

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3218577

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROCKSTAR CONSORTIUM US LP	01/28/2015
ROCKSTAR CONSORTIUM LLC	01/28/2015
BOCKSTAR TECHNOLOGIES LLC	01/28/2015
CONSTELLATION TECHNOLOGIES LLC	01/28/2015
MOBILESTAR TECHNOLOGIES LLC	01/28/2015
NETSTAR TECHNOLOGIES LLC	01/28/2015

RECEIVING PARTY DATA

Name:	RPX CLEARINGHOUSE LLC
Street Address:	ONE MARKET PLAZA, STEUART TOWER
Internal Address:	SUITE 800
City:	SAN FRANCISCO
State/Country:	CALIFORNIA
Postal Code:	94105

PROPERTY NUMBERS Total: 2651

Property Type	Number
Application Number:	09604807
Application Number:	13297575
Application Number:	09783002
Application Number:	10181288
Application Number:	12241539
Application Number:	10196825
Application Number:	10170149
Application Number:	10077987
Application Number:	10301713
Application Number:	10185097
Application Number:	10435326
Application Number:	11488799
Application Number:	10410949
Application Number:	13405846

Property Type	Number
Application Number:	10784743
Application Number:	10747967
Application Number:	10748938
Application Number:	13226872
Application Number:	13334979
Application Number:	10941201
Application Number:	10813230
Application Number:	12540030
Application Number:	13416142
Application Number:	11032632
Application Number:	13252595
Application Number:	10890043
Application Number:	10880199
Application Number:	13289126
Application Number:	10956323
Application Number:	10922709
Application Number:	11040684
Application Number:	12577639
Application Number:	11364251
Application Number:	11316000
Application Number:	13531678
Application Number:	11270319
Application Number:	12094623
Application Number:	11268887
Application Number:	12966733
Application Number:	11268419
Application Number:	11214394
Application Number:	13167251
Application Number:	13713548
Application Number:	11251252
Application Number:	13680391
Application Number:	11615249
Application Number:	11471872
Application Number:	11321207
Application Number:	12064477
Application Number:	12886630
Application Number:	11312675
Application Number:	11469395

Property Type	Number
Application Number:	11469422
Application Number:	12096238
Application Number:	12096229
Application Number:	11457649
Application Number:	11502570
Application Number:	11475524
Application Number:	11419875
Application Number:	11529221
Application Number:	11480316
Application Number:	11429564
Application Number:	11536304
Application Number:	13276833
Application Number:	11531993
Application Number:	11761339
Application Number:	11963322
Application Number:	12299719
Application Number:	11535677
Application Number:	11766271
Application Number:	13465648
Application Number:	11600492
Application Number:	11867288
Application Number:	11617189
Application Number:	11944814
Application Number:	11960317
Application Number:	11964753
Application Number:	11610878
Application Number:	11960341
Application Number:	11755205
Application Number:	11732381
Application Number:	11961833
Application Number:	11724981
Application Number:	13301142
Application Number:	12002361
Application Number:	11773745
Application Number:	11964534
Application Number:	12183616
Application Number:	13358852
Application Number:	12334202

Property Type	Number
Application Number:	12151684
Application Number:	12210047
Application Number:	11954097
Application Number:	11850340
Application Number:	12179289
Application Number:	11932487
Application Number:	12167460
Application Number:	11955950
Application Number:	12151682
Application Number:	12262200
Application Number:	12196523
Application Number:	13561040
Application Number:	13446469
Application Number:	12341335
Application Number:	12493620
Application Number:	12343999
Application Number:	12347212
Application Number:	12190209
Application Number:	12344529
Application Number:	12394093
Application Number:	12259560
Application Number:	12169189
Application Number:	12390971
Application Number:	12267571
Application Number:	12342174
Application Number:	12168678
Application Number:	12626975
Application Number:	12458108
Application Number:	13132464
Application Number:	12341845
Application Number:	13277781
Application Number:	12494594
Application Number:	12323002
Application Number:	13119630
Application Number:	13547326
Application Number:	09460589
Application Number:	11759481
Application Number:	11759508

Property Type	Number
Application Number:	12632400
Application Number:	14230279
Application Number:	14324787
Application Number:	14333538
Application Number:	09731399
Application Number:	14133936
Application Number:	14134230
Application Number:	14336116
Application Number:	13872458
Application Number:	14287762
Application Number:	14257256
Application Number:	14194933
Application Number:	13892562
Application Number:	14335330
Application Number:	13848578
Application Number:	13652109
Application Number:	14291150
Application Number:	14087211
Application Number:	13867237
Application Number:	13896810
Application Number:	14252474
Application Number:	13971469
Application Number:	13896762
Application Number:	14030642
Application Number:	14187862
Application Number:	13715437
Application Number:	14340916
Application Number:	14286235
Application Number:	14165791
Application Number:	14245168
Application Number:	14034187
Application Number:	14291121
Application Number:	14298487
Application Number:	14075305
Application Number:	14136806
Application Number:	14154856
Application Number:	14084376
Application Number:	13897812

Property Type	Number
Application Number:	14094286
Application Number:	14216278
Application Number:	14176223
Application Number:	14311434
Application Number:	14299118
Application Number:	14313261
Application Number:	13797226
Application Number:	13797255
Application Number:	12982542
Application Number:	13168802
Application Number:	09557890
Application Number:	13958806
Application Number:	13183732
Application Number:	13755320
Application Number:	14024829
Application Number:	14025004
Application Number:	14026237
Application Number:	14026357
Application Number:	14035002
Application Number:	09716408
Application Number:	10034431
Application Number:	10023169
Application Number:	09981444
Application Number:	13936506
Application Number:	13936547
Application Number:	12883996
Application Number:	10106366
Application Number:	12850896
Application Number:	14317489
Application Number:	14142303
Application Number:	13645137
Application Number:	10658701
Application Number:	13164227
Application Number:	10813003
Application Number:	14169646
Application Number:	13442191
Application Number:	14029342
Application Number:	13195948

Property Type	Number
Application Number:	10750531
Application Number:	12623563
Application Number:	13228598
Application Number:	13330361
Application Number:	13932602
Application Number:	13931085
Application Number:	13888822
Application Number:	12286894
Application Number:	13300824
Application Number:	14093900
Application Number:	13887744
Application Number:	13683668
Application Number:	14093976
Application Number:	12081684
Application Number:	14030403
Application Number:	14053058
Application Number:	14147896
Application Number:	14054378
Application Number:	10970975
Application Number:	10890007
Application Number:	13726894
Application Number:	14100129
Application Number:	10946982
Application Number:	13482010
Application Number:	11053044
Application Number:	12512363
Application Number:	11008999
Application Number:	13928602
Application Number:	13899113
Application Number:	11316061
Application Number:	13493248
Application Number:	13858446
Application Number:	13668649
Application Number:	11304071
Application Number:	11170211
Application Number:	13932841
Application Number:	11269219
Application Number:	11313309

Property Type	Number
Application Number:	13720188
Application Number:	13678719
Application Number:	13925196
Application Number:	14021063
Application Number:	11298673
Application Number:	11755190
Application Number:	13051030
Application Number:	14341287
Application Number:	11369460
Application Number:	11357090
Application Number:	11469416
Application Number:	13947217
Application Number:	13947288
Application Number:	13588126
Application Number:	13595011
Application Number:	13306417
Application Number:	11556898
Application Number:	11502571
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Application Number:	14185248
Application Number:	11433940
Application Number:	13275896
Application Number:	11536414
Application Number:	11477975
Application Number:	13452983
Application Number:	13469662
Application Number:	11679897
Application Number:	13629863
Application Number:	13936340
Application Number:	13302704
Application Number:	11546170
Application Number:	14290286
Application Number:	11621280
Application Number:	13934506
Application Number:	11616685
Application Number:	13439987
Application Number:	13928053
Application Number:	11963172

Property Type	Number
Application Number:	11613493
Application Number:	11615338
Application Number:	14444116
Application Number:	13281533
Application Number:	14258238
Application Number:	12326646
Application Number:	13693312
Application Number:	14043013
Application Number:	13752015
Application Number:	13416161
Application Number:	13110970
Application Number:	13546144
Application Number:	14093977
Application Number:	13873623
Application Number:	13226601
Application Number:	11961806
Application Number:	12129373
Application Number:	12741774
Application Number:	14109021
Application Number:	14034698
Application Number:	13783710
Application Number:	12991837
Application Number:	13451776
Application Number:	14099717
Application Number:	12992122
Application Number:	13044905
Application Number:	13453011
Application Number:	14031601
Application Number:	12993322
Application Number:	14078068
Application Number:	13680840
Application Number:	12420976
Application Number:	13123077
Application Number:	14296077
Application Number:	13754177
Application Number:	11996735
Application Number:	14246649
Application Number:	13813008

Property Type	Number
Application Number:	13261253
Application Number:	14109281
Application Number:	13914680
Application Number:	90007192
Application Number:	14179981
Application Number:	11767598
Application Number:	13031478
Application Number:	13723642
Application Number:	13723670
Application Number:	13724032
Application Number:	13724369
Application Number:	13724495
Application Number:	13845955
Application Number:	14093479
Application Number:	14131155
Application Number:	14093477
Application Number:	14131131
Application Number:	14299585
Application Number:	14139145
Application Number:	14225093
Application Number:	14225120
Application Number:	14225149
Application Number:	14225180
Application Number:	14225194
Application Number:	09600054
Application Number:	09375710
Application Number:	09414589
Application Number:	14313625
Application Number:	09511065
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Application Number:	14528612
Application Number:	14023832
Application Number:	14330846
Application Number:	09749758
Application Number:	09189619
Application Number:	10167378
Application Number:	09526580
Application Number:	14195188

Property Type	Number
Application Number:	09827086
Application Number:	14329456
Application Number:	14302067
Application Number:	14317401
Application Number:	14223550
Application Number:	14319551
Application Number:	13860092
Application Number:	13934873
Application Number:	14219222
Application Number:	14219796
Application Number:	13908189
Application Number:	14078029
Application Number:	14497485
Application Number:	14282695
Application Number:	14293482
Application Number:	14302207
Application Number:	14070959
Application Number:	14293201
Application Number:	14159935
Application Number:	14534321
Application Number:	14453954
Application Number:	14045238
Application Number:	14470390
Application Number:	14029319
Application Number:	14057555
Application Number:	13909606
Application Number:	14265528
Application Number:	14268044
Application Number:	13547310
Application Number:	14211236
Application Number:	12750086
Application Number:	14454804
Application Number:	14133012
Application Number:	14290404
Application Number:	14508220
Application Number:	14302995
Application Number:	13668818
Application Number:	14478001

Property Type	Number
Application Number:	14493761
Application Number:	14487728
Application Number:	14105639
Application Number:	14502176
Application Number:	14171009
Application Number:	14285830
Application Number:	14280155
Application Number:	14291291
Application Number:	14515711
Application Number:	14489625
Application Number:	14245525
Application Number:	14324754
Application Number:	14319920
Application Number:	13915683
Application Number:	14322332
Application Number:	14527958
Application Number:	14448129
Application Number:	14505119
Application Number:	14322166
Application Number:	14500008
Application Number:	14211390
Application Number:	14341611
Application Number:	13947324
Application Number:	13909635
Application Number:	14032294
Application Number:	14032312
Application Number:	14485130
Application Number:	14492808
Application Number:	14485739
Application Number:	14251999
Application Number:	13632350
Application Number:	14486606
Application Number:	14508226
Application Number:	14321228
Application Number:	14548787
Application Number:	14204242
Application Number:	14176065
Application Number:	13864863

Property Type	Number
Application Number:	13865395
Application Number:	13865420
Application Number:	14310767
Application Number:	14102278
Application Number:	14507338
Application Number:	14169512
Application Number:	14501890
Application Number:	14553127
Application Number:	14565701
Application Number:	14520724
Application Number:	14489925
Application Number:	14467107
Application Number:	14523014
Application Number:	13911528
Application Number:	14187658
Application Number:	14563035
Application Number:	14357096
Application Number:	14324406
Application Number:	14338419
Application Number:	13567653
Application Number:	14526991
Application Number:	14471122
Application Number:	14457867
Application Number:	08712679
Application Number:	09062393
Application Number:	09460273
Application Number:	09036374
Application Number:	09110104
Application Number:	14330060
Application Number:	09304438
Application Number:	09215260
Application Number:	09219437
Application Number:	14463818
Application Number:	09408619
Application Number:	09300131
Application Number:	61909054
Application Number:	61911244
Application Number:	90012918

Property Type	Number
Application Number:	07885951
Application Number:	08216011
Application Number:	07788081
Application Number:	07825531
Application Number:	08492496
Application Number:	08216254
Application Number:	08189049
Application Number:	29055144
Application Number:	29076119
Application Number:	29089324
Application Number:	29099452
Application Number:	29090556
Application Number:	29090414
Application Number:	29090872
Application Number:	08137453
Application Number:	08041378
Application Number:	08080544
Application Number:	08638084
Application Number:	08080543
Application Number:	08205333
Application Number:	07858293
Application Number:	08033227
Application Number:	07868941
Application Number:	08104265
Application Number:	07858377
Application Number:	07868940
Application Number:	07906192
Application Number:	08426438
Application Number:	07921671
Application Number:	08013560
Application Number:	08013711
Application Number:	08041377
Application Number:	08246207
Application Number:	08180155
Application Number:	29044661
Application Number:	29044814
Application Number:	29061305
Application Number:	29064889

Property Type	Number
Application Number:	09338693
Application Number:	09473746
Application Number:	09663568
Application Number:	09333269
Application Number:	09369944
Application Number:	09465645
Application Number:	09417047
Application Number:	09404043
Application Number:	10856163
Application Number:	09390214
Application Number:	09401919
Application Number:	09522096
Application Number:	09351342
Application Number:	09455090
Application Number:	09398370
Application Number:	10444397
Application Number:	12661895
Application Number:	13222900
Application Number:	09472449
Application Number:	09358994
Application Number:	09519668
Application Number:	09359538
Application Number:	09465340
Application Number:	09335836
Application Number:	09354372
Application Number:	09356041
Application Number:	09392534
Application Number:	09335203
Application Number:	09405095
Application Number:	09528232
Application Number:	09270733
Application Number:	09320585
Application Number:	09339920
Application Number:	09345453
Application Number:	09437927
Application Number:	09475047
Application Number:	09475308
Application Number:	11034839

Property Type	Number
Application Number:	09327561
Application Number:	09362886
Application Number:	10360680
Application Number:	09337536
Application Number:	09513244
Application Number:	09436991
Application Number:	09588904
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Application Number:	09349348
Application Number:	09437063
Application Number:	09470995
Application Number:	09391418
Application Number:	09404797
Application Number:	09469783
Application Number:	10692782
Application Number:	09315042
Application Number:	09386282
Application Number:	09635073
Application Number:	09374528
Application Number:	09472151
Application Number:	09337069
Application Number:	09385939
Application Number:	09603355
Application Number:	09410314
Application Number:	09472228
Application Number:	09428656
Application Number:	09411283
Application Number:	09585421
Application Number:	10852890
Application Number:	09474124
Application Number:	09460780
Application Number:	09461119
Application Number:	09461492
Application Number:	09387036
Application Number:	09472910
Application Number:	11827142
Application Number:	09745890

Property Type	Number
Application Number:	09235869
Application Number:	09205041
Application Number:	10264053
Application Number:	09375709
Application Number:	09559459
Application Number:	09589414
Application Number:	09517432
Application Number:	09468977
Application Number:	09595551
Application Number:	09434954
Application Number:	09431566
Application Number:	09474540
Application Number:	09430045
Application Number:	09401955
Application Number:	09460781
Application Number:	09461654
Application Number:	09461023
Application Number:	09466640
Application Number:	09471136
Application Number:	09374805
Application Number:	09375759
Application Number:	09375758
Application Number:	09432697
Application Number:	09354651
Application Number:	09374806
Application Number:	09408960
Application Number:	09474542
Application Number:	09368276
Application Number:	09480509
Application Number:	10825541
Application Number:	09470630
Application Number:	09410317
Application Number:	09459548
Application Number:	09639075
Application Number:	09459546
Application Number:	09471141
Application Number:	09474541
Application Number:	10199797

Property Type	Number
Application Number:	09561834
Application Number:	11394693
Application Number:	11395929
Application Number:	09545660
Application Number:	09474125
Application Number:	09695108
Application Number:	09466663
Application Number:	10751635
Application Number:	09475044
Application Number:	09472643
Application Number:	09428808
Application Number:	09492046
Application Number:	10718098
Application Number:	09431994
Application Number:	09566391
Application Number:	09540362
Application Number:	09414590
Application Number:	09661112
Application Number:	09417769
Application Number:	09472627
Application Number:	09466619
Application Number:	09514932
Application Number:	09453282
Application Number:	09540756
Application Number:	09420295
Application Number:	09587036
Application Number:	09414762
Application Number:	11301746
Application Number:	13162496
Application Number:	13665072
Application Number:	09595715
Application Number:	09474543
Application Number:	09474544
Application Number:	09422646
Application Number:	09436563
Application Number:	09869679
Application Number:	09422106
Application Number:	09469623

Property Type	Number
Application Number:	10148420
Application Number:	09542007
Application Number:	09749455
Application Number:	09688289
Application Number:	09459044
Application Number:	09546092
Application Number:	09595937
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Application Number:	09540642
Application Number:	09616343
Application Number:	09723587
Application Number:	09609295
Application Number:	09557451
Application Number:	09527584
Application Number:	09473723
Application Number:	09520853
Application Number:	09563864
Application Number:	10927643
Application Number:	09724454
Application Number:	09553135
Application Number:	09753341
Application Number:	10932373
Application Number:	09636701
Application Number:	09750871
Application Number:	09567512
Application Number:	09517903
Application Number:	09614601
Application Number:	09629787
Application Number:	09739066
Application Number:	09696957

Property Type	Number
Application Number:	09571160
Application Number:	09567630
Application Number:	09589326
Application Number:	10980095
Application Number:	13740759
Application Number:	09545545
Application Number:	09584363
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Application Number:	13205115
Application Number:	09859544
Application Number:	09750015
Application Number:	11113050
Application Number:	09617232
Application Number:	09640009
Application Number:	09537721
Application Number:	09522325
Application Number:	13007576
Application Number:	13566156
Application Number:	13929508
Application Number:	09585669
Application Number:	09598867
Application Number:	09679461
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Application Number:	09603080
Application Number:	09578627
Application Number:	09512910
Application Number:	09637744
Application Number:	09740932
Application Number:	09747239
Application Number:	09746999
Application Number:	09607007

Property Type	Number
Application Number:	09697221
Application Number:	09750868
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Application Number:	09603354
Application Number:	09638580
Application Number:	09606053
Application Number:	09625175
Application Number:	09752838
Application Number:	09624029
Application Number:	09545547
Application Number:	09604770
Application Number:	09724488
Application Number:	09539124
Application Number:	09539126
Application Number:	09574011
Application Number:	09685279
Application Number:	09794317
Application Number:	09982677
Application Number:	09545546
Application Number:	09558573
Application Number:	09653984
Application Number:	11031715
Application Number:	10246408
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Application Number:	09660688
Application Number:	11205577
Application Number:	09660143
Application Number:	09661273
Application Number:	13727800
Application Number:	09636594
Application Number:	09685090
Application Number:	09634101
Application Number:	09697822
Application Number:	09630942
Application Number:	09635898
Application Number:	09636595
Application Number:	09566603

Property Type	Number
Application Number:	09566602
Application Number:	09566604
Application Number:	10240212
Application Number:	09624239
Application Number:	09666299
Application Number:	09741257
Application Number:	09745812
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Application Number:	09580865
Application Number:	09717292
Application Number:	09723018
Application Number:	09584330
Application Number:	09741041
Application Number:	10963262
Application Number:	09664373
Application Number:	09672979
Application Number:	09714082
Application Number:	10275392
Application Number:	09692949
Application Number:	09876316
Application Number:	09666583
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Application Number:	09739528
Application Number:	09902362
Application Number:	09672816
Application Number:	10872434
Application Number:	09579501
Application Number:	09588699
Application Number:	09693132

Property Type	Number
Application Number:	09750903
Application Number:	09695969
Application Number:	09728418
Application Number:	09605236
Application Number:	09696125
Application Number:	09726029
Application Number:	09651188
Application Number:	10126700
Application Number:	09593697
Application Number:	09735471
Application Number:	09867175
Application Number:	09746421
Application Number:	09671140
Application Number:	10983497
Application Number:	09748076
Application Number:	09954192
Application Number:	09640701
Application Number:	09726758
Application Number:	09660196
Application Number:	10014805
Application Number:	09735537
Application Number:	09648767
Application Number:	09736210
Application Number:	09711056
Application Number:	09223047
Application Number:	10435316
Application Number:	10969748
Application Number:	09667667
Application Number:	09687358
Application Number:	09648622
Application Number:	09738983
Application Number:	09852995
Application Number:	09850130
Application Number:	09726027
Application Number:	11287259
Application Number:	09709576
Application Number:	10659320
Application Number:	09713292

Property Type	Number
Application Number:	09708381
Application Number:	09693100
Application Number:	09749435
Application Number:	09749470
Application Number:	09752143
Application Number:	09888889
Application Number:	09750174
Application Number:	09898205
Application Number:	09739902
Application Number:	09730505
Application Number:	09742139
Application Number:	09708662
Application Number:	09750304
Application Number:	09739977
Application Number:	09739714
Application Number:	09739882
Application Number:	09753229
Application Number:	10431388
Application Number:	09193753
Application Number:	09250879
Application Number:	09732259
Application Number:	09749946
Application Number:	10297775
Application Number:	10182360
Application Number:	09748757
Application Number:	09749406
Application Number:	09739277
Application Number:	09727644
Application Number:	09708383
Application Number:	09749411
Application Number:	09326079
Application Number:	09731420
Application Number:	09746578
Application Number:	09693191
Application Number:	10939023
Application Number:	09517151
Application Number:	09750873
Application Number:	09724322

Property Type	Number
Application Number:	10420733
Application Number:	10420734
Application Number:	09518448
Application Number:	09272112
Application Number:	09742049
Application Number:	09716594
Application Number:	09931643
Application Number:	09707015
Application Number:	10036125
Application Number:	09746423
Application Number:	09691347
Application Number:	09747697
Application Number:	09281406
Application Number:	09281404
Application Number:	10357637
Application Number:	09636806
Application Number:	10827715
Application Number:	09761054
Application Number:	09671863
Application Number:	09802195
Application Number:	09708782
Application Number:	09747296
Application Number:	09757904
Application Number:	09722968
Application Number:	09750071
Application Number:	09745202
Application Number:	09749945
Application Number:	09740706
Application Number:	10017521
Application Number:	09723019
Application Number:	09865667
Application Number:	09767098
Application Number:	09751060
Application Number:	09750766
Application Number:	12749270
Application Number:	13901107
Application Number:	09785340
Application Number:	09751289

Property Type	Number
Application Number:	09742683
Application Number:	13363786
Application Number:	09750062
Application Number:	09750204
Application Number:	09704291
Application Number:	09234177
Application Number:	09446540
Application Number:	09704439
Application Number:	10648025
Application Number:	10648956
Application Number:	10650543
Application Number:	10157354
Application Number:	10695109
Application Number:	09704444
Application Number:	10221867
Application Number:	09704445
Application Number:	08855883
Application Number:	09518364
Application Number:	10031159
Application Number:	09704458
Application Number:	09698362
Application Number:	09751796
Application Number:	09863319
Application Number:	09689101
Application Number:	09877150
Application Number:	09952328
Application Number:	09746124
Application Number:	09723591
Application Number:	09735500
Application Number:	10856733
Application Number:	09735501
Application Number:	10694566
Application Number:	09976643
Application Number:	09864844
Application Number:	09742347
Application Number:	09961379
Application Number:	09741401
Application Number:	09697120

Property Type	Number
Application Number:	10191512
Application Number:	11496727
Application Number:	29133148
Application Number:	10005328
Application Number:	09893258
Application Number:	09842298
Application Number:	10040975
Application Number:	09815323
Application Number:	09888883
Application Number:	09745887
Application Number:	09935819
Application Number:	09742232
Application Number:	09753025
Application Number:	09753345
Application Number:	09751058
Application Number:	10094655
Application Number:	09888730
Application Number:	09723388
Application Number:	09723835
Application Number:	09723836
Application Number:	09829978
Application Number:	09704457
Application Number:	29135001
Application Number:	09960959
Application Number:	09707280
Application Number:	10115561
Application Number:	09742042
Application Number:	09861822
Application Number:	09928745
Application Number:	09930548
Application Number:	09946736
Application Number:	10209904
Application Number:	10016777
Application Number:	09906548
Application Number:	09848743
Application Number:	09794125
Application Number:	10075436
Application Number:	09821722

Property Type	Number
Application Number:	29135361
Application Number:	10083305
Application Number:	09161589
Application Number:	09161588
Application Number:	10115396
Application Number:	09934446
Application Number:	09892492
Application Number:	09893493
Application Number:	09870665
Application Number:	10025615
Application Number:	09976721
Application Number:	09751461
Application Number:	09966502
Application Number:	10103416
Application Number:	09817796
Application Number:	10196884
Application Number:	12848715
Application Number:	13567180
Application Number:	10021975
Application Number:	10052128
Application Number:	10068472
Application Number:	09987164
Application Number:	10032411
Application Number:	10097268
Application Number:	09842236
Application Number:	09893498
Application Number:	10768050
Application Number:	10017509
Application Number:	09954406
Application Number:	10006942
Application Number:	10036247
Application Number:	10003252
Application Number:	09965810
Application Number:	10108514
Application Number:	10028510
Application Number:	09954136
Application Number:	09891011
Application Number:	09972911

Property Type	Number
Application Number:	10029148
Application Number:	10024020
Application Number:	10109918
Application Number:	10107332
Application Number:	10107876
Application Number:	10195531
Application Number:	10303015
Application Number:	11601394
Application Number:	11788581
Application Number:	13584105
Application Number:	10012339
Application Number:	10050091
Application Number:	09153585
Application Number:	10290314
Application Number:	10114100
Application Number:	10020457
Application Number:	10008082
Application Number:	10024996
Application Number:	10171526
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Application Number:	09984700
Application Number:	10032014
Application Number:	12110677
Application Number:	13212327
Application Number:	10143889
Application Number:	10058879
Application Number:	10274083
Application Number:	09999267

Property Type	Number
Application Number:	10191660
Application Number:	10054512
Application Number:	11625949
Application Number:	13792825
Application Number:	09993271
Application Number:	09991386
Application Number:	09973656
Application Number:	10081987
Application Number:	10013677
Application Number:	10177998
Application Number:	10180050
Application Number:	10326123
Application Number:	10178131
Application Number:	10172547
Application Number:	10224417
Application Number:	13334375
Application Number:	13724017
Application Number:	10172981
Application Number:	10076415
Application Number:	10054509
Application Number:	10054362
Application Number:	11696213
Application Number:	10037043
Application Number:	13325278
Application Number:	13325290
Application Number:	10054207
Application Number:	10139928
Application Number:	10101211
Application Number:	10079237
Application Number:	10185113
Application Number:	10102171
Application Number:	10264060
Application Number:	10077763
Application Number:	09930375
Application Number:	09933330
Application Number:	09933222
Application Number:	09933146
Application Number:	09969348

Property Type	Number
Application Number:	10152028
Application Number:	10106415
Application Number:	10407460
Application Number:	10113696
Application Number:	10232063
Application Number:	10106339
Application Number:	10102790
Application Number:	10225541
Application Number:	10316557
Application Number:	10195620
Application Number:	13413171
Application Number:	10437676
Application Number:	12051317
Application Number:	10106781
Application Number:	11002580
Application Number:	12365995
Application Number:	10267765
Application Number:	12782468
Application Number:	10265621
Application Number:	10425807
Application Number:	10326122
Application Number:	10100703
Application Number:	10119923
Application Number:	10176140
Application Number:	10212408
Application Number:	12804216
Application Number:	10331206
Application Number:	10301681
Application Number:	10262022
Application Number:	10090383
Application Number:	10175065
Application Number:	10172930
Application Number:	10323678
Application Number:	10259433
Application Number:	10336523
Application Number:	10266183
Application Number:	10179656
Application Number:	10326125

Property Type	Number
Application Number:	10325978
Application Number:	09388772
Application Number:	10385352
Application Number:	10176060
Application Number:	10139982
Application Number:	10326064
Application Number:	10797071
Application Number:	10186787
Application Number:	10283717
Application Number:	10194329
Application Number:	10262288
Application Number:	13047362
Application Number:	10389804
Application Number:	14064901
Application Number:	10261577
Application Number:	10384270
Application Number:	10383437
Application Number:	10384108
Application Number:	10259240
Application Number:	10390880
Application Number:	11152926
Application Number:	11553596
Application Number:	11619847
Application Number:	10385995
Application Number:	10253097
Application Number:	10194114
Application Number:	10286781
Application Number:	10774638
Application Number:	10324551
Application Number:	10209043
Application Number:	10364401
Application Number:	10192498
Application Number:	10390730
Application Number:	10744838
Application Number:	10326109
Application Number:	10326121
Application Number:	10324755
Application Number:	10238242

Property Type	Number
Application Number:	10180080
Application Number:	10690659
Application Number:	10615260
Application Number:	12463634
Application Number:	13180045
Application Number:	10321766
Application Number:	10738895
Application Number:	10252486
Application Number:	10289717
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Application Number:	10657939
Application Number:	10611392
Application Number:	12781908
Application Number:	10657953
Application Number:	10327587
Application Number:	10324609
Application Number:	10391809
Application Number:	10325143
Application Number:	10726905
Application Number:	10385965
Application Number:	10385942
Application Number:	10386091
Application Number:	10386093
Application Number:	10631711
Application Number:	10320574
Application Number:	12549584
Application Number:	13173875
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Application Number:	10692842
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Application Number:	10716599
Application Number:	10417437
Application Number:	10417455
Application Number:	10384047
Application Number:	10861387
Application Number:	10455557
Application Number:	10439531

