	6732325	05/04/2004	09/709,005	11/08/2000	Error-Correction with Limited Working Storage	US	Granted
Arris Enterprises, Inc.	7245817	07/17/2007	09/717,458	11/20/2000	MULTIMEDIA TRANSFER SYSTEM	US	Granted
Arris Enterprises, Inc.	7200859	04/03/2007	09/721,556	11/22/2000	APPARATUS AND METHOD FOR INTELLIGENT MULTIMEDIA COMPRESSION AND DISTRIBUTION	US	Granted
Arris Enterprises, Inc.	7194754	03/20/2007	09/728,844	12/01/2000	METHOD AND SYSTEM TO DEFER TRANSACTIONS CONDUCTED VIA INTERACTIVE TELEVISION	US	Granted
Arris Enterprises, Inc.	7313802	12/25/2007	09/736,952	12/13/2000	METHOD AND SYSTEM TO PROVIDE DEALS AND PROMOTIONS VIA AN INTERACTIVE VIDEO CASTING SYSTEM	US	Granted
Arris Enterprises, Inc.	7103905	09/05/2006	09/742,677	12/19/2000	SYSTEM AND METHOD TO PROVIDE MEDIA PROGRAMS FOR SYNTHETIC CHANNELS	US	Granted
Arris Enterprises, Inc.	6813643	11/02/2004	09/755,517	01/05/2001	MULTIMEDIA SYSTEM WITH SELECTABLE PROTOCOL MODULE INCLUDING MPEG LOGIC AND DOCSIS LOGIC SHARING A SINGLE TUNER	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
ARRIS Solutions, Inc.	8,418,214	04/09/2013	09/759,935	01/12/2001	Method and apparatus for identifying a signal route for delivery of video-on-demand to a subscriber terminal	US	Granted
Arris Enterprises, Inc.	6630963	10/07/2003	09/768,019	01/23/2001	SYNCHRONIZING A VIDEO PROGRAM FROM A TELEVISION BROADCAST WITH A SECONDARY AUDIO PROGRAM	US	Granted
Arris Enterprises, Inc.	6710815	03/23/2004	09/778,994	02/07/2001	SYNCHRONIZING MULTIPLE SIGNALS RECEIVED THROUGH DIFFERENT TRANSMISSION MEDIUMS	US	Granted
Arris Enterprises, Inc.	6842837	01/11/2005	09/784,274	02/13/2001	METHOD AND APPARATUS FOR A BURST WRITE IN A SHARED BUS ARCHITECTURE	US	Granted
Arris Enterprises, Inc.	6,498,754	12/24/2002	09/784,828	02/15/2001	MEMORY ARRAY ORGANIZATION FOR STATIC ARRAYS	US	Granted
Arris Enterprises, Inc.	7340761	03/04/2008	09/789,175	02/20/2001	System and method for delivering radio programs and related schedule information	US	Granted
Arris Enterprises, Inc.	7236204	06/26/2007	09/792,019	02/20/2001	SYSTEM AND METHOD FOR RENDERING GRAPHICS AND VIDEO ON A DISPLAY	US	Granted
Arris Enterprises, Inc.	6,636,482	10/21/2003	09/802,179	03/08/2001	METHOD AND APPARATUS FOR CONTROLLING TRAFFIC LOADING OF DIFFERENT SERVICE LEVELS IN A CABLE DATA SYSTEM	US	Granted
ARRIS Solutions, Inc.	6619864	09/16/2003	09/808,222	03/15/2001	OPTICAL CHANNEL MONITOR WITH CONTINUOUS GAS CELL CALIBRATION	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
ARRIS Solutions, Inc.	7068716	06/27/2006	09/810,154	03/15/2001	METHOD AND SYSTEM FOR COMPRESSING GROUPS OF BASIC MEDIA DATA UNITS	US	Granted
Arris Enterprises, Inc.	7203952	04/10/2007	09/820,331	03/27/2001	PASSIVE PROGRAM COMPLETION STATUS INDICATOR FOR AN ELECTRONIC PROGRAM GUIDE	US	Granted
Arris Enterprises, Inc.	7162728	01/09/2007	09/823,946	03/30/2001	System and Method to Provide Audio Enhancements and Preferences for Interactive Television	US	Granted
ARRIS Solutions, Inc.	7660328	02/09/2010	09/825,628	04/03/2001	METHOD AND SYSTEM FOR GENERATING, TRANSMITTING AND UTILIZING BIT RATE CONVERSION INFORMATION	US	Granted
Arris Enterprises, Inc.	7103908	09/05/2006	09/834,044	04/11/2001	METHOD AND SYSTEM TO SAVE CONTEXT FOR DEFERRED TRANSACTION VIA INTERACTIVE TELEVISION	US	Granted
ARRIS Solutions, Inc.	6,580,319	06/17/2003	09/838,687	04/19/2001	AMPLITUDE AND PHASE TRANSFER LINEARIZATION METHOD AND APPARATUS FOR A WIDEBAND AMPLIFIER	US	Granted
ARRIS Solutions, Inc.	7187697	03/06/2007	09/839,955	04/19/2001	METHOD AND SYSTEM FOR DELIVERING MPEG VIDEO OVER BURSTY COMMUNICATION CHANNELS	US	Granted
ARRIS Solutions, Inc.	6999477	02/14/2006	09/841,579	04/23/2001	METHOD AND SYSTEM FOR PROVIDING MULTIPLE SERVICES TO END-USERS	US	Granted
Arris Enterprises, Inc.	7076202	07/11/2006	09/851,528	05/08/2001	System and method for providing an electronic program guide of live and cached radio programs accessible to a mobile device	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	7320134	01/15/2008	09/858,201	05/15/2001	SYSTEM AND METHOD FOR CABLE OPERATOR CONTROL OVER ENHANCED PROGRAMMING	US	Granted
Arris Enterprises, Inc.	6559866	05/06/2003	09/863,895	05/23/2001	SYSTEM AND METHOD FOR PROVIDING FOREIGN LANGUAGE SUPPORT FOR A REMOTE CONTROL DEVICE	US	Granted
Arris Enterprises, Inc.	6762773	07/13/2004	09/863,896	05/23/2001	SYSTEM AND METHOD FOR PROVIDING A CONTEXT-SENSITIVE INSTRUCTIONAL USER INTERFACE ICON IN AN INTERACTIVE TELEVISION SYSTEM	US	Granted
Arris Enterprises, Inc.	7302696	11/27/2007	09/866,558	05/24/2001	SYSTEM AND METHOD TO PROVIDE AN INTERACTIVE COUPON CHANNEL A VIDEO CASTING NETWORK	US	Granted
ARRIS Solutions, Inc.	6937619	08/30/2005	09/870,056	05/29/2001	METHOD AND SYSTEM FOR COMPARISON-BASED PRIORITIZED BIT RATE CONVERSION	US	Granted
ARRIS Solutions, Inc.	7058087	06/06/2006	09/870,069	05/29/2001	METHOD AND SYSTEM FOR PRIORITIZED BIT RATE CONVERSION	US	Granted
ARRIS Solutions, Inc.	7116717	10/03/2006	09/870,708	05/29/2001	METHOD AND SYSTEM FOR SCALABLE REPRESENTATION, STORAGE, TRANSMISSION AND RECONSTRUCTION OF MEDIA STREAMS	US	Granted
Arris Enterprises, Inc.	7386129	06/10/2008	09/871,415	05/30/2001	System and Method for Multimedia Content Simulcast	US	Granted
Arris Enterprises, Inc.	7093277	08/15/2006	09/871,547	05/30/2001	SYSTEM AND METHOD FOR IMPROVED MULTI-STREAM MULTIMEDIA TRANSMISSION AND PROCESSING	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	7434246	10/07/2008	09/877,549	06/08/2001	SYSTEMS AND METHODS FOR AUTOMATIC PERSONALIZING OF CHANNEL FAVORITES IN A SET TOP BOX	US	Granted
Arris Enterprises, Inc.	7046805	05/16/2006	09/877,990	06/08/2001	SYSTEM AND METHOD FOR EFFICIENTLY STORING AND PROCESSING MULTIMEDIA CONTENT	US	Granted
Arris Enterprises, Inc.	7146632	12/05/2006	09/878,139	06/08/2001	Interactive information aggregator for an interactive television system	US	Granted
Arris Enterprises, Inc.	6559894	05/06/2003	09/879,662	06/11/2001	Block Adaptive Equalization Using Partial Decision Feedback in Digital Broadcast Communications	US	Granted
Arris Enterprises, Inc.	7266832	09/04/2007	09/883,098	06/14/2001	ADVERTISEMENT SWAPPING USING AN AGGREGATOR FOR AN INTERACTIVE TELEVISION SYSTEM	US	Granted
Arris Enterprises, Inc.	6457978	10/01/2002	09/883,716	06/18/2001	METHOD AND APPARATUS FOR ARRANGING CABLE CONNECTORS TO ALLOW FOR EASIER CABLE INSTALLATION	US	Granted
Arris Enterprises, Inc.	6941575	09/06/2005	09/892,159	06/26/2001	WEBCAM-BASED INTERFACE FOR INITIATING TWO-WAY VIDEO COMMUNICATION AND PROVIDING ACCESS TO CACHED VIDEO	US	Granted
Arris Enterprises, Inc.	7003795	02/21/2006	09/892,160	06/26/2001	WEBCAM-BASED INTERFACE FOR INITIATING TWO-WAY VIDEO COMMUNICATION	US	Granted
ARRIS Solutions, Inc.	7,433,598	10/07/2008	09/896,547	06/29/2001	Uncooled laser generation of narrowcast CATV signal	US	Granted

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Arris Enterprises, Inc.	7,002,914	02/21/2006	09/902,121	07/21/2001	CONGESTION CONTROL IN A NETWORK DEVICE HAVING A BUFFER CIRCUIT	US	Granted
Arris Enterprises, Inc.	7,155,067	12/26/2006	09/903,028	07/11/2001	Adaptive Edge Detection and Enhancement for Image Processing	US	Granted
ARRIS Solutions, Inc.	7181759	02/20/2007	09/903,980	07/11/2001	SYSTEM AND METHOD FOR PROVIDING INTERACTIVITY FOR END-USERS OVER DIGITAL BROADCAST CHANNELS	US	Granted
ARRIS Solutions, Inc.	6914936	07/05/2005	09/909,490	07/19/2001	METHOD FOR ALLOCATING MEDIA UNIT SEQUENCES AMONG A PLURALITY OF OUTPUT CHANNELS	US	Granted
ARRIS Solutions, Inc.	6813270	11/02/2004	09/911,930	07/23/2001	METHOD AND SYSTEM FOR GENERATING AND PROVIDING DELAYED MEDIA UNIT SEQUENCES TO END-USERS	US	Granted
Arris Enterprises, Inc.	7428023	09/23/2008	09/916,635	07/27/2001	REMOTE CONTROL DEVICE WITH INTEGRATED DISPLAY SCREEN FOR CONTROLLING A DIGITAL VIDEO RECORDER	US	Granted
Arris Enterprises, Inc.	7006613	02/28/2006	09/917,177	07/27/2001	SYSTEM AND METHOD FOR SCREENING INCOMING VIDEO COMMUNICATIONS WITHIN AN INTERACTIVE TELEVISION SYSTEM	US	Granted
Arris Enterprises, Inc.	7272657	09/18/2007	09/918,301	07/30/2001	SYSTEM AND METHOD FOR DISPLAYING VIDEO STREAMS RANKED BY USER-SPECIFIED CRITERIA	US	Granted

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Arris Enterprises, Inc.	7017174	03/21/2006	09/919,330	07/30/2001	Methods and Apparatus for Providing a Central Recorder in a Broadcast System	US	Granted
Arris Enterprises, Inc.	7071968	07/04/2006	09/923,820	08/06/2001	System and method for a software steerable web camera with multiple image subset capture	US	Granted
ARRIS Solutions, Inc.	6993257 B2	01/31/2006	09/929,339	08/15/2001	OPTICAL CHANNEL MONITOR UTILIZING MULTIPLE FABRY-PEROT FILTER PASS-BANDS	US	Granted
Arris Enterprises, Inc.	7463737	12/09/2008	09/930,784	08/15/2001	System and Method for Conditional Access Key Encryption	US	Granted
Arris Enterprises, Inc.	7,036,140	04/25/2006	09/933,323	08/20/2001	CAPACITY SCALING AND FUNCTIONAL ELEMENT REDISTRIBUTION WITHIN AN IN-BUILDING COAX CABLE INTERNET ACCESS SYSTEM	US	Granted
Arris Enterprises, Inc.	7142230	11/28/2006	09/935,195	08/22/2001	SYSTEM AND METHOD FOR SCREENING INCOMING AND OUTGOING VIDEO COMMUNICATIONS WITHIN AN INTERACTIVE TELEVISION SYSTEM	US	Granted
ARRIS Solutions, Inc.	6873195	03/29/2005	09/935,209	08/22/2001	COMPENSATING FOR DIFFERENCES BETWEEN CLOCK SIGNALS	US	Granted
ARRIS Solutions, Inc.	7031301	04/18/2006	09/938,338	08/23/2001	COMMUNICATION MANAGEMENT SYSTEM AND METHOD	US	Granted
ARRIS Solutions, Inc.	7120142	10/10/2006	09/938,352	08/23/2001	COMMUNICATION MANAGEMENT SYSTEM AND METHOD	US	Granted
ARRIS Solutions, Inc.	7113502	09/26/2006	09/938,445	08/23/2001	COMMUNICATION MANAGEMENT SYSTEM AND METHOD	US	Granted

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Arris Enterprises, Inc.	7167531	01/23/2007	09/954,777	09/17/2001	SYSTEM AND METHOD FOR SHARED DECODING USING A DATA REPLAY SCHEME	US	Granted
Arris Enterprises, Inc.	7251294	07/31/2007	09/954,915	09/17/2001	System and method for concurrently demodulating and decoding multiple data streams	US	Granted
Arris Enterprises, Inc.	7382838	06/03/2008	09/955,529	09/17/2001	FREQUENCY DRIFT COMPENSATION ACROSS MULTIPLE BROADBAND SIGNALS IN A DIGITAL RECEIVER SYSTEM	US	Granted
Arris Enterprises, Inc.	7161994	01/09/2007	09/955,537	09/17/2001	A SYSTEM AND METHOD FOR SHARED DECODING USING A DATA REPLAY SCHEME	US	Granted
Arris Enterprises, Inc.	7073118	07/04/2006	09/955,547	09/17/2001	Apparatus and Method for Saturating Decoder Values	US	Granted
Arris Enterprises, Inc.	7131054	10/31/2006	09/955,558	09/17/2001	Apparatus and method for efficient decoder normalization	US	Granted
Arris Enterprises, Inc.	7069284	06/27/2006	09/955,569	09/17/2001	Apparatus and method for correcting signal imbalances using complex multiplication	US	Granted
Arris Enterprises, Inc.	7165264	01/16/2007	09/956,754	09/19/2001	Client-Side Tool for Splitting or Truncating Text Strings for Interactive Television	US	Granted
ARRIS Solutions, Inc.	6944372	09/13/2005	09/957,022	09/21/2001	TUNABLE DISPERSION COMPENSATING BANDWIDTH DEVICE FOR FIBER OPTICS SYSTEM	US	Granted
Arris Enterprises, Inc.	7111320	09/19/2006	09/962,926	09/25/2001	System and method for personalized remote control of an interactive television system	US	Granted
Arris Enterprises, Inc.	8375407	02/12/2013	09/963,092	09/24/2001	System & apparatus for displaying substitute content	US	Granted



Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	6798457	09/28/2004	09/964,285	09/26/2001	CAMERA POSITIONING SYSTEM AND METHOD FOR EYE-TO-EYE COMMUNICATION	US	Granted
Arris Enterprises, Inc.	6943843	09/13/2005	09/966,334	09/27/2001	CAMERA POSITIONING SYSTEM AND METHOD FOR EYE-TO-EYE COMMUNICATION	US	Granted
Arris Enterprises, Inc.	7035355	04/25/2006	09/971,984	10/04/2001	Apparatus and Method for Decode Arbitration in a Multi-Stream Multimedia System	US	Granted
ARRIS Solutions, Inc.	6,938,198	08/30/2005	09/972,007	10/05/2001	Method and apparatus for accelerating ethernet checksums	US	Granted
Arris Enterprises, Inc.	6865555	03/08/2005	09/990,098	11/21/2001	SYSTEM AND METHOD FOR PROVIDING CONDITIONAL ACCESS TO DIGITAL CONTENT	US	Granted
Arris Enterprises, Inc.	7161887	01/09/2007	09/991,088	11/13/2001	Method and Apparatus for Extracting Digital Data from a Medium	US	Granted
Arris Enterprises, Inc.	6915528	07/05/2005	09/993,350	11/14/2001	SYSTEM AND METHOD FOR MANAGING TELEVISION PROGRAMS WITHIN AN ENTERTAINMENT SYSTEM	US	Granted
ARRIS Solutions, Inc.	6754085	06/22/2004	10/002,218	11/01/2001	Mounting circuit boards in housings	US	Granted
ARRIS Solutions, Inc.	6632008	10/14/2003	10/008,651	11/09/2001	LIGHT-PIPE	US	Granted
ARRIS Solutions, Inc.	7,208,992	04/24/2007	10/010,615	11/08/2001	LOSSY LINEARIZERS FOR ANALOG OPTICAL TRANSMITTERS	US	Granted
Arris Enterprises, Inc.	7320137	01/15/2008	10/010,736	12/06/2001	METHOD AND SYSTEM FOR DISTRIBUTING PERSONALIZED EDITIONS OF MEDIA PROGRAMS USING BOOKMARKS	US	Granted
ARRIS Solutions, Inc.	6674804	01/06/2004	10/011,341	11/12/2001	METHOD FOR GENERATING A MULTIPLEXED SEQUENCE OF MEDIA UNITS	US	Granted

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ARRIS Solutions, Inc.	6738536	05/18/2004	10/022,360	12/20/2001	WAVELENGTH TUNABLE FILTER DEVICE FOR FIBER OPTIC SYSTEMS	US	Granted
ARRIS Solutions, Inc.	6959153 B2	10/25/2005	10/022,516	12/20/2001	DYNAMICALLY RECONFIGURABLE ADD/DROP MULTIPLEXER WITH LOW COHERENT CROSS-TALK FOR OPTICAL COMMUNICATION NETWORKS	US	Granted
ARRIS Solutions, Inc.	7184433	02/27/2007	10/033,488	12/27/2001	SYSTEM AND METHOD FOR PROVIDING MEDIA CONTENT TO END-USERS	US	Granted
Arris Enterprises, Inc.	7360232	04/15/2008	10/033,728	12/28/2001	System and Method to Subscribe to Channel URL Addresses and to Provide Non-Programming-Related URL Addresses in an Interactive Video Casting System	US	Granted
Arris Enterprises, Inc.	7032177	04/18/2006	10/034,200	12/27/2001	METHOD AND SYSTEM FOR DISTRIBUTING PERSONALIZED EDITIONS OF MEDIA PROGRAMS USING BOOKMARKS	US	Granted
Arris Enterprises, Inc.	7243123	07/10/2007	10/045,672	10/22/2001	VIDEO CALL ROUTING WITH PRESENCE DETERMINATION	US	Granted
Arris Enterprises, Inc.	7036090	04/25/2006	10/092,008	03/06/2002	CONCENTRIC POLYGONAL MENUS FOR A GRAPHICAL USER INTERFACE	US	Granted
Arris Enterprises, Inc.	7036091	04/25/2006	10/092,362	03/06/2002	CONCENTRIC CURVILINEAR MENUS FOR A GRAPHICAL USER INTERFACE	US	Granted
ARRIS Solutions, Inc.	7031259	04/18/2006	10/093,210	03/06/2002	METHOD AND SYSTEM FOR SCHEDULING A TRANSMISSION OF COMPRESSIBLE AND NON-COMPRESSIBLE PACKETS	US	Granted

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ARRIS Solutions, Inc.	6947998	09/20/2005	10/094,035	03/07/2002	Method and system for bandwidth allocation tracking in a packet data network	US	Granted
Arris Enterprises, Inc.	7155675	12/26/2006	10/097,195	03/12/2002	SYSTEM AND METHOD FOR FOCUSED NAVIGATION WITHIN A USER INTERFACE	US	Granted
Arris Enterprises, Inc.	7058816	06/06/2006	10/106,834	03/26/2002	APPARATUS AND METHOD FOR CONTENT ENTRY MANAGEMENT	US	Granted
Arris Enterprises, Inc.	7594246	09/22/2009	10/108,178	03/27/2002	SYSTEM AND METHOD FOR FOCUSED NAVIGATION WITHIN A USER INTERFACE	US	Granted
Arris Enterprises, Inc.	7197715	03/27/2007	10/112,666	03/29/2002	System and Method to Provide Customized Graphical User Interfaces Via an Interactive Video Casting Network	US	Granted
Arris Enterprises, Inc.	7055104	05/03/2006	10/113,820	03/29/2002	SYSTEM AND METHOD FOR FOCUSED NAVIGATION USING FILTERS	US	Granted
Arris Enterprises, Inc.	7735102	06/08/2010	10/113,889	03/29/2002	System and Method for Focused Navigation Within a User Interface	US	Granted
ARRIS Solutions, Inc.	6,687,432	02/03/2004	10/114,641	04/02/2002	Optical communication with pre-compensation for odd order distortion in modulation and transmission	US	Granted
Arris Enterprises, Inc.	7159176	01/02/2007	10/138,803	05/03/2002	SYSTEM AND METHOD FOR FOCUSED NAVIGATION WITHIN A USER INTERFACE	US	Granted
Arris Enterprises, Inc.	7159177	01/02/2007	10/138,804	05/03/2002	SYSTEM AND METHOD FOR FOCUSED NAVIGATION WITHIN A USER INTERFACE	US	Granted
Arris Enterprises, Inc.	7107531	09/12/2006	10/138,805	05/03/2002	SYSTEM AND METHOD FOR FOCUSED NAVIGATION WITHIN A USER INTERFACE	US	Granted

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Arris Enterprises, Inc.	7107532	09/12/2006	10/138,810	05/03/2002	SYSTEM AND METHOD FOR FOCUSED NAVIGATION WITHIN A USER INTERFACE	US	Granted
Arris Enterprises, Inc.	6,801,014	10/05/2004	10/141,045	05/08/2002	Battery equalizer using total string current	US	Granted
Arris Enterprises, Inc.	7197234	03/27/2007	10/155,720	05/24/2002	SYSTEM AND METHOD FOR PROCESSING SUBPICTURE DATA	US	Granted
Arris Enterprises, Inc.	7116894	10/03/2006	10/155,955	05/24/2002	System and method for digital multimedia stream conversion	US	Granted
ARRIS Solutions, Inc.	6879641	04/12/2005	10/170,770	06/13/2002	TRANSMIT PRE-EQUALIZATION IN A MODEM ENVIRONMENT	US	Granted
Arris Enterprises, Inc.	6859044	02/22/2005	10/171,029	06/12/2002	Method and architecture for fault protection on a broadband communications network power passing tap	US	Granted
Arris Enterprises, Inc.	7,272,144	09/18/2007	10/180,736	06/26/2002	Method and apparatus for queuing data flows	US	Granted
Arris Enterprises, Inc.	6861952	03/01/2005	10/184,023	06/26/2002	APPARATUS AND METHOD FOR UTILIZING SMOKE ALARMS AS NODES OF A HOME NETWORK	US	Granted
Arris Enterprises, Inc.	6972787	12/06/2005	10/186,244	06/28/2002	SYSTEM AND METHOD FOR TRACKING AN OBJECT WITH MULTIPLE CAMERAS	US	Granted
Arris Enterprises, Inc.	7237252	06/26/2007	10/186,286	06/27/2002	Method and Apparatus to Invoke a Shopping Ticker	US	Granted
Arris Enterprises, Inc.	7034927	04/25/2006	10/186,296	06/28/2002	SYSTEM AND METHOD FOR IDENTIFYING AN OBJECT USING INVISIBLE LIGHT	US	Granted
Arris Enterprises, Inc.	6,727,935	04/27/2004	10/186,299	06/28/2002	SYSTEM AND METHOD FOR SELECTIVELY OBSCURING A VIDEO SIGNAL	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	7266835	09/04/2007	10/186,341	06/27/2002	Method and Apparatus for Secure Transactions in an Interactive Television Ticker	US	Granted
ARRIS Solutions, Inc.	7787439	08/31/2010	10/187,917	07/01/2002	METHOD AND SYSTEMS FOR PROVIDING ENHANCED TELEVISION SERVICES	US	Granted
ARRIS Solutions, Inc.	6,724,791	04/20/2004	10/188,944	07/02/2002	METHOD AND APPARATUS FOR CONTROLLING THE TEMPERATURE OF A LASER MODULE IN FIBER OPTIC TRANSMISSIONS	US	Granted
Arris Enterprises, Inc.	7,277,450	10/02/2007	10/194,338	07/12/2002	Scalable Method And Architecture For An Active Switch Defining A Network Edge Having Multiple Uplinks And Using Wavelength Division Multiplexing	US	Granted
ARRIS Solutions, Inc.	7535888	05/19/2009	10/209,349	07/30/2002	SYSTEM AND METHOD FOR PROVIDING IN-BAND TIMING INFORMATION TO DIGITAL HOME COMMUNICATION TERMINALS	US	Granted
Arris Enterprises, Inc.	7533403	05/12/2009	10/227,045	08/23/2002	Apparatus and Method for Distributing and Video Content Using Existing Network Wiring	US	Granted
Arris Enterprises, Inc.	7310355	12/18/2007	10/227,120	08/23/2002	Apparatus and Method for Powering a Network Device	US	Granted
Arris Enterprises, Inc.	6,749,498	06/15/2004	10/230,896	08/29/2002	Ventilated outdoor electronics enclosure	US	Granted
Arris Enterprises, Inc.	7080394	07/18/2006	10/230,964	08/29/2002	System and method for capturing video frames for focused navigation within a user interface	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	6882514	04/19/2005	10/237,822	09/09/2002	Overcurrent and overvoltage protection method and architecture for a tip and ring subscriber line interface circuit	US	Granted
Arris Enterprises, Inc.	7650569	01/19/2010	10/251,366	09/20/2002	SYSTEM AND METHOD FOR FOCUSED NAVIGATION WITHIN A USER INTERFACE	US	Granted
Arris Enterprises, Inc.	7,218,610	05/15/2007	10/254,978	09/26/2002	Communication System and Techniques for Transmission from Source to Destination	US	Granted
Arris Enterprises, Inc.	8151293 B1	04/03/2012	10/259,273	09/27/2002	System and method for event-based automatic tuning	US	Granted
Arris Enterprises, Inc.	7350157	03/25/2008	10/260,208	09/30/2002	FILTERING BY BROADCAST OR RECORDING QUALITY WITHIN AN ELECTRONIC PROGRAM GUIDE	US	Granted
Arris Enterprises, Inc.	7380260	05/27/2008	10/260,700	09/30/2002	FOCUSED NAVIGATION INTERFACE FOR A PC MEDIA CENTER AND EXTENSION DEVICE	US	Granted
Arris Enterprises, Inc.	8141117	03/20/2012	10/261,071	09/30/2002	PC media center and extension device for interfacing with a personal video recorder through a home network	US	Granted
Arris Enterprises, Inc.	7774815	08/10/2010	10/261,075	09/30/2002	Context-Sensitive Interactive Television Ticker	US	Granted
Arris Enterprises, Inc.	8245257 B1	08/14/2012	10/261,096	09/30/2002	System and Method for Dynamic Electronic Program Guide (EPG) Data Downloads	US	Granted
Arris Enterprises, Inc.	7739718	06/15/2010	10/261,548	09/30/2002	SYSTEM AND METHOD FOR AUTOMATICALLY SENSING THE STATE OF A VIDEO DISPLAY DEVICE	US	Granted
Arris Enterprises, Inc.	7688803	03/30/2010	10/261,761	10/29/2002	System and method for coordinating between multiple telephony channels	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	7263362	08/31/2007	10/262,269	09/30/2002	SYSTEM AND METHOD FOR DEPLOYING MULTI-FUNCTION ACCESS POINTS IN A DATA NETWORK	US	Granted
ARRIS Solutions, Inc.	7127182	10/24/2006	10/270,726	10/16/2002	EFFICIENT OPTICAL TRANSMISSION SYSTEM	US	Granted
Arris Enterprises, Inc.	7,024,185	04/04/2006	10/272,414	10/15/2002	METHOD AND SYSTEM FOR OPERATING A FIELD PROGRAMMABLE LINE CARD USING A COUNTRY CODED TEMPLATE	US	Granted
Arris Enterprises, Inc.	6856185	02/15/2005	10/278,688	10/23/2002	Simple RMS to DC Converter	US	Granted
ARRIS Solutions, Inc.	6907158 B2	06/14/2005	10/286,975	11/04/2002	CONFIGURABLE OPTICAL ADD/DROP MULTIPLEXER WITH PARTIAL OR COMPLETE WAVELENGTH DROP CAPABILITY	US	Granted
ARRIS Solutions, Inc.	6,996,836	02/07/2006	10/298,509	11/19/2002	SYSTEM AND METHOD FOR ROUTING DATA MESSAGES THROUGH A CABLE TRANSMISSION SYSTEM	US	Granted
ARRIS Solutions, Inc.	7,196,840	03/27/2007	10/303,050	11/25/2002	AMPLITUDE BALANCING FOR MULTILEVEL SIGNAL TRANSMISSION	US	Granted
Arris Enterprises, Inc.	7480378	01/20/2009	10/324,321	12/20/2002	METHOD AND SYSTEM FOR INCREASING SUBSCRIBER LINE INTERFACE CIRCUIT VOLTAGE DURING RINGING	US	Granted
Arris Enterprises, Inc.	8099680	01/17/2012	10/328,514	12/23/2002	Progressive Tuning to Multiple Cards	US	Granted