Property Type	Number
Application Number:	10437006
Application Number:	10456249
Application Number:	10968518
Application Number:	10645489
Application Number:	10459475
Application Number:	10402186
Application Number:	10716731
Application Number:	10653289
Application Number:	10780557
Application Number:	11185542
Application Number:	12493801
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Application Number:	10385993
Application Number:	10386092
Application Number:	10385996
Application Number:	10403690
Application Number:	13304060
Application Number:	10667491
Application Number:	10697312
Application Number:	10617192
Application Number:	10755573
Application Number:	10375549
Application Number:	10661903
Application Number:	11552230
Application Number:	10616621
Application Number:	10647759
Application Number:	10693806
Application Number:	10403582
Application Number:	12732578
Application Number:	13689833
Application Number:	10745061
Application Number:	10648000
Application Number:	10678705
Application Number:	12730992
Application Number:	10610509

Property Type	Number
Application Number:	10610511
Application Number:	12824034
Application Number:	10437628
Application Number:	12427106
Application Number:	10864146
Application Number:	10666529
Application Number:	10645438
Application Number:	10686071
Application Number:	10732532
Application Number:	10682625
Application Number:	11858373
Application Number:	10620453
Application Number:	10447909
Application Number:	10701716
Application Number:	10688642
Application Number:	10701767
Application Number:	11002398
Application Number:	10675162
Application Number:	10741988
Application Number:	10883206
Application Number:	12190146
Application Number:	10674139
Application Number:	10819309
Application Number:	10723841
Application Number:	13804239
Application Number:	10678704
Application Number:	10682467
Application Number:	12135526
Application Number:	10746419
Application Number:	10746432
Application Number:	10794675
Application Number:	10670568
Application Number:	10610373
Application Number:	10610508
Application Number:	11010742
Application Number:	12427067
Application Number:	10606687
Application Number:	13021134

Property Type	Number
Application Number:	10878274
Application Number:	12330257
Application Number:	10891172
Application Number:	10737770
Application Number:	10746472
Application Number:	10697464
Application Number:	12572007
Application Number:	10967575
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Application Number:	10958675
Application Number:	10961630
Application Number:	10658384
Application Number:	10723831
Application Number:	10723808
Application Number:	10742196
Application Number:	10827181
Application Number:	10661657
Application Number:	10747968
Application Number:	10747346
Application Number:	13473181
Application Number:	10721335
Application Number:	10772433
Application Number:	10794104
Application Number:	10891982
Application Number:	12350333
Application Number:	10739299
Application Number:	10705274
Application Number:	10682472
Application Number:	10744769
Application Number:	10740763
Application Number:	13659763
Application Number:	10842591
Application Number:	10742039
Application Number:	10740416
Application Number:	12482187
Application Number:	13299997
Application Number:	10952619

Property Type	Number
Application Number:	10791414
Application Number:	10753296
Application Number:	11629548
Application Number:	10692233
Application Number:	10749828
Application Number:	10895557
Application Number:	10885212
Application Number:	10805975
Application Number:	10901081
Application Number:	10926104
Application Number:	10921953
Application Number:	12060616
Application Number:	10866482
Application Number:	10866622
Application Number:	13404508
Application Number:	10693539
Application Number:	10911378
Application Number:	10868536
Application Number:	10868568
Application Number:	10868607
Application Number:	12939304
Application Number:	10885279
Application Number:	13327829
Application Number:	10804740
Application Number:	10902639
Application Number:	10812264
Application Number:	10799703
Application Number:	13269667
Application Number:	10799704
Application Number:	13682800
Application Number:	10990899
Application Number:	11008709
Application Number:	11011331
Application Number:	11018671
Application Number:	10872582
Application Number:	10824226
Application Number:	10940459
Application Number:	10941719

Property Type	Number
Application Number:	10784864
Application Number:	10900369
Application Number:	13399456
Application Number:	10821090
Application Number:	10593108
Application Number:	11169718
Application Number:	12196909
Application Number:	13683672
Application Number:	10859994
Application Number:	13488132
Application Number:	10819349
Application Number:	10881296
Application Number:	13047128
Application Number:	10955162
Application Number:	10883207
Application Number:	12728459
Application Number:	13330042
Application Number:	10978385
Application Number:	10810244
Application Number:	12723010
Application Number:	10852317
Application Number:	10851032
Application Number:	13360860
Application Number:	13360867
Application Number:	10946322
Application Number:	10902634
Application Number:	10937573
Application Number:	10858979
Application Number:	13474210
Application Number:	10944565
Application Number:	11014962
Application Number:	10929461
Application Number:	13091870
Application Number:	11010741
Application Number:	10858076
Application Number:	12715752
Application Number:	11101993
Application Number:	10890054

Property Type	Number
Application Number:	10842129
Application Number:	12643936
Application Number:	13156178
Application Number:	10924512
Application Number:	11105843
Application Number:	10991791
Application Number:	13370641
Application Number:	10910685
Application Number:	11069656
Application Number:	11137015
Application Number:	11025077
Application Number:	12547934
Application Number:	13396974
Application Number:	11013022
Application Number:	11018359
Application Number:	11325818
Application Number:	10889484
Application Number:	10889647
Application Number:	10915384
Application Number:	11001815
Application Number:	10592623
Application Number:	12750208
Application Number:	10964466
Application Number:	10975066
Application Number:	11142125
Application Number:	13459645
Application Number:	13933305
Application Number:	14300516
Application Number:	11241462
Application Number:	12767887
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Application Number:	13012522
Application Number:	10955496
Application Number:	10994542
Application Number:	12784596
Application Number:	13475480
Application Number:	11313898
Application Number:	10926294

Property Type	Number
Application Number:	10925943
Application Number:	11220126
Application Number:	11159065
Application Number:	11167883
Application Number:	13566221
Application Number:	11024692
Application Number:	10954049
Application Number:	11316268
Application Number:	11010908
Application Number:	11018265
Application Number:	10960259
Application Number:	11577472
Application Number:	13523399
Application Number:	11153650
Application Number:	11295921
Application Number:	12857860
Application Number:	11269358
Application Number:	13858435
Application Number:	11262664
Application Number:	11287131
Application Number:	13245156
Application Number:	11526548
Application Number:	11211158
Application Number:	11280615
Application Number:	11186092
Application Number:	13739903
Application Number:	11236230
Application Number:	11305555
Application Number:	12685505
Application Number:	13267667
Application Number:	11814290
Application Number:	13275956
Application Number:	11315715
Application Number:	11377128
Application Number:	11268845
Application Number:	11271939
Application Number:	11241612
Application Number:	11646693

Property Type	Number
Application Number:	11242029
Application Number:	12119817
Application Number:	11314678
Application Number:	11303990
Application Number:	11265759
Application Number:	12732043
Application Number:	13449143
Application Number:	11241145
Application Number:	11388276
Application Number:	11388379
Application Number:	13523275
Application Number:	11313338
Application Number:	11338118
Application Number:	11172100
Application Number:	11262665
Application Number:	11328199
Application Number:	11325064
Application Number:	11526789
Application Number:	11223246
Application Number:	11264634
Application Number:	11303989
Application Number:	11239111
Application Number:	11481826
Application Number:	11280428
Application Number:	13421390
Application Number:	11304043
Application Number:	11297822
Application Number:	13078503
Application Number:	14267365
Application Number:	11481906
Application Number:	11392908
Application Number:	13446278
Application Number:	14177865
Application Number:	11304019
Application Number:	13269724
Application Number:	11479694
Application Number:	13715421
Application Number:	11305979

Property Type	Number
Application Number:	11311102
Application Number:	13429483
Application Number:	12790937
Application Number:	11289182
Application Number:	11312613
Application Number:	11438565
Application Number:	11533940
Application Number:	11316430
Application Number:	12509528
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Application Number:	12609039
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Application Number:	12786826
Application Number:	11469404
Application Number:	13423774
Application Number:	11580796
Application Number:	11379595
Application Number:	13171921
Application Number:	11313637
Application Number:	11305951
Application Number:	13400274
Application Number:	11540023
Application Number:	12785527
Application Number:	13287181
Application Number:	11395834
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Application Number:	11410747
Application Number:	11427887
Application Number:	11481076
Application Number:	11502509
Application Number:	11395110
Application Number:	11410748
Application Number:	13663544

Property Type	Number
Application Number:	11395601
Application Number:	11432624
Application Number:	11524215
Application Number:	11525615
Application Number:	13164212
Application Number:	13433399
Application Number:	13721383
Application Number:	11365024
Application Number:	11693916
Application Number:	11845930
Application Number:	13676472
Application Number:	11955888
Application Number:	11474648
Application Number:	11476299
Application Number:	11512854
Application Number:	13679276
Application Number:	14019608
Application Number:	14469086
Application Number:	11540272
Application Number:	11531562
Application Number:	11582683
Application Number:	11629547
Application Number:	12278294
Application Number:	13110380
Application Number:	13933330
Application Number:	11523195
Application Number:	13296828
Application Number:	11615545
Application Number:	11693937
Application Number:	13594247
Application Number:	11563284
Application Number:	11537775
Application Number:	11702263
Application Number:	12910477
Application Number:	11533932
Application Number:	12877678
Application Number:	11553750
Application Number:	13152529

Property Type	Number
Application Number:	14165070
Application Number:	11609966
Application Number:	13362319
Application Number:	11536152
Application Number:	11536139
Application Number:	11615294
Application Number:	11615387
Application Number:	11615435
Application Number:	13303566
Application Number:	13928594
Application Number:	11642202
Application Number:	13495184
Application Number:	11608061
Application Number:	11525594
Application Number:	11610788
Application Number:	11537040
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Application Number:	11782895
Application Number:	13916914
Application Number:	11960286
Application Number:	11613313
Application Number:	11714508
Application Number:	12728977
Application Number:	13420720
Application Number:	11616701
Application Number:	11689660
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Application Number:	11713499
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Application Number:	12246321
Application Number:	12123939
Application Number:	12016190
Application Number:	11899118
Application Number:	13526907
Application Number:	12148418
Application Number:	13528483
Application Number:	12015632
Application Number:	12015685

Property Type	Number
Application Number:	13243004
Application Number:	10172283
Application Number:	12204788
Application Number:	12612869
Application Number:	12006279
Application Number:	12333835
Application Number:	13722074
Application Number:	12006151
Application Number:	11986005
Application Number:	12104598
Application Number:	12006291
Application Number:	11964478
Application Number:	13023823
Application Number:	13477366
Application Number:	11962476
Application Number:	13206732
Application Number:	12345815
Application Number:	12250681
Application Number:	13169504
Application Number:	12118410
Application Number:	12182968
Application Number:	13750373
Application Number:	12268008
Application Number:	12241312
Application Number:	12343589
Application Number:	12215350
Application Number:	13004979
Application Number:	12152085
Application Number:	13044598
Application Number:	12249941
Application Number:	12249944
Application Number:	12249946
Application Number:	13173807
Application Number:	12250266
Application Number:	12218147
Application Number:	12340817
Application Number:	13679500
Application Number:	13922843

Property Type	Number
Application Number:	13383971
Application Number:	12638556
Application Number:	12260558
Application Number:	13048614
Application Number:	13667547
Application Number:	12340174
Application Number:	13586620
Application Number:	14195320
Application Number:	13185676
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Application Number:	12344010
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Application Number:	12549534
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Application Number:	12490187
Application Number:	13250034
Application Number:	12503266
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Application Number:	12413150
Application Number:	12492565
Application Number:	13531663
Application Number:	12831496
Application Number:	13666197
Application Number:	13666201
Application Number:	12958470
Application Number:	12347314

Property Type	Number
Application Number:	13162242
Application Number:	12487407
Application Number:	13471712
Application Number:	12412589
Application Number:	13513875
Application Number:	13131932
Application Number:	12575190
Application Number:	13131918
Application Number:	13751599
Application Number:	12518636
Application Number:	12490180
Application Number:	13286241
Application Number:	13256503
Application Number:	12429210
Application Number:	12574872
Application Number:	13589372
Application Number:	12720935
Application Number:	09247915
Application Number:	09501074
Application Number:	08473070
Application Number:	08477285
Application Number:	08342856
Application Number:	08630384
Application Number:	08411442
Application Number:	08566047
Application Number:	09291851
Application Number:	08858776
Application Number:	08501483
Application Number:	08758189
Application Number:	08538921
Application Number:	08636664
Application Number:	08937450
Application Number:	08683863
Application Number:	08700313
Application Number:	08647295
Application Number:	08643540
Application Number:	08717323
Application Number:	08717404

Property Type	Number
Application Number:	08747397
Application Number:	08901198
Application Number:	09405824
Application Number:	08624021
Application Number:	08746963
Application Number:	08868784
Application Number:	08728202
Application Number:	08696272
Application Number:	09440548
Application Number:	08661311
Application Number:	08661312
Application Number:	08710267
Application Number:	08679668
Application Number:	08679090
Application Number:	08822848
Application Number:	08944688
Application Number:	08946383
Application Number:	08982873
Application Number:	09073902
Application Number:	09012127
Application Number:	08421612
Application Number:	09060220
Application Number:	09058693
Application Number:	09144509
Application Number:	09460275
Application Number:	09107097
Application Number:	09137571
Application Number:	09107039
Application Number:	09832708
Application Number:	09118339
Application Number:	09289248
Application Number:	09010391
Application Number:	09833131
Application Number:	09049855
Application Number:	09108468
Application Number:	09108469
Application Number:	09108711
Application Number:	09108751

Property Type	Number
Application Number:	09195573
Application Number:	10241088
Application Number:	09429047
Application Number:	09469982
Application Number:	09108113
Application Number:	09107080
Application Number:	09128350
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Application Number:	09615864
Application Number:	09246578
Application Number:	09314566
Application Number:	09314567
Application Number:	09314563
Application Number:	09100590
Application Number:	09270930
Application Number:	09072410
Application Number:	09252430
Application Number:	09307190
Application Number:	09204930
Application Number:	09253103
Application Number:	09165509
Application Number:	09165507
Application Number:	09165508
Application Number:	09264949
Application Number:	09786529
Application Number:	09412689
Application Number:	09309471
Application Number:	09227237
Application Number:	09256700
Application Number:	10278034
Application Number:	09167792
Application Number:	09167746
Application Number:	09167811
Application Number:	09167916
Application Number:	09167839
Application Number:	09167950
Application Number:	09257075
Application Number:	09274940

Property Type	Number
Application Number:	09274944
Application Number:	09309530
Application Number:	10609290
Application Number:	09330238
Application Number:	09361540
Application Number:	09340477
Application Number:	09340478
Application Number:	10963779
Application Number:	11301162
Application Number:	09290753
Application Number:	09473103
Application Number:	10771201
Application Number:	11188989
Application Number:	09257866
Application Number:	09400132
Application Number:	09351268
Application Number:	09378141
Application Number:	10351780
Application Number:	12341603
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Application Number:	09753342
Application Number:	09478391
Application Number:	09305149
Application Number:	09472668
Application Number:	09667460
Application Number:	09326733
Application Number:	09326022
Application Number:	09326035
Application Number:	09326007
Application Number:	09458402
Application Number:	09458403
Application Number:	09460321
Application Number:	09453340
Application Number:	09455955
Application Number:	13479925
Application Number:	09458190
Application Number:	09460341

Property Type	Number
Application Number:	09453339
Application Number:	09460566
Application Number:	09457209
Application Number:	09307452
Application Number:	09366136
Application Number:	09276056
Application Number:	09276452
Application Number:	09285133
Application Number:	09285550
Application Number:	09285424
Application Number:	09474203
Application Number:	09474477
Application Number:	09417864
Application Number:	09753359
Application Number:	09634046
Application Number:	09353906
Application Number:	09407915
Application Number:	12715602
Application Number:	13758452
Application Number:	09408380
Application Number:	09370984
Application Number:	09417155
Application Number:	09528261
Application Number:	09575266
Application Number:	09618530
Application Number:	09660370
Application Number:	09648273
Application Number:	09438813
Application Number:	09678762
Application Number:	09672114
Application Number:	09639216
Application Number:	09638373
Application Number:	09668220
Application Number:	09668219
Application Number:	09638372
Application Number:	09126875
Application Number:	09807785
Application Number:	09720514

Property Type	Number
Application Number:	08667951
Application Number:	08755431
Application Number:	08798747
Application Number:	09351747
Application Number:	11767563
Application Number:	11767569
Application Number:	11767584
Application Number:	11767632
Application Number:	11767650
Application Number:	12418386
Application Number:	13723707
Application Number:	13724076
Application Number:	13724147
Application Number:	13724209
Application Number:	08796591
Application Number:	08982313
Application Number:	08815663
Application Number:	08901763
Application Number:	08902101
Application Number:	09223972
Application Number:	09223842
Application Number:	09195774
Application Number:	09193277
Application Number:	10777696
Application Number:	09185492
Application Number:	09183002
Application Number:	09054681
Application Number:	09392367
Application Number:	09390865
Application Number:	10823554
Application Number:	09421024
Application Number:	08765293
Application Number:	08628738
Application Number:	08930288
Application Number:	09011571
Application Number:	08739367
Application Number:	09117594
Application Number:	09214448

Property Type	Number
Application Number:	08838608
Application Number:	09194004
Application Number:	09083469
Application Number:	09202423
Application Number:	11055787
Application Number:	11759494
Application Number:	09230011
Application Number:	09230009
Application Number:	09254901
Application Number:	08789974
Application Number:	08975014
Application Number:	08864789
Application Number:	08865492
Application Number:	09319137
Application Number:	08882453
Application Number:	09156019
Application Number:	09015675
Application Number:	09341584
Application Number:	09010387
Application Number:	09065934
Application Number:	09620398
Application Number:	10444404
Application Number:	08914919
Application Number:	08869901
Application Number:	09089796
Application Number:	09006380
Application Number:	09445917
Application Number:	09371983
Application Number:	09089728
Application Number:	08960787
Application Number:	09185932
Application Number:	09185390
Application Number:	09052736
Application Number:	09152838
Application Number:	09156541
Application Number:	11065308
Application Number:	09509089
Application Number:	08991273

Property Type	Number
Application Number:	09057222
Application Number:	09470629
Application Number:	09082102
Application Number:	09049708
Application Number:	09028540
Application Number:	09143466
Application Number:	10233183
Application Number:	09143465
Application Number:	10230050
Application Number:	09072811
Application Number:	09010475
Application Number:	09165053
Application Number:	09157234
Application Number:	09135967
Application Number:	09396987
Application Number:	09114778
Application Number:	09111682
Application Number:	09346323
Application Number:	09349347
Application Number:	09086116
Application Number:	09294708
Application Number:	09222019
Application Number:	09211881
Application Number:	09346322
Application Number:	09190081
Application Number:	09305633
Application Number:	09368280
Application Number:	09368275
Application Number:	09190082
Application Number:	09364132
Application Number:	09219005
Application Number:	09206597
Application Number:	09358977
Application Number:	09281490
Application Number:	09342362
Application Number:	09122433
Application Number:	08666800
Application Number:	09059635

Property Type	Number
Application Number:	08634927
Application Number:	08724655
Application Number:	08398264
Application Number:	08764367
Application Number:	08948034
Application Number:	08595116
Application Number:	08743898
Application Number:	08691056
Application Number:	09054440
Application Number:	09295652
Application Number:	09295714
Application Number:	09361854
Application Number:	08753605
Application Number:	09377049
Application Number:	09401521
Application Number:	08773494
Application Number:	08772257
Application Number:	09355394
Application Number:	08994007
Application Number:	08964023
Application Number:	08934892
Application Number:	08994008
Application Number:	08934736
Application Number:	09119621
Application Number:	08965781
Application Number:	08954469
Application Number:	08994762
Application Number:	08928769
Application Number:	09215466
Application Number:	09046645
Application Number:	09062969
Application Number:	09144111
Application Number:	09144110
Application Number:	09144109
Application Number:	10227413
Application Number:	09184030
Application Number:	08686353
Application Number:	09202898

Property Type	Number
Application Number:	08954468
Application Number:	08873875
Application Number:	08990941
Application Number:	09039579
Application Number:	09361099
Application Number:	09129724
Application Number:	09102016
Application Number:	09153021
Application Number:	09281503
Application Number:	09187975
Application Number:	09065124
Application Number:	09164885
Application Number:	09150314
Application Number:	09327049
Application Number:	10454208
Application Number:	09303310
Application Number:	09249051
Application Number:	10411162
Application Number:	08320849
Application Number:	08443515
Application Number:	08419898
Application Number:	08938630
Application Number:	09292356
Application Number:	08535404
Application Number:	08390715
Application Number:	08534668
Application Number:	09020444
Application Number:	08812834
Application Number:	08721095
Application Number:	08634488
Application Number:	08899794
Application Number:	08753880
Application Number:	08743897
Application Number:	09334184
Application Number:	08912812
Application Number:	08637961
Application Number:	08681504
Application Number:	08588848

Property Type	Number
Application Number:	08796550
Application Number:	08681461
Application Number:	08987216
Application Number:	09244824
Application Number:	10741375
Application Number:	08817000
Application Number:	09233117
Application Number:	08972318
Application Number:	08767499
Application Number:	08929404
Application Number:	08878966
Application Number:	08682127
Application Number:	08812831
Application Number:	08772673
Application Number:	08813031
Application Number:	08690650
Application Number:	09974812
Application Number:	08844840
Application Number:	08929774
Application Number:	08813440
Application Number:	08772256
Application Number:	08818612
Application Number:	08730856
Application Number:	08976423
Application Number:	08773956
Application Number:	09195245
Application Number:	08934672
Application Number:	08985265
Application Number:	08842020
Application Number:	08842036
Application Number:	09071000
Application Number:	08821145
Application Number:	09146232
Application Number:	08958396
Application Number:	08996997
Application Number:	08749688
Application Number:	08947855
Application Number:	08896978

Property Type	Number
Application Number:	08962291
Application Number:	08992581
Application Number:	08987251
Application Number:	08986783
Application Number:	08921028
Application Number:	08988391
Application Number:	08970206
Application Number:	09207255
Application Number:	08996251
Application Number:	09172996
Application Number:	08854266
Application Number:	08774548
Application Number:	08996772
Application Number:	08996765
Application Number:	08812807
Application Number:	08998218
Application Number:	09050013
Application Number:	08992003
Application Number:	09948671
Application Number:	08897603
Application Number:	09223836
Application Number:	09218429
Application Number:	08966212
Application Number:	09136416
Application Number:	09223004
Application Number:	10390734
Application Number:	08977811
Application Number:	08921009
Application Number:	08921013
Application Number:	08827882
Application Number:	09073442
Application Number:	09064552
Application Number:	08867624
Application Number:	08895589
Application Number:	08994966
Application Number:	09001626
Application Number:	09209759
Application Number:	08996034

Property Type	Number
Application Number:	09477679
Application Number:	08996135
Application Number:	09137687
Application Number:	09295215
Application Number:	08997353
Application Number:	08992765
Application Number:	09567030
Application Number:	08997822
Application Number:	09559562
Application Number:	09085226
Application Number:	08948465
Application Number:	08997778
Application Number:	08989647
Application Number:	08971202
Application Number:	08998347
Application Number:	09056096
Application Number:	09756739
Application Number:	09084370
Application Number:	09200436
Application Number:	09217898
Application Number:	09100010
Application Number:	09146341
Application Number:	09080189
Application Number:	09168928
Application Number:	09066701
Application Number:	08989270
Application Number:	08933952
Application Number:	09170973
Application Number:	09105469
Application Number:	08994456
Application Number:	09126855
Application Number:	09170974
Application Number:	09219316
Application Number:	08995539
Application Number:	09307356
Application Number:	11300997
Application Number:	12646404
Application Number:	09182655

Property Type	Number
Application Number:	09050924
Application Number:	08991554
Application Number:	09148154
Application Number:	09002113
Application Number:	09875202
Application Number:	09034905
Application Number:	09031647
Application Number:	09015937
Application Number:	09076633
Application Number:	09069741
Application Number:	09175620
Application Number:	09181823
Application Number:	09221794
Application Number:	09028520
Application Number:	09028519
Application Number:	09040272
Application Number:	09026434
Application Number:	09057528
Application Number:	09281945
Application Number:	09177609
Application Number:	09092851
Application Number:	08965930
Application Number:	09210536
Application Number:	09157533
Application Number:	09057525
Application Number:	09971011
Application Number:	09213271
Application Number:	09092847
Application Number:	09188297
Application Number:	08997990
Application Number:	09041128
Application Number:	09165189
Application Number:	09185635
Application Number:	09049928
Application Number:	09215376
Application Number:	09215262
Application Number:	09150698
Application Number:	09050246

Property Type	Number
Application Number:	09207250
Application Number:	09023084
Application Number:	09207251
Application Number:	09028506
Application Number:	08997989
Application Number:	09134924
Application Number:	09208980
Application Number:	09216935
Application Number:	09098951
Application Number:	09196344
Application Number:	09215377
Application Number:	09356046
Application Number:	09071117
Application Number:	09028512
Application Number:	09206277
Application Number:	09158855
Application Number:	09190292
Application Number:	09201875
Application Number:	09195556
Application Number:	09062727
Application Number:	09151448
Application Number:	09069521
Application Number:	09069400
Application Number:	09069436
Application Number:	09069520
Application Number:	09076634
Application Number:	09111718
Application Number:	09616880
Application Number:	09216975
Application Number:	09131190
Application Number:	09220019
Application Number:	09165351
Application Number:	09218142
Application Number:	09071345
Application Number:	09186643
Application Number:	09222835
Application Number:	09382500
Application Number:	09204263

Property Type	Number
Application Number:	09216928
Application Number:	09154628
Application Number:	09223817
Application Number:	09137688
Application Number:	09218427
Application Number:	09258407
Application Number:	09219317
Application Number:	09218054
Application Number:	09209273
Application Number:	09131051
Application Number:	09217058
Application Number:	09215547
Application Number:	09291186
Application Number:	09286431
Application Number:	10409197
Application Number:	10409702
Application Number:	09220232
Application Number:	09471244
Application Number:	09213769
Application Number:	09748848
Application Number:	09220955
Application Number:	09212429
Application Number:	09411294
Application Number:	09222926
Application Number:	09223818
Application Number:	09375396
Application Number:	09216992
Application Number:	09465705
Application Number:	09312840
Application Number:	09475722
Application Number:	09439501
Application Number:	09386215
Application Number:	09191845
Application Number:	09288565
Application Number:	09189992
Application Number:	09429712
Application Number:	10216397
Application Number:	09191142

Property Type	Number
Application Number:	10147810
Application Number:	09192530
Application Number:	09405003
Application Number:	10747077
Application Number:	11208056
Application Number:	13599461
Application Number:	09395734
Application Number:	09345471
Application Number:	09345472
Application Number:	09420424
Application Number:	09396452
Application Number:	09397968
Application Number:	09338530
Application Number:	08652659
Application Number:	08718746
Application Number:	08866229
Application Number:	08865887
Application Number:	08865692
Application Number:	08768022
Application Number:	08907342
Application Number:	08769649
Application Number:	09432949
Application Number:	09074209
Application Number:	08775162
Application Number:	08781943
Application Number:	08775613
Application Number:	08723709
Application Number:	09037371
Application Number:	09050591
Application Number:	08851672
Application Number:	08864507
Application Number:	08969373
Application Number:	09221909
Application Number:	08992263
Application Number:	08931969
Application Number:	08903865
Application Number:	08939275
Application Number:	08922081

Property Type	Number
Application Number:	08931052
Application Number:	09026089
Application Number:	09221357
Application Number:	09032504
Application Number:	08965279
Application Number:	08969878
Application Number:	08990553
Application Number:	09001282
Application Number:	08957829
Application Number:	09096426
Application Number:	09676236
Application Number:	09038372
Application Number:	08990109
Application Number:	09549790
Application Number:	08940412
Application Number:	08994740
Application Number:	09096657
Application Number:	09219696
Application Number:	09223892
Application Number:	09221382
Application Number:	09219557
Application Number:	09195945
Application Number:	09216674
Application Number:	09176484
Application Number:	09239225
Application Number:	09220549
Application Number:	09211209
Application Number:	09193890
Application Number:	09364792
Application Number:	09220550
Application Number:	09198063
Application Number:	09189605
Application Number:	09169022
Application Number:	09315170
Application Number:	09135204
Application Number:	09212650
Application Number:	10337018
Application Number:	09201997

Property Type	Number
Application Number:	09359818
Application Number:	10288207
Application Number:	09477785
Application Number:	09476638
Application Number:	10832132
Application Number:	09312950
Application Number:	09321864
Application Number:	09412099
Application Number:	09300130
Application Number:	09333841
Application Number:	09357250
Application Number:	09337209
Application Number:	09295030
Application Number:	08994450
Application Number:	08827121
Application Number:	08826171
Application Number:	08997690
Application Number:	08933753
Application Number:	09482638
Application Number:	08916979
Application Number:	08970207
Application Number:	09126994
Application Number:	08928517
Application Number:	09109863
Application Number:	09209681
Application Number:	09223991
Application Number:	08820332
Application Number:	08820335
Application Number:	08842328
Application Number:	08775564
Application Number:	08982471
Application Number:	08982501
Application Number:	08974222
Application Number:	09249696
Application Number:	09207938
Application Number:	09590431
Application Number:	09564971
Application Number:	09218814

Property Type	Number
Application Number:	09209126
Application Number:	09237750
Application Number:	09388366
Application Number:	08667208
Application Number:	08792187
Application Number:	08566664
Application Number:	08600173
Application Number:	08667831
Application Number:	08773521
Application Number:	08865698
Application Number:	08865949
Application Number:	08792188
Application Number:	08792185
Application Number:	08792184
Application Number:	08865943
Application Number:	08865699
Application Number:	09092411
Application Number:	09424790
Application Number:	08623635
Application Number:	08746176
Application Number:	08746230
Application Number:	08942201
Application Number:	08931649
Application Number:	08842605
Application Number:	09001510
Application Number:	08946431
Application Number:	09371781
Application Number:	10625493
Application Number:	12605168
Application Number:	12950749
Application Number:	13429128
Application Number:	13429142
Application Number:	14137420
Application Number:	09224548
Application Number:	09081135
Application Number:	09222927
Application Number:	09222781
Application Number:	09076844

Property Type	Number
Application Number:	09222782
Application Number:	09427711
Application Number:	10351272
Application Number:	09220862
Application Number:	09086299
Application Number:	09383867
Application Number:	08745171
Application Number:	08980761
Application Number:	09220860
Application Number:	09220962
Application Number:	09217910
Application Number:	09224841
Application Number:	09220993
Application Number:	09220963
Application Number:	08691486
Application Number:	09259681
Application Number:	09236159
Application Number:	08917548
Application Number:	09165120
Application Number:	09323779
Application Number:	08139397
Application Number:	08473133
Application Number:	08086176
Application Number:	08275493
Application Number:	07335259
Application Number:	08739077
Application Number:	08200081
Application Number:	08986286
Application Number:	08257975
Application Number:	29092093
Application Number:	08725551
Application Number:	10662603
Application Number:	09702931
Application Number:	13633269
Application Number:	10013678
Application Number:	10698525
Application Number:	10818685
Application Number:	11463181

Property Type	Number
Application Number:	12483690
Application Number:	08846837
Application Number:	08616746
Application Number:	08818665
Application Number:	09108770
Application Number:	09192951
Application Number:	09356225
Application Number:	08447066
Application Number:	08922945
Application Number:	08745504
Application Number:	08549685
Application Number:	08528640
Application Number:	08528907
Application Number:	08809350
Application Number:	08640687
Application Number:	08620414
Application Number:	08594471
Application Number:	08800261
Application Number:	09077809
Application Number:	08753845
Application Number:	08894021
Application Number:	08739365
Application Number:	08739492
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Application Number:	08769208
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Application Number:	08770222
Application Number:	08823632
Application Number:	08858321
Application Number:	08873497
Application Number:	08961970
Application Number:	08942189

Property Type	Number
Application Number:	08980504
Application Number:	08957267
Application Number:	08943169
Application Number:	08993944
Application Number:	08980505
Application Number:	08991272
Application Number:	09071071
Application Number:	09114779
Application Number:	09185361
Application Number:	09153393
Application Number:	08496650
Application Number:	08814627
Application Number:	08680286
Application Number:	08551264
Application Number:	08728373
Application Number:	08618747
Application Number:	08723080
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Application Number:	08662966
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Application Number:	08717608
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Application Number:	08551470
Application Number:	08548304
Application Number:	08516269
Application Number:	08723649
Application Number:	08650502
Application Number:	08548716
Application Number:	08630642
Application Number:	08587046
Application Number:	08691050
Application Number:	08773905
Application Number:	08694124

Property Type	Number
Application Number:	08719302
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Application Number:	08728428
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Application Number:	08730831
Application Number:	08727367
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Application Number:	08749687
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Application Number:	08932709
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Application Number:	08998223
Application Number:	08534290
Application Number:	08948443
Application Number:	08715823
Application Number:	08837975
Application Number:	08726604
Application Number:	08806861
Application Number:	08632597
Application Number:	08413556
Application Number:	08344551
Application Number:	08637963
Application Number:	08329716
Application Number:	08354599
Application Number:	08348850
Application Number:	08292275
Application Number:	09684828
Application Number:	09515784
Application Number:	10183283
Application Number:	10923440
Application Number:	09515030
Application Number:	10264137
Application Number:	10881355
Application Number:	09514653
Application Number:	10246719
Application Number:	11383388
Application Number:	08979153
Application Number:	08649436

Property Type	Number
Application Number:	10892020
Application Number:	12587591
Application Number:	08155466
Application Number:	12690196
Application Number:	12620745
Application Number:	13082690
Application Number:	08125264
Application Number:	08224499
Application Number:	12114252
Application Number:	07897477
Application Number:	09078509
Application Number:	11651335
Application Number:	11789658
Application Number:	13924714
Application Number:	08072585

CORRESPONDENCE DATA

Fax Number: (919)238-2301
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.
Phone: 9192382300
Email: jjimerson@wt-ip.com
Correspondent Name: WITHROW & TERRANOVA, PLLC
Address Line 1: 100 REGENCY FOREST DRIVE, SUITE 160
Address Line 4: CARY, NORTH CAROLINA 27518

ATTORNEY DOCKET NUMBER:	7000-000
NAME OF SUBMITTER:	JOHN M. JIMERSON
SIGNATURE:	/John M. Jimerson/
DATE SIGNED:	02/09/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 75

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Patent Assignment

This patent assignment ("Assignment") is entered into as of January 28, 2015 (the "Effective Date"), by and between, on the one hand, Rockstar Consortium US LP, a Delaware limited partnership ("Rockstar LP"), Rockstar Consortium LLC, a Delaware limited liability company ("Rockstar LLC"), Bockstar Technologies LLC, a Delaware limited liability company ("Bockstar"), Constellation Technologies LLC, a Delaware limited liability company ("Constellation"), MobileStar Technologies LLC, a Delaware limited liability company ("MobileStar"), and NetStar Technologies LLC, a Delaware limited liability company ("NetStar", and together with Rockstar LP, Rockstar LLC, Bockstar, Constellation and MobileStar, "Sellers", and each of them, a "Seller"), and, on the other hand, RPX Clearinghouse LLC, a Delaware limited liability company, with principal place of business at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("Buyer").

WHEREAS, Sellers and Buyer are parties to an Asset Purchase Agreement dated December 22, 2014 (the "Asset Purchase Agreement");

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Sellers hereby irrevocably assign, sell, grant, transfer and convey and agree to assign, sell, grant, transfer, and convey to Buyer, and Buyer hereby accepts and receives, all right, title, and interest throughout the world in and to:

- (a) the Assigned Patents (as hereinafter defined);
- (b) all causes of action (whether known or unknown or whether currently pending, filed or otherwise) and other enforcement rights under or on account of the Assigned Patents, including without limitation all causes of action and other enforcement rights for damages, injunctive relief, and any other remedies of any kind for past, current and future infringement; and
- (c) all rights to collect royalties or other payments under or on account of the Assigned Patents and the foregoing subcategory (b).

"Assigned Patents" means (a) subject to the existing encumbrances, all right, title, and interest throughout the world in and to all patents and patent applications owned by any Seller or its Subsidiaries as of December 22, 2014, including the issued patents and patent applications identified on Schedule 1 attached hereto; (b) all of Sellers' right, title, and interest, as of December 22, 2014 or any time thereafter, throughout the world in and to (i) any and all patents that have issued or may issue from any of the patents or patent applications described in (a) of this definition; (ii) any and all patents and patent applications that, in whole or in part, claim priority to (directly or indirectly), or the benefit of the filing date of (directly or indirectly), any of the patents or patent applications described in (a) or (b)(i) of this definition, including any and all child, continuation, continuation-in-part, continuing prosecution, divisional, provisional, non-provisional, reissue, reexamination, post-grant review, inter partes review, substitution, extension and counterpart patents and patent applications of any of the patents or patents applications described in (a) or (b)(i) of this definition; and (iii) any and all patents and patent applications from which any of the patents or patent applications described in (a) or (b)(i) of this definition, in whole or in part, claim the benefit of priority (directly or indirectly) or otherwise claim the benefit of the filing date (directly or indirectly), including any and all parent patents or patent applications of any of the patents or patent applications described in (a) or (b)(i) of this definition; and (c) any and all extensions or renewals of any of the patents or patent applications described in this definition.

Each Seller agrees that upon request (at the expense of Buyer) Seller will execute and file any document reasonably required to further the purposes of this Assignment (including securing and enforcing Buyer's rights related to this Assignment), provided that each Seller shall be entitled to decline any request that is

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not reasonably required to further the purposes of this Assignment (including securing and enforcing Buyer's rights related to this Assignment), and Seller shall promptly file such documents (at Buyer's expense). In the event that Seller is unable or unwilling to do so as reasonably required for the purposes of this Assignment (e.g., because it has liquidated or dissolved or declined a request reasonably required to further the purposes of this Assignment (including securing and enforcing Buyer's rights related to this Assignment)), Seller hereby irrevocably designates, appoints and authorizes Buyer and its duly authorized officers and agents as such Seller's agents and attorneys-in-fact to act for and on its behalf and instead of it to execute and file any such document to further the purposes of this Assignment (including securing and enforcing Buyer's rights related to this Assignment) as provided in the first sentence of this paragraph with the same legal force and effect as if executed by such Seller. Buyer shall be solely responsible for all actions and all costs whatsoever, including but not limited to taxes, attorneys' fees and patent office fees in any jurisdiction, associated with the perfection of Buyer's right, title, and interest in and to the Assigned Patents and recordation and/or registration of this Assignment or any other document evidencing the assignment to Buyer of the Assigned Patents. Each Seller hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any applicable foreign agency to record this Assignment and issue the Assigned Patents to Buyer and its successors, assigns and other legal representatives.

The terms and conditions of this Assignment will inure to the benefit of Buyer, its successors, assigns, and other legal representatives and will be binding upon each Seller, its successors, assigns, and other legal representatives. In the event of any conflict between the terms of this Assignment and the terms of the Asset Purchase Agreement, the terms of the Asset Purchase Agreement shall govern and prevail.


This Assignment shall be governed by and construed in accordance with the domestic laws of the State of Delaware, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of Delaware or any other jurisdiction) that would cause the application of the laws of any jurisdiction other than the State of Delaware.

IN WITNESS WHEREOF, the parties hereto have caused this Assignment to be executed as of the Effective Date. The individuals signing for the parties represent and warrant that he or she has authority to sign for and enter into this Assignment on behalf of the respective parties.

SELLERS


ROCKSTAR CONSORTIUM US LP

Notary Seal:

By: 
Name: Michael Dunleavy
Title: Chief Corporate Counsel and Secretary
Date: January 28, 2015


ROCKSTAR CONSORTIUM LLC

Notary Seal:

By: 
Name: Michael Dunleavy
Title: Corporate Secretary
Date: January 28, 2015


BOCKSTAR TECHNOLOGIES LLC

Notary Seal:

By: 
Name: Michael Dunleavy
Title: Vice President and Corporate Secretary
Date: January 28, 2015


CONSTELLATION TECHNOLOGIES LLC

Notary Seal:

By: 
Name: Michael Dunleavy
Title: Corporate Secretary
Date: January 28, 2015


MOBILESTAR TECHNOLOGIES LLC

Notary Seal:

By: 
Name: Michael Dunleavy
Title: Corporate Secretary
Date: January 28, 2015

NETSTAR TECHNOLOGIES LLC

Notary Seal:

By: 
Name: Michael Dunleavy
Title: Corporate Secretary
Date: January 28, 2015

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Buyer:

RPX CLEARINGHOUSE LLC

By: *Martin Roberts*

Name: Martin Roberts

Title: Secretary

Date: January 28, 2015

Pub. No.	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)
Pub. No.	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)
19296RO	US	12/344,529	#EMPTY	Filed	28-Dec-08	#EMPTY	METHOD AND APPARATUS FOR DISSEMINATING INFORMATION IN AN ENTERPRISE ENVIRONMENT
19302RO	US	12/394,093	#EMPTY	Filed	27-Feb-09	#EMPTY	USING RUNTIME GOVERNANCE FEEDBACK TO DYNAMICALLY ADJUST PERFORMANCE AND AVAILABILITY MODEL OF SERVICE ORIENTED ARCHITECTURE APPLICATION
19324RO	US	12/259,560	#EMPTY	Filed	28-Oct-08	#EMPTY	PROVISIONED PROVIDER LINK STATE BRIDGING (PLSB) WITH ROUTED BACK-UP
19341RO	US	12/169,189	#EMPTY	Filed	8-Jul-08	#EMPTY	METHOD AND SYSTEM FOR ROUTE SYNCHRONIZATION USING TIME SYNCHRONIZATION
19350RO	US	12/390,971	#EMPTY	Filed	23-Feb-09	#EMPTY	NETWORK PERFORMABILITY
19354RR	US	12/267,571	#EMPTY	Filed	8-Nov-08	#EMPTY	METHOD AND APPARATUS FOR IMPLEMENTING CONTEXTUAL NETWORK USAGE MONITORING
19400RO	US	12/342,174	#EMPTY	Filed	23-Dec-08	#EMPTY	MULTISEGMENT LOSS PROTECTION
19405RO	US	12/168,678	#EMPTY	Filed	7-Jul-08	#EMPTY	MULTI-TOUCH TOUCHSCREEN INCORPORATING PEN TRACKING
19551RO	US	12/626,975	#EMPTY	Filed	30-Nov-09	#EMPTY	IN-BAND SIGNALLING FOR POINT-POINT PACKET PROTECTION SWITCHING
19587D	US	12/458,108	#EMPTY	Filed	30-Jun-09	#EMPTY	PERSONAL STATUS COMMUNICATIONS MANAGER
19597RO	US	13/132,464	#EMPTY	Filed	2-Jun-11	#EMPTY	MULTIPLE REDUNDANT GNSS SYNCHRONIZATION SYSTEM
19657RR	US	12/341,845	#EMPTY	Filed	22-Dec-08	#EMPTY	SELECTIVE DATABASE REPLICATION
19670RR	US	13/277,781	#EMPTY	Filed	20-Oct-11	#EMPTY	COLLABORATION AGENT
19728ID	US	12/494,594	#EMPTY	Filed	30-Jun-09	#EMPTY	ANALYSIS OF PACKET-BASED VIDEO CONTENT
19762Y	US	12/323,002	#EMPTY	Filed	25-Nov-08	#EMPTY	CONTEXT-BASED NETWORK SECURITY
19792RO	US	13/119,630	#EMPTY	Filed	17-Mar-11	#EMPTY	METHOD AND SYSTEM FOR SPACE COCE TRANSMIT DIVERSITY OF PUCCH
19847RO	US	13/547,326	#EMPTY	Filed	12-Jul-12	#EMPTY	METHOD AND APPARATUS FOR ACCOMMODATING DUPLICATE MAC ADDRESSES
BA0415	US	09/460,589	#EMPTY	Filed	14-Dec-99	#EMPTY	USING DISTANCE-VECTOR INFORMATION TO COMPUTE NON-SHORTEST-PATH ROUTES FOR A LINK-STATE ROUTING PROTOCOL
ID0532	US	11/759,461	#EMPTY	Filed	7-Jun-07	#EMPTY	ATM TELECOMMUNICATIONS SYSTEMS AND METHOD FOR ROUTING NARROW BAND TRAFFIC
ID0532	US	11/759,508	#EMPTY	Filed	7-Jun-07	#EMPTY	ATM TELECOMMUNICATIONS SYSTEMS AND METHOD FOR ROUTING NARROW BAND TRAFFIC
ID0532	US	12/632,400	#EMPTY	Filed	7-Dec-09	#EMPTY	ATM TELECOMMUNICATIONS SYSTEMS AND METHOD FOR ROUTING NARROW BAND TRAFFIC
11310BA	US	14/230,279	#EMPTY	Filed	31-Mar-14	#EMPTY	MULTI-MODE ENDPPOINT IN A COMMUNICATION NETWORK SYSTEM AND METHODS THEREOF
11925DM	US	14/324,787	#EMPTY	Filed	7-Jul-14	#EMPTY	METHOD TO PROCESS A CALL REQUEST
122788A	US	14/333,538	#EMPTY	Filed	17-Jul-14	#EMPTY	TELEVISION DELIVERY SYSTEM
13033ID	US	09/731,399	6,519,390	Granted	6-Dec-00	11-Feb-03	CHIRPED BRAGG GRATING REFLECTORS AND ADJUSTABLE DISPERSION APPARATUS INCORPORATING SUCH GRATINGS
13218SS	US	14/133,936	#EMPTY	Filed	19-Dec-13	#EMPTY	DYNAMIC ASSIGNMENT OF TRAFFIC CLASSES TO A PRIORITY QUEUE IN A PACKET FORWARDING DEVICE
13218SS	US	14/134,230	#EMPTY	Filed	19-Dec-13	#EMPTY	DYNAMIC ASSIGNMENT OF TRAFFIC CLASSES TO A PRIORITY QUEUE IN A PACKET FORWARDING DEVICE
13317SS	US	14/336,116	#EMPTY	Filed	21-Jul-14	#EMPTY	DISTRIBUTED NETWORK ADDRESS TRANSLATION CONTROL
14830RO	US	13/872,458	#EMPTY	Filed	29-Apr-13	#EMPTY	FRAMEWORK FOR SERVICE PERSONALIZATION
14845SS	US	14/287,762	#EMPTY	Filed	27-May-14	#EMPTY	PASSIVE OPTICAL LOOPBACK
14869RO	US	14/257,256	#EMPTY	Filed	14-Apr-14	#EMPTY	TECHNIQUE FOR ENABLING A PLURALITY OF SOFTWARE COMPONENTS TO COMMUNICATE IN A SOFTWARE COMPONENT MATRIX ENVIRONMENT
16015BA	US	14/194,933	#EMPTY	Filed	3-Mar-14	#EMPTY	PROVIDING-RELAY PROTECTION IN SYSTEMS USING GROUP SECURITY ASSOCIATIONS
16346BA	US	13/892,562	#EMPTY	Filed	13-May-13	#EMPTY	SYSTEM FOR MANAGING SESSIONS AND CONNECTION IN A NETWORK
16604RO	US	14/335,330	#EMPTY	Filed	18-Jul-14	#EMPTY	TECHNIQUE FOR END-TO-END ADMISSION CONTROL OF REAL-TIME PACKET FLOWS
16670ID	US	13/848,578	#EMPTY	Filed	21-Mar-13	#EMPTY	VLAN SUPPORT OF DIFFERENTIATED SERVICES
16991ID	US	13/652,109	#EMPTY	Filed	15-Oct-12	#EMPTY	BROKERING NETWORK RESOURCES
17095RN	US	14/291,150	#EMPTY	Filed	30-May-14	#EMPTY	GENERIC SNMP INFORMATION COLLECTION
17161RO	US	14/087,211	#EMPTY	Filed	22-Nov-13	#EMPTY	LAYER-2 TO MPLS SERVICE MEDIATION ARCHITECTURE
17396RO	US	13/867,237	#EMPTY	Filed	22-Apr-13	#EMPTY	#EMPTY
17474RO	US	13/896,810	#EMPTY	Filed	17-May-13	#EMPTY	RESOURCE CONSERVATION FOR PACKET TELEVISION SERVICES
17659SS	US	14/252,474	#EMPTY	Filed	14-Apr-14	#EMPTY	METHOD AND APPARATUS FOR DETECTING A FAULT ON AN OPTICAL FIBER
17829RO	US	13/971,469	#EMPTY	Filed	20-Aug-13	#EMPTY	METHOD AND APPARATUS FOR PROVIDING AVAILABILITY METRICS FORMEASUREMENT AND MANAGEMENT OF ETHERNET SERVICES
18017SS	US	13/896,762	#EMPTY	Filed	17-May-13	#EMPTY	METHOD AND APPARATUS FOR DETECTING UNSOLICITED MULTIMEDIA COMMUNICATIONS
18082RO	US	14/030,642	#EMPTY	Filed	18-Sep-13	#EMPTY	SYSTEM AND METHOD FOR DYNAMICALLY RE-CONFIGURING COMMUNICATIONS SESSION ROUTING BASED ON LOCATION INFORMATION
18134RO	US	14/187,862	#EMPTY	Filed	24-Feb-14	#EMPTY	METHOD AND APPARATUS FOR ENABLING COMMUTER GROUPS
18320RO	US	13/715,437	#EMPTY	Filed	14-Dec-12	#EMPTY	MULTICAST IMPLEMENTATION IN A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
18414RO	US	14/340,916	#EMPTY	Filed	25-Jul-14	#EMPTY	CALL SERVER SELECTION
18564RO	US	14/286,235	#EMPTY	Filed	23-May-14	#EMPTY	INTERGRATED WEB PORTAL FOR FACILITATING COMMUNICATIONS WITH AN INTENDED PARTY
18593SS	US	14/165,791	#EMPTY	Filed	28-Jan-14	#EMPTY	BIFURCATED CONFERENCING FUNCTIONS
18593SS	US	14/245,168	#EMPTY	Filed	4-Apr-14	#EMPTY	BIFURCATED CONFERENCING FUNCTIONS
18685RO	US	14/034,187	#EMPTY	Filed	23-Sep-13	#EMPTY	METHOD AND SYSTEM FOR CLIENT CONTEXT DISSEMINATION FOR WEB-BASED APPLICATIONS
18738RO	US	14/291,121	#EMPTY	Filed	30-May-14	#EMPTY	FAILURE NOTIFICATION IN A NETWORK HAVING SERIALY CONNECTED NODES
18833RO	US	14/298,487	#EMPTY	Filed	6-Jun-14	#EMPTY	DISTRIBUTED CONNECTION ESTABLISHMENT AND RESTORATION
18923RO	US	14/075,365	#EMPTY	Filed	8-Nov-13	#EMPTY	TIE-BREAKING IN SHORTEST PATH DETERMINATION

Pub. No.	App. No.	Pub. Date	Pub. Status	Pub. Title	Pub. Date	Pub. Status	Pub. Title
16670ID	US 13/683,668	#EMPTY	Filed		21-Nov-12	HEMPTY	TRAFFIC ENGINEERING IN FRAME-BASED CARRIER NETWORKS
16672RO	US 14/093,976	#EMPTY	Filed		2-Dec-13	HEMPTY	SELECTIVE INTERNET PRIORITY SERVICE
16673RO	US 12/081,684	#EMPTY	Filed		18-Apr-08	HEMPTY	SYSTEMS AND METHODS FOR PREVENTING AN ATTACK ON HEALTHCARE DATA PROCESSING RESOURCES IN A HOSPITAL INFORMATION SYSTEM
16678RO	US 14/030,403	#EMPTY	Filed		18-Sep-13	HEMPTY	ETHERNET OAM PERFORMANCE MANAGEMENT
16716RO	US 14/053,058	#EMPTY	Filed		14-Oct-13	HEMPTY	METHOD AND APPARATUS FOR ASSIGNING AND ALLOCATING NETWORK RESOURCES TO LAYER 1 VIRTUAL PRIVATE NETWORKS
16747BA	US 14/147,896	#EMPTY	Filed		6-Jan-14	HEMPTY	METHOD FOR ACCELERATING FAILOVER OF VPN TRAFFIC IN AN MPLS PROVIDER NETWORK
16770BA	US 14/054,378	#EMPTY	Filed		15-Oct-13	HEMPTY	METHOD AND APPARATUS FOR GENERATING LARGE NUMBERS OF ENCRYPTION KEYS
16774RN	US 10/970,975	#EMPTY	Filed		22-Oct-04	HEMPTY	REMOTE TELEPHONY SERVICE MANAGEMENT
16797RO	US 10/890,007	#EMPTY	Filed		13-Jul-04	HEMPTY	SERVICE CAPABILITY REGISTRY
16889RO	US 13/726,894	#EMPTY	Filed		26-Dec-12	HEMPTY	SECURITY BRIDGING
16905RO	US 14/100,129	#EMPTY	Filed		9-Dec-13	HEMPTY	TWO-DIMENSIONAL CIRCULATING SWITCH
16921RO	US 10/946,982	#EMPTY	Filed		22-Sep-04	HEMPTY	USE OF EXTENSIBLE PROPERTIES THAT ENABLES ADAPTIVE NETWORKS AND SERVICES
16966RO	US 13/482,010	#EMPTY	Filed		29-May-12	HEMPTY	METHOD AND APPARATUS FOR RESTORING SERVICE LABEL INFORMATION
16967RR	US 11/053,044	#EMPTY	Filed		8-Feb-05	HEMPTY	SUPPORTING SERVICES FOR PEER-TO-PEER COMMUNICATION SESSIONS
17024MD	US 12/512,363	#EMPTY	Filed		30-Jul-09	HEMPTY	ELASTIC TRAFFIC MARKING FOR MULTI-PRIORITY PACKET STREAMS IN A COMMUNICATIONS NETWORK
17040RO	US 11/008,999	#EMPTY	Filed		13-Dec-04	HEMPTY	NETWORK MANAGEMENT SYSTEM AND METHOD FOR ADAPTIVE PASTING OF CONFIGURATION INFORMATION
17164RR	US 13/928,602	#EMPTY	Filed		27-Jun-13	HEMPTY	PREVENTING ILLICIT COMMUNICATIONS
17173AB	US 13/899,113	#EMPTY	Filed		21-May-13	HEMPTY	SOFTWARE DEVELOPMENT AND TESTING ENVIRONMENT
17274RN	US 11/316,061	#EMPTY	Filed		22-Dec-05	HEMPTY	MULTIPLE CALL ORIGINATION
17277RO	US 13/493,248	#EMPTY	Filed		11-Jun-12	HEMPTY	METHOD AND APPARATUS FOR ASSIGNING AND ALLOCATING NETWORK RESOURCES TO PACKET-BASED VIRTUAL PRIVATE NETWORKS
17330RO	US 13/858,446	#EMPTY	Filed		8-Apr-13	HEMPTY	METHOD AND APPARATUS ENABLING IMPROVED PROTECTION OF CONSUMER INFORMATION IN ELECTRONIC TRANSACTIONS
17376RO	US 13/668,649	#EMPTY	Filed		5-Nov-12	HEMPTY	PSEUDO WIRE MERGE FOR IPTV
17471AU	US 11/304,071	#EMPTY	Filed		15-Dec-05	HEMPTY	SHARING OF AUTHENTICATED DATA
17478RO	US 11/170,211	#EMPTY	Filed		29-Jun-05	HEMPTY	TIMELY RECOVERY FOR MEDIA ON DEMAND STREAMING
17510SS	US 13/932,841	#EMPTY	Filed		1-Jul-13	HEMPTY	METHOD AND ARCHITECTURE FOR A SCALABLE APPLICATION AND SECURITY SWITCH USING MULTI-LEVEL LOAD BALANCING
17559RN	US 11/269,219	#EMPTY	Filed		8-Nov-05	HEMPTY	INTERACTIVE COMMUNICATION SESSION COOKIES
17593RR	US 11/313,309	#EMPTY	Filed		21-Dec-05	HEMPTY	PRESENCE NOTIFICATION
17685SS	US 13/720,188	#EMPTY	Filed		19-Dec-12	HEMPTY	INTERFACING BETWEEN A COMMAND LINE INTERFACE-BASED APPLICATION PROGRAM AND A REMOTE NETWORK DEVICE
17735RO	US 13/678,719	#EMPTY	Filed		16-Nov-12	HEMPTY	METHOD AND APPARATUS FOR LAYER 2 FAST RE-CONFIGURATION IN A ROUTING BRIDGE NETWORK
17775ID	US 13/925,196	#EMPTY	Filed		24-Jun-13	HEMPTY	FORWARDING TABLE MINIMISATION IN ETHERNET SWITCHES
17833RO	US 14/021,063	#EMPTY	Filed		9-Sep-13	HEMPTY	PROVIDER BACKBONE BRIDGING-PROVIDER BACKBONE TRANSPORT INTERNET WORKING
17856RO	US 11/298,673	7,747,019	Granted		12-Dec-05	29-Jun-10	METHODS AND SYSTEMS FOR COMMUNICATING OVER A QUANTUM CHANNEL
17902RR	US 11/755,190	#EMPTY	Filed		30-May-07	HEMPTY	LOCAL INSERTION OF ADVERTISEMENT CONTENT
17932RO	US 13/051,030	#EMPTY	Filed		18-Mar-11	HEMPTY	METHOD AND SYSTEM FOR CONFIGURING A CONNECTION-ORIENTED PACKET NETWORK OVER A WAVELENGTH DIVISION MULTIPLEXED OPTICAL NETWORK
17932RO	US 14/341,287	#EMPTY	Filed		25-Jul-14	HEMPTY	METHOD AND SYSTEM FOR CONFIGURING A CONNECTION-ORIENTED PACKET NETWORK OVER A WAVELENGTH DIVISION MULTIPLEXED OPTICAL NETWORK
17944RO	US 11/369,460	#EMPTY	Filed		7-Mar-06	HEMPTY	PROVIDING MEDIA INSERTS DURING GAPS IN STREAMING CONTENT DELIVERY
17961RO	US 11/357,090	#EMPTY	Filed		21-Feb-06	HEMPTY	ADAPTIVE CALL ROUTING IN IP NETWORKS
17965BA	US 11/469,416	#EMPTY	Filed		31-Aug-06	HEMPTY	MISSION GOAL STATEMENT TO POLICY STATEMENT TRANSLATIONS
18000RO	US 13/947,217	#EMPTY	Filed		22-Jul-13	HEMPTY	METHOD AND APPARATUS FOR CONTROLLING CALLING-PARTY IDENTIFICATION
18000RO	US 13/947,288	#EMPTY	Filed		22-Jul-13	HEMPTY	METHOD AND APPARATUS FOR CONTROLLING CALLING-PARTY IDENTIFICATION
18042RO	US 13/588,126	#EMPTY	Filed		17-Aug-12	HEMPTY	METHOD AND APPARATUS FOR SELECTING BETWEEN AVAILABLE NEIGHBORS IN A RAPID ALTERNATE PATH CALCULATION
18044RO	US 13/595,011	#EMPTY	Filed		27-Aug-12	HEMPTY	METHOD AND APPARATUS FOR SIMPLIFYING THE COMPUTATION OF ALTERNATE NETWORK PATHS
18059RO	US 13/306,417	#EMPTY	Filed		29-Nov-11	HEMPTY	METHOD AND APPARATUS FOR AUTHENTICATING USERS OF AN EMERGENCY COMMUNICATION NETWORK
18069RO	US 11/556,898	#EMPTY	Filed		6-Nov-06	HEMPTY	TIME-SHIFTED BROADCAST DELIVERY
18082RO	US 11/502,571	#EMPTY	Filed		11-Aug-06	HEMPTY	SYSTEM AND METHOD FOR DYNAMICALLY RE-CONFIGURING COMMUNICATIONS SESSION ROUTING BASED ON LOCATION INFORMATION
18089ID	US 13/337,769	#EMPTY	Filed		27-Dec-11	HEMPTY	SYSTEM AND METHOD FOR AUTOMATICALLY MANAGING PARTICIPATION AT A MEETING OR CONFERENCE
18095RO	US 14/185,248	#EMPTY	Filed		20-Feb-14	HEMPTY	METHOD AND APPARATUS FOR DOCUMENT MATCHING
18121RO	US 11/433,940	#EMPTY	Filed		15-May-06	HEMPTY	SYSTEM AND METHODS FOR FILTERING ELECTRONIC COMMUNICATIONS
18123RO	US 13/275,896	#EMPTY	Filed		18-Oct-11	HEMPTY	EXPEDITED RESOURCE NEGOTIATION IN SIP
18174RN	US 11/536,414	#EMPTY	Filed		28-Sep-06	HEMPTY	PRESENCE INFORMATION DELIVERY BASED ON SESSION PARTICIPATION
18179RO	US 11/477,975	#EMPTY	Filed		29-Jun-06	HEMPTY	Q-IN-Q ETHERNET RINGS
18201HU	US 13/452,983	#EMPTY	Filed		23-Apr-12	HEMPTY	METHOD AND SYSTEM FOR TRUSTED CONTEXTUAL COMMUNICATIONS
18207FR	US 13/469,662	#EMPTY	Filed		11-May-12	HEMPTY	METHOD OF CONFIGURING A NODE, RELATED NODE AND CONFIGURATION SERVER
18243RO	US 11/679,897	#EMPTY	Filed		28-Feb-07	HEMPTY	COMPLETELY DRY PSEUDOWIRES