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Arris Enterprises, Inc.	7757253	07/13/2010	10/328,754	12/23/2002	SYSTEM AND METHOD FOR CAPTURING VIDEO CLIPS FOR FOCUSED NAVIGATION WITHIN A USER INTERFACE	US	Granted
Arris Enterprises, Inc.	7921440	04/05/2011	10/334,687	12/20/2002	Method and System For Managing Television Viewing Habits	US	Granted
Arris Enterprises, Inc.	7251255	07/31/2007	10/335,440	12/30/2002	SYSTEM AND METHOD FOR ALLOCATING RESOURCES ACROSS A PLURALITY OF DISTRIBUTED NODES	US	Granted
Arris Enterprises, Inc.	8,032,016	10/04/2011	10/365,619	02/13/2003	Agile block downconversion for the distribution of narrowcast services	US	Granted
ARRIS Solutions, Inc.	6907159 B1	06/14/2005	10/370,113	02/21/2003	CONFIGURABLE OPTICAL ADD/DROP MULTIPLEXER WITH ENHANCED ADD CHANNEL CAPACITY	US	Granted
Arris Enterprises, Inc.	7100011	08/29/2006	10/376,381	02/28/2003	METHOD AND SYSTEM FOR REDUCING STORAGE REQUIREMENTS FOR PROGRAM CODE IN A COMMUNICATION DEVICE	US	Granted
Arris Enterprises, Inc.	6975713	12/13/2005	10/388,605	03/13/2003	Providing Multiple Line Functionality Using Alternative Network Telephony	US	Granted
Arris Enterprises, Inc.	6975717	12/13/2005	10/388,767	03/13/2003	SELECTIVE PROCESSING OF CALLS USING ALTERNATIVE NETWORK TELEPHONY	US	Granted
Arris Enterprises, Inc.	6980638	12/27/2005	10/389,277	03/13/2003	FAILSAFE CONFIGURATION FOR ALTERNATIVE NETWORK TELEPHONY	US	Granted
Arris Enterprises, Inc.	7391808	06/24/2008	10/404,837	03/31/2003	System and Method for Upgrading Processing Capabilities of a Media Center	US	Granted



Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	7218915	05/15/2007	10/409,334	04/07/2003	Method and system for using an integrated subscriber identity module in a network interface unit	US	Granted
ARRIS Solutions, Inc.	7471639	12/30/2008	10/421,257	04/22/2003	METHOD AND SYSTEM FOR MODULATING MEDIA PACKETS	US	Granted
Arris Enterprises, Inc.	7,233,660	06/19/2007	10/430,860	05/05/2003	METHOD AND SYSTEM FOR EXTENDING BACKUP BATTERY LIFE IN PRIMARY LINE CUSTOMER PREMISES EQUIPMENT	US	Granted
Arris Enterprises, Inc.	7,031,435	04/18/2006	10/462,556	06/16/2003	Method and apparatus for simultaneous line-interface wiring collision detection	US	Granted
Arris Enterprises, Inc.	8104065	01/24/2012	10/578,872	02/28/2007	SYSTEM TO PROVIDE MARKERS TO AFFECT RENDERING AND NAVIGATION OF CONTENT ON DEMAND	US	Granted
ARRIS Solutions, Inc.	8146123	03/27/2012	10/579,097	05/18/2007	SYSTEM TO PROVIDE SET TOP BOX CONFIGURATION FOR CONTENT ON DEMAND	US	Granted
Arris Enterprises, Inc.	7,936,818	05/03/2011	10/609,539	07/01/2003	Efficient Compression and Transport of Video Over a Network	US	Granted
ARRIS Solutions, Inc.	7397822	07/08/2008	10/619,900	07/14/2003	METHOD AND SYSTEM FOR COMPENSATING FOR TIMING VIOLATIONS OF A MULTIPLEX OF AT LEAST TWO MEDIA PACKET STREAMS	US	Granted
Arris Enterprises, Inc.	7460523	12/02/2008	10/657,492	09/08/2003	Client-Server Architecture for the Delivery of Broadband Services	US	Granted
ARRIS Solutions, Inc.	7280479	10/09/2007	10/683,079	10/10/2003	STATE MACHINE FOR PROVIDING DYNAMIC QUALITY OF SERVICE IN A CABLE NETWORK	US	Granted
ARRIS Solutions, Inc.	7764863 B1	07/27/2010	10/685,958	10/14/2003	System and method for providing trick modes	US	Granted
ARRIS Solutions, Inc.	8036250 B1	10/11/2011	10/693,509	10/24/2003	Method and Apparatus of Multiplexing Media Streams	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
ARRIS Solutions, Inc.	8185926 B1	05/22/2012	10/698,189	10/30/2003	SYSTEM AND METHOD FOR PROVIDING MEDIA STREAM RELATED APPLICATIONS	US	Granted
ARRIS Solutions, Inc.	8000475 B1	08/16/2011	10/746,616	12/23/2003	System and method for encrypting and modulating video streams	US	Granted
Arris Enterprises, Inc.	7,031,463	04/18/2006	10/778,527	02/13/2004	RESISTIVE FEED RAIL GENERATION IN A POWER SUPPLY	US	Granted
ARRIS Solutions, Inc.	7,721,317	05/18/2010	10/805,226	03/22/2004	COAXIAL COMMUNICATION ACTIVE TAP DEVICE AND DISTRIBUTION SYSTEM	US	Granted
Arris Enterprises, Inc.	7480237	01/20/2009	10/827,090	04/19/2004	Predictive upstream load balancing	US	Granted
ARRIS Solutions, Inc.	7267568	09/11/2007	10/828,722	04/21/2004	FLOATING CONNECTORS	US	Granted
ARRIS Solutions, Inc.	7200718 B2	04/03/2007	10/832,489	04/26/2004	CACHE MEMORY FOR A SCALABLE INFORMATION DISTRIBUTION SYSTEM	US	Granted
ARRIS Solutions, Inc.	7,792,023	09/07/2010	10/846,297	05/13/2004	Per-flow rate control for an asynchronous metro packet transport ring	US	Granted
ARRIS Solutions, Inc.	7474150	01/06/2009	10/847,866	05/19/2004	AMPLIFIER COMPOSITE TRIPLE BEAT (CTB) REDUCTION BY PHASE FILTERING	US	Granted
ARRIS Solutions, Inc.	8245269 B2	08/14/2012	10/877,856	06/25/2004	System and method for delivering video programs to a video distribution center	US	Granted
Arris Enterprises, Inc.	7504176	03/17/2009	10/889,560	07/12/2004	Capturing mechanism with a flexible tongue having guidetabs comprising hooks	US	Granted
Arris Enterprises, Inc.	8121112	02/21/2012	10/929,966	08/30/2004	Method and system for processing voice traffic from a multi-channel link into a VoIP network over a broadband network	US	Granted

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Arris Enterprises, Inc.	7,653,932	01/26/2010	10/930,109	08/30/2004	METHOD AND SYSTEM FOR LAYER-3 SUBSCRIBER LOGIN IN A CABLE DATA NETWORK	US	Granted
Arris Enterprises, Inc.	7480241	01/20/2009	10/933,065	09/02/2004	METHOD FOR PROCESSOR OVERLOAD CONTROL IN A VOICE OVER INTERNET PROTOCOL CABLE MODEM TERMINATION SYSTEM	US	Granted
Arris Enterprises, Inc.	7,403,374	07/22/2008	11/031,773	01/07/2005	INTEGRATED ROTATABLE SUPPORT FOR A COMMUNICATIONS DEVICE	US	Granted
Arris Enterprises, Inc.	7606870	10/20/2009	11/041,844	01/24/2005	Method for displaying vendor name in a CMTS command line interface	US	Granted
ARRIS Solutions, Inc.	7366239	04/29/2008	11/045,671	01/26/2005	METHOD AND SYSTEM FOR COMPRESSING GROUPS OF BASIC MEDIA DATA UNITS	US	Granted
Arris Enterprises, Inc.	7,860,122	12/28/2010	11/046,304	01/28/2005	Method and system for prioritizing initial maintenance of cable modems	US	Granted
ARRIS Solutions, Inc.	8068516 B1	11/29/2011	11/055,507	02/09/2005	Method and system for exchanging media and data between multiple clients and a central entity	US	Granted
Arris Enterprises, Inc.	7,403,562	07/22/2008	11/074,661	03/09/2005	Model-Based Rate Control for Predictive Video Encoder	US	Granted
Arris Enterprises, Inc.	8108896	01/31/2012	11/106,388	04/13/2005	METHOD AND SYSTEM FOR PROVIDING INTERACTIVE SERVICES USING VIDEO ON DEMAND INFRASTRUCTURE	US	Granted
ARRIS Solutions, Inc.	7151782	12/19/2006	11/126,021	08/09/2005	METHOD AND SYSTEM FOR PROVIDING MULTIPLE SERVICES TO END-USERS	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	7,885,182	02/08/2011	11/130,287	05/16/2005	Method for fast recovery from ring protection switches on DOCSIS networks	US	Granted
Arris Enterprises, Inc.	7,974,303 B2	07/05/2011	11/130,385	05/16/2005	Method and system for providing bandwidth request opportunities for high priority service flows	US	Granted
ARRIS Solutions, Inc.	7653090	01/26/2010	11/141,848	05/31/2005	METHOD, TRANSMITTER AND SYSTEM FOR PROVIDING VIDEO ON DEMAND SERVICES	US	Granted
ARRIS Solutions, Inc.	7676720	03/09/2010	11/141,849	05/31/2005	Method and System for Program Based Redundancy	US	Granted
Arris Enterprises, Inc.	7773855	08/10/2010	11/149,932	06/10/2005	METHOD AND APPARATUS FOR INSERTION OF ADVERTISEMENTS BETWEEN VIEWINGS OF RECORDED CONTENT, GAMES AND OTHER MEDIA TYPES	US	Granted
ARRIS Solutions, Inc.	7395321	07/01/2008	11/151,477	06/13/2005	METHOD AND SYSTEM FOR PRIORITIZED BIT RATE CONVERSION	US	Granted
ARRIS Solutions, Inc.	7653740	01/26/2010	11/180,720	07/14/2005	Method and system for bandwidth allocation tracking in a packet data network	US	Granted
Arris Enterprises, Inc.	7,403,547	07/22/2008	11/182,535	07/15/2005	METHOD AND SYSTEM FOR SYNCHRONIZING SEPARATED EDGE QAM DEVICES LOCATED REMOTELY FROM A CMTS	US	Granted
Arris Enterprises, Inc.	7843894	11/30/2010	11/183,304	07/15/2005	Method for fast reinstallation of deployed DOCSIS devices	US	Granted
ARRIS Solutions, Inc.	8249114 B2	08/21/2012	11/200,754	08/09/2005	Method and device for receiving and providing programs	US	Granted
Arris Enterprises, Inc.	7672438	03/02/2010	11/226,189	09/13/2005	PROVIDING MULTIPLE LINE FUNCTIONALITY USING ALTERNATIVE NETWORK TELEPHONY	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	7206399	04/17/2007	11/230,850	09/19/2005	FAILSAFE CONFIGURATION FOR ALTERNATIVE NETWORK TELEPHONY	US	Granted
Arris Enterprises, Inc.	7643553	01/05/2010	11/260,451	10/27/2005	Optimal Rate Allocation for a Group of Channels	US	Granted
Arris Enterprises, Inc.	7,665,116	02/16/2010	11/260,707	10/27/2005	Network Architecture for Real Time Delivery of Video Over Lossy Networks from Remote Locations	US	Granted
ARRIS Solutions, Inc.	8081657 B2	12/20/2011	11/277,110	03/21/2006	METHOD AND DEVICE FOR PROVIDING VIDEO, DATA AND VOICE TO END USER DEVICES	US	Granted
Arris Enterprises, Inc.	7278002	10/02/2007	11/290,855	11/30/2005	METHOD AND SYSTEM FOR REDUCING STORAGE REQUIREMENTS FOR PROGRAM CODE IN A COMMUNICATION DEVICE	US	Granted
ARRIS Solutions, Inc.	8107526 B2	01/31/2012	11/326,779	01/06/2006	METHOD AND SYSTEM FOR SCALABLE REPRESENTATION, STORAGE, TRANSMISSION AND RECONSTRUCTION OF MEDIA STREAMS	US	Granted
ARRIS Solutions, Inc.	8238441 B2	08/07/2012	11/327,077	01/05/2006	Method and system for scalable representation, storage, transmission and reconstruction of media streams	US	Granted
Arris Enterprises, Inc.	7,804,824	09/28/2010	11/334,284	01/18/2006	METHOD AND SYSTEM FOR OPERATING A FIELD PROGRAMMABLE LINE CARD USING A COUNTRY CODED TEMPLATE	US	Granted
ARRIS Solutions, Inc.	7809264	10/05/2010	11/350,105	02/09/2006	Prescriptive and diagnostic system and method for combined RF/optical transmission management	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	7,701,956	04/20/2010	11/363,978	02/28/2006	Method and system for using a transfer agent for translating a configuration file	US	Granted
Arris Enterprises, Inc.	7,751,449	07/06/2010	11/395,587	03/30/2006	Method and system for simulation multimedia packet loss and jitter	US	Granted
Arris Enterprises, Inc.	8266424 B2	09/11/2012	11/395,588	03/30/2006	Method and system for in-field recovery of security when a certificate authority has been compromised	US	Granted
Arris Enterprises, Inc.	7593495	09/22/2009	11/395,590	03/30/2006	METHOD FOR PERFORMING HIGH RESOLUTION PHASE ALIGNMENT OF MULTIPLE CLOCKS USING LOW RESOLUTION CONVERTERS	US	Granted
Arris Enterprises, Inc.	7574345	08/11/2009	11/396,099	03/30/2006	Method and system for simulating multiple cable modems	US	Granted
Arris Enterprises, Inc.	7546622	06/09/2009	11/409,623	04/24/2006	Method and Apparatus for Scheduling Broadcast Information	US	Granted
Arris Enterprises, Inc.	7,440,523	10/21/2008	11/409,636	04/24/2006	Apparatus and Method for Decode Arbitration in a Multi-Stream Multimedia System	US	Granted
Arris Enterprises, Inc.	7593041	09/22/2009	11/428,525	07/03/2006	SYSTEM AND METHOD FOR A SOFTWARE STEERABLE WEB CAMERA WITH MULTIPLE IMAGE SUBSET CAPTURE	US	Granted
Arris Enterprises, Inc.	7487459	02/03/2009	11/442,926	05/30/2006	SYSTEM AND METHOD FOR FOCUSED NAVIGATION USING OPTION TYPE FILTERS	US	Granted
Arris Enterprises, Inc.	8117638	02/14/2012	11/464,776	08/15/2006	SYSTEM AND METHOD FOR IMPROVED MULTI-STREAM MULTIMEDIA TRANSMISSION AND PROCESSING	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	7574656	08/11/2009	11/519,521	09/12/2006	SYSTEM AND METHOD FOR FOCUSED NAVIGATION WITHIN A USER INTERFACE	US	Granted
Arris Enterprises, Inc.	7,695,853	04/13/2010	11/529,187	09/28/2006	Frameless multi-size battery compartment with passive capture mechanism	US	Granted
Arris Enterprises, Inc.	7643260	01/05/2010	11/546,450	10/11/2006	SYSTEM FOR EMI FILTER SURGE VOLTAGE CLAMPING	US	Granted
Arris Enterprises, Inc.	7,990,951 B2	08/02/2011	11/546,451	10/11/2006	Method and system for fast channel change in a communication device	US	Granted
Arris Enterprises, Inc.	7518629	04/14/2009	11/564,188	11/28/2006	SYSTEM AND METHOD FOR SCREENING VIDEO COMMUNICATIONS WITHIN AN INTERACTIVE TELEVISION SYSTEM	US	Granted
Arris Enterprises, Inc.	7,660,250	02/09/2010	11/594,304	11/08/2006	Method and system for regulating traffic in a network device	US	Granted
Arris Enterprises, Inc.	7,724,647	01/25/2010	11/594,590	11/08/2006	Method and System for Fast Channel Change in a DOCSIS Set Top Gateway Device	US	Granted
Arris Enterprises, Inc.	Allowed		11/608,701	12/08/2006	SYSTEM AND METHOD FOR REVERSE HIERARCHICAL NAVIGATION WITHIN A USER INTERFACE	US	Granted
ARRIS Solutions, Inc.	7,844,015	11/30/2010	11/612,331	12/18/2006	METHOD FOR CALIBRATING A QUADRATURE MODULATOR AND A MODULATION SYSTEM	US	Granted
ARRIS Solutions, Inc.	7817672	10/19/2010	11/617,637	12/28/2006	METHOD AND DEVICE FOR PROVIDING PROGRAMS TO MULTIPLE END USER DEVICES	US	Granted
ARRIS Solutions, Inc.	7,702,877	04/20/2010	11/646,184	12/27/2006	RAID STRIPE LAYOUT SCHEME	US	Granted
Arris Enterprises, Inc.	7466640	12/16/2008	11/651,383	01/09/2007	Method and Apparatus for Extracting Digital Data from a Medium	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
ARRIS Solutions, Inc.	8218651 B1	07/10/2012	11/680,172	02/28/2007	System and Method for Splicing	US	Granted
Arris Enterprises, Inc.	8312488 B2	11/13/2012	11/680,493	02/28/2007	Method and system for fast channel change in a communication device	US	Granted
Arris Enterprises, Inc.	8085804	12/27/2011	11/683,295	03/07/2007	SYSTEM AND METHOD FOR PROCESSING MULTIPLE BROADCAST MULTIMEDIA STREAMS	US	Granted
ARRIS Solutions, Inc.	8184687 B1	05/22/2012	11/692,934	03/29/2007	Combining unsynchronized MPEG streams into a mosaic	US	Granted
ARRIS Solutions, Inc.	8175175 B1	05/08/2012	11/692,939	03/29/2007	Video Rate Shaping and Broadband Wireless Technology	US	Granted
Arris Enterprises, Inc.	8401152 B2	03/19/2013	11/695,923	04/03/2007	METHOD AND SYSTEM FOR PERFORMING EMTA LOOP DIAGNOSTICS	US	Granted
Arris Enterprises, Inc.	7,744,321	06/29/2010	11/706,816	02/13/2007	Insulated Fastener	US	Granted
ARRIS Solutions, Inc.	7,346,738	03/18/2008	11/709,372	02/21/2007	CACHE MEMORY FOR A SCALABLE INFORMATION DISTRIBUTION SYSTEM	US	Granted
Arris Enterprises, Inc.	7,957,600	06/07/2011	11/737,632	05/08/2007	Methods and Systems for Rate-Distortion Optimized Quantization of Transform Blocks in Block Transform Video Coding	US	Granted
Arris Enterprises, Inc.	7,930,551	04/19/2011	11/748,953	05/15/2007	METHOD AND SYSTEM FOR REUSING AN MMH FUNCTION TO PERFORM A FAST MMH-MAC CALCULATION	US	Granted
Arris Enterprises, Inc.	7,916,744	03/29/2011	11/756,544	05/31/2007	Method and system for scanning for a downstream channel in a communication network	US	Granted
Arris Enterprises, Inc.	8149859 B2	04/03/2012	11/761,231	06/11/2007	Method for managing delivery of multicast traffic to devices	US	Granted



Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
ARRIS Solutions, Inc.	7971215 B1	06/28/2011	11/774,601	07/08/2007	SYSTEM, METHOD AND COMPUTER READABLE MEDIUM FOR MANAGING MEDIA STREAMS	US	Granted
Arris Enterprises, Inc.	8332911 B2	12/11/2012	11/775,051	07/09/2007	Method and system for denying cable modem access to a broadband network	US	Granted
Arris Enterprises, Inc.	7,992,168 B2	08/02/2011	11/821,083	06/20/2007	Dynamic zoning for targeted ad insertion	US	Granted
Arris Enterprises, Inc.	8161516	04/17/2012	11/821,084	06/20/2007	Fraud detection in a cable television	US	Granted
Arris Enterprises, Inc.	8,073,951	12/06/2011	11/829,699	07/27/2007	SYSTEM AND METHOD FOR ALLOCATING RESOURCES ACROSS A PLURALITY OF DISTRIBUTED NODES	US	Granted
Arris Enterprises, Inc.	7,698,461	04/13/2010	11/839,115	08/15/2007	Method and apparatus for queuing data flows	US	Granted
Arris Enterprises, Inc.	8155002 B2	04/10/2012	11/859,574	09/21/2007	Method for automatically inflating the receive window size in tcp connections	US	Granted
Arris Enterprises, Inc.	7,953,144	05/31/2011	11/861,263	09/25/2007	METHOD AND SYSTEM FOR DETECTING IMPULSE NOISE IN A BROADBAND COMMUNICATION SYSTEM	US	Granted
Arris Enterprises, Inc.	8316135 B2	11/20/2012	11/937,442	11/08/2007	HIGHLY SCALABLE NETWORK ENVIRONMENT FOR MANAGING REMOTE DEVICES	US	Granted
Arris Enterprises, Inc.	7570127	08/04/2009	11/943,920	11/21/2007	Method and system for spur suppression in modulators	US	Granted
Arris Enterprises, Inc.	8223934 B2	07/17/2012	11/961,898	12/20/2007	Method of restricting use of a packetcable SIP or NCS E-MTA line to fax-only	US	Granted

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ARRIS Solutions, Inc.	8171166B1	05/01/2012	11/967,421	12/31/2007	METHOD AND A COMPUTER PROGRAM PRODUCT FOR MODIFYING OR GENERATING A MULTIPLE PROGRAM TRANSPORT STREAM	US	Granted
Arris Enterprises, Inc.	8166248	04/24/2012	12/001,837	12/12/2007	Caching of information according to popularity	US	Granted
Arris Enterprises, Inc.	8,064,777	11/22/2011	12/001,929	04/16/2008	FOUR QUADRANT LINEARIZER	US	Granted
Arris Enterprises, Inc.	8032650	10/04/2011	12/002,343	12/12/2007	Media stream distribution system	US	Granted
Arris Enterprises, Inc.	7,970,999 B2	06/28/2011	12/009,955	01/22/2008	Cache memory for a scalable information distribution system	US	Granted
Arris Enterprises, Inc.	8,023,274 B2	09/20/2011	12/033,732	02/19/2008	SYSTEM FOR INCREASING ISOLATION BOUNDARY WITHSTAND VOLTAGE	US	Granted
Arris Enterprises, Inc.	8,391,309	03/05/2013	12/034,609	02/20/2008	Method and system for using mnemonic symbols to provision channel attributes with an attribute mask	US	Granted
ARRIS Solutions, Inc.	7,831,729	11/09/2010	12/037,103	02/26/2008	DEVICE AND METHOD FOR MANAGING MULTIPLE VERSIONS OF A SINGLE PROGRAM TRANSPORT STREAM	US	Granted
Arris Enterprises, Inc.	7,894,349	02/22/2011	12/049,109	03/14/2008	METHOD AND SYSTEM FOR TESTING CUSTOMER PREMISE EQUIPMENT DEVICES	US	Granted
Arris Enterprises, Inc.	8036530	10/11/2011	12/052,701	03/20/2008	METHOD AND SYSTEM FOR TRANSPORTING DOCSIS COMMUNICATION SIGNALS OVER A PASSIVE OPTICAL NETWORK	US	Granted

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Arris Enterprises, Inc.	7,873,077	01/18/2011	12/141,789	06/18/2008	SYNCHRONIZING SEPARATED EDGE QAM DEVICES LOCATED REMOTELY FROM A CMTS	US	Granted
ARRIS Solutions, Inc.	8204221	06/19/2012	12/169,671	07/09/2008	MANIPULATING AND ENCRYPTING MEDIA PACKETS	US	Granted
Arris Enterprises, Inc.	8259457 B2	09/04/2012	12/193,630	08/18/2008	Formed shielding feature	US	Granted
ARRIS Solutions, Inc.	8386630	02/26/2013	12/205,878	09/07/2008	Video-Aware P2P Streaming and Download with Support for Real-Time Content Alteration	US	Granted
Arris Enterprises, Inc.	8305928 B2	11/06/2012	12/206,689	09/08/2008	METHOD FOR SUPPORTING MULTIPLE DEVICES FROM A BROADBAND CONNECTION	US	Granted
Arris Enterprises, Inc.	7911543	03/22/2011	12/234,209	09/19/2008	REMOTE CONTROL DEVICE WITH INTEGRATED DISPLAY SCREEN FOR CONTROLLING A DIGITAL VIDEO RECORDER	US	Granted
ARRIS Solutions, Inc.	8355450	01/15/2013	12/248,892	10/09/2008	BUFFER DELAY REDUCTION	US	Granted
Arris Enterprises, Inc.	8136141	03/13/2012	12/258,661	10/27/2008	METHOD AND SYSTEM FOR ALLOCATING BANDWIDTH BASED ON TRANSMISSION POWER OF DEVICES TRANSMITTING OVER COMMUNICATION CHANNELS IN A NETWORK	US	Granted
Arris Enterprises, Inc.	8,379,660	02/19/2013	12/259,295	10/27/2008	METHOD AND SYSTEM FOR SELECTING FROM A PLURALITY OF CONFIGURATION PROFILE RECORDS FOR CHANNEL BONDING OPERATION	US	Granted

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ARRIS Solutions, Inc.	8301776 B2	10/30/2012	12/272,773	11/17/2008	SWITCHED STREAM SERVER ARCHITECTURE	US	Granted
ARRIS Solutions, Inc.	7986702 B1	07/26/2011	12/323,486	11/26/2008	METHOD AND SYSTEM FOR STREAMING MULTIMEDIA TRANSMISSIONS	US	Granted
ARRIS Solutions, Inc.	8291103 B1	10/16/2012	12/324,865	11/27/2008	CPE-RG Additional Functions for IPTV	US	Granted
Arris Enterprises, Inc.	7752564	07/06/2010	12/356,486	01/20/2009	SYSTEM AND METHOD FOR FOCUSED NAVIGATION USING OPTION TYPE FILTERS	US	Granted
Arris Enterprises, Inc.	8127179	02/28/2012	12/396,356	03/02/2009	Providing System Reset Information To Service Provider	US	Granted
ARRIS Solutions, Inc.	8238431 B2	08/07/2012	12/398,208	03/05/2009	METHOD AND SYSTEM FOR RATE REDUCTION OF VIDEO STREAMS	US	Granted
ARRIS Solutions, Inc.	7,999,631 B2	08/16/2011	12/406,045	03/17/2009	Anti-Parallel Pi Pin Attenuator Structure with Improved CSO Performance	US	Granted
ARRIS Solutions, Inc.	8145066 B2	03/27/2012	12/406,094	03/17/2009	PREDISTORTION USING FPGA	US	Granted
ARRIS Solutions, Inc.	7,948,416	05/24/2011	12/406,101	03/17/2009	DIGITAL TO ANALOG CONVERTER SPUR CANCELLATION	US	Granted
ARRIS Solutions, Inc.	8145068 B2	03/27/2012	12/406,107	03/17/2009	DUAL USE OF TEST POINT POWER MONITOR	US	Granted
Arris Enterprises, Inc.	8237767 B2	08/07/2012	12/417,408	04/02/2009	SYSTEM AND METHOD FOR SCREENING VIDEO COMMUNICATIONS WITHIN AN INTERACTIVE TELEVISION SYSTEM	US	Granted
Arris Enterprises, Inc.	8,386,643	02/26/2013	12/419,262	04/06/2009	AUTOMATED DOUBLE FIRMWARE UPGRADE	US	Granted
ARRIS Solutions, Inc.	8260138	09/04/2012	12/420,049	04/07/2009	WAVELENGTH DISTRIBUTION FOR OPTICAL TRANSPORT	US	Granted
Arris Enterprises, Inc.	8300640 B2	10/30/2012	12/426,763	04/20/2009	MULTI-SERVICE PHY BOX	US	Granted

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Arris Enterprises, Inc.	8281333 B2	10/02/2012	12/430,871	04/27/2009	SMART CAROUSEL	US	Granted
Arris Enterprises, Inc.	8,005,095 B2	08/23/2011	12/432,518	04/29/2009	CARRIER ETHERNET OVER DOCSIS	US	Granted
Arris Enterprises, Inc.	8225353	07/17/2012	12/434,369	05/01/2009	Method and Apparatus for Scheduling Broadcast Information	US	Granted
Arris Enterprises, Inc.	8331442 B2	12/11/2012	12/469,144	05/20/2009	Optimal Rate Allocation for a Group of Channels	US	Granted
Arris Enterprises, Inc.	8306058 B2	11/06/2012	12/489,966	06/23/2009	Communication System and Techniques for Transmission from Source to Destination	US	Granted
Arris Enterprises, Inc.	7954125	05/31/2011	12/561,893	09/17/2009	SYSTEM AND METHOD FOR FOCUSED NAVIGATION WITHIN A USER INTERFACE	US	Granted
Arris Enterprises, Inc.	8,396,065	03/12/2013	12/579,026	10/14/2009	Packet Reflection Identification in CPE Devices	US	Granted
ARRIS Solutions, Inc.	8387105	02/26/2013	12/652,080	01/05/2010	METHOD AND A SYSTEM FOR TRANSMITTING VIDEO STREAMS	US	Granted
Arris Enterprises, Inc.	8218438 B1	07/10/2012	12/702,434	02/09/2010	Regulating Traffic Flow in a Network Device	US	Granted
Arris Enterprises, Inc.	7,958,260	06/07/2011	12/719,917	03/09/2010	Method and apparatus for queuing data flows	US	Granted
Arris Enterprises, Inc.	8082005	12/20/2011	12/768,348	04/27/2010	Method and System for Using an Integrated Subscriber Identity Module in a Network Interface Unit	US	Granted
Arris Enterprises, Inc.	8242829 B1	08/14/2012	12/822,725	06/24/2010	Multichannel Interpolator	US	Granted
Arris Enterprises, Inc.	8250603 B1	08/21/2012	12/853,420	08/10/2010	CONTEXT-SENSITIVE INTERACTIVE TELEVISION TICKER	US	Granted
Arris Enterprises, Inc.	8244251 B1	08/14/2012	12/870,936	08/30/2010	Concurrent Call Handover	US	Granted

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Arris Enterprises, Inc.	Allowed	02/19/2013	12/901,904	10/11/2010	Prioritized Channel Scanning	US	Granted
Arris Enterprises, Inc.	8385400	02/26/2013	12/916,300	10/29/2010	ADAPTIVE EQUALIZATION IN THE PRESENCE OF BURST ERRORS	US	Granted
Arris Enterprises, Inc.	8300156 B2	10/30/2012	13/069,021	03/22/2011	Remote Control Device with Integrated Display Screen for Controlling a Digital Video Recorder	US	Granted
Arris Enterprises, Inc.	8,418,216	04/09/2013	13/118,482	05/30/2011	FORECASTING AND CABLE TELEVISION NETWORK - PLANNING OF NARROWCAST SERVICES	US	Granted
Arris Enterprises, Inc.	D464,643	10/22/2002	29/133,149	11/24/2000	Outdoor Communications Cabinet	US	Granted
Arris Enterprises, Inc.	D464,043	10/08/2002	29/133,162	11/24/2000	Indoor Communications Panel	US	Granted
Arris Enterprises, Inc.	D464,956	10/29/2002	29/133,163	11/24/2000	Outdoor Communications Panel	US	Granted
Arris Enterprises, Inc.	D465,215	11/05/2002	29/133,180	11/24/2000	Indoor Communications Cabinet	US	Granted
Arris Enterprises, Inc.	D462,339	09/03/2002	29/134,574	12/22/2000	REMOTE CONTROL	US	Granted
Arris Enterprises, Inc.	D462,340	09/03/2002	29/135,795	01/18/2001	REMOTE CONTROL	US	Granted
Arris Enterprises, Inc.	D463,444	06/24/2002	29/136,190	01/25/2001	USER INTERFACE DESIGN FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D469,104	01/21/2003	29/136,191	01/25/2001	USER INTERFACE FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D450,058	11/06/2001	29/136,192	01/25/2001	User interface for a television display screen	US	Granted
Arris Enterprises, Inc.	D453,768	02/19/2002	29/136,194	01/25/2001	User interface design for a television display screen	US	Granted

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Arris Enterprises, Inc.	D486,834	02/17/2004	29/136,195	01/25/2001	USER INTERFACE FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D453,936	02/26/2002	29/136,196	01/25/2001	User interface for a television display screen	US	Granted
Arris Enterprises, Inc.	D450,324	11/13/2001	29/136,197	01/25/2001	User interface for a television display screen	US	Granted
Arris Enterprises, Inc.	D490,086	05/18/2004	29/136,198	01/25/2001	USER INTERFACE DESIGN FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D450,711	11/20/2001	29/136,199	01/25/2001	User interface for a television display screen	US	Granted
Arris Enterprises, Inc.	D453,767	02/19/2002	29/136,200	01/25/2001	User interface for a television display screen	US	Granted
Arris Enterprises, Inc.	D478,595	08/19/2003	29/136,202	01/25/2001	USER INTERFACE DESIGN FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D468,274	01/07/2003	29/141,613	05/09/2001	REMOTE CONTROL	US	Granted
Arris Enterprises, Inc.	D462,333	09/03/2002	29/142,447	05/25/2001	REMOTE CONTROL	US	Granted
Arris Enterprises, Inc.	D480,733	10/14/2003	29/143,969	06/22/2001	USER INTERFACE FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D476,994	07/08/2003	29/143,970	06/22/2001	USER INTERFACE FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D465,227	11/05/2002	29/144,017	06/22/2001	USER INTERFACE FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D469,105	01/21/2003	29/144,018	06/22/2001	USER INTERFACE FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D474,197	05/06/2003	29/148,625	09/24/2001	USER INTERFACE DESIGN FOR A TELEVISION DISPLAY SCREEN	US	Granted

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Arris Enterprises, Inc.	D475,718	06/10/2003	29/148,723	09/26/2001	USER INTERFACE DESIGN FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D478,912	08/26/2003	29/148,763	09/26/2001	USER INTERFACE DESIGN FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D470,152	02/11/2003	29/148,948	09/28/2001	USER INTERFACE FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D470,153	02/11/2003	29/148,955	09/27/2001	USER INTERFACE DESIGN FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D469,443	01/28/2003	29/151,137	11/01/2001	USER INTERFACE DESIGN FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D478,090	08/05/2003	29/161,708	06/03/2002	USER INTERFACE FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D496,665	09/28/2004	29/169,604	10/23/2002	USER INTERFACE DESIGN FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D494,186	08/10/2004	29/169,605	10/23/2002	USER INTERFACE DESIGN FOR A TELEVISION DISPLAY SCREEN	US	Granted
Arris Enterprises, Inc.	D493,165	07/20/2004	29/172,071	12/05/2002	CABLE MODEM	US	Granted
Arris Enterprises, Inc.	D489,678		29/175,893	02/12/2003	Battery Cartridge	US	Granted
Arris Enterprises, Inc.	D512,371	12/06/2005	29/186,209	07/11/2003	BATTERY CARTRIDGE	US	Granted
Arris Enterprises, Inc.	D510,721	10/18/2005	29/191,664	10/10/2003	BATTERY CARTRIDGE	US	Granted



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Arris Enterprises, Inc. and Alcatel Lucent	5,805,804 C1	09/15/2009	90/008,536	03/22/2007	METHOD AND APPARATUS FOR SCALABLE, HIGH BANDWIDTH STORAGE RETRIEVAL AND TRANSPORTATION OF MULTIMEDIA DATA ON A NETWORK	US	Granted
Arris Enterprises, Inc.	8412942 B2	04/02/2013	12/018,033	01/22/2008	Method and system for seamless SSID creation, authentication and encryption	US	Granted
General Instrument Corporation	NA	NA	13/228084	09/08/2011	SCROLLING DEVICE COLLECTION ON AN INTERFACE	US	Filed
General Instrument Corporation	NA	NA	13/228103	09/08/2011	DISPLAY OF DEVICES ON AN INTERFACE BASED ON A CONTEXTUAL EVENT	US	Filed
General Instrument Corporation	NA	NA	13/228113	09/08/2011	DEVICE CLUSTERING ON AN INTERFACE BASED ON CONTROLLABLE FEATURES	US	Filed
General Instrument Corporation	NA	NA	13/277254	10/20/2011	USE OF DISCRETE INPUT TO CONTROL CONTROLLABLE DEVICE	US	Filed
General Instrument Corporation	NA	NA	13/277258	10/20/2011	DISPLAY OF CONTROLLABLE ATTRIBUTES FOR A CONTROLLABLE ITEM BASED ON CONTEXT	US	Filed
4HomeMedia, Inc.	8271575	09/18/2012	12/047191	03/12/2008	INTERACTION AMONG ITEMS CONNECTED TO A NETWORK	US	Granted
General Instrument Corporation	NA	NA	13/597937	NA	INTERACTION AMONG ITEMS CONNECTED TO A NETWORK	US	Filed
4Home, Inc.	NA	NA	12/711026	02/23/2010	DYNAMIC RESOURCE LOAD REDUCTION	US	Filed
General Instrument Corporation	NA	NA	12/203701	09/03/2008	FAST CHANNEL SWITCHING FOR DIGITAL TV	US	Filed

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General Instrument Corporation	NA	NA	12/722227	03/11/2010	METHOD AND SYSTEM FOR INHIBITING AUDIO-VIDEO SYNCHRONIZATION DELAY	US	Filed
General Instrument Corporation	8166499	04/24/2012	10/926706	08/26/2004	METHOD, APPARATUS AND SET-TOP DEVICE FOR TRANSMITTING CONTENT TO A RECEIVER	US	Granted
General Instrument Corporation	NA	NA	10/615702	07/09/2003	DVD CONVERSION FOR ON DEMAND	US	Filed
General Instrument Corporation	7289007	10/30/2007	10/757190	01/14/2004	TEMPERATURE COMPENSATED VARIABLE TILT EQUALIZER	US	Granted
General Instrument Corporation	D508898	08/30/2005	D199220	02/11/2004	SET-TOP ENCLOSURE	US	Granted
General Instrument Corporation	D514096	01/31/2006	D200220	02/25/2004	BROADBAND ROUTER ENCLOSURE AND BASE	US	Granted
General Instrument Corporation	D509824	09/20/2005	D210771	08/05/2004	ENCLOSURE FOR WIRELESS DEVICE	US	Granted
General Instrument Corporation	D518035	03/28/2006	D200528	03/04/2004	BASE FOR BROADBAND ROUTER ENCLOSURE	US	Granted
General Instrument Corporation	6980357	12/27/2005	10/779560	02/13/2004	OPTICAL AMPLIFIER APPARATUS AND METHOD	US	Granted
General Instrument Corporation	7119948	10/10/2006	11/249250	10/13/2005	OPTICAL AMPLIFIER APPARATUS AND METHOD	US	Granted
General Instrument Corporation	7911946	03/22/2011	10/991023	11/17/2004	METHOD AND APPARATUSES FOR USING PACKET DATA TO MANAGE A DATA STREAM IN A BROADBAND COMMUNICATION SYSTEM	US	Granted

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General Instrument Corporation	NA	NA	13/027934	NA	METHOD AND APPARATUS FOR ACHIEVING BROADBAND MATCHING OF NARROW-BAND RESONATOR FILTER IMPEDANCES TO LOADS AND SOURCES	US	Filed
General Instrument Corporation	D521991	05/30/2006	D204579	04/30/2004	PORTION OF A FRONT PANEL FOR AN ELECTRONIC DEVICE	US	Granted
General Instrument Corporation	NA	NA	10/836725	04/29/2004	DEVICE AND METHOD TO AUTOMATICALLY CONFIGURE PORT FORWARDING	US	Filed
General Instrument Corporation	5907552	05/25/1999	08/706573	09/05/1996	FTTC INTERFACE CIRCUITRY AS A PHYSICAL LAYER ENTITY	US	Granted
General Instrument Corporation	5982972	11/09/1999	08/920926	08/29/1997	LINE CARD FOR OPTICAL NETWORK UNIT MECHANICAL ENCLOSURE	US	Granted
General Instrument Corporation	6487262	11/26/2002	08/794791	02/04/1997	SYNCHRONIZATION AND DOWNCONVERSION IN TDM/TDMA SYSTEMS	US	Granted
General Instrument Corporation	D404018	01/12/1999	D071581	05/30/1997	HOUSING FOR ELECTRONIC COMPONENTS	US	Granted
General Instrument Corporation	D414496	09/28/1999	D079335	05/30/1997	HOUSING FOR ELECTRONIC COMPONENTS	US	Granted
General Instrument Corporation	D409582	05/11/1999	D079333	05/30/1997	MULTIPLE DWELLING UNIT COMMUNICATION ENCLOSURE	US	Granted
General Instrument Corporation	D414497	09/28/1999	D079340	05/30/1997	UNIVERSAL SERVICES ACCESS MULTIPLEXER ENCLOSURE	US	Granted
General Instrument Corporation	D418515	01/04/2000	D079334	05/30/1997	COMMUNICATION EQUIPMENT ENCLOSURE	US	Granted

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General Instrument Corporation	6385253	05/07/2002	09/459755	12/10/1999	METHOD AND APPARATUS FOR RELIABLE RECEPTION OF VDSL SIGNALS	US	Granted
General Instrument Corporation	6154020	11/28/2000	09/205639	12/03/1998	TEST CIRCUIT AND METHOD FOR DETERMINING THE OPERATING STATUS OF A COAXIAL CABLE	US	Granted
General Instrument Corporation	6700927	03/02/2004	09/521914	03/09/2000	METHOD FOR ESTABLISHING AND ADAPTING COMMUNICATION LINK PARAMETERS IN XDSL TRANSMISSION SYSTEMS.	US	Granted
General Instrument Corporation	7109831	09/19/2006	10/853316	05/25/2004	SYSTEM AND METHOD FOR A REMOVABLE TUNER MODULE	US	Granted
General Instrument Corporation	D509490	09/13/2005	D202468	03/31/2004	CONSUMER ELECTRONIC PRODUCT	US	Granted
General Instrument Corporation	D512995	12/20/2005	D202805	04/05/2004	FRONT BEZEL FOR CONSUMER ELECTRONIC PRODUCT	US	Granted
General Instrument Corporation	7877064	01/25/2011	10/978602	11/01/2004	METHODS, APPARATUS AND SYSTEMS FOR TERRESTRIAL WIRELESS BROADCAST OF DIGITAL DATA TO STATIONARY RECEIVERS	US	Granted
General Instrument Corporation	7274409	09/25/2007	10/909504	08/02/2004	DYNAMICALLY CONTROLLED TUNER AGC ATTACK POINT	US	Granted
General Instrument Corporation	7512182	03/31/2009	10/929976	08/30/2004	METHOD AND APPARATUS FOR PERFORMING MOTION COMPENSATED TEMPORAL FILTERING IN VIDEO ENCODING	US	Granted
General Instrument Corporation	8160161	04/17/2012	12/233315	09/18/2008	METHOD AND APPARATUS FOR PERFORMING MOTION COMPENSATED TEMPORAL FILTERING IN VIDEO ENCODING	US	Granted

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General Instrument Corporation	D532414	11/21/2006	D220344	12/29/2004	WIRELESS VERTICAL ENCLOSURE	US	Granted
General Instrument Corporation	D520500	05/09/2006	D220355	12/29/2004	WIRELESS ENCLOSURE	US	Granted
General Instrument Corporation	D511510	11/15/2005	29/210302	07/29/2004	CORDLESS TELEPHONE BASE	US	Granted
General Instrument Corporation	D513411	01/03/2006	D210328	07/29/2004	CORDLESS TELEPHONE BASE	US	Granted
General Instrument Corporation	D529476	10/03/2006	D220358	12/29/2004	CORDLESS PHONE HANDSET	US	Granted
General Instrument Corporation	D514081	01/31/2006	D210246	07/29/2004	CORDLESS TELEPHONE BASE	US	Granted
General Instrument Corporation	D515529	02/21/2006	D210301	07/29/2004	CORDLESS TELEPHONE HANDSET	US	Granted
General Instrument Corporation	D514544	02/07/2006	D210303	07/29/2004	CORDLESS TELEPHONE BASE	US	Granted
General Instrument Corporation	D535970	01/30/2007	D228868	04/29/2005	TELEPHONE BASE	US	Granted
General Instrument Corporation	7236504	06/26/2007	11/030860	01/07/2005	STRETCHED-PULSE RAMAN FIBER LASERS AND METHODS OF OPERATING THE SAME	US	Granted
General Instrument Corporation	7227477	06/05/2007	11/289923	11/30/2005	METHOD AND APPARATUS FOR PERFORMING SAMPLE RATE CONVERSION	US	Granted
General Instrument Corporation	7400866	07/15/2008	11/036467	01/14/2005	METHODS AND APPARATUS FOR CALIBRATING AND CONTROLLING OUTPUT POWER LEVELS IN A BROADBAND COMMUNICATION SYSTEM	US	Granted
General Instrument Corporation	D524280	07/04/2006	D224510	03/03/2005	TELEPHONE HANDSET	US	Granted

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General Instrument Corporation	D530302	10/17/2006	D224515	03/03/2005	BASE FOR CORDLESS TELEPHONE WITH ANSWERING DEVICE	US	Granted
General Instrument Corporation	D525233	07/18/2006	D224501	03/03/2005	BASE FOR CORDLESS TELEPHONE WITH ANSWERING DEVICE	US	Granted
General Instrument Corporation	D524282	07/04/2006	D224551	03/03/2005	BASE FOR CORDLESS TELEPHONE WITH ANSWERING DEVICE	US	Granted
General Instrument Corporation	D524789	07/11/2006	D224516	03/03/2005	BASE FOR CORDLESS TELEPHONE WITH ANSWERING DEVICE	US	Granted
General Instrument Corporation	D528979	09/26/2006	D224527	03/03/2005	BASE FOR CORDLESS TELEPHONE CHARGER	US	Granted
General Instrument Corporation	D521927	05/30/2006	D224542	03/04/2005	BASE FOR CORDLESS TELEPHONE CHARGER	US	Granted
General Instrument Corporation	D527719	09/05/2006	D224513	03/03/2005	TELEPHONE HANDSET	US	Granted
General Instrument Corporation	D524281	07/04/2006	D224518	03/03/2005	TELEPHONE HEADSET	US	Granted
General Instrument Corporation	D532003	11/14/2006	D224517	03/03/2005	TELEPHONE HANDSET CLIP	US	Granted
General Instrument Corporation	D524284	11/14/2006	D224512	03/03/2005	BASE FOR CORDLESS TELEPHONE	US	Granted
General Instrument Corporation	D524283	07/04/2006	D224511	03/03/2005	BASE FOR CORDLESS TELEPHONE	US	Granted
General Instrument Corporation	D534938	01/09/2007	D224514	03/03/2005	CORDLESS CAMERA TELEPHONE	US	Granted
General Instrument Corporation			11/207843	08/19/2005	METHOD AND APPARATUS FOR WIDE DYNAMIC RANGE REDUCTION	US	Filed
General Instrument Corporation	D537806	03/06/2007	D245088	12/19/2005	CELL PHONE DOCKING MODULE	US	Granted
General Instrument Corporation	D562813	02/26/2008	D245060	12/16/2005	ENCLOSURE FOR A WIRELESS DEVICE	US	Granted

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General Instrument Corporation	8340098	12/25/2012	11/295967	12/07/2005	METHOD AND APPARATUS FOR DISTRIBUTING COMPRESSED VIDEO TO SUBSCRIBER TERMINALS	US	Granted
General Instrument Corporation	D542242	05/08/2007	D244259	12/07/2005	SET TOP BOX	US	Granted
General Instrument Corporation	D556705	12/04/2007	D244217	12/07/2005	SET TOP BOX	US	Granted
General Instrument Corporation	7233344	06/19/2007	11/208312	08/19/2005	VIDEOPHONE HOUSING ASSEMBLY HAVING A FOLDABLE DISPLAY SUPPORT	US	Granted
General Instrument Corporation	D558165	12/25/2007	D244255	12/07/2005	COLLAPSIBLE VIDEOPHONE	US	Granted
General Instrument Corporation	D536347	02/06/2007	D244261	12/07/2005	DIGITAL AUDIO PLAYER	US	Granted
General Instrument Corporation	8345557	01/01/2013	11/171066	6/30/2005	AUTOMATED MONITORING OF A NETWORK	US	Granted
General Instrument Corporation	8116360	02/14/2012	11/240114	09/30/2005	METHOD AND APPARATUS FOR PREVENTING LOSS OF SERVICE FROM HARDWARE FAILURE IN A NETWORK	US	Granted
General Instrument Corporation	7610034	10/27/2009	11/252509	10/18/2005	METHOD AND APPARATUS FOR SELECTION OF DESIGN PARAMETERS FOR DOUBLE CONVERSION TUNER TO PREVENT RADIATED IMMUNITY DEGRADATION	US	Granted
General Instrument Corporation	7668195	02/23/2010	11/152764	06/14/2005	METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING DATA OVER A SHARED ACCESS CARRIER NETWORK	US	Granted

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General Instrument Corporation	7856222	12/21/2010	11/291725	12/01/2005	INTEGRATED BALUN AND COUPLER TRANSFORMER	US	Granted
General Instrument Corporation	NA	NA	11/316129	NA	METHOD AND APPARATUS FOR ENCODING A DATA STREAM FOR TRANSMISSION ACROSS BONDED CHANNELS	US	Filed
General Instrument Corporation	7697066	04/13/2010	11/287816	11/28/2005	METHOD AND APPARATUS FOR DETECTING DATA IN A VERTICAL BLANKING INTERVAL	US	Granted
General Instrument Corporation	7987504	07/26/2011	11/315858	12/22/2005	SYSTEM AND METHOD FOR ROUTING SIGNALS INTENDED FOR ONE DEVICE THROUGH ANOTHER DEVICE CONNECTED TO A SHARED ACCESS NETWORK	US	Granted
General Instrument Corporation	D535276	01/16/2007	D243893	12/01/2005	CORDLESS TELEPHONE HANDSET	US	Granted
General Instrument Corporation	D538774	03/20/2007	D243898	12/01/2005	CORDLESS TELEPHONE HANDSET	US	Granted
General Instrument Corporation	NA	NA	11/288797	11/29/2005	IP MULTICAST MANAGEMENT AND SERVICE PROVISION SYSTEM AND METHOD	US	Filed
General Instrument Corporation	NA	NA	11/321404	12/29/2005	METHOD AND APPARATUS FOR GLITCHLESS FAILOVER TO REDUNDANT VIDEO STREAM	US	Filed
General Instrument Corporation	D542784	05/15/2007	D244239	12/07/2005	VoIP CORDLESS TELEPHONE BASE	US	Granted
General Instrument Corporation	7904050	03/08/2011	11/302464	12/13/2005	MIXER APPARATUS HAVING SWITCHABLE LOCAL OSCILLATOR INPUTS	US	Granted



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General Instrument Corporation	NA	NA	12/342640	12/23/2008	METHOD AND APPARATUS FOR REPLACING A BLACKED OUT PROGRAM IN A SEAMLESS MANNER	US	Filed
General Instrument Corporation	8189683	05/29/2012	11/564076	11/28/2006	METHOD AND SYSTEM FOR PROVIDING SINGLE CYCLE CONTEXT WEIGHT UPDATE LEVERAGING CONTEXT ADDRESS LOOK AHEAD	US	Granted
General Instrument Corporation	D562303	02/19/2008	D250569	11/21/2006	PHONE BASE	US	Granted
General Instrument Corporation	NA	NA	11/316236	12/22/2005	METHOD AND APPARATUS FOR PROVIDING BROADCAST TRIGGER MESSAGES	US	Filed
General Instrument Corporation	NA	NA	11/764292	06/18/2007	METHOD AND APPARATUS FOR USE IN A DOWNLOADABLE CONDITIONAL ACCESS SYSTEM	US	Filed
General Instrument Corporation	D563941	03/11/2008	D280115	05/17/2007	CORDLESS PHONE	US	Granted
General Instrument Corporation	7211743	05/01/2007	11/302778	12/14/2005	APPARATUS FOR SUPPORTING PRINTED WIRING ASSEMBLIES IN A DEVICE HOUSING	US	Granted
General Instrument Corporation	8335256	12/18/2012	12/271443	11/14/2008	MOTION COMPENSATION IN VIDEO CODING	US	Granted
General Instrument Corporation	D549190	08/21/2007	D245961	12/30/2005	SET TOP BOX	US	Granted
General Instrument Corporation	D549191	08/21/2007	D245976	12/30/2005	SET TOP BOX	US	Granted
General Instrument Corporation	NA	NA	11/608028	12/07/2006	METHOD AND APPARATUS FOR DETERMINING MICRO-REFLECTIONS IN A NETWORK	US	Filed

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General Instrument Corporation	NA	NA	11/610177	12/13/2006	METHOD AND APPARATUS FOR DETERMINING THE DYNAMIC RANGE OF AN OPTICAL LINK IN AN HFC NETWORK	US	Filed
General Instrument Corporation	NA	NA	11/956663	12/14/2007	METHOD AND APPARATUS FOR DETERMINING A TRANSPORT BIT RATE FOR A MULTIPROGRAM TRANSPORT STREAM	US	Filed
General Instrument Corporation	D546785	07/17/2007	29/254944	03/02/2006	SET TOP BOX	US	Granted
General Instrument Corporation	D568303	05/06/2008	29/255157	03/03/2006	SET TOP BOX STAND	US	Granted
General Instrument Corporation	D561731	02/12/2008	29/250574	11/21/2006	PHONE BASE	US	Granted
General Instrument Corporation	D568310	05/06/2008	29/250571	11/21/2006	VOICE OVER INTERNET PROTOCOL BASE	US	Granted
General Instrument Corporation	NA	NA	11/928440	10/30/2007	METHOD AND APPARATUS FOR SELECTING A CODING MODE	US	Filed
General Instrument Corporation	D570819	06/10/2008	29/250705	11/28/2006	DOCKING MODULE	US	Granted
General Instrument Corporation	6215374	04/10/2001	09/039988	03/16/1998	MAGNETICALLY COUPLED RESONATORS FOR ACHIEVING LOW COST NARROW BAND PASS FILTERS HAVING HIGH SELECTIVITY, LOW INSERTION LOSS AND IMPROVED OUT-OF-BAND REJECTION	US	Granted

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General Instrument Corporation	7078987	07/18/2006	09/408826	09/29/1999	NARROW BAND-PASS TUNED RESONATOR FILTER TOPOLOGIES HAVING HIGH SELECTIVITY, LOW INSERTION LOSS AND IMPROVED OUT-OF-BAND REJECTION OVER EXTENDED FREQUENCY RANGES	US	Granted
General Instrument Corporation	7075389	07/11/2006	09/580504	05/25/2000	METHOD AND APPARATUS FOR ACHIEVING BROADBAND MATCHING OF NARROW-BAND RESONATOR FILTER IMPEDANCES TO LOADS AND SOURCES	US	Granted
General Instrument Corporation	6580330	06/17/2003	09/665559	09/19/2000	INJECTION LOCKED OSCILLATOR AUTOMATIC FREQUENCY CENTERING METHOD AND APPARATUS	US	Granted
General Instrument Corporation	6724178	04/20/2004	09/464014	12/15/1999	MEASURING COMPOSITE DISTORTION USING A COHERENT MULTICARRIER SIGNAL GENERATOR	US	Granted
General Instrument Corporation	6847255	01/25/2005	09/872143	06/01/2001	ZERO IF COMPLEX QUADRATURE FREQUENCY DISCRIMINATOR AND FM DEMODULATOR	US	Granted
General Instrument Corporation	6982592	01/25/2005	11/004992	NA	ZERO IF COMPLEX QUADRATURE FREQUENCY DISCRIMINATOR AND FM DEMODULATOR	US	Granted

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General Instrument Corporation	7386286	06/10/2008	11/220399	09/07/2005	HIGH FREQUENCY LOW NOISE PHASE-FREQUENCY DETECTOR AND PHASE NOISE REDUCTION METHOD AND APPARATUS	US	Granted
General Instrument Corporation	7005919	02/28/2006	10/518577	05/13/2005	EVEN ORDER DISTORTION ELIMINATION IN PUSH-PULL OR DIFFERENTIAL AMPLIFIERS AND CIRCUITS	US	Granted
General Instrument Corporation	7061317	06/13/2006	11/197318	08/05/2005	EVEN ORDER DISTORTION ELIMINATION IN PUSH-PULL OR DIFFERENTIAL AMPLIFIERS AND CIRCUITS	US	Granted
General Instrument Corporation	NA	NA	11/690217	03/23/2007	METHOD AND APPARATUS FOR CONFIGURING LOGICAL CHANNELS IN A NETWORK	US	Filed
General Instrument Corporation	8279764	10/02/2012	11/752039	05/22/2007	METHOD AND APPARATUS FOR SELECTING A NETWORK ELEMENT FOR TESTING A NETWORK	US	Granted
General Instrument Corporation	D562797	02/26/2008	29/250572	11/21/2006	PHONE BASE	US	Granted
General Instrument Corporation	8154656	04/10/2012	12/345128	12/29/2008	CAPTURE BUFFER CONTROL METHODOLOGY FOR CAPTION CARRIAGE SWITCH	US	Granted
General Instrument Corporation	NA	NA	11/562517	11/22/2006	METHOD AND APPARATUS FOR DETECTING FIELD ORDER IN INTERLACED MATERIAL	US	Filed