Pub. No.	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	
Pub. No.	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	Pub. No. (US)	
18284RR	US	13/629,863	#EMPTY	Filed	28-Sep-12	#EMPTY	MESSAGE MAPPING FOR FORCED HOLD CALL HANDLING IN A VOP ENVIRONMENT
18288RO	US	13/936,340	#EMPTY	Filed	8-Jul-13	#EMPTY	POINT-TO-MULTIPOINT (P2MP) RESILIENCE FOR GMPLS CONTROL OF ETHERNET
18320RO	US	13/302,704	#EMPTY	Filed	22-Nov-11	#EMPTY	MULTICAST IMPLEMENTATION IN A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
18351RO	US	11/546,170	#EMPTY	Filed	11-Oct-06	#EMPTY	METHOD AND SYSTEM FOR PROTECTING A SUB-DOMAIN WITHIN A BROADCAST DOMAIN
18358RO	US	14/290,266	#EMPTY	Filed	29-May-14	#EMPTY	PROTOCOL FOR CLOCK DISTRIBUTION AND LOOP RESOLUTION
18364RO	US	11/621,280	#EMPTY	Filed	9-Jan-07	#EMPTY	METHOD AND APPARATUS FOR MANAGING BUFFERS DURING TRANSITIONS BETWEEN HETEROGENOUS NETWORKS
18377ID	US	13/934,506	#EMPTY	Filed	3-Jul-13	#EMPTY	APPLICATION SERVER BILLING
18418RO	US	11/616,685	#EMPTY	Filed	27-Dec-06	#EMPTY	USING TELECOM DATA TO ENHANCE WEB INTERACTION
18455RO	US	13/439,987	#EMPTY	Filed	5-Apr-12	#EMPTY	PERSONALIZED CONFERENCE BRIDGE
184638A	US	13/928,053	#EMPTY	Filed	26-Jun-13	#EMPTY	COMMUNICATING DATA UNITS IN A COMMUNICATIONS NETWORK THAT PROVIDES FAILURE PROTECTION
18480RO	US	11/963,172	#EMPTY	Filed	21-Dec-07	#EMPTY	ETHERNET RESOURCE MANAGEMENT
18493RO	US	11/613,493	#EMPTY	Filed	20-Dec-06	#EMPTY	AUTOMATIC CONFIGURATION OF TELECOMMUNICATION STATION SETS
18501RN	US	11/615,338	#EMPTY	Filed	22-Dec-06	#EMPTY	METHOD AND SYSTEM TO CONTROL ADVERTISING
18523RO	US	14/444,116	#EMPTY	Filed	28-Jul-14	#EMPTY	METHOD AND SYSTEM FOR SYNCHRONIZATION BETWEEN NETWORK ELEMENTS
18566RR	US	13/281,533	#EMPTY	Filed	26-Oct-11	#EMPTY	SYSTEM AND METHOD FOR PROVIDING POWER MANAGEMENT IN A SENSOR NETWORK
18694RO	US	14/258,238	#EMPTY	Filed	22-Apr-14	#EMPTY	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS
18710RN	US	12/326,646	#EMPTY	Filed	2-Dec-08	#EMPTY	ENHANCED CHANNEL SURFING
18853RX	US	13/093,312	#EMPTY	Filed	4-Dec-12	#EMPTY	METHOD AND APPARATUS FOR INCREASING THE OUTPUT OF A CRYPTOGRAPHIC SYSTEM
18872RO	US	14/043,013	#EMPTY	Filed	1-Oct-13	#EMPTY	COMMUNICATING TIME INFORMATION IN A NETWORK TO ENABLE SYNCHRONIZATION
18898RO	US	13/752,015	#EMPTY	Filed	28-Jan-13	#EMPTY	METHOD AND APPARATUS FOR OVERLAYING WHISPERED AUDIO ONTO A TELEPHONE CALL
18905RO	US	13/416,161	#EMPTY	Filed	9-Mar-12	#EMPTY	METHOD AND APPARATUS FOR INTERWORKING VPLS AND ETHERNET NETWORKS
18938RO	US	13/110,970	#EMPTY	Filed	19-May-11	#EMPTY	METHOD AND APPARATUS FOR PROVIDING A VIDEO REPRESENTATION OF A THREE DIMENSIONAL COMPUTER-GENERATED VIRTUAL ENVIRONMENT
189558A	US	13/546,144	#EMPTY	Filed	11-Jul-12	#EMPTY	METRO ETHERNET CONNECTIVITY FAULT MANAGEMENT ACCELERATION
18970RO	US	14/093,977	#EMPTY	Filed	2-Dec-13	#EMPTY	METHOD AND SYSTEM FOR WEIGHTED FAIR QUEUEING
19040RO	US	13/873,623	#EMPTY	Filed	30-Apr-13	#EMPTY	DIFFERENTIAL TIMING TRANSFER OVER SYNCHRONOUS ETHERNET USING DIGITAL FREQUENCY GENERATORS AND CONTROL WORD SIGNALING
19041RO	US	13/226,601	#EMPTY	Filed	7-Sep-11	#EMPTY	EXTENDED PRIVATE LAN
19078RO	US	11/961,806	#EMPTY	Filed	20-Dec-07	#EMPTY	RELATIONSHIP NETWORKS
191378A	US	12/129,373	#EMPTY	Filed	29-May-08	#EMPTY	METHOD AND SYSTEM FOR AUTOMATIC DIRECTORY ENTRY FOR TELECOMMUNICATIONS DEVICES
19142RO	US	12/741,774	#EMPTY	Filed	10-Oct-10	#EMPTY	UPLINK POWER CONTROL WITH INTERFERENCE-OVER-THERMAL (IOT) LOAD CONTROL
19318RO	US	14/109,021	#EMPTY	Filed	17-Dec-13	#EMPTY	SOURCE ROUTED VID TUNNELS FOR ETHERNET PACKET STEERING
19329ID	US	14/034,698	#EMPTY	Filed	24-Sep-13	#EMPTY	RESILIENT PROVIDER LINK STATE BRIDGING (PLSB) VIRTUAL PRIVATE LAN SERVICE (VPLS) INTERWORKING
193378A	US	13/783,710	#EMPTY	Filed	4-Mar-13	#EMPTY	MONITORING EDC POLARIZATION INVERSE FILTER COEFFICIENTS TO IDENTIFY REAL-TIME PHYSICAL INTRUSION INTO A CORE OR METRO OPTICAL NETWORK
19352RR	US	12/991,837	#EMPTY	Filed	9-Nov-10	#EMPTY	METHOD AND SYSTEM FOR TRANSMISSION OF FRAGMENTED PACKETS ON A PACKET-BASED COMMUNICATION NETWORK
19459RN	US	13/451,276	#EMPTY	Filed	20-Apr-12	#EMPTY	TECHNIQUES FOR ROUTING DATA BETWEEN NETWORK AREAS
19466RO	US	14/099,717	#EMPTY	Filed	6-Dec-13	#EMPTY	PROVIDER LINK STATE BRIDGING (PLSB) COMPUTATION METHOD
19486RO	US	12/992,122	#EMPTY	Filed	9-Feb-11	#EMPTY	A MECHANISM TO DIVERT AN IP FLOW OVER A NON-IP TRANSPORT
19513ID	US	13/044,905	#EMPTY	Filed	10-Mar-11	#EMPTY	PROTECTION FOR PROVIDER BACKBONE BRIDGE TRAFFIC ENGINEERING
19558RM	US	13/453,011	#EMPTY	Filed	23-Apr-12	#EMPTY	DYNAMIC NETWORKING OF VIRTUAL MACHINES
19567ID	US	14/031,601	#EMPTY	Filed	19-Sep-13	#EMPTY	METHOD AND SYSTEM FOR CONTROLLING ESTABLISHMENT OF COMMUNICATION CHANNELS IN A CONTACT CENTRE
19570RR	US	12/993,322	#EMPTY	Filed	18-Nov-10	#EMPTY	CONTROLLING ALLOCATION OF A PORTION OF A SHARED CHANNEL TO USE FOR CONTROL INFORMATION
19600RO	US	14/078,068	#EMPTY	Filed	12-Nov-13	#EMPTY	UTILIZING BETWEENNESS TO DETERMINE FORWARDING STATE IN A ROUTED NETWORK
196778A	US	13/680,840	#EMPTY	Filed	19-Nov-12	#EMPTY	UTILIZING OPTICAL BYPASS LINKS IN A COMMUNICATION NETWORK
19700RO	US	12/420,976	#EMPTY	Filed	9-Apr-09	#EMPTY	ENHANCED COMMUNICATION BRIDGE
19743RO	US	13/123,077	#EMPTY	Filed	7-Apr-11	#EMPTY	USER EQUIPMENT CENTRIC CLUSTERING METHOD SUITABLE FOR COORDINATED MULTI-POINT TRANSMISSION AND RECEPTION
197478A	US	14/296,077	#EMPTY	Filed	4-Jun-14	#EMPTY	SERVICE INSTANCE APPLIED TO MPLS NETWORKS
19769RO	US	13/754,177	#EMPTY	Filed	30-Jan-13	#EMPTY	FREQUENCY AGILE FILTER USING USING A DIGITAL FILTER
198011Y	US	11/996,735	#EMPTY	Filed	31-Jan-08	#EMPTY	SEGMENTED NETWORK IDENTITY MANAGEMENT
198388A	US	14/246,649	#EMPTY	Filed	7-Apr-14	#EMPTY	METHOD AND APPARATUS FOR SIMULATING IP MULTINETTING
19923RO	US	13/813,008	#EMPTY	Filed	29-Jan-13	#EMPTY	WEB BASED ACCESS TO VIDEO CONTENT ASSOCIATED WITH VOICEMAIL
19953RR	US	13/261,253	#EMPTY	Filed	5-Apr-12	#EMPTY	INTER-MAG BIDIRECTIONAL IP TUNNELING FOR PMP-6-FAST HANDOFF
19983RO	US	14/109,281	#EMPTY	Filed	17-Dec-13	#EMPTY	METHOD AND APPARATUS FOR REDUCING THE CONTRIBUTION OF NOISE TO DIGITALLY SAMPLED SIGNALS
19990RO	US	13/914,680	#EMPTY	Filed	11-Jun-13	#EMPTY	NEXT HOP COMPUTATION FUNCTIONS FOR EQUAL COST MULTI-PATH PACKET SWITCHING NETWORKS
BA0091	US	90/007,192	RE5,732,080	Granted	15-Jan-98	9-Nov-99	METHOD AND APPARATUS FOR CONTROLLING DATA FLOW WITHIN A SWITCHING DEVICE
BA0307	US	14/179,981	#EMPTY	Filed	13-Feb-14	#EMPTY	NON-BROADCAST MULTIPLE ACCESS INVERSE NEXT HOP RESOLUTION PROTOCOL (INHRRP)

Pub No	Pub No	Pub No	Pub No	Pub No	Pub No	Pub No	Pub No
Pub No	Pub No	Pub No	Pub No	Pub No	Pub No	Pub No	Pub No
ID0901	US	29/099,452	D424,066	Inactive	12-Jun-98	2-May-00	A CONTAINER FOR ELECTRICAL ELECTRONIC EQUIPMENT
ID0943	US	29/090,556	D413,021	Inactive	9-Jul-98	24-Aug-99	A CONTAINER FOR ELECTRICAL ELECTRONIC EQUIPMENT
ID0962	US	29/090,414	D418,074	Inactive	8-Jul-98	28-Dec-99	SIGNAL COUPLER UNIT
ID1001	US	29/090,872	D408,400	Inactive	17-Jul-98	20-Apr-99	MOBILE COMMUNICATIONS DEVICE
MO0098	US	08/137,453	5,394,000	Inactive	7-Oct-93	28-Feb-95	METHOD OF FORMING SELFALIGNED INTERPOLYSILICON CAPACITOR
MO0112	US	08/041,378	5,296,726	Inactive	1-Apr-93	22-Mar-94	HIGH RESISTIVE LOAD FOR AN INTEGRATED CIRCUIT
MO0121	US	08/080,544	5,362,669	Inactive	24-Jun-93	8-Nov-94	METHOD OF MAKING INTEGRATED CIRCUITS
MO0121	US	08/638,084	5,773,871	Inactive	25-Apr-96	30-Jun-98	METHOD OF MAKING INTEGRATED CIRCUITS
RM1053	US	08/080,543	5,515,475	Inactive	24-Jun-93	7-May-96	SPEECH RECOGNITION METHOD USING A TWO PASS SEARCH
RO2524	US	08/205,333	5,485,593	Inactive	3-Mar-94	16-Jan-96	SHARED MEMORY ACCESS AND DATA STRUCTURE ACCESS CONTROL
RO2554	US	07/858,293	5,241,265	Inactive	26-Mar-92	31-Aug-93	LOGIC FUNCTION CIRCUIT WITH AN ARRAY OF DATA STORES AND THEIR CIRCUIT TESTING
RO2614	US	08/033,227	5,353,282	Inactive	18-Mar-93	4-Oct-94	LOCAL AREA NETWORK EMBEDDED IN THE COMMUNICATION SWITCH CORE
RO2621	US	07/868,941	5,274,702	Inactive	16-Apr-92	28-Dec-93	WIDEBAND TELEPHONE LINE INTERFACE CIRCUIT
RO2661	US	08/104,265	5,471,650	Inactive	7-Jan-93	28-Nov-95	RADIO LINK PARAMETER CONTROL IN WIRELESS PERSONAL COMMUNICATIONS SYSTEM
RO2687	US	07/858,377	5,349,587	Inactive	26-Mar-92	20-Sep-94	METHOD AND APPARATUS FOR TESTING DIGITAL SYSTEMS
RO2716	US	07/868,940	5,258,713	Inactive	16-Apr-92	2-Nov-93	IMPEDANCE GENERATOR FOR A TELEPHONE LINE INTERFACE CIRCUIT
RO2743	US	07/906,192	5,363,425	Inactive	29-Jun-92	8-Nov-94	METHOD AND APPARATUS FOR PROVIDING A PERSONAL LOCATOR, ACCESS CONTROL AND ASSET TRACKING SERVICE USING AN IN-BUILDING TEL NETWORK
RO2764	US	08/426,438	5,511,118	Inactive	21-Apr-95	23-Apr-96	METHOD OF PROVIDING DC FEED TO A TELEPHONE LINE
RO2765	US	07/921,671	5,285,164	Inactive	30-Jul-92	8-Feb-94	ELECTROMAGNETIC RADIATION MEASUREMENT APPARATUS
RO2793	US	08/013,560	5,353,025	Inactive	4-Feb-93	4-Oct-94	METHODS AND APPARATUS FOR DIGITALLY ENCODING REPETITIVE ANALOG WAVEFORMS
RO2794	US	08/013,711	5,406,209	Inactive	4-Feb-93	11-Apr-95	METHODS AND APPARATUS FOR TESTING CIRCUIT BOARDS
RO2812	US	08/041,377	5,390,231	Inactive	1-Apr-93	14-Feb-95	PROTECTION AND RECOVERY OF TELEPHONE LINE INTERFACE CIRCUITS
RO2877	US	08/246,207	5,420,529	Inactive	19-May-94	30-May-95	CURRENT STEERING SWITCH AND HYBRID BICMOS MULTIPLEXER WITHCMOS COMMUTATION SIGNAL AND CML/ECL DATA SIGNALS
RO2885	US	08/180,155	5,408,260	Inactive	11-Jan-94	18-Apr-95	CUSTOMER PREMISES ADSL SIGNAL DISTRIBUTION ARRANGEMENT
RO3031	US	29/044,661	D395,653	Inactive	28-Sep-95	30-Jun-98	TELEPHONE NECK SET
RO3032	US	29/044,814	D398,927	Inactive	28-Sep-95	29-Sep-98	SOUNDBEAM TELEPHONE BASE STATION
RO3191	US	29/061,305	D386,493	Inactive	21-Nov-96	18-Nov-97	TELEPHONE
RO3446	US	29/064,889	D396,041	Inactive	13-Jan-97	14-Jul-98	WIRELESS ANTENNA STAND
10003D	US	09/338,693	6,438,287	Granted	23-Jun-99	20-Aug-02	DISPERSION COMPENSATION
10128RR	US	09/473,746	6,539,221	Granted	28-Dec-99	25-Mar-03	AUTOMATIC WIRELESS NETWORK DESIGN
10130RO	US	09/663,568	6,898,794	Granted	15-Sep-00	24-May-05	METHOD AND SYSTEM FOR FORMING SKELETONS FOR GENERATING VERIFICATION SYSTEMS
10152RO	US	09/333,269	6,922,390	Granted	15-Jun-99	26-Jul-05	METHOD AND APPARATUS FOR FORECASTING AND CONTROLLING CONGESTION IN A DATA TRANSPORT NETWORK
10159RR	US	09/369,944	6,578,085	Granted	6-Aug-99	10-Jun-03	SYSTEM AND METHOD FOR ROUTE OPTIMIZATION IN A WIRELESS INTERNET PROTOCOL NETWORK
10172ST	US	09/465,645	6,816,468	Granted	16-Dec-99	9-Nov-04	CAPTIONING FOR TELE-CONFERENCE
10173ST	US	09/417,047	6,704,294	Granted	13-Oct-99	9-Mar-04	ESTABLISHMENT OF A PSTN AND INTERNET MULTIMEDIA COLLABORATION SESSION
10177SC	US	09/404,043	6,744,867	Granted	23-Sep-99	1-Jun-04	REMOTE CONTROL OF CPE-BASED SERVICE LOGIC
10177SC	US	10/856,163	7,933,396	Granted	28-May-04	26-Apr-11	REMOTE CONTROL OF CPE-BASED SERVICE LOGIC
10181RO	US	09/390,214	6,178,001	Granted	8-Sep-99	23-Jan-01	METHOD AND APPARATUS FOR OPTICAL FREQUENCY MODULATION CHARACTERIZATION OF LASER SOURCES
10201RO	US	09/401,919	6,530,032	Granted	23-Sep-99	4-Mar-03	NETWORK FAULT RECOVERY METHOD AND APPARATUS
10202RO	US	09/522,096	6,490,244	Granted	9-Mar-00	3-Dec-02	LAYER 3 ROUTING IN SELF-HEALING NETWORKS
10204RR	US	09/351,342	6,480,718	Granted	12-Jul-99	12-Nov-02	AUTOMATIC FREQUENCY PLANNING FOR A WIRELESS NETWORK
10207RR	US	09/455,090	6,647,059	Granted	6-Dec-99	11-Nov-03	CODE DIVISION MULTIPLE ACCESS CABLE MODEM
10212BA	US	09/398,370	6,640,251	Granted	17-Sep-99	28-Oct-03	MULTICAST-ENABLED ADDRESS RESOLUTION PROTOCOL (ME-ARP)
10212BA	US	10/444,397	7,702,808	Granted	23-May-03	20-Apr-10	MULTICAST-ENABLED ADDRESS RESOLUTION PROTOCOL (ME-ARP)
10212BA	US	12/661,895	8,024,474	Granted	24-Mar-10	20-Sep-11	MULTICAST-ENABLED ADDRESS RESOLUTION PROTOCOL (ME-ARP)
10212BA	US	13/222,900	8,782,288	Granted	31-Aug-11	15-Jul-14	MULTICAST-ENABLED ADDRESS RESOLUTION PROTOCOL (ME-ARP)
10223D	US	09/472,449	6,671,510	Granted	27-Dec-99	30-Dec-03	WIRELESS TELEPHONE SYSTEM AND OPERATION METHOD THEREFOR
10225RR	US	09/358,994	6,690,651	Granted	22-Jul-99	10-Feb-04	METHOD AND APPARATUS FOR AUTOMATIC TRANSFER OF A CALL IN A COMMUNICATIONS SYSTEM IN RESPONSE TO CHANGES IN QUALITY OF SERVICE
10232RO	US	09/519,668	6,760,383	Granted	6-Mar-00	6-Jul-04	LONG REACH SDSL SYSTEM SPECTRALLY COMPATIBLE WITH ADSL SYSTEMS
10247SR	US	09/359,538	6,674,746	Granted	22-Jul-99	6-Jan-04	METHOD AND APPARATUS FOR VOICE OVER INTERNET PROTOCOL SWAPPING IN A COMMUNICATIONS SYSTEM
10254RO	US	09/465,340	6,714,560	Granted	17-Dec-99	30-Mar-04	SS7 SIGNALING TRANSPORT OVER ATM
10256RO	US	09/335,836	6,259,391	Granted	18-Jun-99	10-Jul-01	ANALOG GAIN CONTROL ADJUSTMENT USING A PROBABILISTIC ALGORITHM
10258RN	US	09/354,372	6,584,193	Granted	14-Jul-99	24-Jun-03	SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR NETWORK TELEPHONE QUEUING
10282RO	US	09/356,041	6,788,785	Granted	16-Jul-99	7-Sep-04	STABLE ADAPTIVE FILTER AND METHOD

Pub No	Pub Title	Pub No	Pub Title	Pub No	Pub Title	Pub No	Pub Title
125475S	US 09/753,080	7,237,012	Granted		29-Dec-00	26-Jun-07	METHOD AND APPARATUS FOR CLASSIFYING JAVA REMOTE METHOD INVOCATION TRANSPORT TRAFFIC
12560ID	US 09/739,528	6,636,662	Granted		15-Dec-00	21-Oct-03	PLANAR WAVEGUIDE DISPERSION COMPENSATOR
12560ID	US 09/902,362	6,690,855	Granted		10-Jul-01	10-Feb-04	PLANAR WAVEGUIDE DISPERSION COMPENSATOR
12562RO	US 09/672,816	6,771,651	Granted		29-Sep-00	3-Aug-04	PROVIDING ACCESS TO A HIGH-CAPACITY PACKET NETWORK
12562RO	US 10/872,434	6,947,424	Granted		22-Jun-04	20-Sep-05	PROVIDING ACCESS TO A HIGH-CAPACITY PACKET NETWORK
12572RO	US 09/579,501	6,606,667	Granted		30-May-00	12-Aug-03	BALANCED NETWORKS
125895T	US 09/588,699	6,785,325	Granted		7-Jun-00	31-Aug-04	DSL SPLITTER PROVIDING TEST ACCESS TO AN INTERCONNECTED SUBSCRIBER LOOP AND METHOD
12595ID	US 09/693,132	7,249,197	Granted		20-Oct-00	24-Jul-07	SYSTEM, APPARATUS AND METHOD FOR PERSONALISING WEB CONTENT
12599ID	US 09/750,903	7,363,371	Granted		28-Dec-00	22-Apr-08	TRAFFIC FLOW MANAGEMENT IN A COMMUNICATIONS NETWORK
12602RO	US 09/695,969	6,725,401	Granted		26-Oct-00	20-Apr-04	OPTIMIZED FAULT NOTIFICATION IN AN OVERLAY MESH NETWORK VIA NETWORK KNOWLEDGE CORRELATION
12608RX	US 09/728,418	6,862,267	Granted		28-Nov-00	1-Mar-05	DETERMINING NETWORK ADDRESSES AND PORTS USING TABLE FROM A DESCRIPTION FILE
12611ID	US 09/605,236	6,765,921	Granted		28-Jun-00	20-Jul-04	COMMUNICATIONS NETWORK
12620RN	US 09/696,125	6,826,270	Granted		25-Oct-00	30-Nov-04	CALLING NAME AND CUSTOMIZATION IN A TELECOMMUNICATIONS ENVIRONMENT
12622RO	US 09/726,029	6,832,051	Granted		30-Nov-00	14-Dec-04	DISPERSION MANAGED OPTICAL TRANSMISSION LINKS FOR WAVELENGTH DIVISION MULTIPLEXED SYSTEMS
12623RO	US 09/651,188	6,388,890	Granted		30-Aug-00	14-May-02	TECHNIQUE FOR REDUCING THE NUMBER OF LAYERS IN A MULTILAYERCIRCUIT BOARD
12623RO	US 10/126,700	6,545,876	Granted		22-Apr-02	8-Apr-03	TECHNIQUE FOR REDUCING THE NUMBER OF LAYERS IN A MULTILAYERCIRCUIT BOARD
12625RO	US 09/593,697	6,366,716	Granted		15-Jun-00	2-Apr-02	OPTICAL SWITCHING DEVICE
12633RO	US 09/735,471	6,888,848	Granted		14-Dec-00	3-May-05	COMPACT SEGMENTATION OF VARIABLE-SIZE-PACKETS STREAMS
12644ID	US 09/867,173	7,154,879	Granted		29-May-01	26-Dec-06	POINT TO MULTIPOINT NETWORK
12652RO	US 09/746,421	6,754,288	Granted		26-Dec-00	22-Jun-04	LINE RECEIVER WITH IMPROVED DYNAMIC RANGE
12653RO	US 09/671,140	6,882,799	Granted		28-Sep-00	19-Apr-05	MULTI-GRAINED NETWORK
12653RO	US 10/983,497	7,684,388	Granted		8-Nov-04	23-Mar-10	MULTI-GRAINED NETWORK
12657RR	US 09/748,076	6,763,233	Granted		22-Dec-00	13-Jul-04	TERMINAL ROAMING OPERATIONS BETWEEN INTERGENERATIONAL WIRELESS NETWORKS
12659RO	US 09/954,192	7,184,431	Granted		18-Sep-01	27-Feb-07	ROTATOR COMMUNICATION SWITCH HAVING REDUNDANT ELEMENTS
12667ID	US 09/640,701	7,007,098	Granted		17-Aug-00	28-Feb-06	METHODS OF CONTROLLING VIDEO SIGNALS IN A VIDEO CONFERENCE
12678HU	US 09/726,758	8,782,230	Granted		29-Nov-00	15-Jul-14	METHOD AND APPARATUS FOR USING A COMMAND DESIGN PATTERN TO ACCESS AND CONFIGURE NETWORK ELEMENTS
12683RO	US 09/660,196	6,399,898	Granted		12-Sep-00	4-Jun-02	TECHNIQUE FOR COUPLING SIGNALS BETWEEN CIRCUIT BOARDS
12689RO	US 10/014,805	6,823,104	Granted		14-Dec-01	23-Nov-04	CONTROLLING MESSAGING IN AN OPTICAL NETWORK
12690RO	US 09/735,537	7,120,356	Granted		14-Dec-00	10-Oct-06	CONNECTION VERIFICATION FOR OPTICAL SWITCHES
12691RO	US 09/648,767	7,043,160	Granted		28-Aug-00	9-May-06	METHOD, SYSTEM AND SIGNAL FOR CARRYING OVERHEAD INFORMATION IN A TRANSPORT NETWORK EMPLOYING PHOTONIC SWITCHING NODES
12693RX	US 09/736,210	7,246,171	Granted		15-Dec-00	17-Jul-07	SYSTEM AND METHOD FOR MANAGING DATA TRANSMISSIONS FROM A TFTP SERVER BY SPECIFYING A MAXIMUM BANDWIDTH
12694RR	US 09/711,056	7,136,631	Granted		9-Nov-00	14-Nov-06	APPARATUS AND METHOD TO PROVIDE ONE-CLICK LOGON SERVICE FOR WIRELESS DEVICES
12695RX	US 09/223,047	6,597,689	Granted		30-Dec-98	22-Jul-03	SVC SIGNALING SYSTEM AND METHOD
12695RX	US 10/435,316	7,295,566	Granted		9-May-03	13-Nov-07	SVC SIGNALING SYSTEM AND METHOD
12700RO	US 10/969,748	7,684,389	Granted		20-Oct-04	23-Mar-10	MULTI-DIMENSIONAL LATTICE NETWORK
12706ST	US 09/667,667	6,888,936	Granted		22-Sep-00	3-May-05	USER CONTROLLED LOCATION SHARING DURING A COMMUNICATION
12710RO	US 09/687,358	6,701,150	Granted		13-Oct-00	2-Mar-04	NETWORK DRIVEN CELL SWITCHING AND HANDOFF WITH LOAD BALANCING FOR WIRELESS SYSTEMS
12711RO	US 09/648,622	6,697,970	Granted		28-Aug-00	24-Feb-04	GENERIC FAULT MANAGEMENT METHOD AND SYSTEM
12713AB	US 09/738,983	6,839,344	Granted		19-Dec-00	4-Jan-05	TRANSPORT MECHANISM FOR ISDN BACKHAUL OVER IP
12723ID	US 09/852,995	7,162,474	Granted		10-May-01	9-Jan-07	RECIPIENT CONTROLLED CONTACT DIRECTORIES
12726RO	US 09/850,130	6,643,423	Granted		8-May-01	4-Nov-03	SYSTEM AND METHOD FOR BRIDGE AND ROLL IN A PHOTONIC SWITCH
12728RO	US 09/726,027	6,999,677	Granted		30-Nov-00	14-Feb-06	PROTECTION SWITCHING ARRANGEMENT FOR AN OPTICAL SWITCHING SYSTEM
12728RO	US 11/287,259	7,212,739	Granted		28-Nov-05	1-May-07	PROTECTION SWITCHING ARRANGEMENT FOR AN OPTICAL SWITCHING SYSTEM
12743MD	US 09/709,576	6,888,794	Granted		13-Nov-00	3-May-05	METHOD OF DATA RATE EXCHANGE FOR TRANSMISSIONS ACROSS A PACKET-BASED NETWORK
12748RO	US 10/659,320	7,545,804	Granted		11-Sep-03	9-Jun-09	HIGH THROUGHPUT ROTATOR SWITCH HAVING EXCESS TANDEM BUFFERS
12753RO	US 09/713,292	7,099,933	Granted		16-Nov-00	29-Aug-06	SYSTEM AND METHOD FOR REGULATING WEB SITE ACCESS
12757ID	US 09/708,381	6,819,878	Granted		8-Nov-00	16-Nov-04	PACKET-BASED OPTICAL COMMUNICATIONS NETWORKS
12759ID	US 09/693,100	6,782,200	Granted		20-Oct-00	24-Aug-04	PACKET-BASED OPTICAL COMMUNICATIONS NETWORKS
12771RO	US 09/749,435	6,621,384	Granted		28-Dec-00	16-Sep-03	TECHNOLOGY IMPLEMENTATION OF SUSPENDED STRIPLINE WITHIN MULTI-LAYER SUBSTRATEUSED TO VARY TIME DELAY AND TO MAXIMIZE THE REACH OF SIGNALS WITH HIGH DATA RATES OR HIGH FREQUENCIES
12777RO	US 09/749,470	6,441,319	Granted		28-Dec-00	27-Aug-02	INSERTED COMPONENTS FOR VIA CONNECTION OF SIGNAL TRACKS TO ACHIEVE CONTINUOUS IMPEDANCE MATCHING IN MULTI-LAYER SUBSTRATE
12805RN	US 09/752,143	6,771,173	Granted		29-Dec-00	3-Aug-04	SYSTEM AND DEVICE FOR MONITORING AND SIGNALING PERSONNEL PRESENCE
12839ID	US 09/888,889	6,958,978	Granted		25-Jun-01	25-Oct-05	DIFFERENTIATED SERVICES IN PACKET-SWITCHED NETWORKS
12845RO	US 09/750,174	6,973,035	Granted		29-Dec-00	6-Dec-05	METHOD AND SYSTEM FOR A ROUTING MECHANISM TO SUPPORT TWO-WAY RSVP RESERVATIONS

Pub No	Pub Title	Pub No	Pub Title	Pub No	Pub Title	Pub No	Pub Title	
15120RO	US	10/316,557	7,450,845	Granted		11-Dec-02	11-Nov-08	EXPANDABLE UNIVERSAL NETWORK
15130RO	US	10/195,620	8,144,711	Granted		15-Jul-02	27-Mar-12	HITLESS SWITCHOVER AND BANDWIDTH SHARING IN A COMMUNICATION NETWORK
15130RO	US	13/413,171	8,483,224	Granted		6-Mar-12	9-Jul-13	HITLESS SWITCHOVER AND BANDWIDTH SHARING IN A COMMUNICATION NETWORK
15137RO	US	10/437,676	7,369,491	Granted		14-May-03	6-May-08	REGULATING DATA-BURST TRANSFER
15137RO	US	12/051,317	7,817,543	Granted		19-Mar-08	19-Oct-10	REGULATING DATA-BURST TRANSFER
15141RO	US	10/106,781	7,072,304	Granted		27-Mar-02	4-Jul-06	NETWORK PATH SELECTION BASED ON BANDWIDTH
15148RO	US	11/002,580	7,542,473	Granted		2-Dec-04	2-Jun-09	HIGH-SPEED SCHEDULING APPARATUS FOR A SWITCHING NODE
15148RO	US	12/365,995	7,983,273	Granted		5-Feb-09	19-Jul-11	HIGH-SPEED SCHEDULING APPARATUS FOR A SWITCHING NODE
15155AB	US	10/267,765	7,746,797	Granted		9-Oct-02	29-Jun-10	EMBEDDED REAL-TIME VOICE QUALITY ANALYSIS SYSTEM
15155AB	US	12/782,468	8,593,975	Granted		18-May-10	26-Nov-13	NON-INTRUSIVE MONITORING OF QUALITY LEVELS FOR VOICE COMMUNICATIONS OVER A PACKET-BASED NETWORK
15156RO	US	10/265,621	7,260,097	Granted		8-Oct-02	21-Aug-07	LABEL CONTROL METHOD AND APPARATUS FOR VIRTUAL PRIVATE LAN SEGMENT NETWORKS
15158ID	US	10/425,807	7,136,558	Granted		29-Apr-03	14-Nov-06	OPTICAL WAVEGUIDE
15171RO	US	10/326,122	7,653,050	Granted		23-Dec-02	26-Jan-10	TECHNIQUE FOR IMPLEMENTING A MULTI-SERVICE PACKET AND OPTICAL/TDM VIRTUAL PRIVATE CROSS-CONNECT
15172RN	US	10/100,703	7,227,937	Granted		19-Mar-02	5-Jun-07	MONITORING NATURAL INTERACTION FOR PRESENCE DETECTION
15175RN	US	10/119,923	7,139,797	Granted		10-Apr-02	21-Nov-06	PRESENCE INFORMATION BASED ON MEDIA ACTIVITY
15178ID	US	10/176,140	6,950,571	Granted		20-Jun-02	27-Sep-05	OPTICAL SWITCHABLE COMPONENT
15179BA	US	10/212,408	7,783,043	Granted		5-Aug-02	24-Aug-10	SECURE GROUP COMMUNICATIONS
15179BA	US	12/804,216	8,300,830	Granted		15-Jul-10	30-Oct-12	SECURE GROUP COMMUNICATIONS
15187RN	US	10/331,206	7,349,419	Granted		30-Dec-02	25-Mar-08	QUEUE SIZING FOR PACKET ROUTING
15188RO	US	10/301,681	7,508,846	Granted		22-Nov-02	24-Mar-09	PHYSICAL CAPACITY AGGREGATION SYSTEM AND METHOD
15195RO	US	10/262,022	7,646,761	Granted		1-Oct-02	12-Jan-10	INTEGRATING MULTIMEDIA CAPABILITIES WITH LEGACY NETWORKS
15196ID	US	10/090,383	7,058,008	Granted		4-Mar-02	6-Jun-06	LINK CAPACITY ADJUSTMENT COMPONENT
15199RO	US	10/175,065	6,657,186	Granted		26-Jun-02	2-Dec-03	CHROMATIC DISPERSION DISCRIMINATOR
15203RO	US	10/172,930	7,269,132	Granted		17-Jun-02	11-Sep-07	METHOD AND APPARATUS FOR ACHIEVING TRANSPARENT REDUNDANCY AT A HIERARCHICAL BOUNDARY
15204RO	US	10/323,678	7,483,450	Granted		20-Dec-02	27-Jan-09	METHOD AND SYSTEM FOR LINK-BASED CLOCK SYNCHRONIZATION IN ASYNCHRONOUS NETWORKS
15207RO	US	10/259,433	7,403,988	Granted		30-Sep-02	22-Jul-08	TECHNIQUE FOR AUTONOMOUS NETWORK PROVISIONING
15209RN	US	10/336,523	7,711,810	Granted		3-Jan-03	4-May-10	DISTRIBUTED SERVICES BASED ON PRESENCE TECHNOLOGY
15219RO	US	10/266,183	7,944,817	Granted		7-Oct-02	17-May-11	HIERARCHICAL VIRTUAL TRUNKING OVER PACKET NETWORKS
15228ID	US	10/179,656	7,139,381	Granted		25-Jun-02	21-Nov-06	METHOD AND APPARATUS FOR INITIATING TELEPHONY CONTACT
15233RO	US	10/326,123	6,710,513	Granted		23-Dec-02	23-Mar-04	TECHNIQUE AND APPARATUS FOR WAVE-MIXING FREQUENCY TRANSLATION IN A NETWORK
15234RO	US	10/325,978	6,825,971	Granted		23-Dec-02	30-Nov-04	TECHNIQUE AND APPARATUS FOR FREQUENCY CONVERSION IN AN OPTICAL NETWORK
15236XR	US	09/388,772	6,392,220	Granted		2-Sep-99	21-May-02	MICROMACHINED MEMBERS COUPLED FOR RELATIVE ROTATION BY TORSIONAL FLEXURE HINGES
15263RR	US	10/385,352	7,136,635	Granted		10-Mar-03	14-Nov-06	PROXY SIP SERVER INTERFACE FOR SESSION INITIATION COMMUNICATIONS
15268RO	US	10/176,060	7,333,438	Granted		21-Jun-02	19-Feb-08	PRIORITY AND POLICY BASED RECOVERY IN CONNECTION-ORIENTED COMMUNICATION NETWORKS
15273RO	US	10/139,982	6,876,085	Granted		7-May-02	5-Apr-05	SIGNAL LAYER INTERCONNECT USING TAPERED TRACES
15283RO	US	10/326,064	6,753,679	Granted		23-Dec-02	22-Jun-04	TEST POINT MONITOR USING EMBEDDED PASSIVE RESISTANCE
15289RO	US	10/797,071	7,286,755	Granted		11-Mar-04	23-Oct-07	METHOD AND APPARATUS FOR TESTING AN OPTICAL COMPONENT
15292RR	US	10/186,787	7,142,562	Granted		1-Jul-02	28-Nov-06	ADAPTIVE DATA RATE CONTROL FOR MOBILE DATA TRANSFER FOR HIGH THROUGHPUT AND GUARANTEED ERROR RATE
15300AL	US	10/283,717	7,443,841	Granted		30-Oct-02	28-Oct-08	LONGEST PREFIX MATCHING (LPM) USING A FIXED COMPARISON HASH TABLE
15302RR	US	10/194,329	7,289,484	Granted		12-Jul-02	30-Oct-07	CALL-FAIL-SAFE METHOD FOR WIRELESS TRAFFIC DISTRIBUTION ACROSS BANDS
15312RO	US	10/262,288	7,920,546	Granted		1-Oct-02	5-Apr-11	AUTOMATED ATTENDANT MULTIMEDIA SESSION
15312RO	US	13/047,362	8,848,693	Granted		14-Mar-11	30-Sep-14	AUTOMATED ATTENDANT MULTIMEDIA SESSION
15313RO	US	10/389,804	8,594,499	Granted		18-Mar-03	26-Nov-13	MONITORING PHASE NON-LINEARITIES IN AN OPTICAL COMMUNICATIONS SYSTEM
15313RO	US	14/064,901	8,781,317	Granted		28-Oct-13	15-Jul-14	MONITORING PHASE NON-LINEARITIES IN AN OPTICAL COMMUNICATIONS SYSTEM
15316RO	US	10/261,577	7,050,565	Granted		1-Oct-02	23-May-06	MULTIMEDIA AUGMENTED CALL COVERAGE
15324XR	US	10/384,270	7,042,922	Granted		7-Mar-03	9-May-06	METHOD FOR CALIBRATING PHOTONIC CROSSCONNECT DEVICE
15325XR	US	10/383,437	7,072,031	Granted		7-Mar-03	4-Jul-06	ALIGNMENT LASER FOR USE IN CROSS-CONNECTS
15327XR	US	10/384,108	6,836,589	Granted		7-Mar-03	28-Dec-04	LOW LOSS OPTICAL SWITCH USING DUAL AXIS PIEZO ACTUATION AND SENSING
15331XR	US	10/259,240	6,853,763	Granted		27-Sep-02	8-Feb-05	PHOTONIC SWITCHING INCLUDING PHOTONIC PASS-THROUGH AND ADD/DROP CAPABILITIES
15333RO	US	10/390,880	6,922,501	Granted		19-Mar-03	26-Jul-05	FAST OPTICAL SWITCH
15333RO	US	11/152,926	7,171,072	Granted		15-Jun-05	30-Jan-07	FAST OPTICAL SWITCH
15333RO	US	11/553,596	7,386,202	Granted		27-Oct-06	10-Jun-08	FAST OPTICAL SWITCH
15333RO	US	11/619,847	7,593,607	Granted		4-Jan-07	22-Sep-09	FAST OPTICAL SWITCH
15337RO	US	10/385,995	7,620,712	Granted		11-Mar-03	17-Nov-09	AVAILABILITY MEASUREMENT IN NETWORKS

Patent No.	App. No.	Pub. No.	Pub. Date	App. No.	Pub. No.	Pub. Date	Patent Title
ID1112	US 09/342,362	6,577,627	Granted			29-Jun-99	SERVICE SELECTION ON IP ACCESS NETWORKS
MM0100	US 09/122,433	6,434,156	Granted			24-Jul-98	VIRTUAL SWITCHING FOR INTERCONNECTED NETWORKS
MM0103	US 08/666,800	5,790,641	Granted			19-Jun-96	SYSTEM AND METHOD FOR IMPROVING FACSIMILE DELAY TOLERANCES
MM0103	US 09/059,635	5,949,661	Granted			13-Apr-98	SYSTEM AND METHOD FOR IMPROVING PROTOCOL DELAY TOLERANCES
MM0104	US 08/634,927	6,298,057	Granted			19-Apr-96	SYSTEM AND METHOD FOR RELIABLE TRANSPORTING AURAL INFORMATION ACROSS A NETWORK (AS AMENDED)
MM0105	US 08/724,655	5,940,479	Granted			1-Oct-96	SYSTEM AND METHOD FOR TRANSMITTING AURAL INFORMATION BETWEEN A COMPUTER AND TELEPHONE EQUIPMENT
MO0144	US 08/398,264	5,583,359	Granted			3-Mar-95	CAPACITOR STRUCTURE FOR AN INTEGRATED CIRCUIT AND METHOD OF FABRICATION THEREOF
MO0146	US 08/764,367	6,077,715	Granted			12-Dec-96	FERROELECTRIC DIELECTRIC FOR INTEGRATED CIRCUIT APPLICATIONS AT MICROWAVE FREQUENCIES
MO0160	US 08/948,034	5,831,992	Granted			9-Oct-97	METHODS AND APPARATUS FOR FAULT DIAGNOSIS IN SELF-TESTABLE SYSTEMS
MO0162	US 08/595,116	5,753,945	Granted			1-Feb-96	INTEGRATED CIRCUIT STRUCTURE COMPRISING A ZIRCONIUM TITANIUM OXIDE BARRIER LAYER AND METHOD OF FORMING A ZIRCONIUM TITANIUM OXIDE BARRIER LAYER
MO0175	US 08/743,898	5,844,436	Granted			6-Nov-96	METHOD OF RECOVERING A SAMPLING CLOCK IN A FRAMED DATA COMMUNICATIONS FORMAT WITH REDUCED PHASE JITTER AND WANDER
MO0180	US 08/691,056	5,838,551	Granted			1-Aug-96	ELECTRONIC PACKAGE
MO0201	US 09/054,440	6,058,144	Granted			3-Apr-98	MULTI GB/S DATA PULSE RECEIVER
RC1016	US 09/295,652	6,493,351	Granted			21-Apr-99	COLLISION DETECTION ON A DIFFERENTIAL BUS
RC1025	US 09/295,714	6,625,163	Granted			21-Apr-99	COLLISION DETECTION ON A DIFFERENTIAL BUS
RG1025	US 09/361,854	6,563,926	Granted			27-Jul-99	RESETTING SURGE PROTECTION IN TELEPHONE LINE INTERFACE CIRCUITS
RM1078	US 08/753,605	5,845,245	Granted			27-Nov-96	METHOD AND APPARATUS FOR REDUCING FALSE REJECTION IN A SPEECH RECOGNITION SYSTEM
RM1081	US 09/377,049	6,212,261	Granted			19-Aug-99	INTERNET-BASED TELEPHONE CALL MANAGER
RM1081	US 09/401,521	6,189,747	Granted			22-Sep-99	INTERNET-BASED TELEPHONE CALL MANAGER
RM1082	US 08/773,494	6,289,090	Granted			23-Dec-96	DELIVERY OF DISPLAY INFORMATION TO THE CALLER IN AN ADVANCED INTELLIGENT NETWORK
RM1083	US 08/772,257	5,956,393	Granted			23-Dec-96	SYSTEM AND METHOD FOR LIMITING CALL VELOCITY ATTEMPTS IN A PUBLIC SWITCHED TELEPHONE NETWORK
RM1093	US 09/355,394	6,782,095	Granted			27-Jul-99	METHOD AND APPARATUS FOR PERFORMING SPECTRAL PROCESSING IN TONE DETECTION
RM1094	US 08/994,007	5,983,177	Granted			18-Dec-97	METHOD AND APPARATUS FOR OBTAINING TRANSCRIPTIONS FROM MULTIPLE TRAINING UTTERANCES
RM1095	US 08/964,023	6,073,099	Granted			4-Nov-97	PREDICTING AUDITORY CONFUSIONS USING A WEIGHTED LEVINSTEIN DISTANCE
RM1099	US 08/934,892	6,006,182	Granted			22-Sep-97	SPEECH RECOGNITION REJECTION METHOD USING GENERALIZED ADDITIVE MODELS
RM1107	US 08/994,008	6,185,265	Granted			18-Dec-97	SYSTEM AND METHOD FOR COMMUNICATION SESSION DISPOSITION RESPONSIVE TO EVENTS IN A TELECOMMUNICATIONS NETWORK AND THE INTERNET
RM1113	US 08/934,736	6,253,178	Granted			22-Sep-97	SEARCH AND RESCORING METHOD FOR A SPEECH RECOGNITION SYSTEM
RM1115	US 09/119,621	6,092,045	Granted			21-Jul-98	METHOD AND APPARATUS FOR SPEECH RECOGNITION
RM1116	US 08/965,781	6,098,040	Granted			7-Nov-97	METHOD AND APPARATUS FOR PROVIDING AN IMPROVED FEATURE SET IN SPEECH RECOGNITION BY PERFORMING NOISE CANCELLATION AND BACKGROUND MASKING
RM1117	US 08/954,469	6,253,173	Granted			20-Oct-97	SPLIT-VECTOR QUANTIZATION FOR SPEECH SIGNAL INVOLVING OUT-OF-SEQUENCE REGROUPING OF SUB-VECTORS
RM1118	US 08/994,762	6,304,649	Granted			19-Dec-97	METHOD AND SYSTEM FOR PROCESSING AN INCOMING CALL
RM1120	US 08/928,769	6,122,361	Granted			12-Sep-97	AUTOMATED DIRECTORY ASSISTANCE SYSTEM UTILIZING A PRIORI ADVISOR FOR PREDICTING THE MOST LIKELY REQUESTED LOCALITY
RM1126	US 09/215,466	6,681,006	Granted			17-Dec-98	SERVICE ACTIVATION UPON AUTOMATIC CALLBACK AND AUTOMATIC RECALL EXPIRATION
RM1130	US 09/046,645	6,144,723	Granted			24-Mar-98	METHOD AND APPARATUS FOR PROVIDING VOICE ASSISTED CALL MANAGEMENT IN A TELECOMMUNICATIONS NETWORK
RM1134	US 09/062,969	6,859,451	Granted			21-Apr-98	SERVER FOR HANDLING MULTIMODAL INFORMATION
RM1136	US 09/144,111	6,393,467	Granted			31-Aug-98	NETWORK INTERCONNECTED COMPUTING DEVICE, SERVER AND NOTIFICATION METHOD
RM1137	US 09/144,110	6,253,249	Granted			31-Aug-98	EXAMINER AMENDED TITLE TO READ "TELEPHONE NETWORK SYSTEM HAVING GATEWAY FOR FORWARDING AND BRIDGING TELEPHONE CALL ACROSS NETWORKS AND ALLOWING END-USERS TO MAINTAIN HIGH QUALITY CALL CONNECTION". HOWEVER, GRANTED PATENT COVER PAGE FAILS TO REFLECT THIS C
RM1138	US 09/144,109	6,393,122	Granted			31-Aug-98	METHOD AND DEVICE FOR PROVIDING INTERMEDIATE TELEPHONE SERVICE WITH ENHANCED NETWORK RELIABILITY
RM1139	US 10/227,413	6,801,952	Granted			26-Aug-02	METHOD AND DEVICES FOR PROVIDING NETWORK SERVICES FROM SEVERAL SERVERS
RM1143	US 09/184,030	6,240,449	Granted			2-Nov-98	METHOD AND APPARATUS FOR AUTOMATIC CALL SETUP IN DIFFERENT NETWORK DOMAINS
RM1044	US 08/686,353	5,910,306	Granted			25-Jun-96	DIGITAL SINGLE-FREQUENCY TONE DETECTION IN PRESENCE OF ALIASES
RM1048	US 09/202,898	6,735,168	Granted			25-Jun-97	METHOD AND ARCHITECTURE FOR PROVIDING TELEPHONY BETWEEN DATA NETWORKS AND PSTN
RM1050	US 08/954,468	6,148,068	Granted			20-Oct-97	SYSTEM FOR MANAGING AN AUDIO CONFERENCE
RM1057	US 08/873,875	5,995,557	Granted			12-Jun-97	tone detection with aliasing bandpass filters
RM1080	US 08/990,941	6,421,337	Granted			15-Dec-97	CONVERTING DEVICE FOR ALLEVIATING SWITCH CONGESTION CAUSED BY LONG HOLD TIMES FOR ON-LINE ACCESS CALLS
RM1082	US 09/039,579	6,618,587	Granted			16-Mar-98	METHOD AND SYSTEM FOR ASSIGNING MULTIPLE DIRECTORY NUMBERS (DN) TO A PERSONAL COMMUNICATION SYSTEM (PCS) TELEPHONE
RM1083	US 09/361,099	6,549,621	Granted			26-Jul-99	METHOD AND SYSTEM FOR INTEGRATING A COMPUTER AND A TELEPHONE
RM1104	US 09/129,724	6,222,911	Granted			5-Aug-98	PROGRAMMABLE ACCESS CARRIER SELECTION TERMINAL
RM1105	US 09/102,016	6,952,416	Granted			22-Jun-96	TREATMENTS IN A DISTRIBUTED COMMUNICATIONS SYSTEM
RM1111	US 09/153,021	6,219,805	Granted			15-Sep-98	METHOD AND SYSTEM FOR DYNAMIC RISK ASSESSMENT OF SOFTWARE SYSTEMS
RM1114	US 09/281,503	6,493,336	Granted			30-Mar-99	SYSTEM OPTIMIZED ALWAYS ON DYNAMIC INTEGRATED SERVICES DIGITAL NETWORK
RM1115	US 09/187,975	6,430,176	Granted			6-Aug-98	MULTIMEDIA CHANNEL MANAGEMENT THROUGH PSTN SIGNALING
RM1117	US 09/065,124	6,256,389	Granted			23-Apr-98	INTEGRATED TELECOMMUNICATION COLLABORATION SYSTEM

Patent No.	Applicant	Pub. No.	Pub. Date	Grant No.	Grant Date	Pub. No.	Pub. Date	Patent Title
RO3292	US	08/934,672	5,939,901	Granted	22-Sep-97	17-Aug-99		SYNTHESIZABLE FLIP FLOP BASED PHASE FREQUENCY COMPARATOR FOR PHASE-LOCKED LOOPS
RO3313	US	08/985,265	6,037,937	Granted	4-Dec-97	14-Mar-00		NAVIGATION TOOL FOR GRAPHICAL USER INTERFACE
RO3315	US	08/842,020	6,333,973	Granted	23-Apr-97	25-Dec-01		INTEGRATED MESSAGE CENTER
RO3316	US	08/842,036	6,084,951	Granted	23-Apr-97	4-Jul-00		ICONIZED NAME LIST
RO3326	US	09/071,000	6,255,830	Granted	4-May-98	3-Jul-01		METHOD OF TESTING SHIELDING EFFECTIVENESS AND ELECTROMAGNETIC FIELD GENERATOR FOR USE IN TESTING SHIELDING EFFECTIVENESS
RO3334	US	08/821,145	5,946,313	Granted	20-Mar-97	31-Aug-99		MECHANISM FOR MULTIPLEXING ATM AALS VIRTUAL CIRCUITS OVER ETHERNET
RO3335	US	09/146,232	6,271,835	Granted	3-Sep-98	7-Aug-01		TOUCH-SCREEN INPUT DEVICE
RO3336	US	08/958,396	6,118,777	Granted	27-Oct-97	12-Sep-00		SYSTEM AND METHOD FOR PROVIDING COMPETING LOCAL EXCHANGE CARRIERS UNBUNDLED ACCESS TO SUBSCRIBER ACCESS LINES
RO3366	US	08/996,997	6,225,867	Granted	23-Dec-97	1-May-01		PROTECTION SCHEME FOR MULTI TRANSISTOR AMPLIFIERS
RO3373	US	08/749,688	6,014,707	Granted	15-Nov-96	11-Jan-00		STATELESS DATA TRANSFER PROTOCOL WITH CLIENT CONTROLLED TRANSFER UNIT SIZE
RO3401	US	08/947,855	6,130,893	Granted	9-Oct-97	10-Oct-00		METHOD AND APPARATUS FOR MULTIPLEXING TELEPHONE LINES OVER A COMMON ACCESS NETWORK
RO3403	US	08/896,978	5,807,537	Granted	18-Jul-97	25-May-99		OA&M SYSTEM
RO3409	US	08/962,291	6,091,739	Granted	31-Oct-97	18-Jul-00		INTERCONNECT
RO3419	US	08/992,581	6,055,310	Granted	17-Dec-97	25-Apr-00		PHASE REVERSAL TONE DETECTOR USING DSP
RO3424	US	08/987,251	5,991,544	Granted	9-Dec-97	23-Nov-99		PROCESS AND APPARATUS FOR MANAGING A SOFTWARE LOAD IMAGE
RO3437	US	08/986,783	6,202,091	Granted	8-Dec-97	13-Mar-01		PROCESS AND APPARATUS FOR INITIALIZING A COMPUTER FROM POWER UP
RO3440	US	08/921,028	6,069,895	Granted	29-Aug-97	30-May-00		DISTRIBUTED ROUTE SERVER
RO3442	US	08/988,391	6,148,052	Granted	10-Dec-97	14-Nov-00		DIGITAL PHASE DETECTOR WITH RING OSCILLATOR CAPTURE AND INVERTERS DELAY CALIBRATION
RO3444	US	08/970,206	6,083,281	Granted	14-Nov-97	4-Jul-00		PROCESS AND APPARATUS FOR TRACING SOFTWARE ENTITIES IN A DISTRIBUTED SYSTEM
RO3448	US	09/207,255	6,184,717	Granted	9-Dec-98	6-Feb-01		DIGITAL SIGNAL TRANSMITTER AND RECEIVER USING SOURCE BASED REFERENCE LOGIC LEVELS
RO3467	US	08/996,251	6,751,232	Granted	22-Dec-97	15-Jun-04		LINK
RO3468	US	09/172,996	6,381,246	Granted	16-Oct-98	30-Apr-02		TELEPHONY SYSTEM AND METHOD OF SIGNALLING
RO3484	US	08/854,266	6,086,377	Granted	9-May-97	11-Jul-00		SYSTEM AND METHOD FOR PRODUCT AND SERVICE CONFIGURATION
RO3486	US	08/774,548	5,918,248	Granted	30-Dec-96	29-Jun-99		SHARED MEMORY CONTROL ALGORITHM FOR MUTUAL EXCLUSION AND ROLLBACK
RO3494	US	08/996,772	5,987,098	Granted	23-Dec-97	16-Nov-99		METHOD AND SYSTEM FOR SPARING ECHO CANCELLERS
RO3500	US	08/996,765	5,909,574	Granted	23-Dec-97	1-Jun-99		COMPUTING SYSTEM WITH EXCEPTION HANDLER AND METHOD OF HANDLING EXCEPTIONS IN A COMPUTING SYSTEM
RO3503	US	08/812,807	5,991,292	Granted	6-Mar-97	23-Nov-99		NETWORK ACCESS IN MULTI-SERVICE ENVIRONMENT
RO3506	US	08/998,218	6,128,708	Granted	24-Dec-97	3-Oct-00		METHOD FOR TESTING AND MITIGATING SHARED MEMORY CONTENTION IN MULTIPROCESSOR SYSTEMS
RO3523	US	09/050,013	6,310,875	Granted	30-Mar-98	30-Oct-01		METHOD AND APPARATUS FOR PORT MEMORY MULTICAST COMMON MEMORY SWITCHES
RO3526	US	08/992,003	6,310,944	Granted	17-Dec-97	30-Oct-01		METHOD FOR ADDING CONTEXT TO COMMUNICATIONS
RO3526	US	09/948,671	6,853,711	Granted	10-Sep-01	8-Feb-05		METHOD FOR ADDING CONTEXT TO COMMUNICATIONS
RO3531	US	08/897,603	6,058,177	Granted	21-Jul-97	2-May-00		MECHANISM TO SUPPORT MULTIPLE VERSIONS OF TOLL FREE SERVICE
RO3534	US	09/223,836	6,473,428	Granted	31-Dec-98	29-Oct-02		MULTI-THREADED, MULTI-CAST SWITCH
RO3539	US	09/218,429	6,522,633	Granted	22-Dec-98	18-Feb-03		CONFERENCING ARRANGEMENT FOR USE WITH WIRELESS TERMINALS
RO3546	US	08/966,212	5,920,614	Granted	7-Nov-97	6-Jul-99		CITY, TIME AND TOLL-CHARGE DISPLAY WHEN CALLING TELEPHONE NUMBERS
RO3556	US	09/136,416	6,333,917	Granted	19-Aug-98	25-Dec-01		METHOD AND APPARATUS FOR RED (RANDOM EARLY DETECTION) AND ENHANCEMENTS
RO3559	US	09/223,004	6,557,056	Granted	30-Dec-98	29-Apr-03		METHOD AND APPARATUS FOR EXCHANGING DATA BETWEEN TRANSACTIONAL AND NON-TRANSACTIONAL INPUT/OUTPUT SYSTEMS IN A MULTI-PROCESSING, SHARED MEMORY ENVIRONMENT
RO3559	US	10/390,734	6,757,756	Granted	19-Mar-03	29-Jun-04		METHOD AND APPARATUS FOR EXCHANGING DATA BETWEEN TRANSACTIONAL AND NON-TRANSACTIONAL INPUT/OUTPUT SYSTEMS IN A MULTI-PROCESSING, SHARED MEMORY ENVIRONMENT
RO3561	US	08/977,811	6,092,196	Granted	25-Nov-97	18-Jul-00		HTTP DISTRIBUTED REMOTE USER AUTHENTICATION SYSTEM
RO3563	US	08/921,009	6,014,711	Granted	29-Aug-97	11-Jan-00		APPARATUS AND METHOD FOR PROVIDING ELECTRONIC MAIL RELAY/TRANSLATION SERVICES
RO3564	US	08/921,013	6,122,258	Granted	29-Aug-97	19-Sep-00		METHOD FOR CREATING A NUMBERING PLAN-INDEPENDENT DIRECTORY STRUCTURE FOR TELECOMMUNICATIONS APPLICATIONS
RO3570	US	08/827,882	6,041,040	Granted	7-Apr-97	21-Mar-00		LARGE-SCALE SERVICE-RATE REGULATORS FOR ATM SWITCHING
RO3572	US	09/073,442	6,246,872	Granted	6-May-98	12-Jun-01		MOBILE SWITCHING CENTER AND METHOD FOR HANDLING A DROPPED CONNECTION BETWEEN A MOBILE STATION AND A BASE STATION TRANSCIVER
RO3576	US	09/064,552	5,949,645	Granted	23-Apr-98	7-Sep-99		ELECTRONIC UNIT
RO3578	US	08/867,624	6,128,649	Granted	2-Jun-97	3-Oct-00		DYNAMIC SELECTION OF MEDIA STREAMS FOR DISPLAY
RO3583	US	08/885,589	6,195,354	Granted	16-Jul-97	27-Feb-01		ROUTE SELECTION FOR PATH BALANCING IN CONNECTION-ORIENTED PACKET SWITCHING NETWORKS
RO3585	US	08/994,966	6,019,167	Granted	19-Dec-97	1-Feb-00		LIQUID IMMERSION COOLING APPARATUS FOR ELECTRONICS SYSTEMS OPERATING IN THERMALLY UNCONTROLLED ENVIRONMENTS
RO3591	US	09/001,626	6,356,758	Granted	31-Dec-97	12-Mar-02		WIRELESS TOOLS FOR DATA MANIPULATION AND VISUALIZATION
RO3592	US	09/209,759	6,061,241	Granted	11-Dec-98	9-May-00		LINE INTERFACE MODULE
RO3616	US	08/996,034	6,122,348	Granted	22-Dec-97	19-Sep-00		SYSTEM AND METHOD FOR MANAGING INCOMING COMMUNICATION EVENTS USING MULTIPLE MEDIA OPTIONS
RO3616	US	09/477,679	6,463,131	Granted	5-Jan-00	8-Oct-02		SYSTEM AND METHOD FOR NOTIFYING A USER OF AN INCOMING COMMUNICATION EVENT
RO3617	US	08/996,135	5,940,118	Granted	22-Dec-97	17-Aug-99		SYSTEM AND METHOD FOR STEERING DIRECTIONAL MICROPHONES