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General Instrument Corporation	NA	NA	11/957750	12/17/2007	METHOD AND APPARATUS FOR SELECTING A CODING MODE	US	Filed
General Instrument Corporation	D549193	08/21/2007	29/250139	11/03/2006	ENCLOSURE FOR A SET-TOP BOX	US	Granted
General Instrument Corporation	8213499	07/03/2012	11/696566	04/04/2007	METHOD AND APPARATUS FOR CONTEXT ADDRESS GENERATION FOR MOTION VECTORS AND COEFFICIENTS	US	Granted
General Instrument Corporation	8387011	02/26/2013	11/831347	07/31/2007	METHOD AND APPARATUS FOR A DYNAMIC AND REAL-TIME CONFIGURABLE SOFTWARE ARCHITECTURE FOR MANUFACTURING PERSONALIZATION	US	Granted
General Instrument Corporation	NA	NA	11/959198	12/18/2007	ESTIMATING COMPLEXITY OF VIDEO FRAMES FOR ENCODING	US	Filed
General Instrument Corporation	NA	NA	11/621357	01/09/2007	BROADBAND LOW NOISE COMPLEX REGENERATIVE FREQUENCY DIVIDERS	US	Filed
General Instrument Corporation	8139720	03/20/2012	11/740693	04/26/2007	METHOD AND APPARATUS FOR PROVIDING A SOFT CLOCK RE-SYNC FOR SUBSCRIBER LINE INTERFACE CARDS	US	Granted
General Instrument Corporation	NA	NA	11/555341	11/01/2006	SMALL FORM PLUGGABLE ANALOG OPTICAL TRANSMITTER	US	Filed
General Instrument Corporation	D580406	11/11/2008	29/250706	11/28/2006	CORDLESS PHONE	US	Granted
General Instrument Corporation	8275817	09/25/2012	11/737384	04/19/2007	BROADBAND LOW NOISE COMPLEX FREQUENCY MULTIPLIERS	US	Granted

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General Instrument Corporation	NA	NA	11/940761	11/15/2007	METHOD AND APPARATUS FOR PERFORMING MOTION ESTIMATION	US	Filed
General Instrument Corporation	NA	NA	11/962914	12/21/2007	METHOD AND APPARATUS FOR SELECTING A CODING MODE FOR A BLOCK	US	Filed
General Instrument Corporation	8174337	05/08/2012	11/831136	07/31/2007	RADIO FREQUENCY SWITCH FOR USE IN SATELLITE RECEIVERS	US	Granted
General Instrument Corporation	NA	NA	11/963175	12/21/2007	RF/IP VIRTUAL CHANNEL MAPPING FOR A DIGITAL VIDEO RECEIVER	US	Filed
General Instrument Corporation	7495484	02/24/2009	11/830445	07/30/2007	PROGRAMMABLE FREQUENCY MULTIPLIER	US	Granted
General Instrument Corporation	NA	NA	11/613295	12/20/2006	ACTIVE LINK CABLE MESH	US	Filed
General Instrument Corporation	8369820	02/05/2013	11/850374	09/05/2007	FREQUENCY MULTIPLIER DEVICE	US	Granted
General Instrument Corporation	D562302	02/19/2008	29/275444	12/27/2006	PHONE BASE	US	Granted
General Instrument Corporation	D553116	10/16/2007	29/250704	11/28/2006	PHONE HANDSET	US	Granted
General Instrument Corporation	NA	NA	11/616951	12/28/2006	RETURN DATA PATH IN AN HFC NETWORK	US	Filed
General Instrument Corporation	NA	NA	11/612792	12/19/2006	ADMITTING A DATA FILE INTO A CHANNEL	US	Filed
General Instrument Corporation	NA	NA	12/346952	12/31/2008	ACQUIRING CABLE CHANNEL MAP INFORMATION IN A CABLE RECEIVER	US	Filed
General Instrument Corporation	NA	NA	12/342223	12/23/2008	REFERENCE PICTURE SELECTION FOR SUB-PIXEL MOTION ESTIMATION	US	Filed

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General Instrument Corporation	NA	NA	11/962986	12/21/2007	ENABLILNG TRICK PLAYS DURING VBR PLAYBACK OF A CBR TRANSMITTED MEDIA FILE	US	Filed
General Instrument Corporation	7783197	08/24/2010	11/751997	05/22/2007	METHOD AND APPARATUS FOR REDUCING CROSSTALK IN A DWDM TRANSMISSION SYSTEM	US	Granted
General Instrument Corporation	8391723	03/05/13	12/482629	06/11/2009	RAMAN BACKPUMPED NEAR-ZERO DISPERSION CWDM SYSTEM AND METHOD	US	Granted
General Instrument Corporation	8406284	03/26/13	11/842660	08/21/2007	RECEIVER WITH ADAPTIVE EQUALIZER	US	Granted
General Instrument Corporation	D569377	05/20/2008	29/250941	12/06/2006	KEYBOARD	US	Granted
General Instrument Corporation	D568298	05/06/2008	29/250942	12/06/2006	REMOTE CONTROL	US	Granted
General Instrument Corporation	8406629	03/26/2013	11/942262	11/19/2007	ARCHITECTURE TO COMMUNICATE WITH STANDARD HYBRID FIBER COAXIAL RF SIGNALS OVER A PASSIVE OPTICAL NETWORK (HFC PON)	US	Granted
General Instrument Corporation	NA	NA	11/681965	03/05/2007	METHOD AND APPARATUS FOR PROVIDING A DIGITAL RIGHTS MANAGEMENT ENGINE	US	Filed
General Instrument Corporation	NA	NA	11/962845	12/21/2007	METHODS AND SYSTEM FOR PROCESSING TIME-BASED CONTENT	US	Filed
Broadbus Technologies, Inc.	5502601	03/26/1999	08/338899	11/14/1994	HIGH SPEED RECORDED INFORMATION DUPLICATING EQUIPMENT	US	Granted

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Broadbus Technologies, Inc.	5900830	05/04/1999	08/446449	05/22/1995	SYSTEM FOR CUSTOM RECORDING	US	Granted
General Instrument Corporation	NA	NA	10/730365	NA	METHODS AND APPARATUS FOR TIME-BASED CONTENT	US	Filed
Broadbus Technologies, Inc.	NA	NA	11/605514	11/28/2006	CONTENT DISTRIBUTION AND SWITCHING AMONGST DATA STREAMS	US	Filed
Broadbus Technologies, Inc.	NA	NA	11/258524	10/25/2005	METHODS AND SYSTEM TO OFFLOAD DATA PROCESSING TASKS	US	Filed
General Instrument Corporation	7621780	11/24/2009	12/026835	02/06/2008	SHIELDING DEVICE AND METHOD FOR ELECTRICAL CONNECTORS	US	Granted
General Instrument Corporation	NA	NA	11/859862	09/24/2007	METHOD AND APPARATUS FOR DELIVERING ENCRYPTED ON-DEMAND CONTENT WITHOUT USE OF AN APPLICATION DEFINED PROTOCOL	US	Filed
General Instrument Corporation	D559240	01/08/2008	29/278331	03/26/2007	FACE PLATE FOR A SET TOP BOX	US	Granted
General Instrument Corporation	D559241	01/08/2008	29/278332	03/26/2007	FACE PLATE FOR A SET TOP BOX	US	Granted
General Instrument Corporation	D572674	07/08/2008	29/278333	03/26/2007	SET TOP BOX	US	Granted
General Instrument Corporation	8265559	09/11/2012	12/022249	01/30/2008	METHOD AND APPARATUS FOR DETERMINING MODULATION LEVELS THAT ARE SUPPORTED ON A CHANNEL	US	Granted
General Instrument Corporation	8165209	04/24/2012	11/859813	09/24/2007	METHOD AND APPARATUS FOR PROVIDING A FAST MOTION ESTIMATION PROCESS	US	Granted



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General Instrument Corporation	NA	NA	11/954169	12/11/2007	UNIFYING USER INTERFACE FOR A SET-TOP BOX	US	Filed
General Instrument Corporation	8171527	05/01/2012	11/768523	06/26/2007	METHOD AND APPARATUS FOR SECURING UNLOCK PASSWORD GENERATION AND DISTRIBUTION	US	Granted
General Instrument Corporation	NA	NA	11/927975	10/30/2007	METHOD, DEVICE AND SYSTEM FOR DYNAMICALLY EMBEDDING WATERMARK INFORMATION INTO MULTIMEDIA CONTENT	US	Filed
General Instrument Corporation	NA	NA	11/960562	12/19/2007	METHOD AND APPARATUS FOR DEFERRING TRANSMISSION OF AN SDV PROGRAM TO CONSERVE NETWORK RESOURCES	US	Filed
General Instrument Corporation	NA	NA	11/960414	NA	METHOD AND APPARATUS FOR SCHEDULING A RECORDING OF AN UPCOMGIN SDV PROGRAM DELIVERABLE OVER A CONTENT DELIVERY SYSTEM	US	Filed
General Instrument Corporation	8254779	08/28/2012	11/836526	12/19/2007	FIELD-CONFIGURABLE OPTICAL NETWORK TERMINAL DEVICE	US	Granted
General Instrument Corporation	NA	NA	11/769012	06/27/2007	METHOD AND APPARATUS FOR DELIVERING PROGRAMMING CODE OBJECTS TO SET-TOP TERMINALS AND THE LIKE	US	Filed

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General Instrument Corporation	8214630	07/03/2012	12/391488	02/24/2009	APPARATUS AND METHOD FOR CONTROLLING ENABLEMENT OF JTAG INTERFACE	US	Granted
General Instrument Corporation	NA	NA	12/023399	01/31/2008	METHOD AND APPARATUS FOR EXPEDITING DELIVERY OF PROGRAMMING CONTENT OVER A BROADBAND NETWORK	US	Filed
General Instrument Corporation	NA	NA	11/843335	08/22/2007	METHOD AND APPARATUS FOR PROVIDING A SECURE TRICK PLAY	US	Filed
General Instrument Corporation	NA	NA	12/428625	04/23/2009	DIGITAL VIDEO RECORDER RECORDING AND RENDERING PROGRAMS FORMED FROM SPLICED SEGMENTS	US	Filed
General Instrument Corporation	8196165	06/05/2012	12/110422	04/28/2008	METHOD AND APPARATUS FOR DELIVERING EMERGENCY ALERT SYSTEM (EAS) MESSAGES OVER A SWITCHED DIGITAL VIDEO (SDV) SYSTEM	US	Granted
General Instrument Corporation	7693366	04/06/2010	12/142925	06/20/2008	ALIGNED NARROWBAND OPTICAL FILTERS HAVING FLAT PASSBANDS AND COMPRISING OFFSET CASCADED BRAODBAND OPTICAL FILTERS	US	Granted
General Instrument Corporation	8046015	10/25/2011	11/836942	08/10/2007	ADAPTIVE TUNING TO IMPROVE DEMODULATOR PERFORMANCE	US	Granted

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General Instrument Corporation	8401075	03/19/2013	12/346921	12/31/2008	HYBRID VIDEO ENCODER INCLUDING REAL-TIME AND OFF-LINE VIDEO ENCODERS	US	Granted
General Instrument Corporation	8326077	12/04/2012	12/262363	10/31/2008	METHOD AND APPARATUS FOR TRANSFORMING A NON-LINEAR LENS-DISTORTED IMAGE	US	Granted
General Instrument Corporation	NA	NA	13/667604	11/02/2012	METHOD AND APPARATUS FOR TRANSFORMING A NON-LINEAR LENS-DISTORTED IMAGE	US	Filed
General Instrument Corporation	NA	NA	11/960446	12/19/2007	METHOD AND SYSTEM FOR INTERLEAVING VIDEO AND DATA FOR TRANSMISSION OVER A NETWORK AT A SELECTED BIT RATE	US	Filed
General Instrument Corporation	NA	NA	11/963127	12/21/2007	METHOD AND APPARATUS FOR SECURE MANAGEMENT OF DEBUGGING PROCESSES WITHIN COMMUNICATION DEVICES	US	Filed
General Instrument Corporation	NA	NA	12/056721	03/27/2008	METHOD, APPARATUS AND SYSTEM FOR AUTHENTICATING A PROGRAMMABLE HARDWARE DEVICE AND FOR AUTHENTICATING COMMANDS RECEIVED IN THE PROGRAMMABLE HARDWARE DEVICE FROM A SECURE PROCESSOR	US	Filed
General Instrument Corporation	NA	NA	12/142180	06/19/2008	SECURE INTERCHIP TRANSPORT INTERFACE	US	Filed
General Instrument Corporation	8106837	01/31/2012	12/238520	09/26/2008	EQUIPMENT HOUSING WITH INTEGRAL ANTENNA	US	Granted

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General Instrument Corporation	NA	NA	11/943301	11/20/2007	METHOD AND APPARATUS FOR LIMITING ACCESS TO PROGRAMMING IN A SWITCHED DIGITAL VIDEO SYSTEM	US	Filed
General Instrument Corporation	NA	NA	11/954953	12/12/2007	SET TOP TERMINAL PERFORMING SERVICE GROUP NUMBER AUTO DISCOVERY DURING INITIALIZATION OR BOOT-UP PROCESS	US	Filed
General Instrument Corporation	8141123	03/20/2012	11/959566	12/19/2007	METHOD AND APPARATUS FOR RECORDING AND RENDERING PROGRAMS THAT CROSS SDV FORCE TUNE BOUNDARIES	US	Granted
General Instrument Corporation	8380816	02/19/2013	12/021884	01/29/2008	SYSTEM AND METHOD FOR MANAGING AND DISTRIBUTING BUNDLED CODE OBJECTS	US	Granted
General Instrument Corporation	NA	NA	12/344984	12/29/2008	METHOD AND APPARATUS FOR DETECTION OF CABLE AND OFF-AIR SIGNALS IN A DUAL OR HIGHER TUNER SET-TOP TERMINAL	US	Filed
General Instrument Corporation	NA	NA	12/147831	06/27/2008	METHOD AND APPARATUS FOR PROVIDING LOW RESOLUTION IMAGES IN A BROADCAST SYSTEM	US	Filed
General Instrument Corporation	8340343	12/25/2012	12/262377	10/31/2008	ADAPTIVE VIDEO FINGERPRINTING	US	Granted
General Instrument Corporation	NA	NA	12/209174	09/11/2008	METHOD AND APPARATUS FOR COMPLEXITY SCALABLE MOTION ESTIMATION	US	Filed

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General Instrument Corporation	NA	NA	12/209173	09/11/2008	METHOD AND APPARATUS FOR FAST MOTION ESTIMATION	US	Filed
General Instrument Corporation	8179883	05/15/2012	12/140830	06/17/2008	APPARATUS, METHOD AND SYSTEM FOR MANAGING SESSION ENCAPSULATION INFORMATION WITHIN AN INTERNET PROTOCOL CONTENT BYPASS ARCHITECTURE	US	Granted
General Instrument Corporation	NA	NA	12/620960	11/18/2009	DETECTING FOREIGN VOLTAGE FAULTS IN TELEPHONE CUSTOMER PREMISE EQUIPMENT	US	Filed
General Instrument Corporation	NA	NA	12/250317	10/13/2008	MULTI-RATE ENCODER WITH GOP ALIGNMENT	US	Filed
General Instrument Corporation	NA	NA	12/183055	07/30/2008	PERSONAL VIDEO RECORDER	US	Filed
General Instrument Corporation	8139957	03/20/2012	12/145239	06/24/2008	HIGH SENSITIVITY OPTICAL RECEIVER EMPLOYING A HIGH GAIN AMPLIFIER AND AN EQUALIZING CIRCUIT	US	Granted
General Instrument Corporation	NA	NA	12/112569	04/30/2008	METHOD AND APPARATUS FOR CONTROLLING THE OPTICAL OUTPUT POWER FROM A BURST MODE LASER	US	Filed
General Instrument Corporation	8379727	02/19/2013	12/238538	NA	METHOD AND APPARATUS FOR SCALABLE MOTION ESTIMATION	US	Granted

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General Instrument Corporation	8155524	04/10/2012	12/138977	06/13/2008	IMPROVED METHOD AND APPARATUS FOR TRANSMITTING MULTIPLE CHANNELS IN A WAVELENGTH DIVISION MULTIPLEXED (WMD) OPTICAL COMMUNICATION SYSTEM WITH REDUCED RAMAN CROSSTALK AND NONLINEAR DISTORTIONS	US	Granted
General Instrument Corporation	8155159	04/10/2012	12/138600	06/13/2008	METHOD AND APPARATUS FOR CALIBRATING BURST MODE LASER TRANSMITTERS	US	Granted
General Instrument Corporation	NA	NA	12/039809	02/29/2008	METHOD AND SYSTEM FOR PROVIDING DIFFERENT FORMATS OF ENCODED CONTENT IN A SWITCHED DIGITAL VIDEO (SDV0) SYSTEM	US	Filed
General Instrument Corporation	NA	NA	12/112440	04/30/2008	METHOD TO REDUCE CONTOUR ARTIFACTS ON RECURSIVE TEMPORAL FILTERS	US	Filed
General Instrument Corporation	NA	NA	12/262465	10/31/2008	DIGITAL VIDEO RECORDER HAVING LIVE OFF DISK BUFFER RECEIVING MISSING PORTIONS OF BUFFERED EVENTS	US	Filed
General Instrument Corporation	8284828	10/09/2012	12/616337	11/11/2009	MONITORING INSTABILITY AND RESETTING AN EQUALIZER	US	Granted
General Instrument Corporation	NA	NA	12/500807	07/10/2009	DEMAND DRIVEN OPTIMIZATION AND BALANCING OF TRANSCODING RESOURCES	US	Filed

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General Instrument Corporation	NA	NA	12/508699	07/24/2009	COMMUNICATING DATA FROM A SOURCE DEVICE TO A TERMINAL	US	Filed
General Instrument Corporation	8407733	03/26/2013	12/339303	12/19/2008	METHOD AND APPARATUS FOR ESTABLISHING INDIVIDUALIZED SUBSCRIPTION PLANS IN A SWITCHED DIGITAL VIDEO SYSTEM	US	Granted
General Instrument Corporation	NA	NA	12/339324	12/19/2008	A SET-TOP BOX FOR CONVERTING MEDIA SIGNALS BASED ON STORED OUTPUT SETTINGS	US	Filed
General Instrument Corporation	NA	NA	12/360334	01/27/2009	METHOD AND APPARATUS FOR DISTRIBUTING VIDEO PROGRAM MATERIAL	US	Filed
General Instrument Corporation	NA	NA	12/491455	06/25/2009	METHOD AND APPARATUS FOR ELIMINATING ENCODING DELAY WHEN A TELECINE SOURCE MATERIAL IS DETECTED	US	Filed
General Instrument Corporation	NA	NA	12/872931	08/31/2010	METHOD AND APPARATUS FOR MANAGING DELIVERY OF BITS TO A DECODER	US	Filed
General Instrument Corporation	8369415	02/05/2013	12/395056	02/27/2009	METHOD AND APPARATUS FOR DECODING AN ENHANCED VIDEO STREAM	US	Granted
General Instrument Corporation	NA	NA	13/088771	04/18/2011	METHOD FOR SIGNALING A FACSIMILE PASS THROUGH MODE OVER A VOIP VOICE SERVICE	US	Filed
General Instrument Corporation	NA	NA	12/578022	10/13/2009	DECODING APPARATUS FOR A SET-TOP BOX	US	Filed

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General Instrument Corporation	8370886	02/05/2013	12/634427	12/09/2009	RETURN FEED FORWARD	US	Granted
General Instrument Corporation	D616398	05/25/2010	29/322293	07/31/2008	SET TOP BOX	US	Granted
General Instrument Corporation	NA	NA	12/561898	09/17/2009	TRANSITIONING BETWEEN MULTIPLE SERVICES IN AN MPEG STREAM	US	Filed
General Instrument Corporation	NA	NA	12/849565	08/03/2010	NET MANAGER AND NET MODULE GENERAL UPnP EXTENSIONS FOR OCAP HNEXT	US	Filed
General Instrument Corporation	NA	NA	12/342635	12/23/2008	SYSTEM FOR STACKING SIGNALS IN AN EXPANDED FREQUENCY RANGE	US	Filed
General Instrument Corporation	8081674	12/20/2011	12/342733	12/23/2008	METHODS AND SYSTEM FOR DETERMINING A DOMINANT IMPAIRMENT OF AN IMPAIRED COMMUNICATION CHANNEL	US	Granted
General Instrument Corporation	8340191	12/25/2012	12/567118	09/25/2009	TRANSCODER FROM FIRST MPEG STREAM TO SECOND MPEG STREAM	US	Granted
General Instrument Corporation	NA	NA	12/964954	12/10/2010	ADAPTIVE DOWNLOAD BANDWIDTH ALLOCATION SYSTEM, APPARATUS AND METHOD	US	Filed
General Instrument Corporation	8195055	06/05/2012	12/650937	12/31/2009	HIGH DYNAMIC RANGE APD OPTICAL RECEIVER FOR ANALOG APPLICATIONS	US	Granted
General Instrument Corporation	NA	NA	13/218004	08/25/2011	PROTOCOL RATE FILTERING AT EDGE DEVICE	US	Filed
General Instrument Corporation	NA	NA	12/636177	12/11/2009	MPEG VIDEO RESOLUTION REDUCTION SYSTEM	US	Filed



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General Instrument Corporation	NA	NA	12/476615	06/02/2009	BURST MODE LASER TRANSMITTER HAVING AN EXTREMELY FAST RESPONSE TIME WHEN TRIGGERED FROM A TOTALLY OFF STATE	US	Filed
General Instrument Corporation	NA	NA	12/645676	12/23/2009	RATE CONTROL FOR TWO PASS ENCODER	US	Filed
General Instrument Corporation	8340531	12/25/2012	12/641495	12/18/2009	METHOD AND APPARATUS FOR IMPROVED SBS SUPPRESSION IN OPTICAL FIBER COMMUNICATION SYSTEMS	US	Granted
General Instrument Corporation	NA	NA	12/606165	10/26/2009	INCREASED CABLE TELEVISION TAP BANDWIDTH UTILIZING EXISTING TAP HOUSINGS	US	Filed
General Instrument Corporation	NA	NA	12/964379	12/09/2010	SDV QUICK TUNE ALGORITHM	US	Filed
General Instrument Corporation	8422563	04/16/2013	12/624720	11/24/2009	SYSTEM FOR GENERATING CLOSED CAPTIONING COMPATIBLE WITH LEGACY AND NEWER SET-TOP BOXES	US	Granted
General Instrument Corporation	NA	NA	12/631539	12/04/2009	A METHOD TO SEAMLESSLY INSERT AUDIO CLIPS INTO A COMPRESSED BROADCAST AUDIO STREAM	US	Filed
General Instrument Corporation	NA	NA	12/950700	11/19/2010	SYSTEM AND METHOD FOR SECURE BI-DIRECTIONAL COMMUNICATION	US	Filed
General Instrument Corporation	NA	NA	12/560049	09/15/2009	SYSTEM AND METHOD FOR IPsec LINK CONFIGURATION	US	Filed

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General Instrument Corporation	NA	NA	12/631380	12/04/2009	GENERATION AND DETECTION OF PRIVATE METADATA IN AN ENCODED VIDEO TRANSPORT STREAM	US	Filed
General Instrument Corporation	NA	NA	12/822766	06/24/2010	LOCATION-BASED SERVICE GROUP DISCOVERY FOR SWITCHED DIGITAL VIDEO	US	Filed
General Instrument Corporation	NA	NA	13/207966	08/11/2011	METHOD AND APPARATUS FOR IMPROVING THROUGHPUT OF A MODEM	US	Filed
General Instrument Corporation	NA	NA	12/639376	12/16/2009	METHOD AND APPARATUS FOR TRANSFORMING A LENS DISTORTED IMAGE TO A PERSPECTIVE IMAGE IN A BAYER SPACE	US	Filed
General Instrument Corporation	NA	NA	12/620762	11/18/2009	AUDIO DATA BIT RATE DETECTOR	US	Filed
General Instrument Corporation	NA	NA	13/190427	07/25/2011	DEFERRED TRANSFER OF CONTENT TO OPTIMIZE BANDWIDTH USAGE	US	Filed
General Instrument Corporation	NA	NA	12/565185	09/23/2009	USING EQUALIZATION COEFFICIENTS OF END DEVICES IN A CABLE TELEVISION NETWORK TO DETERMINE AND DIAGNOSE IMPAIRMENTS IN UPSTREAM CHANNELS	US	Filed
General Instrument Corporation	NA	NA	12/862113	08/24/2010	STATUS MONITOR TRANSPONDER FOR AN OPTICAL NODE OF A NETWORK	US	Filed
General Instrument Corporation	NA	NA	12/761978	04/16/2010	CABLE FITTING TEST TOOL	US	Filed
General Instrument Corporation	NA	NA	12/512980	07/30/2009	SYSTEM AND METHOD FOR ANALYZING VIDEO STREAM	US	Filed

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General Instrument Corporation	NA	NA	12/468839	05/19/2009	PROVIDING ACCESS TO CONTENT FOR A DEVICE USING AN ENTITLEMENT CONTROL MESSAGE	US	Filed
General Instrument Corporation	NA	NA	12/632177	12/07/2009	SYSTEM AND METHOD FOR AV SYNCHRONIZATION OF ENCODER DATA	US	Filed
General Instrument Corporation	NA	NA	12/648755	12/29/2009	INTELLIGENT CACHING FOR OCSP SERVICE OPTIMIZATION	US	Filed
General Instrument Corporation	NA	NA	12/976642	12/22/2010	SYSTEM AND METHOD FOR REDUCING MUTUAL LEAKAGE BETWEEN DISTRIBUTED FEEDBACK LASER ELECTRO-ABSORPTION MODULATOR IN INTEGRATED ELECTRO-ABSORPTION LASER	US	Filed
General Instrument Corporation	NA	NA	12/645688	12/23/2009	TWO PASS ENCODER	US	Filed
General Instrument Corporation	8340140	12/25/2012	12/688514	01/15/2010	STATISTICAL MULTIPLEXING USING A PLURALITY OF ENCODERS	US	Granted
General Instrument Corporation	NA	NA	12/645702	12/23/2009	RATE CONTROL FOR TWO PASS ENCODER USING ADAPTIVE QUANTIZATION PARAMETERS	US	Filed
General Instrument Corporation	NA	NA	12/688529	01/15/2010	STATISTICAL MULTIPLEXING USING A PLURALITY OF TWO-PASS ENCODERS	US	Filed
General Instrument Corporation	NA	NA	12/569873	09/29/2009	PROVISIONING A SET-TOP BOX	US	Filed
General Instrument Corporation	NA	NA	13/350072	NA	REVOCATION LIST UPDATE FOR DEVICES	US	Filed

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General Instrument Corporation	NA	NA	12/761581	04/16/2010	SYSTEM FOR REDUCING NOISE IN VIDEO PROCESSING	US	Filed
General Instrument Corporation	NA	NA	12/973458	12/20/2010	SVC-TO-AVC REWRITER WITH OPEN-LOOP STATISTAL MULTIPLEXER	US	Filed
General Instrument Corporation	NA	NA	12/872909	08/31/2010	A METHOD AND APPARATUS FOR ENCODING	US	Filed
General Instrument Corporation	NA	NA	13/221531	08/30/2011	METHOD AND APPARATUS FOR UPDATING EQUALIZATION COEFFICIENTS OF ADAPTIVE PRE-EQUALIZERS	US	Filed
General Instrument Corporation	NA	NA	12/963152	12/08/2010	SYSTEM AND METHOD FOR IP VIDEO DELIVERY USING DISTRIBUTED FLEXIBLE CHANNEL BONDING	US	Filed
General Instrument Corporation	NA	NA	12/967748	12/14/2010	CARRIAGE SYSTEMS ENCODING OR DECODING JPEG 2000 VIDEO	US	Filed
General Instrument Corporation	NA	NA	12/973257	12/20/2010	METHOD OF PROCESSING A SEQUENCE OF CODED VIDEO FRAMES	US	Filed
General Instrument Corporation	NA	NA	12/895104	09/30/2010	METHOD AND APPARATUS FOR MANAGING BIT RATE	US	Filed
General Instrument Corporation	NA	NA	13/407081	NA	IDENTITY DATA MANAGEMENT SYSTEM FOR HIGH VOLUME PRODUCTION OF PRODUCT-SPECIFIC IDENTITY DATA	US	Filed
General Instrument Corporation	NA	NA	13/097901	04/29/2011	SYSTEM AND METHOD FOR AVOIDING UPSTREAM INTERFERENCE IN RF OVER-GLASS NETWORK	US	Filed