Report Number	Applicant Name	Applicant Address	Applicant City	Applicant State	Applicant Zip	Applicant Phone	Applicant Fax	Applicant Email	Applicant Website	Applicant Description	Applicant Status	Applicant Date	Applicant Title	Applicant Address	Applicant City	Applicant State	Applicant Zip	Applicant Phone	Applicant Fax	Applicant Email	Applicant Website	Applicant Description	Applicant Status	Applicant Date	Applicant Title		
RO3917	US	09/281,945	6,446,123	Granted								31-Mar-99	3-Sep-02	TOOL FOR MONITORING HEALTH OF NETWORKS													
RO3918	US	09/177,609	6,323,881	Granted								23-Oct-98	27-Nov-01	WEB BASED GUI SERVER AND METHOD FOR A TELECOMMUNICATIONS NODE													
RO3931	US	09/092,851	6,201,873	Granted								8-Jun-98	13-Mar-01	LOUDSPEAKER-DEPENDENT AUDIO COMPRESSION													
RO3936	US	08/965,930	5,878,032	Granted								7-Nov-97	2-Mar-99	DELAY MONITORING OF TELECOMMUNICATION NETWORKS													
RO3937	US	09/210,536	6,282,592	Granted								14-Dec-98	28-Aug-01	METHOD AND APPARATUS FOR HIGH-SPEED DATA TRANSMISSION BUS ENTRAINMENT													
RO3944	US	09/157,533	6,882,639	Granted								21-Sep-98	19-Apr-05	TELECOMMUNICATIONS MIDDLEWARE													
RO3947	US	09/057,525	6,307,852	Granted								9-Apr-98	23-Oct-01	ROTATOR SWITCH DATA PATH STRUCTURES													
RO3947	US	09/971,011	7,009,964	Granted								5-Oct-01	7-Mar-06	ROTATOR SWITCH DATA PATH STRUCTURES													
RO3951	US	09/213,271	6,885,745	Granted								17-Dec-98	26-Apr-05	VOLTAGE AND PROTECTION ARRANGEMENT FOR A TELEPHONE SUBSCRIBER LINE INTERFACE CIRCUIT													
RO3952	US	09/092,847	6,195,714	Granted								8-Jun-98	27-Feb-01	SYSTEM FOR TRANSFERRING STM CALLS THROUGH ATM NETWORK BY CONVERTING THE STM CALLS TO ATM AND VICE VERSA AT THE EDGE NODES OF ATM NETWORK													
RO3957	US	09/188,297	6,389,029	Granted								10-Nov-98	14-May-02	LOCAL AREA NETWORK INCORPORATING UNIVERSAL SERIAL BUS PROTOCOL													
RO3984	US	08/997,990	6,965,870	Granted								24-Dec-97	15-Nov-05	METHOD AND SYSTEM FOR ACTIVITY-RESPONSIVE TELEMARKETING													
RO3995	US	09/041,128	6,351,771	Granted								12-Mar-98	26-Feb-02	DISTRIBUTED SERVICE NETWORK SYSTEM CAPABLE OF TRANSPARENTLY CONVERTING DATA FORMATS AND SELECTIVELY CONNECTING TO AN APPROPRIATE BRIDGE IN ACCORDANCE WITH CLIENTS CHARACTERISTICS IDENTIFIED DURING PRELIMINARY CONNECTION													
RO3998	US	09/165,189	6,822,961	Granted								2-Oct-98	23-Nov-04	METHOD AND APPARATUS FOR REDUCTION OF CALL SETUP RATE IN AN ATM NETWORK													
RO4001	US	09/185,635	6,584,111	Granted								4-Nov-98	24-Jun-03	ABR FLOW CONTROL USING SINGLE BIT CONGESTION INDICATION AND WAVELET TRANSFORM FILTERING													
RO4004	US	09/049,928	6,700,879	Granted								30-Mar-98	2-Mar-04	MODEM LOOP RATE ADAPTATION													
RO4008	US	09/215,376	6,510,135	Granted								18-Dec-98	21-Jan-03	FLOW-LEVEL DEMULTIPLEXING WITHIN ROUTERS													
RO4009	US	09/215,262	6,587,431	Granted								18-Dec-98	1-Jul-03	SUPERTRUNKING FOR PACKET SWITCHING													
RO4010	US	09/150,698	6,324,170	Granted								10-Sep-98	27-Nov-01	ECHO CONTROLLER WITH COMPENSATION FOR VARIABLE DELAY NETWORKS													
RO4017	US	09/050,246	6,501,766	Granted								30-Mar-98	31-Dec-02	GENERIC BUS SYSTEM													
RO4036	US	09/207,250	6,246,736	Granted								9-Dec-98	12-Jun-01	DIGITAL SIGNAL FRAMING SYSTEMS AND METHODS													
RO4042	US	09/023,084	6,426,950	Granted								13-Feb-98	30-Jul-02	METHOD OF RESOURCE MANAGEMENT AT COMPUTER CONTROLLED TELEPHONY HARDWARE													
RO4045	US	09/207,251	6,137,051	Granted								9-Dec-98	24-Oct-00	EMI SHIELD/GASKET ENCLOSURE													
RO4046	US	09/028,506	6,052,883	Granted								24-Feb-98	18-Apr-00	ADDRESS LOOKUP IN PACKET DATA COMMUNICATION NETWORK													
RO4054	US	08/997,989	6,215,784	Granted								24-Dec-97	10-Apr-01	METHOD AND SYSTEM FOR VOICE CALL COMPLETION USING INFORMATION RETRIEVED FROM AN OPEN APPLICATION ON A COMPUTING MACHINE													
RO4066	US	09/134,924	6,377,551	Granted								17-Aug-98	23-Apr-02	QOS BASED ROUTE DETERMINATION METHOD FOR COMMUNICATIONS NETWORKS													
RO4069	US	09/208,980	6,301,244	Granted								11-Dec-98	9-Oct-01	QOS-ORIENTED ONE-TO-ALL ROUTE SELECTION METHOD FOR COMMUNICATION NETWORKS													
RO4072	US	09/216,935	6,269,995	Granted								21-Dec-98	31-Jul-01	METHOD AND SYSTEM IN A COMPUTER-BASED SYSTEM FOR PROVIDING ACCESS TO SERVICES ASSOCIATED WITH DIFFERENT ACCESS POINTS													
RO4087	US	09/098,951	6,219,353	Granted								17-Jun-98	17-Apr-01	MESSAGE HUB													
RO4096	US	09/196,344	6,480,507	Granted								19-Nov-98	12-Nov-02	COMMUNICATION PROTOCOL STACK APPARATUS AND METHOD OF IMPLEMENTING SAME													
RO4103	US	09/215,377	6,574,230	Granted								18-Dec-98	3-Jun-03	SCHEDULING TECHNIQUE FOR DELAYED QUEUE SERVICE													
RO4104	US	09/356,046	6,775,480	Granted								16-Jul-99	10-Aug-04	FREE SPACE OPTICAL INTERCONNECT SYSTEM													
RO4106	US	09/071,117	6,272,185	Granted								4-May-98	7-Aug-01	METHOD AND APPARATUS FOR PERFORMING DATA PULSE DETECTION													
RO4115	US	09/028,512	6,104,807	Granted								23-Feb-98	15-Aug-00	DISPLAY-BASED ADD-ON MODULE													
RO4120	US	09/206,277	6,930,998	Granted								7-Dec-98	16-Aug-05	HYBRID TDM AND ATM VOICE SWITCHING CENTRAL OFFICE AND METHOD OF COMPLETING INTER-OFFICE CALLS USING SAME													
RO4121	US	09/158,855	6,282,194	Granted								23-Sep-98	28-Aug-01	TRANSIT TRUNK SUBNETWORK SYSTEM													
RO4123	US	09/190,292	6,256,760	Granted								13-Nov-98	3-Jul-01	AUTOMATIC TEST EQUIPMENT SCAN TEST ENHANCEMENT													
RO4128	US	09/201,875	6,344,851	Granted								30-Nov-98	5-Feb-02	METHOD AND SYSTEM FOR WEBSITE OVERVIEW													
RO4134	US	09/195,556	6,336,035	Granted								19-Nov-98	1-Jan-02	TOOLS FOR WIRELESS NETWORK PLANNING													
RO4135	US	09/062,727	6,101,486	Granted								20-Apr-98	8-Aug-00	SYSTEM AND METHOD FOR RETRIEVING CUSTOMER INFORMATION AT A TRANSACTION CENTER													
RO4149	US	09/151,448	6,512,746	Granted								11-Sep-98	28-Jan-03	METHOD AND APPARATUS FOR MEASURING VOICE GRADE OF SERVICE IN AN IP NETWORK													
RO4151	US	09/069,521	6,188,722	Granted								29-Apr-98	13-Feb-01	SEQUENTIAL BLIND CONVERGENCE PROCESS IN AN ADAPTIVE DECISION FEEDBACK EQUALIZER													
RO4152	US	09/069,400	6,215,818	Granted								29-Apr-98	10-Apr-01	METHOD AND APPARATUS FOR OPERATING AN ADAPTIVE DECISION FEEDBACK EQUALIZER													
RO4153	US	09/069,436	6,163,572	Granted								29-Apr-98	19-Dec-00	METHOD OF REDUCING COEFFICIENT LEAKAGE NOISE INTRODUCED TO AN EQUALIZER DURING STEADY STATE OPERATION													
RO4154	US	09/069,520	6,246,722	Granted								29-Apr-98	12-Jun-01	METHOD OF DETECTION OF MISCONVERGENCE USING CONSTELLATION SCANNING IN AN EQUALIZER													
RO4155	US	09/076,634	6,266,377	Granted								12-May-98	24-Jul-01	METHOD OF TIMING RECOVERY CONVERGENCE MONITORING IN MODEMS													
RO4156	US	09/111,718	6,141,738	Granted								8-Jul-98	31-Oct-00	ADDRESS TRANSLATION METHOD AND SYSTEM HAVING A FORWARDING TABLE DATA STRUCTURE													
RO4156	US	09/616,880	6,243,720	Granted								14-Jul-00	5-Jun-01	ADDRESS TRANSLATION METHOD AND SYSTEM HAVING A FORWARDING TABLE DATA STRUCTURE													
RO4167	US	09/216,975	6,507,654	Granted								21-Dec-98	14-Jan-03	LINE INTERFACE BATTERY FEED ARRANGEMENTS WITH PTC RESISTORS													
RO4181	US	09/131,190	6,516,417	Granted								7-Aug-98	4-Feb-03	VIRTUAL PRIVATE NETWORKS													
RO4206	US	09/220,019	6,728,267	Granted								23-Dec-98	27-Apr-04	SERVICE CAPABLE NETWORK													
RO4208	US	09/165,351	6,321,253	Granted								2-Oct-98	20-Nov-01	SYSTEMS AND METHODS FOR SIMULTANEOUS NETWORK MANAGEMENT OF VOICE AND DATA SIGNALS													
RO4218	US	09/218,142	6,327,276	Granted								22-Dec-98	4-Dec-01	CONFERENCING OVER LAN/WAN USING A HYBRID CLIENT/SERVER CONFIGURATION													

10159R	SB	3005151	1091471	granted	24-Jan-00	27-Jul-99	10159RGE0E	SYSTEM AND METHOD FOR ROUTE OPTIMIZATION IN A WIRELESS INTERNET PROTOCOL NETWORK
10159R	SB	4075274	1445515	granted	24-Jan-00	15-Jul-99	10159RGE1V	SYSTEM AND METHOD FOR ROUTE OPTIMIZATION IN A WIRELESS INTERNET PROTOCOL NETWORK
10159R	FR	3005151	1091471	granted	24-Jan-00	27-Jul-99	10159RPF0E	SYSTEM AND METHOD FOR ROUTE OPTIMIZATION IN A WIRELESS INTERNET PROTOCOL NETWORK
10159R	FR	4075274	1445515	granted	24-Jan-00	15-Jul-99	10159RPF1V	SYSTEM AND METHOD FOR ROUTE OPTIMIZATION IN A WIRELESS INTERNET PROTOCOL NETWORK
10159R	DE	3005151	8002448.6	granted	24-Jan-00	27-Jul-99	10159RDE0E	SYSTEM AND METHOD FOR ROUTE OPTIMIZATION IN A WIRELESS INTERNET PROTOCOL NETWORK
10159R	DE	4075274	8009292.3	granted	24-Jan-00	15-Jul-99	10159RDE1V	SYSTEM AND METHOD FOR ROUTE OPTIMIZATION IN A WIRELESS INTERNET PROTOCOL NETWORK
10275R	SB	8500771	1071267	granted	5-Jul-00	17-Jan-00	10275RGE0E	METHOD AND APPARATUS FOR AUTOMATIC TRANSFER OF A CALL IN A COMMUNICATIONS SYSTEM IN RESPONSE TO CHANGES IN QUALITY OF SERVICE
10275R	FR	8500771	1071267	granted	5-Jul-00	17-Jan-00	10275RGE1E	METHOD AND APPARATUS FOR AUTOMATIC TRANSFER OF A CALL IN A COMMUNICATIONS SYSTEM IN RESPONSE TO CHANGES IN QUALITY OF SERVICE
10275R	FR	8500771	6008975.5	granted	5-Jul-00	17-Jan-00	10275RGE2E	METHOD AND APPARATUS FOR AUTOMATIC TRANSFER OF A CALL IN A COMMUNICATIONS SYSTEM IN RESPONSE TO CHANGES IN QUALITY OF SERVICE
10247R	SB	8500753	1071246	granted	5-Jul-00	24-Jul-00	10247RGE0E	METHOD AND APPARATUS FOR VOICE OVER INTERNET PROTOCOL SWAPPING IN A COMMUNICATIONS SYSTEM
10247R	FR	8500753	1071246	granted	5-Jul-00	24-Jul-00	10247RGE1E	METHOD AND APPARATUS FOR VOICE OVER INTERNET PROTOCOL SWAPPING IN A COMMUNICATIONS SYSTEM
10247R	FR	8500753	6004475.1	granted	5-Jul-00	24-Jul-00	10247RGE2E	METHOD AND APPARATUS FOR VOICE OVER INTERNET PROTOCOL SWAPPING IN A COMMUNICATIONS SYSTEM
10247R	CA	2,312,079	2,312,079	granted	29-Jun-00	44-Jul-13	10247RCA00U	METHOD AND APPARATUS FOR VOICE OVER INTERNET PROTOCOL SWAPPING IN A COMMUNICATIONS SYSTEM
10514R	EP	1001831518	HEMPTV	Filed	27-Sep-00		10514RCEP04V	METHOD AND APPARATUS FOR REMOTELY UPDATING FIRMWARE OF A COMMUNICATION DEVICE
10514R	EP	3084514	HEMPTV	Filed	27-Sep-00		10514RCEP05E	METHOD AND APPARATUS FOR REMOTELY UPDATING FIRMWARE OF A COMMUNICATION DEVICE
10514R	JP	2000-071518	435427	granted	15-Mar-00	7-Jul-00	10514RJP04U	VIRTUAL PRIVATE NETWORKS AND METHODS FOR THEIR OPERATION
10514R	SB	300212	145553	granted	15-Mar-00	11-Jan-00	10514RGE0E	VIRTUAL PRIVATE NETWORKS AND METHODS FOR THEIR OPERATION
10514R	FR	300212	145553	granted	15-Mar-00	11-Jan-00	10514RPF0E	VIRTUAL PRIVATE NETWORKS AND METHODS FOR THEIR OPERATION
10514R	DE	300212	60025437.2	granted	15-Mar-00	11-Jan-00	10514RDE0E	VIRTUAL PRIVATE NETWORKS AND METHODS FOR THEIR OPERATION
10514R	CA	2,236,646	2,236,646	granted	20-Jan-00	5-Jul-00	10514RCA00U	VIRTUAL PRIVATE NETWORKS AND METHODS FOR THEIR OPERATION
10514R	SB	304583	1061244	granted	29-May-00	12-Dec-00	10514RGE0E	METHOD AND APPARATUS FOR MEDIA ACCESS CONTROL FOR PACKET TRANSMISSION OVER A BUFFER INSERTION RING
10514R	FR	304583	1061244	granted	29-May-00	12-Dec-00	10514RPF0E	METHOD AND APPARATUS FOR MEDIA ACCESS CONTROL FOR PACKET TRANSMISSION OVER A BUFFER INSERTION RING
10514R	DE	304583	6008736.1	granted	29-May-00	12-Dec-00	10514RDE0E	METHOD AND APPARATUS FOR MEDIA ACCESS CONTROL FOR PACKET TRANSMISSION OVER A BUFFER INSERTION RING
10514R	CA	2,293,127	2,293,127	granted	22-Feb-00	4-Sep-07	10514RCA00U	METHOD AND APPARATUS FOR MEDIA ACCESS CONTROL FOR PACKET TRANSMISSION OVER A BUFFER INSERTION RING
10561R	JP	2000-19789	460569	granted	30-Jun-00	15-Oct-10	10561RJP04U	METHOD AND APPARATUS FOR MANAGING COMMUNICATIONS BETWEEN NODES IN A BI-DIRECTIONAL RING NETWORK
10561R	SB	305241	1065833	granted	30-Jun-00	7-May-00	10561RGE0E	METHOD AND APPARATUS FOR MANAGING COMMUNICATIONS BETWEEN NODES IN A BI-DIRECTIONAL RING NETWORK
10561R	FR	305241	1065833	granted	30-Jun-00	7-May-00	10561RPF0E	METHOD AND APPARATUS FOR MANAGING COMMUNICATIONS BETWEEN NODES IN A BI-DIRECTIONAL RING NETWORK
10561R	DE	305241	6008762.3	granted	30-Jun-00	7-May-00	10561RDE0E	METHOD AND APPARATUS FOR MANAGING COMMUNICATIONS BETWEEN NODES IN A BI-DIRECTIONAL RING NETWORK
10561R	CA	2,306,527	2,306,527	granted	29-May-00	21-Sep-10	10561RCA00U	METHOD AND APPARATUS FOR MANAGING COMMUNICATIONS BETWEEN NODES IN A BI-DIRECTIONAL RING NETWORK
10567R	SB	650141.1	1113657	granted	2-Oct-00	3-Nov-10	10567RGE0E	APPARATUS AND METHOD FOR PACKET-BASED MEDIA COMMUNICATIONS
10567R	FR	650141.1	1113657	granted	2-Oct-00	3-Nov-10	10567RPF0E	APPARATUS AND METHOD FOR PACKET-BASED MEDIA COMMUNICATIONS
10567R	DE	650141.1	1113657	granted	2-Oct-00	3-Nov-10	10567RDE0E	APPARATUS AND METHOD FOR PACKET-BASED MEDIA COMMUNICATIONS
10567R	DE	650141.1	1113657	granted	2-Oct-00	3-Nov-10	10567RDE0E	APPARATUS AND METHOD FOR PACKET-BASED MEDIA COMMUNICATIONS
10567R	DE	650141.1	1113657	granted	2-Oct-00	3-Nov-10	10567RDE0E	APPARATUS AND METHOD FOR PACKET-BASED MEDIA COMMUNICATIONS
10567R	JP	2000-223503	438085	granted	25-Jul-00	2-Oct-00	10567RJP04U	OPTICAL SWITCH AND PROTOCOLS FOR USE THEREWITH
10567R	EP	3064854	HEMPTV	Filed	28-Jul-00		10567RCEP05E	OPTICAL SWITCH AND PROTOCOLS FOR USE THEREWITH
10567R	EP	10184237	HEMPTV	Filed	30-Sep-10		10567RCEP06V	OPTICAL SWITCH AND PROTOCOLS FOR USE THEREWITH
10567R	EP	10184236	HEMPTV	Filed	1-Oct-10		10567RCEP07V	OPTICAL SWITCH AND PROTOCOLS FOR USE THEREWITH
10567R	CA	2,314,322	2,314,322	granted	21-Jul-00	30-Jan-07	10567RCA00U	OPTICAL SWITCH AND PROTOCOLS FOR USE THEREWITH
10452D	JP	2001-51006	505266	granted	27-Jun-00	10-Aug-12	10452DJP07N	PROCESSING DATA PACKETS
10452D	JP	2010-118663	528683	granted	27-Jun-00	5-Sep-13	10452DJP11V	PROCESSING DATA PACKETS
10452D	SB	340635.4	1201067	granted	27-Jun-00	13-Sep-07	10452DGE10T	PROCESSING DATA PACKETS
10452D	FR	340635.4	1201067	granted	27-Jun-00	13-Sep-07	10452DGF09F	PROCESSING DATA PACKETS
10452D	DE	340635.4	6008478.8	granted	27-Jun-00	13-Sep-07	10452DDE08T	PROCESSING DATA PACKETS
10452D	CN	810016	DL00810016.0	granted	27-Jun-00	29-Jun-05	10452DCN04N	PROCESSING DATA PACKETS
10459R	CA	2,353,250	2,353,250	granted	18-Jul-00	11-Jul-11	10459RCA00U	METHOD FOR CONTROLLING SERVICE LEVELS OVER PACKET-BASED NETWORKS
10628R	SB	650157.1	1113655	granted	16-Oct-00	22-Nov-06	10628RGE0E	CALL FEATURES FOR AUTOMATIC CALL DISTRIBUTION SYSTEM
10628R	FR	650157.1	1113655	granted	16-Oct-00	22-Nov-06	10628RPF0E	CALL FEATURES FOR AUTOMATIC CALL DISTRIBUTION SYSTEM
10628R	DE	650157.1	60031542	granted	16-Oct-00	22-Nov-06	10628RDE0E	CALL FEATURES FOR AUTOMATIC CALL DISTRIBUTION SYSTEM
10628R	CA	2,322,964	2,322,964	granted	10-Oct-00	10-Oct-09	10628RCA00U	CALL FEATURES FOR AUTOMATIC CALL DISTRIBUTION SYSTEM
10628R	CA	2,689,783	2,689,783	granted	10-Oct-00	8-Jul-14	10628RCA00V	CALL FEATURES FOR AUTOMATIC CALL DISTRIBUTION SYSTEM
10642R	FI	990007	114064	granted	8-Jan-99	30-Jul-04	10642RFP01U	STEERING OF INTERNET ACCESS TO SPONSORS
10642R	EP	99200264	HEMPTV	Filed	23-Feb-99		10642RCEP03U	STEERING OF INTERNET ACCESS TO SPONSORS
10642R	CA	2,231,971	2,231,971	granted	6-Jan-00	12-Jul-10	10642RCA04U	STEERING OF INTERNET ACCESS TO SPONSORS
10642R	AU	764695	HEMPTV	Filed	4-Jan-00		10642RUA05U	STEERING OF INTERNET ACCESS TO SPONSORS
10645R	JP	2012-151843	HEMPTV	Filed	1-Dec-12		10645RJP17V	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	JP	2009-585778	5113963	granted	1-Dec-12	10-Oct-12	10645RJP05N	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	HK	21015303	HK1099590	granted	27-Feb-02	25-Oct-13	10645RHK05N	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	SB	10178618.2	2321019	granted	1-Dec-12	9-Jul-14	10645RGE07V	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	SB	999401541	1068574	granted	1-Dec-12	6-Oct-14	10645RGE16E	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	FR	10178618.2	2321019	granted	1-Dec-12	9-Jul-14	10645RPF13V	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	FR	999401541	1068574	granted	1-Dec-12	6-Oct-14	10645RPF15E	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	EP	11089457	HEMPTV	Filed	1-Dec-12		10645RCEP12V	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	EP	10178618.2	2321019	Inactive	1-Dec-12	9-Jul-14	10645RCEP12V	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	DE	10178618.2	2321019	granted	1-Dec-12	9-Jul-14	10645RDE18V	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	DE	69942893-0-08	1068574	granted	1-Dec-12	6-Oct-14	10645RDE14E	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	CN	99800648	7619802646.8	granted	1-Dec-12	2-Jun-13	10645RDC06N	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	CA	2,317,460	2,317,460	granted	1-Dec-12	8-Jul-08	10645RCA05N	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10645R	AU	20940700	774402	granted	1-Dec-12	14-Oct-04	10645RUA06N	PROVIDING DESIRED SERVICE POLICIES TO SUBSCRIBERS ACCESSING INTERNET
10722R	CA	2,283,953	2,283,953	granted	27-Sep-99	28-Jul-00	10722RCA01U	COMPACT HIGH-CAPACITY SWITCH
10725R	SB	991709	1243117	granted	29-Oct-00	15-Jun-05	10725RGE0E	DISTRIBUTION OF LOCATION INFORMATION IN IP NETWORKS BY INTELLIGENT ENDPOINTS
10725R	FR	991709	1243117	granted	29-Oct-00	15-Jun-05	10725RPF0E	DISTRIBUTION OF LOCATION INFORMATION IN IP NETWORKS BY INTELLIGENT ENDPOINTS
10725R	DE	991709	60020675.6	granted	29-Oct-00	15-Jun-05	10725RDE0E	DISTRIBUTION OF LOCATION INFORMATION IN IP NETWORKS BY INTELLIGENT ENDPOINTS
10745R	SB	3093473	1096769	granted	26-Oct-00	26-Jul-06	10745RGE0E	METHODS AND SYSTEMS FOR BUILDING AND DISTRIBUTING AUDIO PACKAGES
10745R	FR	3093473	1096769	granted	26-Oct-00	26-Jul-06	10745RPF0E	METHODS AND SYSTEMS FOR BUILDING AND DISTRIBUTING AUDIO PACKAGES
10745R	DE	3093473	60029352.4	granted	26-Oct-00	26-Jul-06	10745RDE0E	METHODS AND SYSTEMS FOR BUILDING AND DISTRIBUTING AUDIO PACKAGES
10745R	CA	2,324,382	2,324,382	granted	26-Oct-00	24-Jan-12	10745RCA00U	METHODS AND SYSTEMS FOR BUILDING AND DISTRIBUTING AUDIO PACKAGES
10802R	CN	1358753	DL001358753.9	granted	18-Oct-00	26-May-04	10802RCC04U	SUMMARY BUILDING BLOCK, AND SYSTEM AND METHOD FOR MANAGING NETWORKS
10804R	SB	308243	1093266	granted	22-Sep-00	6-Jul-00	10804RGE0E	TELECOMMUNICATIONS SWITCHES AND METHODS FOR THEIR OPERATION
10804R	FR	308243	1093266	granted	22-Sep-00	6-Jul-00	10804RPF0E	TELECOMMUNICATIONS SWITCHES AND METHODS FOR THEIR OPERATION
10804R	DE	308243	60085091.6	granted	22-Sep-00	6-Jul-00	10804RDE0E	TELECOMMUNICATIONS SWITCHES AND METHODS FOR THEIR OPERATION
10804R	CA	2,314,625	2,314,625	granted	27-Jul-00	4-Dec-07	10804RCA00U	TELECOMMUNICATIONS SWITCHES AND METHODS FOR THEIR OPERATION
10808R	JP	2011-244462	HEMPTV	Filed	27-Jul-00		10808RJP09V	PRESENCE MANAGEMENT SYSTEM
10808R	JP	2013-139877	HEMPTV	Filed	26-Sep-13		10808RJP10V	PRESENCE MANAGEMENT SYSTEM
10808R	JP	2001-546110	5416871	granted	27-Jul-00	22-Nov-13	10808RJP05N	PRESENCE MANAGEMENT SYSTEM
10808R	CA	2,394,344	2,394,344	granted	27-Jul-00	3-Jun-12	10808RCA05N	PRESENCE MANAGEMENT SYSTEM
10810D	JP	2001-546111	4669529	granted	27-Jul-00	21-Feb-11	10810DJP05N	ANONYMITY IN A PRESENCE MANAGEMENT SYSTEM
10810D	SB	979793.1	1240756	granted	27-Jul-00	26-Mar-08	10810DGE08T	ANONYMITY IN A PRESENCE MANAGEMENT SYSTEM

10810D	FR	979753.1	240 758	granted	27-Nov-00	26-Mar-00	0810DPRO7T	ANONYMITY IN A PRESENCE MANAGEMENT SYSTEM
10810D	DE	979753.1	600394503	granted	27-Nov-00	26-Mar-00	0810DDE0E9T	ANONYMITY IN A PRESENCE MANAGEMENT SYSTEM
10810D	CA	2393.571		granted	27-Nov-00	14-Jul-99	0810DCA29N	ANONYMITY IN A PRESENCE MANAGEMENT SYSTEM
10811D	JP	2001-546991	HEMPY	Filed	27-Nov-00	HEMPY	0811DJP59N	PRESENCE MANAGEMENT SYSTEM USING CONTEXT INFORMATION
10811D	JP	2001-086755	HEMPY	Filed	27-Nov-00	HEMPY	0811DJP69N	PRESENCE MANAGEMENT SYSTEM USING CONTEXT INFORMATION
10811D	CA	2394.217	2,394.217	granted	27-Nov-00	14-Jul-99	0811DCA29N	PRESENCE MANAGEMENT SYSTEM USING CONTEXT INFORMATION
108180	GB	3112293.8	1 109 154	granted	15-Dec-00	29-Jul-00	08180GB0E0E	LINEAR PREDICTIVE CODING-BASED ACOUSTIC ECHO CANCELLATION
108180	FR	3112293.8	1 109 154	granted	15-Dec-00	29-Jul-00	08180FR0E0E	LINEAR PREDICTIVE CODING-BASED ACOUSTIC ECHO CANCELLATION
108180	DE	3112293.8	600210453	granted	15-Dec-00	29-Jul-00	08180DE0E0E	LINEAR PREDICTIVE CODING-BASED ACOUSTIC ECHO CANCELLATION
108180	CA	2,328.006	2,328.006	granted	12-Dec-00	28-Nov-00	08180CA20U	LINEAR PREDICTIVE CODING-BASED ACOUSTIC ECHO CANCELLATION
10849D	GB	951761.8	2 210 800	granted	15-Aug-00	15-Jul-00	0849DGB0E0E	URLINE TELEPHONE PROVISION FOR VOICE OVER A DIGITAL SUBSCRIBER LINE
10849D	FR	951761.8	2 210 800	granted	15-Aug-00	15-Jul-00	0849DFR0E0E	URLINE TELEPHONE PROVISION FOR VOICE OVER A DIGITAL SUBSCRIBER LINE
10849D	DE	951761.8	600209532	granted	15-Aug-00	15-Jul-00	0849DDE0E0E	URLINE TELEPHONE PROVISION FOR VOICE OVER A DIGITAL SUBSCRIBER LINE
10849D	CA	2,382.060	2,382.060	granted	15-Aug-00	16-Oct-00	0849DCA20N	URLINE TELEPHONE PROVISION FOR VOICE OVER DIGITAL SUBSCRIBER LINE
10872D	GB	399979	069 742	granted	13-Jul-00	12-Dec-00	0872DGB0E0E	METHOD AND ARCHITECTURE TO SUPPORT MULTIPLE SERVICES IN LABEL SWITCHED NETWORKS
10872D	FR	399979	069 742	granted	13-Jul-00	12-Dec-00	0872DFR0E0E	METHOD AND ARCHITECTURE TO SUPPORT MULTIPLE SERVICES IN LABEL SWITCHED NETWORKS
10872D	DE	399979	600379883	granted	13-Jul-00	12-Dec-00	0872DDE0E0E	METHOD AND ARCHITECTURE TO SUPPORT MULTIPLE SERVICES IN LABEL SWITCHED NETWORKS
10872D	CA	2,313.504	2,313.504	granted	14-Jul-00	7-Dec-00	0872DCA20U	SUPPORTING MULTIPLE SERVICES IN LABEL SWITCHED NETWORKS
108839	GB	311368.1	1 111 892	granted	12-Dec-00	24-Oct-00	08839GB0E0E	METHODS AND SYSTEMS FOR INTERNET PROTOCOL (IP) NETWORK SURVEILLANCE
108839	FR	311368.1	1 111 892	granted	12-Dec-00	24-Oct-00	08839FR0E0E	METHODS AND SYSTEMS FOR INTERNET PROTOCOL (IP) NETWORK SURVEILLANCE
108839	DE	311368.1	1 111 892	granted	12-Dec-00	24-Oct-00	08839DE0E0E	METHODS AND SYSTEMS FOR INTERNET PROTOCOL (IP) NETWORK SURVEILLANCE
10954D	EP	305571	HEMPY	Filed	3-Jul-00	HEMPY	0954DEP0E0E	DERIVATION OF EQUIVALENT BANDWIDTH OF AN INFORMATION FLOW
10944D	IT	310721.6	1 111 954	granted	1-Dec-00	6-Oct-00	0944DIT0E0E	DISTRIBUTED OPTICAL SWITCHING DEVICE
10944D	GB	310721.6	1 111 954	granted	1-Dec-00	6-Oct-00	0944DGB0E0E	DISTRIBUTED OPTICAL SWITCHING DEVICE
10944D	FR	310721.6	1 111 954	granted	1-Dec-00	6-Oct-00	0944DFR0E0E	DISTRIBUTED OPTICAL SWITCHING DEVICE
10944D	DE	310721.6	600450953	granted	1-Dec-00	6-Oct-00	0944DDE0E0E	DISTRIBUTED OPTICAL SWITCHING DEVICE
10944D	CA	2,226.534	2,226.534	granted	19-Dec-00	16-Feb-00	0944DCA20U	DISTRIBUTED OPTICAL SWITCHING DEVICE
109580	GB	9974225.1	236 339	granted	26-Nov-00	15-Aug-00	09580GB0E0E	SYSTEM AND METHOD FOR COMMUNICATING DATA TO A CALL DESTINATION
109580	FR	9974225.1	236 339	granted	26-Nov-00	15-Aug-00	09580FR0E0E	SYSTEM AND METHOD FOR COMMUNICATING DATA TO A CALL DESTINATION
109580	DE	9974225.1	69388853	granted	26-Nov-00	15-Aug-00	09580DE0E0E	SYSTEM AND METHOD FOR COMMUNICATING DATA TO A CALL DESTINATION
10972D	GB	308279.9	096 739	granted	21-Sep-00	9-Jul-00	0972DGB0E0E	TWO-WAY SESSION EMULATION ON MPLS NETWORKS
10972D	FR	308279.9	096 739	granted	21-Sep-00	9-Jul-00	0972DFR0E0E	TWO-WAY SESSION EMULATION ON MPLS NETWORKS
10972D	DE	308279.9	600393842	granted	21-Sep-00	9-Jul-00	0972DDE0E0E	TWO-WAY SESSION EMULATION ON MPLS NETWORKS
10972D	CA	2,321.505	2,321.505	granted	29-Sep-00	25-May-00	0972DCA20U	ESTABLISHING BIDIRECTIONAL COMMUNICATION SESSIONS ACROSS A COMMUNICATIONS NETWORK
110510	GB	180087.8	1 332 596	granted	25-Oct-00	24-Mar-00	110510GB0E0E	SERVICE ENABLING TECHNOLOGY
110510	FR	180087.8	1 332 596	granted	25-Oct-00	24-Mar-00	110510FR0E0E	SERVICE ENABLING TECHNOLOGY
110510	DE	180087.8	60132222	granted	25-Oct-00	24-Mar-00	110510DE0E0E	SERVICE ENABLING TECHNOLOGY
110590	GB	650213.2	1 122 930	granted	21-Dec-00	14-Nov-00	110590GB0E0E	ENCRYPTION KEY EXCHANGE PROTOCOL
110590	FR	650213.2	1 122 930	granted	21-Dec-00	14-Nov-00	110590FR0E0E	ENCRYPTION KEY EXCHANGE PROTOCOL
110590	DE	650213.2	600871063	granted	21-Dec-00	14-Nov-00	110590DE0E0E	ENCRYPTION KEY EXCHANGE PROTOCOL
112149	FR	981325.8	240 777	granted	13-Dec-00	28-Mar-00	112149FR0E0E	A CLIENT - SERVER NETWORK FOR MANAGING INTERNET PROTOCOL VOICE PACKETS
112149	FR	981325.8	240 777	granted	13-Dec-00	28-Mar-00	112149FR0E0E	A CLIENT - SERVER NETWORK FOR MANAGING INTERNET PROTOCOL VOICE PACKETS
112149	DE	981325.8	600341533	granted	13-Dec-00	28-Mar-00	112149DE0E0E	A CLIENT - SERVER NETWORK FOR MANAGING INTERNET PROTOCOL VOICE PACKETS
112149	CA	2,336.008	2,336.008	granted	13-Dec-00	8-Feb-00	112149CA20N	A CLIENT - SERVER NETWORK FOR MANAGING INTERNET PROTOCOL VOICE PACKETS
113060	GB	308770.1	091 614	granted	5-Oct-00	15-Dec-00	113060GB0E0E	SWITCH FOR OPTICAL SIGNALS
113060	FR	308770.1	091 614	granted	5-Oct-00	15-Dec-00	113060FR0E0E	SWITCH FOR OPTICAL SIGNALS
113060	DE	60016888	091 614	granted	5-Oct-00	15-Dec-00	113060DE0E0E	SWITCH FOR OPTICAL SIGNALS
113060	CA	2,285.128	2,285.128	granted	6-Oct-00	26-Feb-00	113060CA20U	SWITCH FOR OPTICAL SIGNALS
113060	CA	2,320.613	2,320.613	granted	21-Sep-00	18-May-00	113060CA20U	SWITCH FOR OPTICAL SIGNALS
113578	EP	6501563	HEMPY	Filed	16-Oct-00	HEMPY	113578EP0E0E	STORING INFORMATION ABOUT A TELEPHONE SESSION
113578	CA	2,323.395	2,323.395	granted	16-Oct-00	5-Oct-00	113578CA20U	STORING INFORMATION ABOUT A TELEPHONE SESSION
11439F	GB	973170.4	1 330 897	granted	25-Oct-00	7-Dec-00	11439FGB0E0E	METHOD OF AND DEVICE FOR TRANSMITTING DATA PACKETS ON A NETWORK
11439F	FR	973170.4	1 330 897	granted	25-Oct-00	7-Dec-00	11439FFR0E0E	METHOD OF AND DEVICE FOR TRANSMITTING DATA PACKETS ON A NETWORK
11439F	DE	973170.4	600249838	granted	25-Oct-00	7-Dec-00	11439FDE0E0E	METHOD OF AND DEVICE FOR TRANSMITTING DATA PACKETS ON A NETWORK
114326	FR	985726.1	240 765	granted	8-Dec-00	30-Nov-00	114326FR0E0E	DTMF DIGIT COLLECTION AND TRANSPORTATION FOR A PACKET NETWORK
114326	GB	985726.1	240 765	granted	8-Dec-00	30-Nov-00	114326GB0E0E	DTMF DIGIT COLLECTION AND TRANSPORTATION FOR A PACKET NETWORK
114326	DE	60044088.1	240 765	granted	8-Dec-00	30-Nov-00	114326DE0E0E	DTMF DIGIT COLLECTION AND TRANSPORTATION FOR A PACKET NETWORK
114278	GB	1242623	1 275 239	granted	3-Apr-00	23-Aug-00	114278GB0E0E	PROVIDING ANNOUNCEMENT INFORMATION REQUESTS TO ESTABLISH INTERACTIVE CALL SESSIONS
114278	FR	1242623	1 275 239	granted	3-Apr-00	23-Aug-00	114278FR0E0E	PROVIDING ANNOUNCEMENT INFORMATION REQUESTS TO ESTABLISH INTERACTIVE CALL SESSIONS
114278	DE	1242623	601224513	granted	3-Apr-00	23-Aug-00	114278DE0E0E	PROVIDING ANNOUNCEMENT INFORMATION REQUESTS TO ESTABLISH INTERACTIVE CALL SESSIONS
114719	MX	Family member of 29168	232393	Assigned Round 2				Method and system for providing enhanced caller identification
11790D	GB	983415.1	1 247 387	granted	19-Dec-00	17-Nov-00	11790DGB0E0E	IMPROVED SESSION INITIATION PROTOCOL (SIP)
11790D	FR	983415.1	1 247 387	granted	19-Dec-00	17-Nov-00	11790DFR0E0E	IMPROVED SESSION INITIATION PROTOCOL (SIP)
11790D	DE	983415.1	600160573	granted	19-Dec-00	17-Nov-00	11790DDE0E0E	IMPROVED SESSION INITIATION PROTOCOL (SIP)
11790D	CA	2,395.574	2,395.574	granted	19-Dec-00	4-May-00	11790DCA20N	IMPROVED SESSION INITIATION PROTOCOL (SIP)
117940	JP	2001-133850	4679394	granted	14-May-01	20-Aug-01	117940JP0E0E	SUPERVISORY CONTROL PLANE OVER WAVELENGTH ROUTED NETWORKS
117940	GB	1309148.6	1 152 631	granted	25-Apr-01	15-Aug-00	117940GB0E0E	SUPERVISORY CONTROL PLANE OVER WAVELENGTH ROUTED NETWORKS
117940	FR	1309148.6	1 152 631	granted	25-Apr-01	15-Aug-00	117940FR0E0E	SUPERVISORY CONTROL PLANE OVER WAVELENGTH ROUTED NETWORKS
117940	DE	1309148.6	601298793	granted	25-Apr-01	15-Aug-00	117940DE0E0E	SUPERVISORY CONTROL PLANE OVER WAVELENGTH ROUTED NETWORKS
117940	CA	2,343.576	2,343.576	granted	3-Apr-01	31-Jan-02	117940CA20U	SUPERVISORY CONTROL PLANE OVER WAVELENGTH ROUTED NETWORKS
117958	GB	650159.7	1 102 498	granted	16-Oct-00	25-Feb-00	117958GB0E0E	PROVIDING TELEPHONE SERVICES IN A COMMUNICATIONS NETWORK
117958	FR	650159.7	1 102 498	granted	16-Oct-00	25-Feb-00	117958FR0E0E	PROVIDING TELEPHONE SERVICES IN A COMMUNICATIONS NETWORK
117958	DE	650159.7	600848533	granted	16-Oct-00	25-Feb-00	117958DE0E0E	PROVIDING TELEPHONE SERVICES IN A COMMUNICATIONS NETWORK
117958	CA	2,323.326	2,323.326	granted	16-Oct-00	15-Jul-00	117958CA20U	PROVIDING TELEPHONE SERVICES IN A COMMUNICATIONS NETWORK
118780	GB	1395953	1 173 039	granted	10-Jul-00	28-Mar-00	118780GB0E0E	ATM TRANSPORT OVER MULTI-PROTOCOL LABEL SWITCHING
118780	FR	1395953	1 173 039	granted	10-Jul-00	28-Mar-00	118780FR0E0E	ATM TRANSPORT OVER MULTI-PROTOCOL LABEL SWITCHING
118780	DE	1395953	601274623	granted	10-Jul-00	28-Mar-00	118780DE0E0E	ATM TRANSPORT OVER MULTI-PROTOCOL LABEL SWITCHING
119390	GB	105650.2	2 866 106	granted	7-Mar-00	9-Jul-00	119390GB0E0E	INTEGRATED PHOTONIC SWITCH
119390	FR	01 08553	2 866 106	granted	13-Mar-00	28-Jul-00	119390FR0E0E	COMBINAUTEUR PHOTONIQUE INTEGRE INTEGRATED PHOTONIC SWITCH
119390	CA	2,300.780	2,300.780	granted	15-Mar-00	7-Aug-00	119390CA20U	INTEGRATED PHOTONIC SWITCH
119680	GB	1346663.9	1 811 116	granted	25-May-00	21-Dec-00	119680GB0E0E	OPTICAL SWITCH WITH CONNECTION VERIFICATION
12064M	DE	1937142.1	2 897 656	granted	25-May-00	25-Apr-01	12064MDE0E0E	LAUNCHING SOFTWARE ROUTINES IN RESPONSE TO MESSAGES RELATING TO COMMUNICATIONS SESSIONS
12064M	FR	1937142.1	2 897 656	granted	25-May-00	25-Apr-01	12064MFR0E0E	LAUNCHING SOFTWARE ROUTINES IN RESPONSE TO MESSAGES RELATING TO COMMUNICATIONS SESSIONS
12064M	DE	60144475-2-98	2 897 656	granted	25-May-00	25-Apr-01	12064MDE0E0E	LAUNCHING SOFTWARE ROUTINES IN RESPONSE TO MESSAGES RELATING TO COMMUNICATIONS SESSIONS
120786	FR	1991526.3	1 346 526	granted	21-Dec-01	3-May-00	120786FR0E0E	SYSTEM AND METHOD TO EFFICIENTLY MOVE DATA FROM ONE DATA BUS TO ANOTHER DATA BUS IN A NETWORK SWITCH
120786	GB	1991526.3	1 346 526	granted	21-Dec-01	3-May-00	120786GB0E0E	SYSTEM AND METHOD TO EFFICIENTLY MOVE DATA FROM ONE DATA BUS TO ANOTHER DATA BUS IN A NETWORK SWITCH
120786	DE	1991526.3	1 346 526	granted	21-Dec-01	3-May-00	120786DE0E0E	SYSTEM AND METHOD TO EFFICIENTLY MOVE DATA FROM ONE DATA BUS TO ANOTHER DATA BUS IN A NETWORK SWITCH
120786	CA	2,432.600	2,432.600	granted	21-Dec-01	22-Jun-00	120786CA20N	SYSTEM AND METHOD TO EFFICIENTLY MOVE DATA FROM ONE DATA BUS TO ANOTHER DATA BUS IN A NETWORK SWITCH
12092D	GB	1310669.5	1 220 514	granted	28-Dec-00	14-Jul-00	12092DGB0E0E	METHOD, APPARATUS AND SOFTWARE FOR ACCESSING LOCATION BASED INTERNET SERVICES

Publication No.	Applicant	Inventor	Grant No.	Grant Date	Pub. No.	Pub. Date	Description	
12329D	FR	1310695.5	220754	granted	29-Dec-01	14-01-99	2292DIPR64	METHOD, APPARATUS AND SOFTWARE FOR ACCESSING LOCATION BASED INTERNET SERVICES
12329D	DE	1310695.5	60111173	granted	29-Dec-01	14-01-99	2292DDE03E	METHOD, APPARATUS AND SOFTWARE FOR ACCESSING LOCATION BASED INTERNET SERVICES
12170D	GB	311275.8	1111875	granted	14-Dec-00	17-Aug-99	2217DGB09E	CONTROLLING A DESTINATION TERMINAL FROM AN ORIGINATING TERMINAL
12170D	FR	311275.8	1111875	granted	14-Dec-00	17-Aug-99	2217D0R09E	CONTROLLING A DESTINATION TERMINAL FROM AN ORIGINATING TERMINAL
12170D	DE	311275.8	60022000	granted	14-Dec-00	17-Aug-99	2217DDE04E	CONTROLLING A DESTINATION TERMINAL FROM AN ORIGINATING TERMINAL
12170D	CA	2,329,395	2,329,395	granted	21-Dec-00	13-Aug-12	2217DCA02V	CONTROLLING A DESTINATION TERMINAL FROM AN ORIGINATING TERMINAL
12245D	NX	1008972	23664	granted	6-Apr-01		2245D0A02V	METHOD OF INCREASING CAPACITY IN A WIRELESS ACCESS COMMUNICATIONS NETWORK
12245D	CL	795-2001	43,373	granted	30-Mar-01	15-Jan-00	2245DCL03V	METHOD OF INCREASING CAPACITY IN A WIRELESS ACCESS COMMUNICATIONS NETWORK
12449R	GB	94400923.8	0107524	granted	24-Mar-04	28-Apr-03	2449R0B07T	A RADIO TRANSMISSION METHOD USING REPEATER STATIONS WITH SPECTRUM REVERSAL (PROCEDEE DE TRANSMISSION RADIOELECTRIQUE UTILISANT DES STATIONS REPEETRES A RETOURNEMENT DE SPECTRE)
12449R	DE	94400923.8	69418072	granted	24-Mar-04	28-Apr-03	2449RDE08T	A RADIO TRANSMISSION METHOD USING REPEATER STATIONS WITH SPECTRUM REVERSAL (PROCEDEE DE TRANSMISSION RADIOELECTRIQUE UTILISANT DES STATIONS REPEETRES A RETOURNEMENT DE SPECTRE)
12481R	GB	13106604.4	127784	granted	13-Dec-01	14-Dec-00	2481R0G08U	INTERWORKING OF DISIMILAR PACKET NETWORKS FOR TELEPHONY COMMUNICATIONS
12481R	FR	13106604.4	127784	granted	13-Dec-01	14-Dec-00	2481R0F07U	INTERWORKING OF DISIMILAR PACKET NETWORKS FOR TELEPHONY COMMUNICATIONS
12481R	DE	13106604.4	60119263	granted	13-Dec-01	14-Dec-00	2481RDE02U	INTERWORKING OF DISIMILAR PACKET NETWORKS FOR TELEPHONY COMMUNICATIONS
12481R	CA	0	HEMPY	Filed	13-Dec-01		HEMPY	INTERWORKING OF DISIMILAR PACKET NETWORKS FOR TELEPHONY COMMUNICATIONS
12481R	CA	2,384,979	2,384,979	granted	13-Dec-01	21-Jun-11	2481RCA02V	INTERWORKING OF DISIMILAR PACKET NETWORKS FOR TELEPHONY COMMUNICATIONS
12481R	CA	2,735,984	HEMPY	Filed	13-Dec-01		HEMPY	INTERWORKING OF DISIMILAR PACKET NETWORKS FOR TELEPHONY COMMUNICATIONS
12481R	AU	97388(0)	783793	granted	29-Dec-01	23-Mar-06	2481RAU04U	INTERWORKING OF DISIMILAR PACKET NETWORKS FOR TELEPHONY COMMUNICATIONS
12595D	EP	1976474.5	HEMPY	Filed	18-Dec-01		2595DEP04T	SYSTEM, APPARATUS AND METHOD FOR PERSONALISING WEB CONTENT
12595D	CA	2,428,627	HEMPY	Filed	18-Dec-01		2595DCA02N	SYSTEM, APPARATUS AND METHOD FOR PERSONALISING WEB CONTENT
12620R	CA	2,358,239	2,358,239	granted	3-Oct-01	22-Dec-10	2620RCA02U	OPTIMIZED FAILURE NOTIFICATION IN AN OVERLAY MESH NETWORK VIA NETWORK KNOWLEDGE CORRELATION
12621D	JP	2001-988103	491395	granted	25-May-02	27-Jan-12	2621DJP06N	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12621D	JP	2001-95064	5063794	granted	25-May-02	17-Aug-12	2621DJP12V	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12621D	JP	2001-95065	5063795	granted	25-May-02	17-Aug-12	2621DJP13V	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12621D	GB	0164713.3	2 006 506	granted	25-May-02	12-Mar-14	2621DGB15V	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12621D	GB	10031224.5	2 920 999	granted	25-May-02	23-May-12	2621DGB15V	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12621D	FR	0164713.3	2 006 506	granted	25-May-02	12-Mar-14	2621DFR15V	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12621D	FR	10031224.5	2 920 999	Inactive	25-May-02	23-May-12	2621DFR15V	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12621D	EP	10031215.4	HEMPY	Filed	25-May-02		HEMPY	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12621D	EP	0164713.3	2 006 506	Inactive	25-May-02	12-Mar-14	2621DEP09V	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12621D	EP	10031224.5	2 920 999	Inactive	25-May-02	23-May-12	2621DEP10V	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12621D	DE	10031224.5	2 920 999	granted	25-May-02	23-May-12	2621DDE14V	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12621D	DE	6048955.2	2 006 506	granted	25-May-02	12-Mar-14	2621DDE17V	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12621D	CA	2,418,958	HEMPY	Inactive	25-May-02		HEMPY	MULTIPLE ACCESS SYSTEM FOR COMMUNICATIONS NETWORK
12650R	JP	2001-159395	454534	granted	29-May-02	9-Sep-10	2650RJP04U	PHOTONIC NETWORK NODE
12710R	GB	1979509.1	1 307 373	granted	4-Oct-00	13-Sep-06	2710R0B06E	NETWORK DRIVEN CELL SWITCHING AND HANDOFF WITH LOAD BALANCING FOR WIRELESS SYSTEMS
12710R	FR	1979509.1	1 307 373	granted	4-Oct-00	13-Sep-06	2710R0F06E	NETWORK DRIVEN CELL SWITCHING AND HANDOFF WITH LOAD BALANCING FOR WIRELESS SYSTEMS
12710R	DE	1979509.1	6012098	granted	4-Oct-00	13-Sep-06	2710RDE04E	NETWORK DRIVEN CELL SWITCHING AND HANDOFF WITH LOAD BALANCING FOR WIRELESS SYSTEMS
12710R	CA	2,384,090	2,384,090	granted	29-Nov-00	11-Nov-11	2710RCA02U	BANDWIDTH ALLOCATION IN ETHERNET NETWORKS
12859R	CA	2,431,988	2,431,988	granted	20-Dec-01	21-Aug-12	2859RCA02N	OSPF BACKUP INTERFACE
12959R	FR	7955	280992	granted	6-Jun-00	16-Aug-00	2959RFR01U	METHOD FOR MONITORING COMMUNICATIONS IN A CELLULAR RADIOCOMMUNICATION SYSTEM AND NETWORK CORE THEREOF
12959R	FR	1396386.1	287 717	granted	18-May-01	26-Sep-07	2959RFR02T	METHOD FOR MONITORING COMMUNICATIONS IN A CELLULAR RADIOCOMMUNICATION SYSTEM AND NETWORK CORE THEREOF
12959R	CN	10212542.2	1221193	granted	18-May-01	26-Sep-05	2959RCN04N	METHOD FOR MONITORING COMMUNICATIONS IN A CELLULAR RADIOCOMMUNICATION SYSTEM AND NETWORK CORE THEREOF
12962R	FR	1319253.3	1 292 785	granted	14-Feb-01	15-Oct-08	2962RFR08T	DUAL BAND UNIDIRECTIONAL SCHEME IN A CELLULAR MOBILE RADIO TELECOMMUNICATIONS SYSTEM
12962R	FR	1319253.3	1 292 785	granted	14-Feb-01	15-Oct-08	2962RFR07T	DUAL BAND UNIDIRECTIONAL SCHEME IN A CELLULAR MOBILE RADIO TELECOMMUNICATIONS SYSTEM
12962R	DE	1319253.3	60136144	granted	14-Feb-01	15-Oct-08	2962RDE06T	DUAL BAND UNIDIRECTIONAL SCHEME IN A CELLULAR MOBILE RADIO TELECOMMUNICATIONS SYSTEM
12979R	NB	2788932.5	1 459 506	granted	19-Dec-02	15-Feb-06	2979RNB08E	DYNAMIC PRESENCE MANAGEMENT
12979R	FR	2788932.5	1 459 506	granted	19-Dec-02	15-Feb-06	2979RFR07E	DYNAMIC PRESENCE MANAGEMENT
12979R	DE	2788932.5	1 459 506	granted	19-Dec-02	15-Feb-06	2979RDE05E	DYNAMIC PRESENCE MANAGEMENT
13071A	GB	1364091.7	1 323 255	granted	15-Aug-00	20-Mar-13	13071AGB13T	OPTICAL INTERNET PROTOCOL SWITCH ROUTER
13071A	GB	100191774.2	1 333 995	granted	18-Nov-00	3-Apr-13	13071AGB12V	OPTICAL INTERNET PROTOCOL SWITCH ROUTER
13071A	FR	1364091.7	1 323 255	granted	15-Aug-00	20-Mar-13	13071AFR14T	OPTICAL INTERNET PROTOCOL SWITCH ROUTER
13071A	FR	100191774.2	1 333 995	granted	18-Nov-00	3-Apr-13	13071AFR13V	OPTICAL INTERNET PROTOCOL SWITCH ROUTER
13071A	EP	100191769.8	HEMPY	Filed	18-Nov-00		HEMPY	OPTICAL INTERNET PROTOCOL SWITCH ROUTER
13071A	EP	0	HEMPY	Inactive	15-Aug-00		HEMPY	OPTICAL INTERNET PROTOCOL SWITCH ROUTER
13071A	EP	1364091.7	1 323 255	Inactive	15-Aug-00	20-Mar-13	13071AEP05T	OPTICAL INTERNET PROTOCOL SWITCH ROUTER
13071A	EP	100191774.2	1 333 995	Inactive	18-Nov-00	3-Apr-13	13071AEP08V	OPTICAL INTERNET PROTOCOL SWITCH ROUTER
13071A	DE	1364091.7	601 48 041.4	granted	15-Aug-00	20-Mar-13	13071ADE13T	OPTICAL INTERNET PROTOCOL SWITCH ROUTER
13071A	DE	100191774.2	601 47 846.0	granted	18-Nov-00	3-Apr-13	13071ADE10V	OPTICAL INTERNET PROTOCOL SWITCH ROUTER
13071A	CA	2,418,547	2,418,547	granted	15-Aug-00	11-Mar-14	13071ACAD0N	OPTICAL INTERNET PROTOCOL SWITCH ROUTER
13091D	GB	1806857.3	1 334 599	granted	30-Oct-00	3-Jun-09	13091DGB07T	METHOD FOR PASSING INFORMATION FROM A FIRST WEB-ENTITY TO ONE OF A PLURALITY OF SECOND WEB-ENTITIES
13091D	FR	1806857.3	1 334 599	granted	30-Oct-00	3-Jun-09	13091DFR06T	METHOD FOR PASSING INFORMATION FROM A FIRST WEB-ENTITY TO ONE OF A PLURALITY OF SECOND WEB-ENTITIES
13091D	DE	1806857.3	60138942	granted	30-Oct-00	3-Jun-09	13091DDE05T	METHOD FOR PASSING INFORMATION FROM A FIRST WEB-ENTITY TO ONE OF A PLURALITY OF SECOND WEB-ENTITIES
13091D	CA	2,428,008	2,428,008	granted	30-Oct-01	7-Dec-10	13091DCA02N	METHOD FOR PASSING INFORMATION FROM ONE OF A PLURALITY OF FIRST WEB ENTITIES TO A SECOND WEB-ENTITY
13295D	EP	1955468.8	HEMPY	Filed	19-Aug-01		HEMPY	NETWORK PLANNING TOOL
13295D	CA	2,421,870	2,421,870	granted	19-Aug-01	11-Nov-11	13295DCA04N	NETWORK PLANNING TOOL
13382R	JP	2001-542291	4,745,579	granted	1-Dec-00	20-May-11	13382RJP04N	ARRANGEMENT FOR MULTIPLE 1:3:N SWITCHES
13382R	JP	2010-168930	4982953	granted	27-Jul-10	27-Apr-12	13382RJP06V	ARRANGEMENT FOR MULTIPLE 1:3:N SWITCHES
13487R	GB	2769512	1 442 624	granted	26-Sep-02	7-Apr-10	13487RGB06T	METHOD AND APPARATUS FOR DIFFERENTIATED COMMUNICATIONS IN A WIRELESS NETWORK
13487R	FR	2769512	1 442 624	granted	26-Sep-02	7-Apr-10	13487RFR05T	METHOD AND APPARATUS FOR DIFFERENTIATED COMMUNICATIONS IN A WIRELESS NETWORK
13487R	DE	2769512	60295909	granted	26-Sep-02	7-Apr-10	13487RDE04T	METHOD AND APPARATUS FOR DIFFERENTIATED COMMUNICATIONS IN A WIRELESS NETWORK
13537D	CA	2,412,040	2,412,040	granted	15-Nov-00	7-Oct-14	13537DCA02U	ATTENUATION DEVICES
13549R	GB	1279516.3	1 362 456	granted	9-Oct-01	19-Mar-08	13549R0G06E	SYSTEM AND METHOD FOR INTERCEPTING TELECOMMUNICATIONS
13549R	FR	1279516.3	1 362 456	granted	9-Oct-01	19-Mar-08	13549R0F07T	SYSTEM AND METHOD FOR INTERCEPTING TELECOMMUNICATIONS
13549R	DE	1279516.3	60139316	granted	9-Oct-01	19-Mar-08	13549RDE06E	SYSTEM AND METHOD FOR INTERCEPTING TELECOMMUNICATIONS
13549R	CA	2,437,275	HEMPY	Filed	9-Oct-01		HEMPY	SYSTEM AND METHOD FOR INTERCEPTING TELECOMMUNICATIONS
13589R	CA	2,412,216	2,412,216	granted	25-Nov-00	27-Sep-11	13589RCA02U	TUNNELING SCHEME OPTIMIZED FOR USE IN VIRTUAL PRIVATE NETWORKS
13619D	GB	2251391.8	1 244 282	granted	18-Mar-00	11-Jun-08	13619DGB06E	METHOD AND APPARATUS FOR LOCAL GENERATION OF MEDIA CONTENT FOR CALLERS PUT ON HOLD
13619D	FR	2251391.8	1 244 282	granted	18-Mar-00	11-Jun-08	13619DFR05E	METHOD AND APPARATUS FOR LOCAL GENERATION OF MEDIA CONTENT FOR CALLERS PUT ON HOLD
13619D	DE	2251391.8	60210213	granted	18-Mar-00	11-Jun-08	13619DDE04E	METHOD AND APPARATUS FOR LOCAL GENERATION OF MEDIA CONTENT FOR CALLERS PUT ON HOLD
13619D	CA	2,377,617	2,377,617	granted	20-Mar-00	5-Sep-11	13619DCA02U	PROVISION OF MEDIA CONTENT TO TELEPHON CALLERS ON-HOLD
13639R	GB	1989340.1	1 329 032	granted	19-Oct-00	27-Dec-06	13639R0G06E	MULTISER DETECTOR FOR DIRECT SEQUENCE - CODE DIVISION MULTIPLE ACCESS (DS/SSMA) CHANNELS
13639R	FR	1989340.1	1 329 032	granted	19-Oct-00	27-Dec-06	13639R0F06E	MULTISER DETECTOR FOR DIRECT SEQUENCE - CODE DIVISION MULTIPLE ACCESS (DS/SSMA) CHANNELS
13639R	DE	1989340.1	601259764	granted	19-Oct-00	27-Dec-06	13639RDE06E	MULTISER DETECTOR FOR DIRECT SEQUENCE - CODE DIVISION MULTIPLE ACCESS (DS/SSMA) CHANNELS
13798R	DE	2547295.1	1 274 271	granted	5-Jul-04	24-Mar-06	13798RDE06E	SWITCHED CHANNEL-BAND NETWORK
13798R	FR	2547295.1	1 274 271	granted	5-Jul-04	24-Mar-06	13798RFR06E	SWITCHED CHANNEL-BAND NETWORK
13798R	DE	2547295.1	1 274 271	granted	5-Jul-04	24-Mar-06	13798RDE06E	SWITCHED CHANNEL-BAND NETWORK
13799R	CA	2,436,309	2,436,309	granted	30-Jul-03	3-Jul-12	13799RCA02U	BROADBAND CONTROL OF POLARIZATION MODE DISPERSION
13800D	GB	2253065.9	1 255 373	granted	27-Apr-00	16-Nov-05	13800DGB06E	ROUTE PROTECTION IN A COMMUNICATIONS NETWORK
13800D	FR	2253065.9	1 255 373	granted	27-Apr-00	16-Nov-05	13800DFR06E	ROUTE PROTECTION IN A COMMUNICATIONS NETWORK