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General Instrument Corporation	NA	NA	13/364934	NA	AUDIO CONTROL MODULE	US	Filed
General Instrument Corporation	NA	NA	13/168422	NA	METHOD AND APPARATUS FOR PROVIDING A REAL TIME STREAMING PROTOCOL SESSION	US	Filed
General Instrument Corporation	NA	NA	12/874850	09/02/2010	DIGITAL INFORMATION STREAM COMMUNICATION SYSTEM AND METHOD	US	Filed
General Instrument Corporation	NA	NA	12/956556	11/30/2010	RIGHTS METADATA CACHING BY SWITCHED DIGITAL VIDEO MULTIPLEXERS	US	Filed
General Instrument Corporation	NA	NA	13/188107	NA	METHOD AND DEVICE FOR DAIGNOSING INTERFERENCE NOISE PROBLEMS	US	Filed
General Instrument Corporation	5966410	10/12/1999	08/678166	07/11/1996	METHOD AND SYSTEM FOR CLEANING A FREQUENCY BAND	US	Granted
General Instrument Corporation	5966636	10/12/1999	08/564837	11/29/1995	METHOD AND APPARATUS FOR MULTIPLE ACCESS OVER RANDOMIZED SLOTS WITH COLLISION DETECTION IN A CABLE TELEPHONY SYSTEM	US	Granted
General Instrument Corporation	D421598	03/14/2000	29/053350	04/08/1996	ELECTROOICS ENCLOSURE	US	Granted
General Instrument Corporation	8237769	08/07/2012	11/859012	09/21/2007	SYSTEM AND METHOD OF VIDEOTELEPHONY WITH DETECTION OF A VISUAL TOKEN IN THE VIDEOTELEPHONY IMAGE FOR ELECTRONIC CONTROL OF THE FIELD OF VIEW	US	Granted

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General Instrument Corporation	NA	NA	11/962853	12/21/2007	EFFICIENT MESSAGE REPRESENTATIONS FOR BELIEF PROPAGATION ALGORITHMS	US	Filed
General Instrument Corporation	8276181	09/25/2012	11/963012	12/21/2007	CONTENT DISTRIBUTION SYSTEM AND METHOD FOR OPTIMIZING MULTIPLEXED TRANSPORT CHANNELS	US	Granted
General Instrument Corporation	NA	NA	13/593874	12/21/2007	CONTENT DISTRIBUTION SYSTEM AND METHOD FOR OPTIMIZING MULTIPLEXED TRANSPORT CHANNELS	US	Filed
General Instrument Corporation	NA	NA	12/128103	05/28/2008	METHOD AND SYSTEM FOR OPTIMIZING NETWORK ACCESS CONTROL	US	Filed
General Instrument Corporation	NA	NA	12/140843	06/17/2008	APPARATUS, METHOD AND SYSTEM FOR MANAGING BYPASS ENCAPSULATION OF INTERNET CONTENT WITHIN A BYPASS ARCHITECTURE	US	Filed
General Instrument Corporation	8219551	07/10/2012	11/930462	10/31/2007	DECODING A HIERARCHICAL MULTILAYER DATA PACKAGE	US	Granted
General Instrument Corporation	NA	NA	13/493583	10/31/2007	DECODING A HIERARCHICAL MULTILAYER DATA PACKAGE	US	Filed
General Instrument Corporation	8140702	03/20/2012	12/647873	12/28/2009	SYSTEM AND METHOD OF MAXIMIZING UTILITY IN MEDIA DELIVERY NETWORK	US	Granted
General Instrument Corporation	NA	NA	12/705266	02/12/2010	REDUCING ALIASING IN A SPATIAL SCALABLE VIDEO CODING	US	Filed

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General Instrument Corporation	D610103	02/16/2010	29/322292	07/31/2008	SET TOP BOX	US	Granted
General Instrument Corporation	NA	NA	13/024321	02/09/2011	HDCP LINK INTEGRITY CHECKING WITH DETECTION OF ENHANCED LINK VERIFICATION SUPPORT	US	Filed
General Instrument Corporation	NA	NA	13/165031	06/21/2011	HDMI SOURCE/SINK INTEROPERABLE CONFIGURATION DETERMINATION PROCESS	US	Filed
General Instrument Corporation	NA	NA	13/293541	NA	TUNABLE RF RETURN PATH FILTER WITH AUTOMATIC CHANNEL PLAN DETECTION	US	Filed
General Instrument Corporation	NA	NA	13/342223	NA	MECHANISM TO DETERMINE SOURCE DEVICE SERVICE TIER BASED ON THE VERSION OF THE HDCP KEY	US	Filed
General Instrument Corporation	NA	NA	13/305958	NA	DIGITAL CONTENT CONSUMPTION DEVICE REGIONALIZATION	US	Filed
General Instrument Corporation	NA	NA	13/314136	12/07/2011	MULTIPLEX CONVERSION FOR A PASSIVE OPTICAL NETWORK	US	Filed
General Instrument Corporation	NA	NA	13/362529	NA	VIDEO CODING USING EYE TRACKING MAPS	US	Filed
General Instrument Corporation	NA	NA	13/315409	NA	ENCODING AND DECODING USING PERCEPTUAL REPRESENTATIONS	US	Filed
General Instrument Corporation	NA	NA	13/300101	NA	UPSTREAM CHANNEL BONDING PARTIAL SERVICE USING SPECTRUM MANAGEMENT	US	Filed
General Instrument Corporation	NA	NA	13/464449	05/04/2012	METHOD AND APPARATUS FOR HOME NETWORK DISCOVERY	US	Filed

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General Instrument Corporation	NA	NA	13/279562	NA	METHOD AND APPARATUS FOR EXCHANGING CONFIGURATION INFORMATION IN A WIRELESS LOCAL AREA NETWORK	US	Filed
General Instrument Corporation	NA	NA	13/308823	NA	SYSTEM AND METHOD FOR MEDIA CONTENT DELIVERY	US	Filed
General Instrument Corporation	NA	NA	13/324618	NA	DYNAMIC CHANNEL BONDING PARTIAL SERVICE TRIGGERING	US	Filed
General Instrument Corporation	NA	NA	13/562257	NA	METHOD AND APPARATUS FOR CHARACTERIZING IMPULSE NOISE AND OPTIMIZING DATA LINK EFFICIENCY	US	Filed
General Instrument Corporation	NA	NA	13/533309	NA	TIME-SYNCHRONIZING A PARALLEL FEED OF SECONDARY CONTENT WITH PRIMARY MEDIA CONTENT	US	Filed
General Instrument Corporation	NA	NA	13/562261	NA	METHOD OF CHARACTERIZING IMPAIRMENTS DETECTED BY EQUALIZATION ON A CHANNEL OF A NETWORK	US	Filed
General Instrument Corporation	NA	NA	13/457520	NA	INFORMATIONAL PROCESSING	US	Filed
General Instrument Corporation	NA	NA	61/654874	NA	SURGE PROTECTOR	US	Filed
General Instrument Corporation	NA	NA	13/457524	NA	INFORMATION PROCESSING	US	Filed
General Instrument Corporation	NA	NA	13/457526	NA	INFORMATION PROCESSING	US	Filed



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General Instrument Corporation	NA	NA	13/457534	NA	METHOD AND DEVICE FOR AUGMENTING USER-INPUT INFORMATION RELATED TO MEDIA CONTENT	US	Filed
General Instrument Corporation	NA	NA	13/453226	NA	IDENTITY VERIFICATION	US	Filed
General Instrument Corporation	NA	NA	13/353309	NA	FEATURE LICENSING FRAMEWORK FOR THIRD PARTY FEATURE CREDIT MANAGEMENT	US	Filed
General Instrument Corporation	NA	NA	13/625271	NA	METHODS AND APPARATUS FOR CONTROLLING A WIRELESS STATION	US	Filed
General Instrument Corporation	NA	NA	13/461329	NA	ENSURE UPSTREAM CHANNEL QUALITY QUALITY MEASUREMENT STABILITY IN AN UPSTREAM CHANNEL BONDING SYSTEM USING T4 TIMEOUT MULTIPLIER	US	Filed
General Instrument Corporation	NA	NA	13/572066	NA	POWER FOR AN HDMI SOURCE DEVICE	US	Filed
General Instrument Corporation	NA	NA	13/542696	NA	AUGMENTATION OF MULTIMEDIA CONSUMPTION	US	Filed
General Instrument Corporation	NA	NA	13/326574	NA	SUPPORTING MULTIPLE ATTENTION-BASED, USER-INTERACTION MODES	US	Filed
General Instrument Corporation	NA	NA	13/419576	NA	SENTIMENT MAPPING IN A MEDIA CONTENT ITEM	US	Filed
General Instrument Corporation	NA	NA	13/419597	NA	SENTIMENT MAPPING IN A MEDIA CONTENT ITEM	US	Filed

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General Instrument Corporation	NA	NA	61/588164	NA	MANUFACTURER REVENUE SHARING WITH SUPPLIERS BY LICENSING FEATURES TO CUSTOMERS	US	Filed
General Instrument Corporation	NA	NA	13/485745	NA	POLICY ENFORCEMENT FOR MULTIPLE DEVICES USING AN AUDIENCE DEFINITION	US	Filed
General Instrument Corporation	NA	NA	13/628161	NA	PROVIDING SECONDARY CONTENT TO ACCOMPANY A PRIMARY CONTENT ITEM	US	Filed
General Instrument Corporation	NA	NA	13/419615	NA	SENTIMENT MAPPING IN A MEDIA CONTENT ITEM	US	Filed
General Instrument Corporation	NA	NA	13/657624	NA	IMPROVED ALGORITHMS FOR DETERMINING BITRATE FOR A STATISTICAL MULTIPLEXING SYSTEM USING SCENE CHANGE	US	Filed
General Instrument Corporation	NA	NA	13/664373	NA	IMPROVED ALGORITHMS FOR DETERMINING BITRATE FOR A STATISTICAL MULTIPLEXING SYSTEM TO ENSURE STREAM ALIGNMENT FROM ENCODERS TO THE MULTIPLEXER	US	Filed
General Instrument Corporation	NA	NA	29/426307	NA	MODEM	US	Filed
General Instrument Corporation	NA	NA	29/422006	NA	MEDIA DEVICE	US	Filed
General Instrument Corporation	NA	NA	13/587069	NA	LOCATION SPECIFIC VIDEO CONTENT RETRIEVAL ENABLING REGIONAL BLACKOUTS TO BE MAINTAINED	US	Filed

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General Instrument Corporation	NA	NA	29/420854	NA	MEDIA DEVICE	US	Filed
General Instrument Corporation	NA	NA	29/433394	NA	MODEM	US	Filed
General Instrument Corporation	NA	NA	13/644911	NA	AUTOMATIC INTEGRATION OF CONTROL DATA SET FOR CONTROLLING DEVICES	US	Filed
General Instrument Corporation	NA	NA	61/719372	NA	METHOD FOR COMPUTING LATENCY IN PRIORITY QUEUES	US	Filed
General Instrument Corporation	NA	NA	61/718703	NA	TIMING CORRECTION FOR A DOCSIS EDGE-QAM	US	Filed
General Instrument Corporation	NA	NA	61/702203	NA	DYNAMIC CONFIGURABLE ONLINE DATA UPDATE SERVER (ODUS)	US	Filed
General Instrument Corporation	NA	NA	61/719923	NA	TECHNOLOGY METHOD HOOK IP CONCEPTS	US	Filed
General Instrument Corporation	NA	NA	61/719928	NA	BUSINESS METHOD HOOK IP CONCEPTS	US	Filed
General Instrument Corporation	6483033	11/19/2002	09/686238	10/11/2000	CABLE MANAGEMENT APPARTUS AND METHOD	US	Granted
General Instrument Corporation	6895594	05/17/2005	09/691624	10/18/2000	SWITCH MATRIX PACKAGING FOR HIGH AVAILABILITY	US	Granted
General Instrument Corporation	5428629	06/27/1995	08/263902	06/20/1994	ERROR CHECK CODE RECOMPUTATION METHOD TIME INDEPENDENT OF MESSAGE LENGTH	US	Granted
General Instrument Corporation	5428646	06/27/1995	07/996454	12/24/1992	DEVICE AND METHOD FOR FRAME SYNCHRONIZATION IN A MULTI-LEVEL TRELLIS CODING SYSTEM	US	Granted

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General Instrument Corporation	5535228	07/09/1996	08/518128	08/22/1995	DEVICE AND METHOD FOR ACHIEVING ROTATIONAL INVARIANCE IN A MULTI-LEVEL TRELLIS CODING SYSTEM	US	Granted
General Instrument Corporation	5515385	05/07/1996	08/209085	03/09/1994	DEVICE AND METHOD FOR LIMITING DELAY BY SUBSTANTIAL ELIMINATION OF DUPLICATE SYNCHRONOUS DATA FRAMES IN A COMMUNICATION SYSTEM	US	Granted
General Instrument Corporation	5467319	11/14/1995	08/418908	04/07/1995	CIRCUIT AND METHOD OF INTERCONNECTING A CONTENT ADDRESSABLE MEMORY	US	Granted
General Instrument Corporation	5463389	10/31/1995	08/125904	09/24/1993	DATA COMPRESSION METHOD AND DEVICE UTILIZING CHILDREN ARRAYS	US	Granted
General Instrument Corporation	5406281	04/11/1995	08/134789	10/12/1993	ENCODER/DECODER AND METHOD FOR EFFICIENT STRING HANDLING IN DATA COMPRESSION	US	Granted
General Instrument Corporation	5446771	08/29/1995	08/185619	01/24/1994	ADAPTIVE COHERENT SIGNAL DETECTION METHOD AND APPARATUS	US	Granted
General Instrument Corporation	5473363	12/05/1995	08/280423	07/26/1994	SYSTEM METHOD AND MULTIPOINT CONTROL UNIT FOR MULTIPOINT MULTIMEDIA CONFERENCING	US	Granted
General Instrument Corporation	5533049	07/02/1996	08/280919	07/27/1994	METHOD DIGITAL SIGNAL PROCESSING MODULE AND SYSTEM FOR EFFICIENTLY SELECTING A PRE-EMPHASIS FILTER DURING LINE PROBING	US	Granted

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General Instrument Corporation	5528632	06/18/1996	08/282186	07/28/1994	NON-COMPLEX DUAL-CORRELEATION PHASE REVERSAL DETECTOR AND ME THOD	US	Granted
General Instrument Corporation	5790594	08/04/1998	08/508854	07/28/1995	A HIGH SPEED MODEM AND METHOD FOR EXPEDITING TIMING RECOVERY	US	Granted
General Instrument Corporation	5651009	07/22/1997	08/433876	05/02/1995	HYBRID CONTENTION/POLLING P ROTOCOL COLLISION RESOLUTION U SING DEPTH FIRST SEARCH TECHNI QUES	US	Granted
General Instrument Corporation	5615212	03/25/1997	08/526517	09/11/1995	METHOD, DEVICE AND ROUTER FOR PROVIDING A CONTENTION-BASED R ESERVATION MECHANISM WITHIN A MINI-SLOTTED DYNAMIC ENTERY &	US	Granted
General Instrument Corporation	6169728	01/02/2001	08/929008	09/08/1997	APPARATUS AND METHOD FOR SPECT RUM MANAGEMENT IN A MULTIPOINT COMMUNICATION SYSTEM	US	Granted
General Instrument Corporation	5805994	09/08/1998	08/624346	04/03/1996	APPARATUS AND METHOD FOR TRANS MIT POWER CONTROL IN A COMMUNI CATION SYSTEM	US	Granted
General Instrument Corporation	5870429	02/09/1999	08/664757	06/17/1996	APPARATUS, METHOD, AND SOFTWAR E MODEM FOR UTILIZING ENVELOPE DELAY DISTORTION CHARACTERIST ICS TO DETERMINE A SYMBOL RATE	US	Granted
General Instrument Corporation	5960000	09/28/1999	08/866865	05/30/1997	SYSTEM, DEVICE, AND METHOD FOR CONTENTION-BASED RESERVATION IN A SHARED MEDIUM NETWORK	US	Granted

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General Instrument Corporation	6377552	04/23/2002	08/920464	08/29/1997	SYSTEM, DEVICE, AND METHOD FOR EVALUATING DYNAMIC RANGE IN A COMMUNICATION SYSTEM	US	Granted
General Instrument Corporation	6181752	01/30/2001	08/999416	12/29/1997	DEVICE AND METHOD FOR DETECTING PCM UPSTREAM DIGITAL IMPAIRMENTS IN A COMMUNICATION NETWORK	US	Granted
General Instrument Corporation	6201842	03/13/2001	09/092786	06/05/1998	DEVICE AND METHOD FOR DETECTING PCM UPSTREAM DIGITAL IMPAIRMENTS IN A COMMUNICATION NETWORK	US	Granted
General Instrument Corporation	6700875	03/02/2004	09/052224	03/31/1998	SYSTEM, DEVICE, AND METHOD FOR SELECTING A CHANNEL IN A MULTICHANNEL COMMUNICATION NETWORK	US	Granted
General Instrument Corporation	6201836	03/13/2001	09/234451	01/20/1999	METHOD AND APPARATUS FOR COMBINING A TRELLIS CODING SCHEME WITH A PRE-CODING SCHEME FOR DATA SIGNALS	US	Granted
General Instrument Corporation	6772388	08/03/2004	09/731095	12/06/2000	APPARATUS AND METHOD FOR PROVIDING OPTIMAL ADAPTIVE FORWARD ERROR CORRECTION IN DATA COMMUNICATIONS	US	Granted
General Instrument Corporation	6611795	08/26/2003	09/730986	12/06/2000	APPARATUS AND METHOD FOR PROVIDING ADAPTIVE FORWARD ERROR CORRECTION UTILIZING THE ERROR VECTOR MAGNITUDE METRIC	US	Granted

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General Instrument Corporation	7181760	02/20/2007	09/625873	07/26/2000	HIGH AVAILABILITY MECHANISM IN A CABLE ENVIRONMENT	US	Granted
General Instrument Corporation	5249294	09/28/1993	08/013246	02/03/1993	PREVENTION OF DETERMINATION OF TIME OF EXECUTION OF	US	Granted
General Instrument Corporation	6188870	02/13/2001	08/726748	10/07/1996	PASSIVE INTERDICTION SYSTEM FOR SCRAMBLING	US	Granted
General Instrument Corporation	5606612	02/25/1997	08/279514	07/25/1994	METHOD AND APPARATUS FOR TELEVISION SIGNAL SCRAMBLING	US	Granted
General Instrument Corporation	5650908	07/22/1997	08/654799	05/29/1996	SURGE ARRESTOR FOR RF DEVICES	US	Granted
General Instrument Corporation	5638422	06/10/1997	07/821508	01/15/1992	PCN DEPLOYMENT VIA CABLE TELEVISION	US	Granted
General Instrument Corporation	5659883	08/19/1997	07/934766	08/24/1992	DIVERSE FREQUENCY REMOTE CONTROL COMMUNICATION	US	Granted
General Instrument Corporation	5497404	03/05/1996	07/910192	07/14/1992	TRANSMISSION ERROR RECOVERY FOR DIGITAL COMMUNICATION	US	Granted
General Instrument Corporation	5398237	03/14/1995	08/065578	05/26/1993	ACQUISITION AND TRACKING OF INDEPENDENT QUADRATURE MODULATED BITSTREAMS	US	Granted
General Instrument Corporation	5390346	02/14/1995	08/184572	01/21/1994	SMALL FREQUENCY STEPS UP OR DOWN CONVERTER USING LARGE FREQUENCY STEL SYNTHESIZERS	US	Granted
General Instrument Corporation	5426701	06/20/1995	08/202786	02/28/1994	CABLE TELEVISION BOX WITH A SMART CARD CONNECTOR	US	Granted
General Instrument Corporation	5406228	04/11/1995	08/274011	07/12/1994	RING OSCILLATOR WITH FREQUENCY CONTROL LOOP	US	Granted

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General Instrument Corporation	5638128	06/10/1997	08/335651	11/08/1994	PIXEL INTERPOLATION FILTERS FOR VIDEO DECOMPRESSION PROCESSOR	US	Granted
General Instrument Corporation	6014547	01/11/2000	08/847697	04/28/1997	METHOD FOR ENHANCING THE PERFORMANCE OF A CATV SETTOP TERMINAL	US	Granted
General Instrument Corporation	5848200	12/08/1998	08/523395	08/31/1995	METHOD AND APPARATUS FOR PERFORMING TWO DIMENSIONAL VIDEO CONVOLVING	US	Granted
General Instrument Corporation	5881362	03/19/1999	08/709456	09/05/1996	NOISE REDUCTION IN CABLE RETURN PATHS	US	Granted
General Instrument Corporation	6321384	11/20/2001	09/074851	05/08/1998	NOISE REDUCTION IN CABLE RETURN PATHS	US	Granted
General Instrument Corporation	5835844	11/10/1998	08/580633	12/29/1995	METHOD TO REDUCE GAIN VARIANCE AND INGRESS IN THE RETURN PATH OF A CATV PLANT	US	Granted
General Instrument Corporation	5870472	02/09/1999	08/745998	11/12/1996	DYNAMIC RELOCATION OF THE SERVICE DATA CHANNEL	US	Granted
General Instrument Corporation	5724344	03/03/1998	08/626352	04/02/1996	AMPLIFIER USING A SINGLE FORWARD PILOT SIGNAL TO CONTROL FORWARD AND RETURN AUTOMATIC SLOPE CIRCUITS THEREIN	US	Granted
General Instrument Corporation	5787211	07/28/1998	08/624045	04/03/1996	NEW DESIGN FOR A RESONANTLY ENHANCED MODULATOR FOR SUPPRESSION OF STIMULATED BRILLOUIN SCATTERING (SBS) IN HI	US	Granted



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General Instrument Corporation	5767754	06/16/1998	08/789372	01/24/1997	BALANCED TO UNBALANCED TRANSMISSION LINE TRANSFORMER WITH IMPROVED AMPLITUDE RESPONSE	US	Granted
General Instrument Corporation	5937330	08/10/1999	08/801306	02/18/1997	SETTOP TERMINAL CONTROLLED RETURN PATH FILTER FOR MINIMIZING NOISE INGRESS ON BIDIRECTIONAL CABLE SYSTEMS	US	Granted
General Instrument Corporation	5828786	10/27/1998	08/162511	12/02/1993	ANALYZER AND METHODS FOR DETECTING AND PROCESSING VIDEO DATA TYPES IN A VIDEO DATA STREAM	US	Granted
General Instrument Corporation	5923784		08/619276	03/18/1996	ANALYZER AND METHODS FOR DETECTING AND PROCESSING VIDEO DATA TYPES IN A VIDEO DATA STREAM	US	Granted
General Instrument Corporation	6031927	02/29/2000	08/629304	04/08/1996	ANALYZER AND METHODS FOR DETECTING AND PROCESSING VIDEO DATA TYPES IN A VIDEO DATA STREAM	US	Granted
General Instrument Corporation	6041142	03/21/2000	08/630089	04/08/1996	ANALYZER AND METHODS FOR DETECTING AND PROCESSING VIDEO DATA TYPES IN A VIDEO DATA STREAM	US	Granted
General Instrument Corporation	6260193	07/10/2001	09/021006	02/09/1998	SYNCHRONIZATION OF DECODERS IN A BI-DIRECTIONAL CATV NETWORK	US	Granted
General Instrument Corporation	6072872	06/06/2000	09/014088	01/27/1998	DETERMINATION OF SCRAMBLING MODE OF A TELEVISION SIGNAL	US	Granted

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General Instrument Corporation	6133939	10/17/2000	09/228141	01/11/1999	CATV DIRECTIONAL COMPONENT WITH SIGNAL REVERSING CAPABILITY AND METHOD	US	Granted
General Instrument Corporation	7086078	08/01/2006	09/690057	10/16/2000	CATV DIRECTIONAL COMPONENT WITH SIGNAL REVERSING CAPABILITY AND METHOD	US	Granted
General Instrument Corporation	5914869	06/22/1999	08/929714	09/15/1997	AC/DC TRANSFORMERLESS VOLTAGE CONVERTER	US	Granted
General Instrument Corporation	5844615	12/01/1998	08/783432	01/16/1997	COMMUNICATION OF VBI DATA IN DIGITAL TELEVISION DATA STREAMS	US	Granted
General Instrument Corporation	6160587	12/12/2000	08/887046	07/02/1997	WAVEFORM GENERATOR FOR INSERTION OF DATA INTO DIGITAL TELEVISION SIGNALS	US	Granted
General Instrument Corporation	6208737	03/27/2001	09/110864	07/07/1998	METHOD AND APPARATUS FOR TELEVISION SIGNAL SCRAMBLING USING THE REPLACEMENT OF SYNCHRONIZING AND COLOR SUBCARRIER SIGN	US	Granted
General Instrument Corporation	6597789	07/22/2003	09/213426	12/17/1998	VIDEO-AUDIO SCRAMBLING WITH SINGLE CONVERSION TUNERS	US	Granted
General Instrument Corporation	D420349	02/08/2000	29/080380	12/05/1997	SETTOP TELEVISION TERMINAL	US	Granted
General Instrument Corporation	6918135	07/12/2005	09/265774	03/10/1999	SESSION ORIENTED SETTOP COMMUNICATION USING DYNAMIC, SYNCHRONIZED ROUTING	US	Granted
General Instrument Corporation	D420338	02/08/2000	29/083809	02/18/1998	HIGH POWER INFRARED BLASTER	US	Granted

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General Instrument Corporation	6169584	01/02/2001	08/985438	12/05/1997	AUTOMATIC MODULATION CONTROL OF SYNC SUPPRESSED TELEVISION SIGNALS	US	Granted
General Instrument Corporation	6940561	09/06/2005	09/705406	11/03/2000	AUTOMATIC MODULATION AND RF CARRIER LEVEL CONTROL OF SYNC SUPPRESSED TELEVISION SIGNALS	US	Granted
General Instrument Corporation	6400767	06/04/2002	09/156484	09/18/1998	COMMUNICATION OF HBI DATA IN DIGITAL TELEVISION DATA STREAMS	US	Granted
General Instrument Corporation	6483547	11/19/2002	09/034034	03/03/1998	TRANSMISSION SIGNAL ID FOR ANALOG TELEVISION BROADCASTS	US	Granted
General Instrument Corporation	6295362	09/25/2001	09/009695	01/20/1998	DIRECT DIGITAL SYNTHESIS OF FM SIGNALS	US	Granted
General Instrument Corporation	6133790	10/17/2000	09/154770	09/17/1998	IN-LINE, UNBALANCED AMPLIFIER, PRE-DISTORTION CIRCUIT	US	Granted
General Instrument Corporation	6232836	05/15/2001	09/568743	05/11/2000	IN-LINE, UNBALANCED AMPLIFIER, PRE-DISTORTION CIRCUIT	US	Granted
General Instrument Corporation	6577177	06/10/2003	09/282958	04/01/1999	NON-LINEAR DISTORTION GENERATOR	US	Granted
General Instrument Corporation	6570430	05/27/2003	09/958010	01/29/2002	NON-LINEAR DISTORTION GENERATOR FOR BOTH SECOND AND THIRD ORDER DISTORTION	US	Granted
General Instrument Corporation	D407071	03/23/1999	29/084737	03/09/1998	4-IN-1 REMOTE CONTROL UNIT	US	Granted
General Instrument Corporation	5909454	06/01/1999	09/008976	01/20/1998	INTERMEDIATE RATE APPLICATIONS OF PUNCTURED CONVOLUTIONAL CODES FOR 8PSK TRELLIS MODULATION OVER SATELLITE CHANNELS	US	Granted

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General Instrument Corporation	6230391	05/15/2001	09/138500	08/24/1998	INSULATOR INSERTION TOOL (ITT)	US	Granted
General Instrument Corporation	6963608	11/08/2005	09/806626	04/02/2001	METHOD AND APPARATUS FOR PROVIDING RATE CONTROL IN A VIDEO ENCODER	US	Granted
General Instrument Corporation	7039941	05/02/2006	09/182519	10/30/1998	LOW DISTORTION PASSTHROUGH CIRCUIT ARRANGEMNET FOR CABLE TELEVISION SET TOP CONVERTER TERMINALS	US	Granted
General Instrument Corporation	6433830	08/13/2002	09/332771	06/14/1999	OFF-AIR PHASE LOCK TECHNIQUE	US	Granted
General Instrument Corporation	6194653	02/27/2001	09/047293	03/24/1998	ENCLOSURE DESIGN HAVING AN INTEGRATED SYSTEM OF RETENTION, ELECTROMAGNETIC INTERFACE CONTAINMNET AND STRUCTURAL LOAD DISTRIBUTION	US	Granted
General Instrument Corporation	6594271	07/15/2003	09/356529	07/19/1999	IMPLEMENTATION OF OPPORTUNISTIC DATA ON A STATISTICAL MULTIPLEXING ENCODER	US	Granted
General Instrument Corporation	6239668	05/29/2001	09/291750	04/14/1999	RF TRANSFORMER WITH COMPENSATION TRANSMISSION LINE	US	Granted
General Instrument Corporation	D418518	01/04/2000	29/091197	07/23/1998	FRONT BEZEL DESIGN FOR A DIGITAL CABLE CONVERTER	US	Granted
General Instrument Corporation	7027461	04/11/2006	09/621894	07/20/2000	RESERVATION/RETRY MEDIA ACCESS CONTROL	US	Granted
General Instrument Corporation	6546557	04/08/2003	09/170852	10/13/1998	METHOD AND SYSTEM FOR ENHANCING DIGITAL VIDEO TRANSMISSION TO A SET-TOP BOX	US	Granted

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General Instrument Corporation	7043211	05/09/2006	09/857010	05/29/2001	UNIVERSAL MODULATOR	US	Granted
General Instrument Corporation	D422993	04/18/2000	29/101250	03/01/1999	FRONT BEZEL FOR A DIGITAL CABLE TERMINAL	US	Granted
General Instrument Corporation	7391471	06/24/2008	09/787601	07/02/2001	APPARATUS AND METHOD FOR MERGING VERTICAL BLANKING INTERVALS	US	Granted
General Instrument Corporation	6327709	12/04/2001	09/219140	12/22/1998	METHOD AND APPARATUS FOR FILTERING INTERFERENCE AND NONLINEAR DISTORTIONS	US	Granted
General Instrument Corporation	6587825	07/01/2003	09/551337	04/18/2000	AUDIO TRANSMISSION METHOD FOR CHANNEL DOUBLING SYSTEM	US	Granted
General Instrument Corporation	6556250	04/29/2003	09/370928	08/10/1999	METHOD AND APPARATUS FOR PROVIDING A TIMING SIGNAL WITH HIGH FREQUENCY ACCURACY IN VIDEO EQUIPMENT FOR SUPPORTING AN ON-SCREEN DISPLAY IN THE ABSENCE OF A VIDEO SIGNAL	US	Granted
General Instrument Corporation	6249634	09/06/1983	09/489624	03/31/1981	FIBER OPTIC CABLE COILING TRAY	US	Granted
General Instrument Corporation	6400863	06/04/2002	09/588387	06/06/2000	TELEPHONY TEST POINT	US	Granted
General Instrument Corporation	D426212	06/06/2000	29/105568	05/25/1999	BEZEL FOR SET-TOP TERMINAL	US	Granted
General Instrument Corporation	6842435	01/11/2005	09/396605	09/15/1999	CONGESTION MONITORING AND POWER CONTROL FOR A COMMUNICATION SYSTEM	US	Granted

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General Instrument Corporation	6567132	05/20/2003	09/265814	03/10/1999	AN UPCONVERTER FOR A TELEVISION SIGNAL HEADEND DISTRIBUTION CENTER HANDLING ANALOG AND DIGITAL SIGNALS AND METHOD OF MAKING AND USING THE SAME	US	Granted
General Instrument Corporation	6515380	02/04/2003	09/265815	03/10/1999	METHOD AND APPARATUS FOR SUPPRESSING ELECTROMAGNETIC EMISSIONS FROM A BUS INTERFACE WITH ELECTRONIC EQUIPMENT	US	Granted
General Instrument Corporation	6525436	02/25/2003	09/717984	11/21/2000	METHOD AND APPARATUS FOR SUPPRESSING ELECTROMAGNETIC EMISSIONS FROM A BUS INTERFACE WITH ELECTRONIC EQUIPMENT	US	Granted
General Instrument Corporation	6354461	03/12/2002	09/533455	03/23/2000	HAND-OPERABLE LATCH FOR ELECTRONICS ENCLOSURE	US	Granted
General Instrument Corporation	7116377	10/03/2006	10/107346	03/26/2002	GRAPHICS SUBSYSTEM BYPASS METHOD AND APPARATUS	US	Granted
General Instrument Corporation	6816512	11/09/2004	09/752893	12/29/2000	ARRANGEMENT FOR MANAGING MULTIPLE TELEPHONE LINES TERMINATING AT A SINGLE LOCATION	US	Granted
General Instrument Corporation	6466084	10/15/2002	09/489625	01/24/2000	CIRCUIT FOR REDUCING THIRD ORDER INTERMODULATION DISTORTION FOR A BROADBAND RF AMPLIFIER	US	Granted

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General Instrument Corporation	6759897	07/06/2004	10/303611	11/25/2002	CIRCUIT FOR REDUCING THIRD ORDER INTERMODULATION DISTORTION FOR A BROADBAND RF AMPLIFIER	US	Granted
General Instrument Corporation	6807195	10/19/2004	09/671096	09/27/2000	SYNCHRONIZED ARRANGEMENT FOR PACKET CABLE TELEPHONY MODEM	US	Granted
General Instrument Corporation	6748050	06/08/2004	09/862268	05/22/2001	METHOD AND APPARATUS FOR PERFORMING EITHER TONE ANALYSIS ON A LOCAL LOOPED-BACK COMMUNICATIONS PATH OR UTILIZING A HYBRID REFLECTION BASED LOOPED-BACK TEST TO TEST INTEGRITY	US	Granted
General Instrument Corporation	6473593	10/29/2002	09/466888	12/20/1999	MULTIPLE CHANNEL UPCONVERTER HAVING ADJACENT CHANNEL OUTPUT AND METHOD OF IMPLEMENTING THE SAME	US	Granted
General Instrument Corporation	6687311	02/03/2004	09/504529	02/15/2000	A DIRECT QAM MODULATOR WITH DIGITAL FEEDBACK CONTROL AND COMPLEX PRE-EQUALIZATION FOR PHASE AND AMPLITUDE DISTORTION	US	Granted
General Instrument Corporation	6711135	03/23/2004	09/511090	02/23/2000	HFC ACCESS NETWORK MANAGEMENT SYSTEM	US	Granted
General Instrument Corporation	6704288	03/09/2004	09/511087	02/23/2000	ARRANGEMENT FOR DISCOVERING THE TOPOLOGY OF AN HFC ACCESS NETWORK	US	Granted

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General Instrument Corporation	6728887	04/27/2004	09/511702	02/23/2000	HFC ACCESS NETWORK MANAGEMENT SYSTEM	US	Granted
General Instrument Corporation	6549403	04/15/2003	09/515708	02/29/2000	METHOD AND APPARATUS FOR MANAGING THERMAL ENERGY EMISSIONS OF A REMOVABLE POINT-OF-DEPLOYMENT MODULE IN A CABLE-READY TELEVISION SET	US	Granted
General Instrument Corporation	6771503	08/03/2004	10/205953	07/26/2002	METHOD AND APPARATUS FOR MANAGING THERMAL ENERGY EMISSIONS OF A REMOVABLE MODULE IN A SET-TOP BOX	US	Granted
General Instrument Corporation	D438532	03/06/2001	29/115508	12/14/1999	COMMUNICATION INTERFACE COVER	US	Granted
General Instrument Corporation	6892308	05/10/2005	09/668426	09/22/2000	INTERNET PROTOCOL TELEPHONY SECURITY ARCHITECTURE	US	Granted
General Instrument Corporation	6934310	08/23/2005	10/317029	12/11/2002	RETURN PATH TRANSMITTER HAVING A CLOSED LASER CONTROL LOOP THAT IS EMPLOYED IN A HYBRID FIBER/COAX TRANSMISSION SYSTEM	US	Granted
General Instrument Corporation	6362425	03/26/2002	09/618434	07/18/2000	GROUNDING STRUCTURE FOR USE BETWEEN SURFACES OF ALIGNED EQUIPMENT HOUSING ELEMENTS	US	Granted
General Instrument Corporation	6707364	03/16/2004	09/868391	06/18/2001	REMOTE FEEDER REACTANCE COIL	US	Granted



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General Instrument Corporation	6711132	03/23/2004	09/737307	12/15/2000	METHOD AND APPARATUS FOR REDUCING END-TO-END DELAY WHEN PROVIDING INTERNET TELEPHONY OVER A CATV CABLE NETWORK	US	Granted
General Instrument Corporation	6748020	06/08/2004	09/696533	10/25/2000	TRANSCODER-MULTIPLEXER (TRANSMUX) SOFTWARE ARCHITECTURE	US	Granted
General Instrument Corporation	6583986	06/24/2003	09/862844	05/21/2001	METHOD AND APPARATUS FOR MANAGING THERMAL ENERGY EMISSIONS	US	Granted
General Instrument Corporation	6731685	05/04/2004	09/665373	09/20/2000	A STATISTICAL REMULTIPLEXING ALGORITHM FOR STANDARD DEFINITION AND HIGH DEFINITION TELEVISION ENCODERS	US	Granted
General Instrument Corporation	6847656	01/25/2005	09/669517	09/25/2000	STATISTICAL REMULTIPLEXING WITH BANDWIDTH ALLOCATION AMONG DIFFERENT TRANSCODING CHANNELS	US	Granted
General Instrument Corporation	6735028	05/11/2004	09/941098	08/28/2001	METHOD AND APPARATUS FOR INCREASING DATA STORAGE CAPACITY VIA PHASE AND AMPLITUDE MODULATION	US	Granted
General Instrument Corporation	7606502	06/02/1992	11/612784	10/31/1990	SECOND ORDER PREDISTORTION CIRCUIT	US	Granted
General Instrument Corporation	7450609	11/11/2008	10/265080	10/04/2002	METHOD AND APPARATUS FOR STATISTICALLY MULTIPLEXING MULTIPLE GROUPS OF SERVICES	US	Granted

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General Instrument Corporation	6847659	01/25/2005	09/800835	03/07/2001	METHODS AND APPARATUS FOR RECONFIGURING PROTOCOL DATA WHEN REDUCING MULTIPLEXED DATA STREAMS	US	Granted
General Instrument Corporation	7653089	01/26/2010	11/021768	12/23/2004	METHOD AND APPARATUS FOR RECONFIGURING PROTOCOL DATA WHEN REDUCING MULTIPLEXED DATA STREAMS	US	Granted
General Instrument Corporation	6827583	12/07/2004	09/952695	09/14/2001	ELECTRONIC CONNECTION SYSTEM	US	Granted
General Instrument Corporation	6934138	08/23/2005	10/214838	08/08/2002	METHOD AND DEVICE FOR BONDING AC UTILITIES AND HFC ACCESS NETWORKS FOR SURGE MITIGATION	US	Granted
General Instrument Corporation	8375415	02/12/2013	09/811702	03/19/2001	DYNAMIC UPSTREAM AMPLIFIER POWER MANAGEMENT	US	Granted
General Instrument Corporation	6956873	10/18/2005	09/861750	05/21/2001	ARRANGEMENT FOR DERIVING A LOCAL CLOCK IN A PACKET CABLE TELEPHONY MODEM	US	Granted
General Instrument Corporation	6650800	11/18/2003	09/811720	03/19/2001	TIME SLOT TUNABLE ALL-OPTICAL PACKET DATA DEMULTIPLEXER	US	Granted
General Instrument Corporation	6788839	09/07/2004	09/811749	03/19/2001	TIME SLOT TUNABLE ALL-OPTICAL PACKET DATA ROUTING SWITCH	US	Granted
General Instrument Corporation	6671426	12/30/2003	09/811758	03/19/2001	MONOLITHIC INTEGRATED TERAHERTZ OPTICAL ASYMMETRIC DEMULTIPLEXER	US	Granted
General Instrument Corporation	6456775	09/24/2002	09/826523	04/05/2001	OPTICAL FIBER ATTENUATOR	US	Granted

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General Instrument Corporation	7162733	01/09/2007	09/968824	10/02/2001	METHOD AND APPARATUS FOR AUTOMATIC SET-UP OF ELECTRONIC DEVICES	US	Granted
General Instrument Corporation	6985020	01/10/2006	10/191557	07/09/2002	INLINE PREDISTORTION FOR BOTH CSO AND CTB CORRECTION	US	Granted
General Instrument Corporation	NA	NA	10/219045	08/14/2002	METHODS AND APPARATUS FOR REDUCING TUNE-TIME DELAY IN A TELEVISION APPLIANCE WITH PERSONAL VERSATILE RECORDER CAPABILITIES	US	Filed
General Instrument Corporation	D463413	09/24/2002	29/141724	05/11/2001	FACEPLATE	US	Granted
General Instrument Corporation	6553159	04/22/2003	10/003766	10/29/2001	METHOD AND SYSTEM FOR CONTROLLING THE OUTPUT OF AN OPTICAL PUMP ENERGY SOURCE	US	Granted
General Instrument Corporation	6854657	02/15/2005	09/997122	11/28/2001	DUAL BATTERY CONFIGURATION AND METHOD OF USING SAME TO PROVIDE A LONG-TERM POWER SOLUTION IN A PROGRAMMABLE SMART CARD	US	Granted
General Instrument Corporation	6882360	04/19/2005	09/947423	09/05/2001	METHOD AND APPARATUS FOR DETERMINING A LEVEL OF A VIDEO SIGNAL	US	Granted
General Instrument Corporation	7126920	10/24/2006	09/924860	08/08/2001	PERFORMANCE OF LIFE TEST USING CMTS AS A PROXY	US	Granted
General Instrument Corporation	7082135	07/25/2006	10/067026	02/04/2002	EXTENDABLE SLOT ADDRESSING SYSTEM AND METHOD	US	Granted

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General Instrument Corporation	6647252	11/11/2003	10/051501	01/18/2002	AN ADAPTIVE THRESHOLD ALGORITHM FOR REAL-TIME WAVELET DE-NOISING APPLICATIONS	US	Granted
General Instrument Corporation	D470484	02/18/2003	29/147677	08/31/2001	FACEPLATE	US	Granted
General Instrument Corporation	D462951	09/17/2002	29/147612	08/31/2001	FACEPLATE	US	Granted
General Instrument Corporation	D473221	04/15/2003	29/150808	11/28/2001	COMMUNICATIONS GATEWAY ENCLOSURE	US	Granted
General Instrument Corporation	6648679	11/18/2003	10/093748	03/07/2002	METHOD AND APPARATUS FOR OPTICAL COMPONENT MOUNTING	US	Granted
General Instrument Corporation	6885500	08/26/2003	10/633779	01/31/2002	OPTICAL AMPLIFIER CONTROLLER HAVING ADJUSTABLE SLEW-RATE LIMITER	US	Granted
General Instrument Corporation	6865199	03/08/2005	10/207740	07/29/2002	INEXPENSIVE ANALOG LASER MODULE	US	Granted
General Instrument Corporation	6804301	10/12/2004	09/929983	08/15/2001	FIRST PASS ENCODING OF I AND P-FRAME COMPLEXITY FOR COMPRESSED DIGITAL VIDEO	US	Granted
General Instrument Corporation	7136092	11/14/2006	10/357583	02/03/2003	METHOD AND APPARATUS FOR TESTING VIDEO CHROMA QUANTIZATION	US	Granted
General Instrument Corporation	7072402	07/04/2006	10/145166	05/13/2002	METHOD AND APPARATUS FOR DYNAMICALLY ADJUSTING F-CODES FOR A DIGITAL PICTURE HEADER	US	Granted
General Instrument Corporation	6961376	11/01/2005	10/183196	06/25/2002	METHODS AND APPARATUS FOR RATE CONTROL DURING DUAL PASS ENCODING	US	Granted

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General Instrument Corporation	7081712	07/25/2006	10/748082	12/30/2003	THERMAL COOLER FOR A LASER DIODE PACKAGE	US	Granted
General Instrument Corporation	8068610	11/29/2011	10/301092	11/20/2002	METHOD AND SYSTEM FOR PROVIDING SECURITY WITHIN MULTIPLE SET-TOP BOXES ASSIGNED FOR A SINGLE CUSTOMER	US	Granted
General Instrument Corporation	NA	NA	13/287576	11/02/2011	METHOD AND SYSTEM FOR PROVIDING SECURITY WITHIN MULTIPLE SET-TOP BOXES ASSIGNED FOR A SINGLE CUSTOMER	US	Filed
General Instrument Corporation	D480727	10/14/2003	29/166087	08/21/2002	EXTERNAL SLEEVE DESIGN FOR INTEGRATED CIRCUIT CHIP CARD	US	Granted
General Instrument Corporation	6934148	08/23/2005	10/414346	04/15/2003	ELECTRONIC CHASSIS AND HOUSING HAVING AN INTEGRATED FORCED AIR COOLING SYSTEM	US	Granted
General Instrument Corporation	D479718	09/16/2003	29/162773	06/21/2002	FRONT PANEL FOR MODULAR PROCESSING SYSTEM	US	Granted
General Instrument Corporation	7463311	12/09/2008	10/238468	09/09/2002	METHOD AND SYSTEM FOR INCLUDING NON-GRAPHIC DATA IN AN ANALOG VIDEO OUTPUT SIGNAL OF A SET-TOP BOX	US	Granted
General Instrument Corporation	6906526	06/14/2005	10/389496	03/14/2003	NON-INTRUSIVE CABLE CONNECTION MONITORING FOR USE IN HFC NETWORKS	US	Granted
General Instrument Corporation	7212502	05/01/2007	10/215080	08/08/2002	METHOD AND APPARATUS FOR DYNAMICALLY ADAPTING TELEPHONY ANALOG LOSS BASED ON CHANNEL CONTENT	US	Granted

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General Instrument Corporation	7039317	05/02/2006	10/304595	11/25/2002	RECONFIGURABLE NODE FOR A HYBRID FIBER CABLE NETWORK	US	Granted
General Instrument Corporation	D481019	10/21/2003	29/166917	09/05/2002	FRONT BEZEL FOR CONSUMER ELECTRONIC PRODUCT	US	Granted
General Instrument Corporation	D492268		29/179236		FRONT BEZEL FOR CONSUMER ELECTRONIC PRODUCT	US	Granted
General Instrument Corporation	7788277	06/29/2004	10/626824	04/07/2003	METHODS AND APPARATUS FOR RAPID CAPTURE OF PROGRAM IDENTIFIER DATA IN A BROADBAND TRANSCODER MULTIPLEXER	US	Granted
General Instrument Corporation	D482695	11/25/2003	29/166848	09/05/2002	FRONT BEZEL FOR CONSUMER ELECTRONIC PRODUCT	US	Granted
General Instrument Corporation	7061140	06/13/2006	10/417390	04/16/2003	POWER SUPPLY, AND APPARATUS AND METHOD FOR OPERATING A POWER SUPPLY	US	Granted
General Instrument Corporation	D486820	02/17/2004	29/170533	11/07/2002	ENCLOSURE FOR AN ELECTRONIC DEVICE	US	Granted
General Instrument Corporation	8245251	08/14/2012	10/314106	12/06/2002	METHOD AND APPARATUS FOR PREDICTIVE TUNING IN DIGITAL CONTENT RECEIVERS	US	Granted
General Instrument Corporation	NA	NA	13/584816	08/13/2012	METHOD AND APPARATUS FOR PREDICTIVE TUNING IN DIGITAL CONTENT RECEIVERS	US	Filed
General Instrument Corporation	7716712	05/11/2010	10/465339	06/18/2003	NARROWBAND INTERFERENCE AND IDENTIFICATION AND DIGITAL PROCESSING FOR CABLE TELEVISION RETURN PATH PERFORMANCE ENHANCEMENT	US	Granted

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General Instrument Corporation	7671778	03/02/2010	10/465326	06/18/2003	DIGITAL SIGNAL PROCESSING SCHEME FOR HIGH PERFORMANCE HFC DIGITAL RETURN PATH SYSTEM WITH BANDWIDTH CONSERVATION	US	Granted
General Instrument Corporation	D486495	02/10/2004	29/171935	12/03/2002	PORTION OF A FRONT PANEL FOR AN ELECTRONIC DEVICE	US	Granted
General Instrument Corporation	6944362	09/13/2005	10/364825	02/11/2003	OPTICAL SWITCH HAVING AN AUTORESTORATION FEATURE FOR SWITCHING FROM A BACKUP OPTICAL PATH TO A PRIMARY OPTICAL PATH	US	Granted
General Instrument Corporation	7024110	04/04/2006	11/186467	07/21/2005	OPTICAL SWITCH HAVING AN AUTORESTORATION FEATURE FOR SWITCHING FROM A BACKUP OPTICAL PATH TO A PRIMARY OPTICAL PATH	US	Granted
General Instrument Corporation	NA	NA	10/647064	08/22/2003	INTERCHIP TRANSPORT BUS COPY PROTECTION	US	Filed
General Instrument Corporation	7139490	11/21/2006	10/774308	02/06/2004	ALL-OPTICAL WAVELENGTH CONVERTER CIRCUIT	US	Granted
General Instrument Corporation	7274739	09/25/2007	10/441334	05/19/2003	METHODS AND APPARATUS FOR IMPROVING VIDEO QUALITY IN STATISTICAL MULTIPLEXING	US	Granted
General Instrument Corporation	7151875	12/19/2006	10/638972	08/11/2003	METHOD AND APPARATUS FOR BALANCING THE POWER OF OPTICAL CHANNELS TRAVERSING AN OPTICAL ADD DROP MULTIPLEXER	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
General Instrument Corporation	NA	NA	29/372722	NA	TV PORTAL 2	US	Filed
General Instrument Corporation	NA	NA	11/859445	09/21/2007	VIDEO QUALITY OF SERVICE MANAGEMENT AND CONSTRAINED FIDELITY CONSTANT BIT RATE VIDEO ENCODING SYSTEMS AND METHODS	US	Filed
General Instrument Corporation	NA	NA	11/756353	05/31/2007	CONSTRAINED FIDELITY CONTRANT BIT RATE VIDEO ENCODING SYSTEMS AND METHODS	US	Filed
Modulus Video, Inc.	NA	NA	11/109538	04/18/2005	HIGH DEFINITION SCALABLE ARRAY ENCODING SYSTEM AND METHOD	US	Filed
Netopia, Inc.	NA	NA	11/281767	11/16/2005	TERMINATION CIRCUIT FOR BROADBAND SIGNAL LINES	US	Filed
General Instrument Corporation	NA	NA	11/539495	10/06/2006	INTERACTIVE BANDWIDTH MODELING AND NODE ESTIMATION	US	Filed
General Instrument Corporation	5654989	08/05/1997	08/552684	11/03/1995	METHOD AND APPARATUS FOR AN IMPROVED SYMBOL TIMING TRACKING	US	Granted
General Instrument Corporation	5917885	06/29/1999	08/829760	03/31/1997	METHOD AND SYSTEM FOR TESTING SUBSCRIBER CIRCUITS AND WIRING IN A CABLE COMMUNICATION SYSTEM	US	Granted
General Instrument Corporation	5737461	04/07/1998	08/644029	05/09/1996	METHODS AND FILTER FOR ISOLATING UPSTREAM INGRESS NOISE IN A BI-DIRECTIONAL CABLE SYSTEM	US	Granted



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General Instrument Corporation	5742713	04/21/1998	08/735843	10/23/1996	METHODS AND FILTER FOR ISOLATING UPSTREAM INGRESS NOISE IN A BI-DIRECTIONAL CABLE SYSTEM	US	Granted
General Instrument Corporation	5818825	10/06/1998	08/564983	11/29/1995	METHOD AND APPARATUS FOR ASSIGNING COMMUNICATIONS CHANNELS IN A CABLE TELEPHONY SYSTEM	US	Granted
General Instrument Corporation	6275468	08/14/2001	08/690607	07/31/1996	AUTOMATIC TIMING ADJUSTMENT FOR DIVERSE ROUTING OF HFC SYSTEMS	US	Granted
General Instrument Corporation	6707829	03/16/2004	09/473344	12/28/1999	ENHANCED AUTOMATIC TIMING ADJUSTMENT FOR ALTERNATE ROUTING OF HFC SYSTEMS	US	Granted
General Instrument Corporation	D413578	09/07/1999	29/080261	12/05/1997	CABLE ACCESS UNIT HOUSING	US	Granted
General Instrument Corporation	6215667	04/10/2001	09/460137	12/13/1999	MOUNTING SYSTEM AND METHOD	US	Granted
General Instrument Corporation	D417223	11/30/1999	29/101438	03/04/1999	CABLE MODEM HOUSING	US	Granted
General Instrument Corporation	D416562	11/16/1999	29/098478	12/30/1998	HOUSING FOR A CABLE MODEM	US	Granted
General Instrument Corporation	6389068	05/14/2002	09/571068	05/15/2000	SLICED BANDWIDTH DISTORTION PREDICTION	US	Granted
General Instrument Corporation	6947554	10/24/1989	10/007452	12/29/1986	LEAST MEAN POWER CONSUMPTION IN TELECOMMUNICATIONS SYSTEMS	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
General Instrument Corporation	6512472	01/28/2003	10/047959	01/15/2002	METHOD AND APPARATUS FOR OPTIMIZING DYNAMIC RANGE OF A WIDEBAND ANALOG-TO-DIGITAL CONVERTER	US	Granted
General Instrument Corporation	6839870	01/04/2005	10/394937	03/21/2003	ERROR-CORRECTING CODE INTERLEAVER	US	Granted
General Instrument Corporation	7206357	04/17/2007	10/701978	11/04/2003	SYSTEM AND METHOD FOR AN IMPROVED QUADRATURE UPCONVERTER FOR I/Q MODULATION USING INTERMEDIATE FREQUENCY CARRIERS	US	Granted
General Instrument Corporation	7050515	05/23/2006	09/999060	11/15/2001	FRONT END AUTOMATIC GAIN CONTROL CIRCUIT USING A CONTROL WORD GENERATOR	US	Granted
General Instrument Corporation	7239678	07/03/2007	11/337120	01/19/2006	FRONT END AUTOMATIC GAIN CONTROL CIRCUIT USING A CONTROL WORD GENERATOR	US	Granted
General Instrument Corporation	5586068	12/17/1996	08/164016	12/08/1993	ADAPTIVE ELECTRONIC FILTER	US	Granted
General Instrument Corporation	7590991	09/15/2009	10/684182	10/09/2003	METHOD AND APPARATUS FOR DETERMINING CHANNEL TO WHICH A TV OR VCR IS TUNED	US	Granted
General Instrument Corporation	7751338	07/06/2010	10/729179	12/06/2003	ESTABLISHMENT OF MULTIPLE UPSTREAM DOCSIS LOGICAL CHANNELS BASED UPON PERFORMANCE	US	Granted
General Instrument Corporation	6859488	02/22/2005	10/255286	09/25/2002	DETECTION OF IMPULSE NOISE USING UNUSED CODES IN CDMA SYSTEMS	US	Granted
General Instrument Corporation	7573947	08/11/2009	10/892631	07/15/2004	SIMPLIFIED NARROWBAND EXCISION	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
General Instrument Corporation	5627833	05/06/1997	08/552991	11/03/1995	DIGITAL ADDED MAIN LINE SYSTEM WITH POWER-UP AND POWER-DOWN FEATURES	US	Granted
General Instrument Corporation	5627833	08/22/2000	90/005186	12/14/1998	DIGITAL ADDED MAIN LINE SYSTEM WITH POWER-UP AND POWER-DOWN FEATURES	US	Granted
General Instrument Corporation	5473613	12/14/1998	90/005185	08/29/2000	DIGITAL ADDED MAIN LINE SYSTEM	US	Granted
General Instrument Corporation	7113486	09/26/2006	10/428698	05/01/2003	METHOD AND APPARATUS FOR MEASURING QUALITY OF SERVICE PARAMETERS OF NETWORKS DELIVERING REAL TIME MPEG VIDEO	US	Granted
General Instrument Corporation	7145912	12/05/2006	09/535676	03/23/2000	DEMULTIPLEXING A STATISTICALLY MULTIPLEXED MPEG TRANSPORT STREAM INTO CBR SINGLE PROGRAM TRANSPORT STREAMS	US	Granted
General Instrument Corporation	5878057	03/02/1999	08/540145	10/06/1996	HIGHLY PARALLEL CYCLIC REDUNDANCY CODE GENERATOR	US	Granted
General Instrument Corporation	6744833	07/20/1999	09/357649	06/01/2004	DATA RESYNCHRONIZATION BETWEEN MODULES SHARING A COMMON CLOCK	US	Granted
General Instrument Corporation	8054880	11/08/2011	11/269428	11/07/2005	PARALLEL RATE CONTROL FOR DIGITAL VIDEO ENCODER WITH MULTI-PROCESSOR ARCHITECTURE AND PICTURE-BASED LOOK-AHEAD WINDOW	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
General Instrument Corporation	NA	NA	13/253937	10/05/2011	PARALLEL RATE CONTROL FOR DIGITAL VIDEO ENCODER WITH MULTI-PROCESSOR ARCHITECTURE AND PICTURE-BASED LOOK-AHEAD WINDOW	US	Filed
General Instrument Corporation	7477692	01/13/2009	11/610173	12/13/2006	VIDEO ENCODING FOR SEAMLESS SPLICING BETWEEN ENCODED VIDEO STREAMS	US	Granted
General Instrument Corporation	5367534	11/22/1994	08/078943	06/16/1993	SYNCHRONOUS FLOW CONTROL METHOD	US	Granted
General Instrument Corporation	5490169	02/06/1996	08/078676	06/16/1993	DECISION FEEDBACK EQUALIZER METHOD AND APPARATUS	US	Granted
General Instrument Corporation	5663982	09/02/1997	08/600117	02/12/1996	MODEM POOL DATA RATE ADJUSTING METHOD	US	Granted
General Instrument Corporation	5631952	05/20/1997	08/324956	10/18/1994	APPARATUS AND METHOD FOR MODEM WAKE-UP WITH AUTOBAND FUNCTION	US	Granted
General Instrument Corporation	5870428	02/09/1999	08/566755	12/04/1995	METHOD AND APPARATUS FOR PROVIDING REMOTE LOOP BACK TESTING IN A DIGITAL DATA SYSTEM HAVING MULTIPLE PROTOCOLS	US	Granted
General Instrument Corporation	5809085	09/16/1998	08/496048	06/28/1995	APPARATUS AND METHOD FOR DETECTING AMPLITUDE MODULATED SIGNALS IN THE PRESENCE OF IMPULSE DISTORTIONS	US	Granted
General Instrument Corporation	5654982	08/05/1997	08/496640	06/29/1995	APPARATUS AND METHOD FOR DETERMINING CARRIER FREQUENCY OFFSET AND TIMING FREQUENCY OFFSET FOR DATA TRANSMISSION AND RECE	US	Granted

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General Instrument Corporation	5715277	02/03/1998	08/508853	07/28/1995	APPARATUS AND METHOD FOR DETERMINING A SYMBOL RATE AND A CARRIER FREQUENCY FOR DATA TRANSMISSION AND RECEPTION	US	Granted
General Instrument Corporation	5636244	06/03/1997	08/507175	07/26/1995	METHOD AND APPARATUS FOR INITIALIZING EQUALIZER COEFFICIENTS USING PERIODIC TRAINING SEQUENCES	US	Granted
General Instrument Corporation	5625646	04/29/1997	08/494914	06/26/1995	METHOD DEVICE DSP AND MODEM FOR EFFICIENT ECHO CANCELER PHASE ROLL TRACKING	US	Granted
General Instrument Corporation	5671251	09/23/1997	08/395332	02/28/1995	METHOD AND APPARATUS FOR A DATA COMMUNICATION DEVICE TO SELECTIVELY OPERATE AS AN ANALOG MODEM AS A DIGITAL MODEM AND AS A	US	Granted
General Instrument Corporation	5844940	12/01/1998	08/496988	06/30/1995	METHOD AND APPARATUS FOR DETERMINING TRANSMIT POWER LEVELS FOR DATA TRANSMISSION AND RECEPTION	US	Granted
General Instrument Corporation	6108354	08/22/2000	08/885710	06/30/1997	SYSTEM, DEVICE AND METHOD FOR DETECTING AND CHARACTERIZING IMPAIRMENTS IN A COMMUNICATION NETWORK	US	Granted
Arris Enterprises, Inc.	NA	NA	09/963,136	09/24/2001	Method of substituting content during program breaks	US	Filed
ARRIS Solutions, Inc.	NA	NA	09/995,056	11/26/2001	NETWORK PERFORMANCE MONITORING	US	Filed

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Arris Enterprises, Inc.	NA	NA	10/186,210	06/27/2002	System and method for enabling focused navigation using filtering and direct-tune buttons	US	Filed
Arris Enterprises, Inc.	NA	NA	10/259,200	09/27/2002	PC media center and extension device for a home entertainment system	US	Filed
Arris Enterprises, Inc.	NA	NA	10/261,114	09/30/2002	System and method for speculative tuning	US	Filed
Arris Enterprises, Inc.	NA	NA	10/335,536	12/31/2002	Method and apparatus for an external event ticker	US	Filed
Arris Enterprises, Inc.	NA	NA	10/423,501	04/25/2003	Method and system for adjusting bandwidth in a hybrid-fiber coaxial network using an intelligently controlled dynamic RF combiner	US	Filed
ARRIS Solutions, Inc.	NA	NA	10/639,006	08/11/2003	Optimal provisioning and management of bandwidth in a video-on-demand services architecture	US	Filed
ARRIS Solutions, Inc.	NA	NA	10/683,141	10/09/2003	Method and System for timing media stream modifications	US	Filed
Arris Enterprises, Inc.	NA	NA	10/706,421	11/12/2003	Method and system for provisioning specification subsets for standards-based communication network devices	US	Filed
Arris Enterprises, Inc.	NA	NA	10/914,728	08/09/2004	Method for remotely updating software for devices in a broadband network	US	Filed
Arris Enterprises, Inc.	NA	NA	11/097,580	04/01/2005	Method and Apparatus for Broadcasting Data	US	Filed
ARRIS Solutions, Inc.	NA	NA	11/380,363	04/26/2005	Method and Device for Receiving and Providing Programs	US	Filed
Arris Enterprises, Inc.	NA	NA	11/200,313	08/09/2005	Very high speed cable modem for increasing bandwidth	US	Filed
Arris Enterprises, Inc.	NA	NA	11/209,699	08/24/2005	Logical content ad insertion	US	Filed

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ARRIS Solutions, Inc.	NA	NA	11/217,346	09/02/2005	Ad insertion in switched broadcast network	US	Filed
ARRIS Solutions, Inc.	NA	NA	11/237,846	09/29/2005	Apparatus, method, and computer program product for controlling laser wavelength stability	US	Filed
ARRIS Solutions, Inc.	NA	NA	11/262,729	11/01/2005	Generating ad insertion metadata at program file load time	US	Filed
Arris Enterprises, Inc.	NA	NA	11/337,752	01/23/2006	Method and system for transforming video streams using a multi-channel flow-bonded traffic stream	US	Filed
Arris Enterprises, Inc.	NA	NA	11/348,887	02/07/2006	Method for securely distributing configuration information to a device	US	Filed
Arris Enterprises, Inc.	NA	NA	11/356,228	02/16/2006	Method and system for adjusting line interface level to compensate for induced loss	US	Filed
Arris Enterprises, Inc.	NA	NA	11/460,525	07/27/2006	APPARATUS AND METHOD FOR INTELLIGENT MULTIMEDIA COMPRESSION AND DISTRIBUTION	US	Filed
Arris Enterprises, Inc.	NA	NA	11/460,543	07/27/2006	Methods and Systems for Signal Insertion	US	Filed
Arris Enterprises, Inc.	NA	NA	10/592,193	09/09/2006	Digital ad insertion for video-on-demand	US	Filed
Arris Enterprises, Inc.	NA	NA	11/526,110	09/22/2006	System and method for digital multimedia stream conversion	US	Filed
Arris Enterprises, Inc.	NA	NA	11/546,455	10/11/2006	Method and system for delivering video content using internet protocol over a coaxial cable	US	Filed
ARRIS Solutions, Inc.	NA	NA	11/549,909	10/16/2006	Method and Device for Providing Programs to Multiple End User Devices	US	Filed
Arris Enterprises, Inc.	NA	NA	11/588,056	10/26/2006	Method for providing quality of service to a SIP-based device over a communication network	US	Filed

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Arris Enterprises, Inc.	NA	NA	11/608,719	12/08/2006	SYSTEM AND METHOD FOR MAINTAINING CONTEXT DURING HIERARCHICAL NAVIGATION WITHIN A USER INTERFACE	US	Filed
ARRIS Solutions, Inc.	NA	NA	11/698,266	01/25/2007	Targeted ad insertion	US	Filed
Arris Enterprises, Inc.	NA	NA	11/688,227	03/19/2007	Method and system for increasing power savings in a DOCSIS device	US	Filed
ARRIS Solutions, Inc.			11/691,543	03/27/2007	System and method for providing content to a user	US	Filed
Arris Enterprises, Inc.	NA	NA	11/756,576	05/31/2007	Method and system for location determination in cable TV networks	US	Filed
Arris Enterprises, Inc.	NA	NA	11/756,590	05/31/2007	Method and system for monitoring data flow in an IP network device	US	Filed
ARRIS Solutions, Inc.	NA	NA	11/774,604	07/08/2007	System and method for wirelessly broadcasting advertisements	US	Filed
Arris Enterprises, Inc.	NA	NA	11/835,848	08/08/2007	CONTACT LIST FOR A HYBRID COMMUNICATOR/REMOTE CONTROL	US	Filed
ARRIS Solutions, Inc.	NA	NA	11/897,246	08/28/2007	Automatic dual receiver in a multi-wavelength fiber optic system	US	Filed
ARRIS Solutions, Inc.	NA	NA	11/860,638	09/25/2007	System, Method and Computer Readable Medium for Providing Visual Content to a User	US	Filed
ARRIS Solutions, Inc.	NA	NA	11/936,840	11/08/2007	Method, system and computer readable medium for providing media stream fragments	US	Filed
ARRIS Solutions, Inc.	NA	NA	11/936,835	11/08/2007	System, method and computer readable medium for providing media stream fragments	US	Filed
ARRIS Solutions, Inc.	NA	NA	11/999,761	12/06/2007	Extended range for CWDM optical transport	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/001,930	12/12/2007	Virtual networks in a communication system architecture	US	Filed



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Arris Enterprises, Inc.	NA	NA	11/961,880	12/20/2007	Method and system for identifying and removing stale connections on a user device	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/005,986	12/28/2007	Source optimized dynamic trickplay	US	Filed
ARRIS Solutions, Inc.	NA	NA	11/967,443	12/31/2007	METHOD AND DEVICE FOR RECEIVING AND TRANSMITTING MEDIA STREAMS	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/098,459	04/07/2008	System, method and computer readable medium for managing program switch requests	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/098,461	04/07/2008	System and method for generating and providing a program viewing indicator	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/098,463	04/07/2008	System, method and computer readable medium for managing fast channel change requests	US	Filed
Arris Enterprises, Inc.	NA	NA	12/082,498	04/11/2008	Extended layer two tunneling protocol applications and architectures	US	Filed
Arris Enterprises, Inc.	NA	NA	12/127,677	05/27/2008	SYSTEM AND METHOD FOR FOCUSED NAVIGATION IN A MEDIA CENTER/EXTENSION DEVICE ARCHITECTURE	US	Filed
Arris Enterprises, Inc.	NA	NA	12/189,626	08/11/2008	METHOD AND SYSTEM FOR MOVING DISTINCTIVE TRAFFIC FLOWS TO A DIFFERENT PRIORITY SERVICE FLOW	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/248,865	10/09/2008	METHOD AND SYSTEM FOR PERFORMING SIP LOOPBACK IN COMMUNICATION DEVICES	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/254,828	10/20/2008	Fair Bandwidth redistribution algorithm	US	Filed

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ARRIS Solutions, Inc.			12/273,668	11/19/2008	System And Methods For Controlling Upstream Transmission	US	Filed
ARRIS Solutions, Inc.	NA	NA	10/579,214	11/24/2008	SYSTEM TO PROVIDE INDEX AND METADATA FOR CONTENT ON DEMAND	US	Filed
Arris Enterprises, Inc.	NA	NA	12/315,814	12/05/2008	System and Method for Conditional Access Key Encryption	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/335,446	12/15/2008	DIGITAL PROGRAM SPLICE VISUAL QUALITY	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/335,436	12/15/2008	FLOW CONTROL IN A NETWORK DEVICE	US	Filed
ARRIS Solutions, Inc.			12/348,006	01/01/2009	System and Method for Providing Media Stream Related Applications	US	Filed
ARRIS Solutions, Inc. and Alcatel USA Sourcing, Inc.	NA	NA	12/356,193	01/20/2009	DYNAMIC QUALITY ADJUSTMENT BASED ON CHANGING STREAMING CONSTRAINTS	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/371,356	02/13/2009	Abstract-optical receiver with automatic distortion cancellation	US	Filed
Arris Enterprises, Inc.	NA	NA	12/396,154	03/02/2009	Preventing Overwrite Of Nonessential Code During Essential Code Update	US	Filed
Arris Enterprises, Inc.	NA	NA	12/416,955	04/02/2009	CMTS PLANT TOPOLOGY FAULT MANAGEMENT	US	Filed
Arris Enterprises, Inc.	NA	NA	12/426,754	04/20/2009	INTELLIGENT TRAFFIC OPTIMIZER	US	Filed
Arris Enterprises, Inc.	NA	NA	12/434,509	05/01/2009	Apparatus and Method for Distributing and Video Content Using Existing Network Wiring	US	Filed
Arris Enterprises, Inc.	NA	NA	12/513,572	05/05/2009	Methods and Systems for Substituting Programs in Multiple Program MPEG Transport Streams	US	Filed
Arris Enterprises, Inc.	NA	NA	12/472,005	05/26/2009	Transferring a Communication Session	US	Filed

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Arris Enterprises, Inc.	NA	NA	12/993,511	05/29/2009	FAST INITIALIZATION OF MULTI-MODE DEVICES	US	Filed
Arris Enterprises, Inc.	NA	NA	12/492,095	06/25/2009	METHOD FOR SIMULTANEOUSLY MANAGING HIGH-SPEED DATA AND VIDEO STREAMS IN A SINGLE MAC PROCESSING ENVIRONMENT	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/503,086	07/15/2009	METHOD, CABLE MODEM AND A DEVICE FOR PROVIDING VIDEO TO A CUSTOMER PREMISES EQUIPMENT	US	Filed
Arris Enterprises, Inc.	NA	NA	13/056,991	07/31/2009	Adaptive Power Control CATV System	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/565,792	09/24/2009	METHOD AND SYSTEM FOR TRANSMITTING CONTENT	US	Filed
Arris Enterprises, Inc.	NA	NA	12/610,698	11/02/2009	Providing Variable Bit Rate Video Streaming on Capacity Bounded Networks	US	Filed
Arris Enterprises, Inc.	NA	NA	12/617,940	11/13/2009	Method for Collection of Exception Logs in a DOCSIS Cable Modem	US	Filed
Arris Enterprises, Inc.	NA	NA	12/441,563	11/16/2009	Methods and Systems for Transport Stream Time Base Correction	US	Filed
Arris Enterprises, Inc.	NA	NA	12/635,796	12/11/2009	Media Access Control Domain Descriptor Filtering	US	Filed
Arris Enterprises, Inc.	NA	NA	12/644,814	12/22/2009	Integrated Transcoding	US	Filed
Arris Enterprises, Inc.	NA	NA	12/649,318	12/29/2009	Method and System for layer-3 subscriber login in a cable data network	US	Filed
Arris Enterprises, Inc.	NA	NA	12/689,796	01/19/2010	SYSTEM AND METHOD FOR FOCUSED NAVIGATION WITHIN A USER INTERFACE	US	Filed

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Arris Enterprises, Inc.	NA	NA	12/690,713	01/20/2010	Content Validation Techniques	US	Filed
Arris Enterprises, Inc.	NA	NA	12/698,594	02/02/2010	Channel Scanning using Energy Detection	US	Filed
Arris Enterprises, Inc.	NA	NA	12/708,072	02/18/2010	CMTS Scheduling for Mixed RFoG and HFC Networks	US	Filed
Arris Enterprises, Inc.	NA	NA	12/711,928	02/24/2010	ELECTRICAL ADD/DROP MULTIPLEXER WITH PASS THROUGH PORT	US	Filed
Arris Enterprises, Inc.	NA	NA	12/725,611	03/17/2010	Single fiber bidirectional communication system with Fiber Amplifiers	US	Filed
Arris Enterprises, Inc.	NA	NA	12/749,146	03/29/2010	System and Method for Coordinating between Multiple Telephony Channels	US	Filed
Arris Enterprises, Inc.	NA	NA	12/749,950	03/30/2010	Method for Detecting and Prevention Unintentional Pulse Dialing	US	Filed
Arris Enterprises, Inc.	NA	NA	12/749,979	03/30/2010	Method for Detecting and Prevention Unintentional Pulse Dialing	US	Filed
Arris Enterprises, Inc.	NA	NA	12/750,010	03/30/2010	Method for Detecting and Prevention Unintentional Pulse Dialing	US	Filed
ARRIS Solutions, Inc.	NA	NA	12/768,579	04/27/2010	Coaxial Communication Active Tap Device and Distribution System	US	Filed
Arris Enterprises, Inc.	NA	NA	12/794,854	06/07/2010	Latency Based Random Early Discard for Network Packets	US	Filed
Arris Enterprises, Inc.	NA	NA	12/794,819	06/07/2010	PROVIDING FLEXIBLE RF CHANNEL TO PORT MAPPINGS	US	Filed
Arris Enterprises, Inc.	NA	NA	12/815,670	06/15/2010	Duplicate Address Detection Proxy in Edge Devices	US	Filed
Arris Enterprises, Inc.	NA	NA	12/825,651	06/29/2010	Integrated RF Feeds in Edge Devices	US	Filed
Arris Enterprises, Inc.	NA	NA	12/830,475	07/06/2010	Decoupling Software Loads for Customer Premise Equipment	US	Filed

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Arris Enterprises, Inc.	NA	NA	12/830,535	07/06/2010	Improving Upstream Ranging in Communications Devices	US	Filed
Arris Enterprises, Inc.	NA	NA	12/857,929	08/17/2010	Reducing Four Wave Mixing Ingress	US	Filed
Arris Enterprises, Inc.	NA	NA	12/859,971	08/20/2010	Improved Communication Processing Complex	US	Filed
Arris Enterprises, Inc.	NA	NA	12/859,828	08/20/2010	Improved Channel Scanning	US	Filed
Arris Enterprises, Inc.	NA	NA	12/862,820	08/25/2010	Improved Downstream Signaling Architecture	US	Filed
Arris Enterprises, Inc.	NA	NA	12/868,045	08/25/2010	Use of Physical Location and Timing Delay in Fraud Detection	US	Filed
Arris Enterprises, Inc.	NA	NA	12/870,950	08/30/2010	Call Delivery in Converged Networks	US	Filed
Arris Enterprises, Inc.	NA	NA	12/891,022	09/27/2010	ADVERTISEMENT INSERTION FOR VIDEO	US	Filed
Arris Enterprises, Inc.	NA	NA	12/898,055	10/05/2010	Packet-Rate Policing and Admission Control with Optional Stress Throttling	US	Filed
Arris Enterprises, Inc.	NA	NA	12/900,253	10/07/2010	ESTIMATING SYSTEM AND TRAFFIC DATA IN A DOCSIS SYSTEM	US	Filed
Arris Enterprises, Inc.	NA	NA	12/901,741	10/11/2010	Identifying Packet Loss in Streaming Data	US	Filed
Arris Enterprises, Inc.	NA	NA	12/906,612	10/18/2010	Node Segmentation	US	Filed
Arris Enterprises, Inc.	NA	NA	12/908,343	10/20/2010	Reduced Latency Channel Switching for IPTV	US	Filed
Arris Enterprises, Inc.	NA	NA	12/911,484	10/25/2010	Power Saving for Internet-Telephony Broadband Devices	US	Filed
Arris Enterprises, Inc.	NA	NA	12/911,709	10/25/2010	Video Stream Cue Detection	US	Filed

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Arris Enterprises, Inc.	NA	NA	12/912,574	10/26/2010	Method for Fast Reinstallation of Deployed Devices	US	Filed
Arris Enterprises, Inc.	NA	NA	12/942,789	11/09/2010	Replaceable and Recoverable Data Storage with Monitoring System	US	Filed
Arris Enterprises, Inc.	NA	NA	12/945,603	11/12/2010	INITIAL PHASE ESTIMATOR TO ACCELERATE CARRIER PHASE RECOVERY	US	Filed
Arris Enterprises, Inc.	NA	NA	12/950,804	11/19/2010	AUTOMATIC BACKUP LICENSE TO AVOID SERVICE INTERRUPTIONS IN CONTINUOUS SERVICE, HIGH RELIABILITY SYSTEMS	US	Filed
Arris Enterprises, Inc.	NA	NA	12/977,165	12/23/2010	Improved Generation of Radio Frequency Outputs	US	Filed
Arris Enterprises, Inc.	NA	NA	12/978,604	12/26/2010	Method and System for Prioritizing Initial Maintenance of Cable Modems	US	Filed
Arris Enterprises, Inc.	NA	NA	12/979,109	12/27/2010	FIELD SERVICE MANAGEMENT SYSTEMS AND METHODS	US	Filed
Arris Enterprises, Inc.	NA	NA	12/979,982	12/28/2010	MONITORING AND MANAGING A HTTP SESSION INDEPENDENT OF CLIENT AND SERVER CONFIGURATIONS	US	Filed
Arris Enterprises, Inc.	NA	NA	13/006,544	01/14/2011	Load Balancing In A DOCSIS System Based On Weighting Upstream And Downstream Channel Loading Conditions	US	Filed
Arris Enterprises, Inc.	NA	NA	13/009,525	01/19/2011	LOCAL CACHE PROVIDING FAST CHANNEL CHANGE	US	Filed
Arris Enterprises, Inc.	NA	NA	13/018,464	02/01/2011	Using EQAM Video De-Jitter Memory For Processing M-CMTS DEPI PSP Priority Queues	US	Filed

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Arris Enterprises, Inc.	NA	NA	13/019,892	02/02/2011	Reduced Crosstalk in a Multi-Channel Conductive Body Connector	US	Filed
Arris Enterprises, Inc.	NA	NA	13/019,749	02/02/2011	Method and Apparatus for Demand-Based Cable Upstream Channel Assignment	US	Filed
Arris Enterprises, Inc.	NA	NA	13/021,478	02/04/2011	STATELESS ADMISSION CONTROL	US	Filed
Arris Enterprises, Inc.	NA	NA	13/030,573	02/18/2011	Service Group Aggregation	US	Filed
Arris Enterprises, Inc.	NA	NA	13/032,783	02/23/2011	IDENTIFYING CLONED DEVICES	US	Filed
Arris Enterprises, Inc.	NA	NA	13/035,463	02/25/2011	Optimizing Communications Bandwidth using Anticipatory Transmission	US	Filed
Arris Enterprises, Inc.	NA	NA	13/034,841	02/25/2011	Messaging over Packet Switched Networks	US	Filed
Arris Enterprises, Inc.	NA	NA	13/040,391	03/04/2011	Internet Protocol Video Quality of Service	US	Filed
Arris Enterprises, Inc.	NA	NA	13/044,321	03/09/2011	DUAL-MODE DOWNLOAD MANAGER	US	Filed
Arris Enterprises, Inc.	NA	NA	13/045,247	03/10/2011	Reducing IP Addresses in a Multimedia Terminal Adapter	US	Filed
Arris Enterprises, Inc.	NA	NA	13/046,746	03/13/2011	METHOD AND SYSTEM FOR SECURED COMMUNICATION IN A NON-CTMS ENVIRONMENT	US	Filed
Arris Enterprises, Inc.	NA	NA	13/069,481	03/23/2011	Interface Port Configuration To Reduce Connection Interference	US	Filed
Arris Enterprises, Inc.	NA	NA	13/077,583	03/31/2011	Fiber Node Discovery using Ranging Delay Data	US	Filed
Arris Enterprises, Inc.	NA	NA	13/077,558	03/31/2011	Impairment Discovery using Automatic Geographical Clustering	US	Filed

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Arris Enterprises, Inc.	NA	NA	13/087,430	04/15/2011	Using a DFA Unit for Classification List Processing	US	Filed
Arris Enterprises, Inc.	NA	NA	13/087,451	04/15/2011	Capturing Data for Quality Monitoring	US	Filed
Arris Enterprises, Inc.	NA	NA	13/097,987	04/29/2011	Bias Point Control Circuit for Externally Modulated Transmitter	US	Filed
Arris Enterprises, Inc.	NA	NA	13/097,401	04/29/2011	Improved Load Balancing for Network Devices	US	Filed
Arris Enterprises, Inc.	NA	NA	13/099,693	05/03/2011	Efficient Compression and Transport of Video Over a Network	US	Filed
Arris Enterprises, Inc.	NA	NA	13/099,458	05/03/2011	Providing Multiple Loads with Enhanced Firmware Loading	US	Filed
Arris Enterprises, Inc.	NA	NA	13/109,360	05/17/2011	Improved Resilient Channel and Broadcast Modulation	US	Filed
Arris Enterprises, Inc.	NA	NA	13/112,131	05/20/2011	DATA STORAGE METHODS AND APPARATUSES FOR REDUCING THE NUMBER OF WRITES TO FLASH-BASED STORAGE	US	Filed
Arris Enterprises, Inc.	NA	NA	13/112,001	05/20/2011	Service Class ID for Multimedia Streams over IP Networks	US	Filed
Arris Enterprises, Inc.	NA	NA	13/113,431	05/23/2011	Obscuring Advertisements during Trick Mode Operation	US	Filed
Arris Enterprises, Inc.	NA	NA	13/117,619	05/27/2011	SELECTIVELY DISABLING OR ENABLING MULTIPLE TRANSMIT CHANNEL MODE OPERATIONS FOR CABLE MODEMS CAPABLE THEREOF	US	Filed
Arris Enterprises, Inc.	NA	NA	13/151,257	06/01/2011	Mitigating Noise and OBI in RFoG Networks	US	Filed
Arris Enterprises, Inc.	NA	NA	13/155,443	06/08/2011	Group of Pictures Size Adjustment	US	Filed



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Arris Enterprises, Inc.	NA	NA	29/394,533	06/17/2011	Modem Enclosure	US	Filed
Arris Enterprises, Inc.	NA	NA	13/163,784	06/20/2011	Burst Efficient Fast Program Acquisition	US	Filed
Arris Enterprises, Inc.	NA	NA	13/164,798	06/21/2011	Multi-Level Flow Control	US	Filed
Arris Enterprises, Inc.	NA	NA	13/164,817	06/21/2011	Scheduling for Mixed RFOG and HFC Networks based on Transmission History	US	Filed
Arris Enterprises, Inc.	NA	NA	13/173,628	06/30/2011	Edge-QAM and M-CMTS Core Timing Lock	US	Filed
Arris Enterprises, Inc.	NA	NA	13/175,681	07/01/2011	OVERLAY SYSTEM WITH DIGITAL OPTICAL TRANSMITTER FOR DIGITIZED NARROWCAST SIGNALS	US	Filed
Arris Enterprises, Inc.	NA	NA	13/185,068	07/18/2011	Dual Use Light Source In An Electronic Device	US	Filed
Arris Enterprises, Inc.	NA	NA	13/187,564	07/21/2011	Power Saving for Broadband Communications Devices	US	Filed
Arris Enterprises, Inc.	NA	NA	13/191,774	07/27/2011	Dynamic Zoning for Targeted Ad Insertion	US	Filed
Arris Enterprises, Inc.	NA	NA	13/191,859	07/27/2011	Providing Secure Access into a Peripheral Device	US	Filed
Arris Enterprises, Inc.	NA	NA	13/194,560	07/29/2011	Method and System for Fast Channel Change in a Communication Device	US	Filed
Arris Enterprises, Inc.	NA	NA	13/204,450	08/05/2011	HIGH-DENSITY MULTI-CHANNEL QAM MODULATOR USING AN IDFT/IFFT AND POLYPHASE FILTER BANK	US	Filed
Arris Enterprises, Inc.	NA	NA	13/209,021	08/12/2011	Channel Assignment based on Subscribed Service Level	US	Filed

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Arris Enterprises, Inc.	NA	NA	13/209,549	08/15/2011	Detecting the Presence of Stimulated Brillouin Scattering in a Fiber of a Communication System	US	Filed
Arris Enterprises, Inc.	NA	NA	13/210,553	08/16/2011	VIDEO STREAMING USING ADAPTIVE TCP WINDOW SIZE	US	Filed
Arris Enterprises, Inc.	NA	NA	13/220,067	08/29/2011	Adaptive Multicasting	US	Filed
Arris Enterprises, Inc.	NA	NA	13/223,633	09/01/2011	Preserving Voltage On Telephone Line Over Hard Reset During Planned Outage	US	Filed
Arris Enterprises, Inc.	NA	NA	13/234,372	09/16/2011	Maintaining Viewer Activity Information Of A Recorded Program For Program Deletion Decisions	US	Filed
Arris Enterprises, Inc.	NA	NA	13/235,661	09/19/2011	DIGITIZER FOR USE IN AN OVERLAY SYSTEM WITH DIGITAL OPTICAL TRANSMITTER FOR DIGITIZED NARROWCAST SIGNALS	US	Filed
Arris Enterprises, Inc.	NA	NA	13/236,246	09/19/2011	Adaptively Delivering Services To Client Devices Over A Plurality Of Networking Technologies In A Home Network	US	Filed
Arris Enterprises, Inc.	NA	NA	13/237,290	09/20/2011	System For Increasing Isolation Boundary Withstand Voltage	US	Filed
Arris Enterprises, Inc.	NA	NA	13/252,275	10/04/2011	Media stream distribution system	US	Filed
Arris Enterprises, Inc.	NA	NA	13/252,678	10/04/2011	Agile Block Downconversion for the Distribution of Narrowcast Services	US	Filed
ARRIS Solutions, Inc.	NA	NA	13/270,877	10/11/2011	Method and Apparatus of Multiplexing Media Streams	US	Filed

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Arris Enterprises, Inc.	NA	NA	13/270,493	10/11/2011	Method and System for Transporting DOCSIS Communication Signals over a Passive Optical Network	US	Filed
Arris Enterprises, Inc.	NA	NA	13/270,398	10/11/2011	MANAGING BATTERY POWER USAGE OF A LOST MOBILE DEVICE TO EXTEND SEARCH TIME FOR THE LOST MOBILE DEVICE	US	Filed
Arris Enterprises, Inc.	NA	NA	13/270,624	10/11/2011	Legacy Equipment Adaptation In A Cable-Based System To Process Upstream Transmissions In An Expanded Frequency Spectrum	US	Filed
Arris Enterprises, Inc.	NA	NA	13/275,229	10/17/2011	Audio Normalization for Digital Video Broadcasts	US	Filed
Arris Enterprises, Inc.	NA	NA	13/283,030	10/27/2011	TERMINAL ADAPTER FOR ENABLING NON-IP-ENCAPSULATED VIDEOS TO BE RECEIVED AT SUBSCRIBER PREMISES FOR PLAYBACK ON AN IP DEVICES	US	Filed
Arris Enterprises, Inc.	NA	NA	13/283,699	10/28/2011	Improved Method and Apparatus for a Videophone	US	Filed
Arris Enterprises, Inc.	NA	NA	13/297,389	11/16/2011	CENTRAL CONTROLLER TO MANAGE NETWORK RESOURCES ACROSS A GROUP OF PLAYBACK DEVICES TO CONTROL STREAMING VIDEO QUALITY ACROSS THE GROUP OF PLAYBACK DEVICES	US	Filed
Arris Enterprises, Inc.	NA	NA	13/324,612	12/13/2011	Bandwidth Sharing and Statistical Multiplexing between Video and Data Streams	US	Filed

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Arris Enterprises, Inc.	NA	NA	13/331,153	12/20/2011	Method and System for Using an Integrated Subscriber Identity Module in a Network Interface Unit	US	Filed
ARRIS Solutions, Inc.	NA	NA	13/331,476	12/20/2011	Method and Device for Providing Services to End User Devices	US	Filed
Arris Enterprises, Inc.	NA	NA	13/338,067	12/27/2011	System and Method for Processing Multiple Broadcast Multimedia Streams	US	Filed
Arris Enterprises, Inc.	NA	NA	13/351,955	01/17/2012	System and Method of Contextual Pre-Tuning	US	Filed
Arris Enterprises, Inc.	NA	NA	13/359,623	01/27/2012	Optical Transmitter with Multiple Isolated Inputs and Signal Combining Network	US	Filed
Arris Enterprises, Inc.	NA	NA	13/361,154	01/30/2012	Broadband Linearizer with Combined Second and Third Order Generation with Adjustable Tilt	US	Filed
Arris Enterprises, Inc.	NA	NA	13/372,995	02/14/2012	Cooperative Transcoding To Multiple Streams	US	Filed
Arris Enterprises, Inc.	NA	NA	13/397,386	02/15/2012	Specifying and Enforcing IPv4 and IPv6 CPE Limits	US	Filed
Arris Enterprises, Inc.	NA	NA	13/401,371	02/21/2012	Method and System for Processing Voice Traffic from a Multi-Channel Link into a VoIP Network over a Broadband Network	US	Filed
Arris Enterprises, Inc.	NA	NA	13/405,437	02/27/2012	Adaptable DOCSIS eSAFE Software/Firmware Download System	US	Filed
Arris Enterprises, Inc.	NA	NA	13/407,383	02/28/2012	Providing System Reset Information to Service Provider	US	Filed
Arris Enterprises, Inc.	NA	NA	13/419,208	03/13/2012	Method and System for Allocating Bandwidth based on Transmission Power of Devices Transmitting over Communications Channels in a Network	US	Filed

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ARRIS Solutions, Inc.	NA	NA	13/420,565	03/14/2012	Switched Stream Server Architecture	US	Filed
Arris Enterprises, Inc.	NA	NA	13/422,537	03/16/2012	Sharing Resources in a Local Serving Office	US	Filed
Arris Enterprises, Inc.	NA	NA	13/433,520	03/29/2012	Displaying Dynamic Host Configuration Protocol (DHCP) Transaction States using a DHCP Relay Agent	US	Filed
Arris Enterprises, Inc.	NA	NA	13/433,493	03/29/2012	QoS for adaptable HTTP video	US	Filed
Arris Enterprises, Inc. expires 4/19/13	NA	NA	61/635,573	04/19/2012	Measuring the Quality of Experience Levels & Locating the Sources of Problems for Various Service Types in a Cable Distribution System	US	Filed
ARRIS Solutions, Inc.	NA	NA	13/451,566	04/20/2012	CLASSIFICATION OF HTTP MULTIMEDIA TRAFFIC PER SESSION	US	Filed
Arris Enterprises, Inc.	NA	NA	13/452,202	04/20/2012	OBI Detection and Avoidance in Broadband Devices	US	Filed
Arris Enterprises, Inc. expires 4/26/13	NA	NA	61/638,594	04/26/2012	Automatic Recover from Non-Functional Download	US	Filed
Arris Enterprises, Inc.	NA	NA	13/459,810	04/30/2012	Improved Adaptive Streaming Through the Use of Non-Local Information	US	Filed
ARRIS Solutions, Inc.	NA	NA	13/468,082	05/10/2012	Replacing Ads in HTTP-based Manifest Driven Video Transport	US	Filed
Arris Enterprises, Inc.	NA	NA	13/471,023	05/14/2012	Embedded Control Data in Communications Systems	US	Filed
Arris Enterprises, Inc.	NA	NA	13/476,494	05/21/2012	Controller to Manage Streaming Video of Playback Devices	US	Filed
ARRIS Solutions, Inc. expires 6/6/13	NA	NA	61/656,031	06/06/2012	Optimized Digital Cable Transmission Format	US	Filed
Arris Enterprises, Inc.	NA	NA	13/492,349	06/08/2012	Selectively Ordering Application of Provisioning from Multiple Sources for Network Equipment	US	Filed

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Arris Enterprises, Inc.	NA	NA	13/493,161	06/11/2012	Adjusting Transmission Power in Customer Premise Equipment	US	Filed
Arris Enterprises, Inc.	NA	NA	13/495,526	06/13/2012	Load Sharing among Loosely Coupled or Independent Video Servers	US	Filed
Arris Enterprises, Inc.	NA	NA	13/525,777	06/18/2012	Quickly Diagnose Service and Component Related Issues on a Cable Modem, Multimedia Terminal Adapter, or Gateway	US	Filed
Arris Enterprises, Inc.	NA	NA	13/528,439	06/20/2012	Improved Forward Error Correction for Communications Systems	US	Filed
Arris Enterprises, Inc.	NA	NA	13/534,040	06/27/2012	Harnessing Idle Computing Resources in Customer Premise Equipment	US	Filed
Arris Enterprises, Inc.	NA	NA	13/547,179	07/12/2012	Formed shielding feature	US	Filed
Arris Enterprises, Inc.	NA	NA	13/550,712	07/17/2012	Method and Apparatus for Scheduling Broadcast Information	US	Filed
Arris Enterprises, Inc.	NA	NA	13/550,894	07/17/2012	Restricting Use of an Endpoint Line to Fax-Only	US	Filed
Arris Enterprises, Inc.	NA	NA	13/555,038	07/20/2012	SMART CAROUSEL	US	Filed
Arris Enterprises, Inc.	NA	NA	13/558,650	07/26/2012	Structuring Dynamic Advertisement Breaks in Video Manifest Files	US	Filed
Arris Enterprises, Inc.	NA	NA	13/558,943	07/26/2012	User-Directed Digital Video Recorder Resolution Selection	US	Filed
Arris Enterprises, Inc.	NA	NA	13/566,438	08/03/2012	System and Method for Dynamic Electronic Program Guide Data Downloads	US	Filed
ARRIS Solutions, Inc.	NA	NA	13/566,666	08/03/2012	Method and System for Scalable Representation, Storage, Transmission and Reconstruction of Media Streams	US	Filed

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Arris Enterprises, Inc. expires 8/10/13	NA	NA	61/681,959	08/10/2012	Aggregate Data Streams in Relational Database Systems	US	Filed
Arris Enterprises, Inc.	NA	NA	13/585,527	08/14/2012	Concurrent Call Handover	US	Filed
Arris Enterprises, Inc.	NA	NA	13/589,448	08/20/2012	Trickplay Control Using Finite State Automata	US	Filed
ARRIS Solutions, Inc.	NA	NA	13/591,015	08/21/2012	Method and Device for Receiving and Providing Programs	US	Filed
Arris Enterprises, Inc.	NA	NA	13/591,052	08/21/2012	Context-Sensitive Interactive Television Ticker	US	Filed
Arris Enterprises, Inc. expires 8/22/13	NA	NA	61/691,878	08/22/2012	Measuring the Quality of Experience Levels & Locating the Sources of Problems for Various Service Types in a Cable Distribution System	US	Filed
Arris Enterprises, Inc.	NA	NA	13/606,387	09/07/2012	Measuring Quality of Experience and Identifying Problem Sources for Various Service Types	US	Filed
Arris Enterprises, Inc.	NA	NA	13/609,319	09/11/2012	Method and system for in-field recovery of security when a certificate authority has been compromised	US	Filed
Arris Enterprises, Inc.	NA	NA	13/614,952	09/13/2012	QOE Feedback based Intelligent Video Transport Stream Tuning	US	Filed
Arris Enterprises, Inc.	NA	NA	13/616,118	09/14/2012	Video Delivery over IP Packet Networks	US	Filed
Arris Enterprises, Inc.	NA	NA	13/631,404	09/28/2012	Handover of On-Hold Session between Fixed Packet Network and Cellular Network	US	Filed
Arris Enterprises, Inc. expires 9/29/13	NA	NA	61/707,903	09/29/2012	Video Playback and Live Television Roaming	US	Filed

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Arris Enterprises, Inc.	NA	NA	13/632,719	10/01/2012	Gateway-based Video Client-Proxy Sub-System for Managed Delivery of A/V Content using Fragmented Method in a Stateful System	US	Filed
Arris Enterprises, Inc.	NA	NA	13/645,966	10/05/2012	Consolidation of Time-Compressible Time-Offset Media Streams	US	Filed
Arris Enterprises, Inc.	NA	NA	13/646,194	10/05/2012	Dynamic Video Advertising using Auction-based Bidding	US	Filed
Arris Enterprises, Inc.	NA	NA	13/646,899	10/08/2012	Compression of Data Captures for Encrypted or Non-Interesting Content	US	
Arris Enterprises, Inc.	NA	NA	13/650,209	10/12/2012	Optimized QAM Transmission	US	Filed
ARRIS Solutions, Inc. expires 10/15/13	NA	NA	61/714,025	10/15/2012	Hybrid Network and Home Architecture for IPTV Ad Insertion	US	Filed
ARRIS Solutions, Inc.	NA	NA	13/653,050	10/16/2012	Method and System for Streamlining Multimedia Transmissions	US	Filed
Arris Enterprises, Inc.	NA	NA	13/664,154	10/30/2012	Remote Control Device with Integrated Display Screen for Controlling a Digital Video Recorder	US	Filed
Arris Enterprises, Inc.	NA	NA	13/669,050	11/05/2012	Alternative Set-top Gateway Source for DOCSIS 3.0	US	Filed
Arris Enterprises, Inc.	NA	NA	13/668,928	11/05/2012	Low-Latency Cost-Effective Upstream Scheduler	US	Filed
Arris Enterprises, Inc.	NA	NA	13/669,608	11/06/2012	Communication System and Techniques for Transmission from Source to Destination	US	Filed
Arris Enterprises, Inc.	NA	NA	61/727,947	11/19/2012	Power Saving Mode for MoCA 1.1 Clients	US	Filed
Arris Enterprises, Inc.	NA	NA	13/683,168	11/21/2012	AUTOMATED DOUBLE FIRMWARE UPGRADE	US	Filed



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Arris Enterprises, Inc.	NA	NA	13/709,848	12/10/2012	Video Frame Alignment in Adaptive Bitrate Streaming	US	Filed
Arris Enterprises, Inc.	NA	NA	13/710,526	12/11/2012	Method and System for Denying Cable Modem Access to a Broadband Network	US	Filed
ARRIS Solutions, Inc.	NA	NA	13/727,162	12/26/2012	Customer Premise Equipment Fraud Detection	US	Filed
ARRIS Solutions, Inc.	NA	NA	13/728,550	12/27/2012	Detecting Sub-Node Plant Service Conditions Using Subscriber Addresses	US	Filed
ARRIS Solutions, Inc.	NA	NA	13/763,601	2/8/2013	Managed Adaptive Streaming	US	Filed
Arris Enterprises, Inc.	NA	NA	13/770,024	2/19/2013	Prioritized Channel Scanning	US	Filed
Arris Enterprises, Inc.	NA	NA	13/770,380	2/19/2013	Method and System for Selecting from a Plurality of Configuration Profile Records for Channel Bonding Operation	US	Filed
Arris Enterprises, Inc.	NA	NA	13/772,486	2/21/2013	Low-Latency Quality of Service	US	Filed
Arris Enterprises, Inc.	NA	NA	13/777,689	2/26/2013	Designing Integrated Circuits for High Thermal Reliability	US	Filed
ARRIS Solutions, Inc.	NA	NA	13/788,508	3/7/2013	Location-Based Data Stream Composition	US	Filed
Arris Enterprises, Inc.	NA	NA	13/798,055	3/12/2013	Packet Reflection Identification in CPE Devices	US	Filed
ARRIS Solutions, Inc.	NA	NA	13/804,745	3/14/2013	Digitization and Transport of Return Paths Employing Different Frequency Spectrums	US	Filed
Arris Enterprises, Inc.	NA	NA	13/832,756	3/15/2013	M-CMTS, Edge-QAM and Upstream Receiver Core Timing Synchronization	US	Filed
Arris Enterprises, Inc.	NA	NA	13/833,450	3/15/2013	Re-Synchronization of Timing between Communication Devices	US	Filed
Arris Enterprises, Inc.	NA	NA	13/843,104	3/15/2013	Identifying a Signal Route for Delivery of Video-on-Demand to a Subscriber Terminal	US	Filed

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Arris Enterprises, Inc.	NA	NA	13/850,495	3/26/2013	Cable Television Cloud Computing Services	US	Filed
Arris Enterprises, Inc.	NA	NA	13/854,902	4/1/2013	Network-administered Conference Call Using SIP Messaging	US	Filed
Arris Enterprises, Inc.	NA	NA	13/854,906	4/1/2013	Mobile Communication Device Using Android Framework to Facilitate Handover of On-Hold Session between Fixed Packet Network and Cellular Network	US	Filed
Arris Enterprises, Inc.	NA	NA	13/854,908	4/1/2013	Enhanced Services Based Upon Information Associated with a Wireless Access Point	US	Filed
Arris Enterprises, Inc.	NA	NA	61/772,242	3/4/2013	MoCA Setup and WiFi Pairing	US	Filed
ARRIS Solutions, Inc.	NA	NA	61/774,011	3/7/2013	Optical Transmitter with AM and FM Modulation	US	Filed
Arris Enterprises, Inc.	NA	NA	61/774,061	3/7/2013	An Extension to Materialized View Constructs in Relational Database Query Language	US	Filed
ARRIS Solutions, Inc.	NA	NA	61/774,397	3/7/2013	A Method for Qualifying a Residence for WiFi Service	US	Filed
Arris Enterprises, Inc.	NA	NA	61/775,150	3/8/2013	Improving Performance of Channel Changes using Dynamic Bonding Change	US	Filed
Arris Enterprises, Inc.	NA	NA	61/779,752	3/13/2013	Detecting Plant Degradation using Peer-Comparison	US	Filed
Arris Enterprises, Inc.	NA	NA	61/781,223	3/14/2013	Channel Tuning Performance Acceleration by Periodically Acquiring Channel Tuning Information	US	Filed
Arris Enterprises, Inc.	NA	NA	61/783,633	3/14/2013	Impedance Balanced Differential Thermistor	US	Filed
ARRIS Solutions, Inc.	NA	NA	61/783,899	3/14/2013	Optimizing Sliding Window View Constructs in Relational Database	US	Filed

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Arris Enterprises, Inc.	NA	NA	61/790,171	3/15/2013	Parallel Low-Density Parity Check (LDPC) Accumulation	US	Filed
Arris Enterprises, Inc.	NA	NA	61/800,689	3/15/2013	Hybrid Promotion Cache for Video Delivery Services	US	Filed
General Instrument Corporation	NA	NA	13/662600	NA	SEAMLESS AUTHORIZED ACCESS TO AN ELECTRONIC DEVICE	US	Filed
General Instrument Corporation	NA	NA	13/827668	NA	ADVERTISEMENT INSERTION	US	Filed
General Instrument Corporation	NA	NA	13/793650	NA	INFERRING ATTRIBUTE AND ITEM PREFERENCES	US	Filed
General Instrument Corporation	NA	NA	13/794735	NA	SYSTEMS AND METHODS FOR INTERACTIVE BROADCAST CONTENT	US	Filed
General Instrument Corporation	NA	NA	13/802185	NA	METHOD AND APPARATUS FOR ENABLING DISCOVERY AND COMMUNICATIONS BETWEEN UNRELATED BROWSER SESSIONS	US	Filed
General Instrument Corporation	NA	NA	13/798391	NA	CONTEXT DEMOGRAPHIC DETERMINATION SYSTEM	US	Filed
General Instrument Corporation	NA	NA	13/831096	NA	AUTOMATED TRANSFER OF A UNIQUE IDENTIFIER FOR A CONSUMER ELECTRONICS DEVICE	US	Filed
General Instrument Corporation	NA	NA	13/798367	NA	CONTEXT EMOTION DETERMINATION SYSTEM	US	Filed
General Instrument Corporation	NA	NA	29/448217	NA	GRAPHICAL USER INTERFACE FOR A DISPLAY SCREEN	US	Filed
General Instrument Corporation	NA	NA	13/741616	NA	DISPLAYING A STATISTICALLY SIGNIFICANT RELATION	US	Filed

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General Instrument Corporation	NA	NA	13/798337	NA	CONTEXT HEALTH DETERMINATION SYSTEM	US	Filed
General Instrument Corporation	NA	NA	61/590805	NA	New Level Parameter Updating Table in CABAC for HEVC	US	Inactive
General Instrument Corporation	NA	NA	61/730953	NA	THE MODIFICATIONS OF SYNTAX RELATED TO TRANSFORM SKIP FOR HEVC	US	Filed
General Instrument Corporation	NA	NA	61/794814	NA	DEVICES AND METHODS FOR MODIFICATIONS OF SYNTAX RELATED TO TRANSFORM SKIP FOR HIGH EFFICIENCY VIDEO CODING (HEVC)	US	Filed
General Instrument Corporation	NA	NA	13/830898	NA	DEVICES SYSTEMS AND METHODS FOR MANAGING AND ADJUSTING ADAPTIVE STREAMING TRAFFIC	US	Filed
General Instrument Corporation	NA	NA	13/777090	NA	RESPONDING TO A POSSIBLE PRIVACY LEAK	US	Filed
General Instrument Corporation	NA	NA	13/762942	NA	IDENTIFYING AND PREVENTING LEAKS OF SENSITIVE INFORMATION	US	Filed
General Instrument Corporation	NA	NA	13/794763	NA	TELESTRATION SYSTEM FOR COMMAND PROCESSING	US	Filed
General Instrument Corporation	NA	NA	13/802073	NA	ONLINE PERSONALIZATION UPDATE SYSTEM FOR EXTERNALLY ACQUIRED KEYS	US	Filed
General Instrument Corporation	NA	NA	13/841192	NA	REMOTE TRIGGER COMMAND TO RECALL COMPLEX NAVIGATION	US	Filed

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
General Instrument Corporation	NF	NF	NF	NF	System and method for associating a URI with an IR (or RF) command of a remote control device	US	combined with and filed under CS39935
General Instrument Corporation	NA	NA	13/754101	NA	AUTHENTICATION USING A SUBSET OF A USER-KNOWN CODE SEQUENCE	US	Filed
General Instrument Corporation	NA	NA	13/830616	NA	PROVIDING USER CONTENT WITH STREAMED MEDIA CHUNKS	US	Filed
General Instrument Corporation	NA	NA	13/794753	NA	SIGNATURE MATCHING OF CORRUPTED AUDIO SIGNAL	US	Filed
General Instrument Corporation	NA	NA	13/837679	NA	METHOD AND APPARATUS FOR ADDING AND DISPLAYING AN INLINE REPLY WITHIN A VIDEO MESSAGE	US	Filed
General Instrument Corporation	NA	NA	13/760302	NA	METHOD OF OPERATING AN IP CLIENT	US	Filed
General Instrument Corporation	NF	NF	NF	NF	Method for digital rights management in a modal computing system	US	disposition changed to Not Pursue per attorney instructions on 3/1/2013
General Instrument Corporation	NF	NF	NF	NF	Long term storage and Replay of the Social Media Associated with Classic TV Events	US	Docketed

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
General Instrument Corporation	NA	NA	61/802381	NA	PROCESSING OF USER-SPECIFIC SOCIAL MEDIA FOR TIME-SHIFTED MULTIMEDIA CONTENT	US	Filed
General Instrument Corporation	NA	NA	61/794638	NA	TIME SHIFT BUFFER SUPPORT FOR STREAMER	US	Filed
General Instrument Corporation	NF	NF	NF	NF	Encryption parameter signaling in a playlist	US	disposition changed to Not Pursue on 3/11/2013
General Instrument Corporation	NF	NF	NF	NF	A method of secure creation ,protection and usage of Rights object using Software obfuscation tools like Cloakware for streaming sync and go and Video on Demand use cases of content	US	status changed to Trade Secret on 3/26
General Instrument Corporation	NA	NA	13/832191	NA	METHODS OF IMPLEMENTING TRICKPLAY	US	Filed
General Instrument Corporation	NA	NA	13/787771	NA	CONTROL DEVICE	US	Filed
General Instrument Corporation	NA	NA	13/830504	NA	PROCESSING PATH SIGNATURES FOR PROCESSING ELEMENTS IN ENCODED VIDEO	US	Filed
General Instrument Corporation	NA	NA	13/841569	NA	DEVICES AND METHODS FOR PROVIDING NAVIGATION IMAGES ASSOCIATED WITH ADAPTIVE BIT RATE VIDEO CONTENT	US	Filed

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
General Instrument Corporation	NA	NA	13/723157	NA	SYSTEM APPAREL AND METHOD FOR IDENTIFYING PERFORMANCE OF WORKOUT ROUTINES	US	Filed
General Instrument Corporation	NA	NA	13/844373	NA	METHOD USING EQUALIZATION DATA TO DETERMINE DEFECTS IN A CABLE PLANT	US	Filed
General Instrument Corporation	NA	NA	13/844523	NA	METHOD FOR IDENTIFYING AND PRIORITIZING FAULT LOCATION IN A CABLE PLANT	US	Filed
General Instrument Corporation	NA	NA	13/844716	NA	METHOD FOR ESTIMATING CABLE PLANT TOPOLOGY	US	Filed
General Instrument Corporation	NF	NF	NF	NF	Estimation of network path and elements using geo data	US	NF
General Instrument Corporation	NA	NA	13/844727		METHOD FOR IDENTIFYING FAULT LOCATION IN NETWORK TRUNK	US	Filed
General Instrument Corporation	NA	NA	13/774489		EXTENDING BLACKOUT CONTROL	US	
General Instrument Corporation	NF	NF	NF	NF	Using Closed-Captioning textual search as an enhanced Parental Content Control	US	Docketed
General Instrument Corporation (1/5 inventors)	NA	NA	13/842110		METHOD AND APPARATUS FOR EMBEDDING SECRET INFORMATION IN DIGITAL CERTIFICATES	US	Filed

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
General Instrument Corporation	NA	NA	13/832262		METHOD AND APPARATUS FOR PROVIDING TRICK-PLAY CAPABILITY WHEN PRESENTING LINEAR CONTENT	US	Filed
General Instrument Corporation	NA	NA	29/448521		iP800 Design patent	US	Filed
General Instrument Corporation	NA	NA	29/448521		SET TOP BOX	US	Filed
General Instrument Corporation	NA	NA	61/800954		SYSTEM AND METHOD FOR OPTIMIZING STORAGE AND TRANSCODING COSTS IN NETWORK DVR	US	Filed
General Instrument Corporation	NA	NA	13/830558		DEVICES AND METHODS FOR DYNAMIC VIDEO PROCESSING	US	Filed
General Instrument Corporation	6553062		09/140716		APPARATUS AND METHOD FOR SELECTING DIFFERENT COMMUNICATION SPEEDS ON A DATA SIGNAL LINE	US	Granted
General Instrument Corporation	6381213		09/307258		METHOD AND APPARATUS FOR DETECTING COLLISIONS ON A NETWORK	US	Granted
General Instrument Corporation	6457175		09/189023		METHOD AND APPARATUS FOR INSTALLING A SOFTWARE UPGRADE WITHIN A MEMORY RESOURCE ASSOCIATED WITH A COMPUTER SYSTEM	US	Granted



Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
General Instrument Corporation	6289015		09/156570		METHOD AND APPARATUS FOR THE SECURE SWITCHING OF A PACKET WITHIN A COMMUNICATIONS NETWORK	US	Granted
General Instrument Corporation	5982741		09/156573		METHOD AND APPARATUS FOR AUTOMATICALLY REDUCING CROSS-TALK BETWEEN WIRES COUPLED TO A COMMON NETWORK DEVICE	US	Granted
General Instrument Corporation	5,982,741		09/156,573		METHOD AND APPARATUS FOR AUTOMATICALLY REDUCING CROSS-TALK BETWEEN WIRES COUPLED TO A COMMON NETWORK DEVICE	US	Granted
General Instrument Corporation	6073172		08/892301		INITIALIZING AND RECONFIGURING A SECURE NETWORK INTERFACE	US	Granted
General Instrument Corporation	6230194		08/897214		INITIALIZING AND RECONFIGURING A SECURE NETWORK INTERFACE	US	Granted
General Instrument Corporation	5379005		08/092721		FLAT CABLE TO FLAT PARALLEL WIRE CABLE	US	Granted
General Instrument Corporation	5467061		08/320606		FLAT CABLE TO FLAT PARALLEL WIRE CABLE	US	Granted
General Instrument Corporation	5450594		08/172489		ENHANCED COLLISION DETECTION FOR ETHERNET NETWORK	US	Granted
General Instrument Corporation	5696790		08/538847		METHOD AND APPARATUS FOR TIME DEPENDENT DATA TRANSMISSION	US	Granted

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
General Instrument Corporation	6246718		09/199113		METHOD AND APPARATUS FOR ENCODING AND DECODING A BIT SEQUENCE FOR TRANSMISSION OVER POTS WIRING	US	Granted
General Instrument Corporation	6879645		09/153811		METHOD AND APPARATUS FOR DYNAMICALLY VARYING THE NOISE SENSITIVITY OF A RECEIVER	US	Granted
General Instrument Corporation	6735217		09/153635		METHOD AND APPARATUS FOR DETECTING A DATA SIGNAL ON A CARRIER MEDIUM	US	Granted
General Instrument Corporation	6879644		09/153810		METHOD AND APPARATUS FOR AUTOMATICALLY DETERMINING A PEAK VOLTAGE LEVEL FOR A DATA SIGNAL PROPAGATED ON A CARRIER MEDIUM	US	Granted
General Instrument Corporation	6292517		09/153305		METHOD AND APPARATUS FOR DETECTING A DATA SIGNAL ON A CARRIER MEDIUM	US	Granted
General Instrument Corporation	6771774		09/454251		FILTER ARRANGEMENT FOR SHAPING A PULSE PROPAGATED OVER POTS WIRING AND A METHOD OF MANUFACTURING THE SAME	US	Granted
Setjam, Inc.	NA	NA	13/540792		DATA PROCESSING	US	Filed
Setjam, Inc.	NA	NA	13/540754		DATA PROCESSING	US	Filed
Setjam, Inc.	NA	NA	13/540776		DATA PROCESSING	US	Filed

Registered Owner	Patent #	Issue/Grant Date	Application #	Filing Date	Title	Jurisdiction	Status
Setjam, Inc.	NA	NA	13/397704		AGGREGATING AND NORMALIZING ENTERTAINMENT MEDIA	US	Filed
Setjam, Inc.	NA	NA	PCT/US12/25590		AGGREGATING AND NORMALIZING ENTERTAINMENT MEDIA	US	Filed