13880D	DE	2253065	60207323	Granted	27-Apr-02	16-Nov-02	13880D04E	ROUTE PROTECTION IN A COMMUNICATIONS NETWORK
13880D	CA	2383735	2383735	Granted	26-Apr-02	14-Nov-02	13880D04Z	ROUTE PROTECTION IN A COMMUNICATIONS NETWORK
13880R	GB	3739586.6	483325	Granted	22-Jan-03	14-Nov-02	13880R00T	ADAPTIVE STATE TRANSITION CONTROL
13880R	FR	3739586.6	483325	Granted	22-Jan-03	14-Nov-02	13880R00S	ADAPTIVE STATE TRANSITION CONTROL
13880D	DE	3739586.6	60217480	Granted	22-Jan-03	14-Nov-02	13880D00K	ADAPTIVE STATE TRANSITION CONTROL
13880D	CN	3807965.5	020807965.5	Granted	22-Jan-03	26-May-02	13880D00N	ADAPTIVE STATE TRANSITION CONTROL
13880R	PT	39870	39870	Granted	26-Apr-02	19-Sep-02	13880R11Z	PROCEDE DE PSEUDO SYNCHRONOTI RESEAU DE COMMUNICATION: MULTIPLE GAGE OS LE TEMPS -FR 895649 - PROCESS FOR THE PSEUDO SYNCHRONIZATION OF A TIME MULTIPLEXING COMMUNICATION NETWORK AND USE THEREOF
13880R	GB	9440031.3	0396820	Granted	19-Feb-05	12-Sep-02	13880R00E	METHOD AND APPARATUS FOR DETECTING A CUSTOMER PREMISES EQUIPMENT ALERTING (CAS) SIGNAL ON A TELEPHONE LINE DIRECTION (CAS -FR804758)
13880R	FR	9440031.3	0396820	Granted	19-Feb-05	28-Apr-02	13880R00Z	PROCEDE ET DISPOSITIF DE DETECTION D'UN SIGNAL D'ALERTE SECURITE USINE TELEPHONIQUE METHOD AND APPARATUS FOR DETECTING A CUSTOMER PREMISES EQUIPMENT ALERTING (CAS) SIGNAL ON A TELEPHONE LINE DIRECTION (CAS -FR804758)
13880R	FR	9440031.3	0396820	Granted	19-Feb-05	12-Sep-02	13880R00A	METHOD AND APPARATUS FOR DETECTING A CUSTOMER PREMISES EQUIPMENT ALERTING (CAS) SIGNAL ON A TELEPHONE LINE DIRECTION (CAS -FR804758)
13880R	FR	9440031.3	69557075	Granted	19-Feb-05	12-Sep-02	13880R00E	METHOD AND APPARATUS FOR DETECTING A CUSTOMER PREMISES EQUIPMENT ALERTING (CAS) SIGNAL ON A TELEPHONE LINE DIRECTION (CAS -FR804758)
14042R0	GB	2253042	262258	Granted	30-Apr-02	10-Jan-02	14042R00E	COMMUNICATIONS NETWORK FOR A METROPOLITAN AREA
14042R0	FR	2253042	262258	Granted	30-Apr-02	10-Jan-02	14042R00E	COMMUNICATIONS NETWORK FOR A METROPOLITAN AREA
14042R0	DE	2253042	60217440	Granted	30-Apr-02	10-Jan-02	14042R00E	COMMUNICATIONS NETWORK FOR A METROPOLITAN AREA
14310R0	GB	2253724	326371	Granted	19-Dec-02	19-Jul-06	14310R00E	RESYNCHRONIZATION OF CONTROL AND DATA PATH STATE FOR NETWORKS
14310R0	FR	2253724	326371	Granted	19-Dec-02	19-Jul-06	14310R00E	RESYNCHRONIZATION OF CONTROL AND DATA PATH STATE FOR NETWORKS
14310R0	DE	2253724	326371	Granted	19-Dec-02	19-Jul-06	14310R00E	RESYNCHRONIZATION OF CONTROL AND DATA PATH STATE FOR NETWORKS
14310R0	CA	2424426	2424426	Granted	16-Dec-02	7-Dec-02	14310R04Z	RESYNCHRONIZATION OF CONTROL AND DATA PATH STATE FOR NETWORKS
14321R0	GB	2806387.1	477007	Granted	19-Dec-02	29-Mar-06	14321R00E	PERSONAL USER AGENT
14321R0	FR	2806387.1	477007	Granted	19-Dec-02	29-Mar-06	14321R00E	PERSONAL USER AGENT
14321R0	DE	2806387.1	477007	Granted	19-Dec-02	29-Mar-06	14321R00E	PERSONAL USER AGENT
14341R0	EP	12136336	HEMPY	Filed	25-Nov-02	HEMPY	14341R00E	SYSTEM AND METHOD FOR INTEGRATING MULTIMEDIA SERVICES WITH TRADITIONAL TELEPHONYAL DIFFERENT NETWORKS "TITLE UPDATED ON 23 AUGUST 2004 AS PER RESPECTIVE PATENT OFFICE WEBSITE" - NM - 23 AUG 2004
14341R0	EP	17880748	HEMPY	Filed	25-Nov-02	HEMPY	14341R00E	SYSTEM AND METHOD FOR INTEGRATING MULTIMEDIA SERVICES WITH TRADITIONAL TELEPHONYAL DIFFERENT NETWORKS "TITLE UPDATED ON 23 AUGUST 2004 AS PER RESPECTIVE PATENT OFFICE WEBSITE" - NM - 23 AUG 2004
14341R0	CA	2465213	2465213	Granted	25-Nov-02	14-Nov-11	14341R00E	SYSTEM AND METHOD FOR INTEGRATING MULTIMEDIA SERVICES WITH TRADITIONAL TELEPHONYAL DIFFERENT NETWORKS "TITLE UPDATED ON 23 AUGUST 2004 AS PER RESPECTIVE PATENT OFFICE WEBSITE" - NM - 23 AUG 2004
14418D	EP	582577202	398103	Granted	2-Apr-02	6-Jul-02	14418D00R	TIME SLOT SCHEDULING FOR SHARED-RING COMMUNICATIONS NETWORK
14418D	IN	01633/DELMP/2005	233756	Granted	2-Apr-02	6-Apr-02	14418D00T	TIME SLOT SCHEDULING FOR SHARED-RING COMMUNICATIONS NETWORK
14418D	GB	2706372	380129	Granted	2-Apr-02	23-Jan-06	14418D00Z	TIME SLOT SCHEDULING FOR SHARED-RING COMMUNICATIONS NETWORK
14418D	FR	2706372	380129	Granted	2-Apr-02	23-Jan-06	14418D00Z	TIME SLOT SCHEDULING FOR SHARED-RING COMMUNICATIONS NETWORK
14418D	DE	2706372	6024726	Granted	2-Apr-02	23-Jan-06	14418D00Z	TIME SLOT SCHEDULING FOR SHARED-RING COMMUNICATIONS NETWORK
14418D	CA	2443066	2443066	Granted	2-Apr-02	15-Sep-02	14418D04N	TIME SLOT SCHEDULING FOR SHARED-RING COMMUNICATIONS NETWORK
14495D	EP	2002-530581	525425	Granted	13-May-02	21-Jun-13	14495D00N	DATA STREAM FILTERING APPARATUS AND METHOD
14495D	EP	2011-000641	525273	Granted	5-Jan-11	21-Jun-13	14495D01V	DATA STREAM FILTERING APPARATUS AND METHOD
14495D	EP	2012-07544	527693	Granted	5-Jan-11	11-Jul-14	14495D01Z	DATA STREAM FILTERING APPARATUS AND METHOD
14495D	IN	1216/DELMP/2200	250270	Granted	13-May-02	21-Dec-11	14495D00R	DATA STREAM FILTERING APPARATUS AND METHOD
14495D	EP	2722897	HEMPY	Filed	13-May-02	HEMPY	14495D00T	DATA STREAM FILTERING APPARATUS AND METHOD
14529R0	EP	2753172	HEMPY	Filed	10-Jun-02	HEMPY	14529R00G	PROVIDING TELEPHONY SERVICES TO TERMINALS BEHIND A FIREWALL AND/OR A NETWORK ADDRESS TRANSLATOR
14529R0	EP	81001065	HEMPY	Filed	10-Jun-02	HEMPY	14529R00G	PROVIDING TELEPHONY SERVICES TO TERMINALS BEHIND A FIREWALL AND/OR A NETWORK ADDRESS TRANSLATOR
14530R0	GB	2773030.6	1446704	Granted	26-Sep-02	30-Aug-06	14530R00T	SCHEDULER WITH FAIRNESS CONTROL AND QUALITY OF SERVICE SUPPORT
14530R0	FR	2773030.6	1446704	Granted	26-Sep-02	30-Aug-06	14530R00T	SCHEDULER WITH FAIRNESS CONTROL AND QUALITY OF SERVICE SUPPORT
14530R0	DE	2773030.6	60214415	Granted	26-Sep-02	30-Aug-06	14530R00E	SCHEDULER WITH FAIRNESS CONTROL AND QUALITY OF SERVICE SUPPORT
14530R0	CN	2827401	020827401.1	Granted	26-Sep-02	12-Mar-06	14530R00N	SCHEDULER WITH FAIRNESS CONTROL AND QUALITY OF SERVICE SUPPORT
14579AL	TW	8811594	139388	Granted	24-Nov-05	19-Dec-02	14579AL04U	METHOD AND APPARATUS FOR MISS SPOORING
14579AL	JP	11-262452	358401	Granted	16-Sep-05	11-Jun-04	14579AL00Z	METHOD AND APPARATUS FOR MISS SPOORING
14731R0	GB	2257861.6	1309126	Granted	11-Oct-02	12-Apr-06	14731R00E	METHOD AND SYSTEM FOR DETERMINING AVAILABILITY IN NETWORKS
14731R0	FR	2257861.6	1309126	Granted	11-Oct-02	12-Apr-06	14731R00E	METHOD AND SYSTEM FOR DETERMINING AVAILABILITY IN NETWORKS
14731R0	DE	2257861.6	60210562	Granted	11-Oct-02	12-Apr-06	14731R00E	METHOD AND SYSTEM FOR DETERMINING AVAILABILITY IN NETWORKS
14731R0	CN	21481555	0201481555.5	Granted	31-Oct-02	9-Jul-06	14731R00Z	METHOD AND SYSTEM FOR DETERMINING AVAILABILITY IN NETWORKS
14748R0	EP	2747116.6	1415442	Granted	5-Jul-02	29-Mar-06	14748R00B	USING MPLS LSPS AS LTP TUNNEL TRANSPORTS
14748R0	FR	2747116.6	1415442	Granted	5-Jul-02	29-Mar-06	14748R00T	USING MPLS LSPS AS LTP TUNNEL TRANSPORTS
14748R0	DE	2747116.6	60210284	Granted	5-Jul-02	29-Mar-06	14748R00E	USING MPLS LSPS AS LTP TUNNEL TRANSPORTS
14850R0	EP	2002-006483	575041	Granted	30-Aug-02	24-Dec-02	14850R00G	TECHNIQUE FOR REDUCING THE NUMBER OF LAYERS IN A SIGNAL ROUTING DEVICE
14850R0	HK	11100388	HK1147641	Granted	29-Sep-05	28-Dec-12	14850R00V	TECHNIQUE FOR REDUCING THE NUMBER OF LAYERS IN A SIGNAL ROUTING DEVICE
14850R0	CN	2010102386	02010102386	Granted	19-Mar-10	21-Mar-10	14850R00N	TECHNIQUE FOR REDUCING THE NUMBER OF LAYERS IN A SIGNAL ROUTING DEVICE
14850R0	CA	2438751	2438751	Granted	29-Aug-02	8-Apr-06	14850R04Z	TECHNIQUE FOR REDUCING THE NUMBER OF LAYERS IN A SIGNAL ROUTING DEVICE
14877R0	CA	2326154	2326154	Granted	25-Jul-02	12-Dec-11	14877R00A	TECHNIQUE FOR SYNCHRONIZATION CLOCKS IN A NETWORK
14920D	GB	2255737.1	1315359	Granted	27-Sep-02	25-Jul-02	14920D00E	A METHOD FOR CONTROLLING A MIDDLEBOX
14920R	FR	22558309	1316648	Granted	24-Dec-02	84-Feb-06	14920R00E	FAST RECOVERY METHOD IN LABEL SWITCHING NETWORKS, AND NETWORK ARRANGEMENT TO CARRY OUT THE METHOD
14920R	FR	22558309	1316648	Granted	24-Dec-02	84-Feb-06	14920R00E	FAST RECOVERY METHOD IN LABEL SWITCHING NETWORKS, AND NETWORK ARRANGEMENT TO CARRY OUT THE METHOD
14920R	DE	22558309	60209962	Granted	24-Dec-02	84-Feb-06	14920R00E	FAST RECOVERY METHOD IN LABEL SWITCHING NETWORKS, AND NETWORK ARRANGEMENT TO CARRY OUT THE METHOD
14938R0	TW	92738419	IN-223242	Granted	29-Mar-03	11-Oct-04	14938R00G	TECHNIQUE FOR REDUCING THE NUMBER OF LAYERS IN A MULTILAYERICRCLUT BOARD
14938R0	FR	102005-0017431	10-0983401	Granted	29-Mar-03	14-Sep-04	14938R00G	TECHNIQUE FOR REDUCING THE NUMBER OF LAYERS IN A MULTILAYERICRCLUT BOARD
14938R0	HK	4106731	HK1064263	Granted	29-Mar-03	12-Jun-03	14938R00T	TECHNIQUE FOR REDUCING THE NUMBER OF LAYERS IN A MULTILAYERICRCLUT BOARD
14938R0	EP	33940293	HEMPY	Filed	13-Mar-03	HEMPY	14938R00E	TECHNIQUE FOR REDUCING THE NUMBER OF LAYERS IN A MULTILAYERICRCLUT BOARD
14938R0	CN	31386661	20530666.1	Granted	29-Mar-03	30-Jul-08	14938R00N	TECHNIQUE FOR REDUCING THE NUMBER OF LAYERS IN A MULTILAYERICRCLUT BOARD
14938R0	CA	2422677	2422677	Granted	19-Mar-03	6-May-08	14938R04Z	TECHNIQUE FOR REDUCING THE NUMBER OF LAYERS IN A MULTILAYERICRCLUT BOARD
14938R	EP	10193769	HEMPY	Filed	14-Mar-07	HEMPY	14938R00V	SYSTEMS AND METHODS FOR EXECUTING APPLICATION PROGRAMS FROM A MEMORY DEVCLEINKED TO A SERVER
14938R	EP	10193769	HEMPY	Filed	14-Mar-07	HEMPY	14938R00V	SYSTEMS AND METHODS FOR EXECUTING APPLICATION PROGRAMS FROM A MEMORY DEVCLEINKED TO A SERVER
14938R	EP	10193769	HEMPY	Filed	14-Mar-07	HEMPY	14938R00E	SYSTEMS AND METHODS FOR EXECUTING APPLICATION PROGRAMS FROM A MEMORY DEVCLEINKED TO A SERVER
14938R	EP	10193769	HEMPY	Filed	14-Mar-07	HEMPY	14938R00V	SYSTEMS AND METHODS FOR EXECUTING APPLICATION PROGRAMS FROM A MEMORY DEVCLEINKED TO A SERVER
14938R	AU	23397797	711280	Granted	14-Mar-07	26-Jun-06	14938R04Z	SYSTEMS AND METHODS FOR EXECUTING APPLICATION PROGRAMS FROM A MEMORY DEVCLEINKED TO A SERVER AT AN INTERNET SITE
15112D	EP	32551442	HEMPY	Filed	29-Aug-02	HEMPY	15112D00E	ROUTING METHOD AND APPARATUS FOR OPTIMISING AUTO-TUNNELLING IN A HETEROGENEOUS NETWORK
15112D	CA	2437684	HEMPY	Filed	29-Aug-02	HEMPY	15112D04Z	ROUTING METHOD AND APPARATUS FOR OPTIMISING AUTO-TUNNELLING IN A HETEROGENEOUS NETWORK
15117R0	GB	3250746.1	333630	Granted	5-Feb-03	10-Aug-11	15117R00E	TECHNIQUE FOR IMPLEMENTING A MULTI-SERVICE PACKET AND OPTICAL/TDM VIRTUAL PRIVATE CROSS-CONNECT
15117R0	FR	3250746.1	333630	Granted	5-Feb-03	10-Aug-11	15117R00E	TECHNIQUE FOR IMPLEMENTING A MULTI-SERVICE PACKET AND OPTICAL/TDM VIRTUAL PRIVATE CROSS-CONNECT
15117R0	DE	3250746.1	60237953	Granted	5-Feb-03	10-Aug-11	15117R00E	TECHNIQUE FOR IMPLEMENTING A MULTI-SERVICE PACKET AND OPTICAL/TDM VIRTUAL PRIVATE CROSS-CONNECT
15117R0	CA	2418433	2418433	Granted	4-Feb-03	24-May-11	15117R04Z	TECHNIQUE FOR IMPLEMENTING A MULTI-SERVICE PACKET AND OPTICAL/TDM VIRTUAL PRIVATE CROSS-CONNECT
15188R0	GB	32573784	1422890	Granted	7-Nov-02	24-Oct-07	15188R00E	PHYSICAL CAPACITY AGGREGATION SCHEME
15188R0	FR	32573784	1422890	Granted	7-Nov-02	24-Oct-07	15188R00E	PHYSICAL CAPACITY AGGREGATION SCHEME
15188R0	DE	32573784	60217027	Granted	7-Nov-02	24-Oct-07	15188R00E	PHYSICAL CAPACITY AGGREGATION SCHEME
15188R0	CA	2450421	2450421	Granted	21-Nov-02	27-Sep-11	15188R04Z	PHYSICAL CAPACITY AGGREGATION SCHEME
15158D	GB	3075486.5	343293	Granted	19-Feb-03	6-May-06	15158D00E	A LINK CAPACITY ADJUSTMENT COMPONENT
15158D	FR	3075486.5	343293	Granted	19-Feb-03	6-May-06	15158D00E	A LINK CAPACITY ADJUSTMENT COMPONENT
15158D	DE	3075486.5	60224962	Granted	19-Feb-03	6-May-06	15158D00E	A LINK CAPACITY ADJUSTMENT COMPONENT
15158D	CA	2420716	2420716	Granted	5-Mar-03	31-Jan-12	15158D04Z	A LINK CAPACITY ADJUSTMENT COMPONENT
15209R	EP	3297529	HEMPY	Filed	17-Dec-02	HEMPY	15209R00Z	DISTRIBUTED SERVICES BASED ON PREFERENCE TECHNOLOGY
15209R	EP	11164208	HEMPY	Filed	17-Dec-02	HEMPY	15209R00V	DISTRIBUTED SERVICES BASED ON PREFERENCE TECHNOLOGY
15209R	CA	2447767	HEMPY	Filed	31-Oct-03	HEMPY	15209R00N	DISTRIBUTED SERVICES BASED ON PREFERENCE TECHNOLOGY
15263R	FR	182001-700045	62081	Granted	2-Sep-05	25-Aug-08	15263R00G	MICROMACHINED MEMBERS COUPLED FOR RELATIVE ROTATION BY TORSIONAL FLEXURE HINGES
15263R	JP	2014-086613	HEMPY	Filed	30-Nov-10	HEMPY	15263R00V	MICROMACHINED MEMBERS COUPLED FOR RELATIVE ROTATION BY TORSIONAL FLEXURE HINGES

15238R	FR	2004-58834		477673	Granted	2-Sep-02	89-J-11	15238R0P09N	MICROWORMED MEMBERS COUPLED FOR RELATIVE ROTATION BY TORSIONAL FLEXURE HINGES
15238R	FR	2010-29738	HEMPY		Filed	30-Nov-10	HEMPY	15238R0P07V	MICROWORMED MEMBERS COUPLED FOR RELATIVE ROTATION BY TORSIONAL FLEXURE HINGES
15238R	FR	2013-00867	HEMPY		Filed	30-Nov-10	HEMPY	15238R0P08Y	MICROWORMED MEMBERS COUPLED FOR RELATIVE ROTATION BY TORSIONAL FLEXURE HINGES
15238R	GB	2922861.8	1393 526		Granted	10-Apr-02	27-AUG-02	15238R0GB1ZE	FAST OPTICAL SWITCH
15238R	FR	2922861.8	1393 526		Granted	10-Apr-02	27-AUG-02	15238R0FF1ZE	FAST OPTICAL SWITCH
15238R	EP	2922861.8	1393 526		Inactive	10-Apr-02	27-AUG-02	15238R0FF0ZE	FAST OPTICAL SWITCH
15238R	DE	2922861.8	1393 526		Granted	10-Apr-02	27-AUG-02	15238R0DE1ZE	FAST OPTICAL SWITCH
15238R	GB	3015018.4	404 082		Granted	15-Jul-02	17-OCT-02	15238R0GB0E	METHODS FOR DISCOVERING NETWORK ADDRESS AND PORT TRANSLATORS
15238R	FR	3015018.4	404 082		Granted	15-Jul-02	17-OCT-02	15238R0FR0E	METHODS FOR DISCOVERING NETWORK ADDRESS AND PORT TRANSLATORS
15238R	EP	3015018.4	404 082		Inactive	15-Jul-02	17-OCT-02	15238R0EP0E	METHODS FOR DISCOVERING NETWORK ADDRESS AND PORT TRANSLATORS
15238R	DE	3015018.4	404 082		Granted	15-Jul-02	17-OCT-02	15238R0DE0E	METHODS FOR DISCOVERING NETWORK ADDRESS AND PORT TRANSLATORS
15238R	CA	2,435,699	2,435,699		Granted	21-Jul-02	18-SEP-02	15238R0CA0ZU	METHODS FOR DISCOVERING NETWORK ADDRESS AND PORT TRANSLATORS
15407R	FR	10-2004-701926	10-0997654		Granted	23-Apr-02	25-NOV-02	15407R0FR0EN	EFFICIENT HANDOFFS BETWEEN CELLULAR AND WIRELESS LOCAL AREA NETWORKS
15407R	GB	3715200.6	1327 248		Granted	23-Apr-02	25-DEC-02	15407R0GB1OT	EFFICIENT HANDOFFS BETWEEN CELLULAR AND WIRELESS LOCAL AREA NETWORKS
15407R	FR	3715200.6	1327 248		Granted	23-Apr-02	25-DEC-02	15407R0FR0T	EFFICIENT HANDOFFS BETWEEN CELLULAR AND WIRELESS LOCAL AREA NETWORKS
15407R	EP	11133115.8	HEMPY		Filed	23-Apr-02	HEMPY	15407R0EP0V	EFFICIENT HANDOFFS BETWEEN CELLULAR AND WIRELESS LOCAL AREA NETWORKS
15407R	EP	11133115.8	HEMPY		Filed	23-Apr-02	HEMPY	15407R0EP0V	EFFICIENT HANDOFFS BETWEEN CELLULAR AND WIRELESS LOCAL AREA NETWORKS
15407R	EP	3715200.6	1327 248		Inactive	23-Apr-02	25-DEC-02	15407R0EP0T	EFFICIENT HANDOFFS BETWEEN CELLULAR AND WIRELESS LOCAL AREA NETWORKS
15407R	DE	3715200.6	1327 248		Granted	23-Apr-02	25-DEC-02	15407R0DE0T	EFFICIENT HANDOFFS BETWEEN CELLULAR AND WIRELESS LOCAL AREA NETWORKS
15407R	CN	3821247.0	1209812147.6		Granted	23-Apr-02	5-SEP-02	15407R0CN0EN	EFFICIENT HANDOFFS BETWEEN CELLULAR AND WIRELESS LOCAL AREA NETWORKS
15514R	CN	3813544.3	HEMPY		Filed	17-Jul-02	HEMPY	15514R0CN0EN	HIRARCHICAL OPTICAL WPM (HOWP) IN A CARRIER'S CARRIER VPM ENVIRONMENT
15514R	CN	20121023827.X	HEMPY		Filed	17-Jul-02	HEMPY	15514R0CN0V	HIRARCHICAL OPTICAL WPM (HOWP) IN A CARRIER'S CARRIER VPM ENVIRONMENT
15581R	GB	3793931.7	540 893		Granted	9-Sep-02	10-OCT-02	15581R0GB0T	NETWORK AND METHOD FOR PROVIDING SWITCHED VIRTUAL CIRCUIT LAYER-2 VIRTUAL PRIVATE NETWORKS
15581R	FR	3793931.7	540 893		Granted	9-Sep-02	10-OCT-02	15581R0FR0T	NETWORK AND METHOD FOR PROVIDING SWITCHED VIRTUAL CIRCUIT LAYER-2 VIRTUAL PRIVATE NETWORKS
15581R	DE	3793931.7	60318222.6		Granted	9-Sep-02	10-OCT-02	15581R0DE0T	NETWORK AND METHOD FOR PROVIDING SWITCHED VIRTUAL CIRCUIT LAYER-2 VIRTUAL PRIVATE NETWORKS
15581R	GB	3747385.3	540 892		Granted	9-Sep-02	10-OCT-02	15581R0GB0T	NETWORK AND METHOD FOR PROVIDING SWITCHED VIRTUAL CIRCUIT LAYER-2 VIRTUAL PRIVATE NETWORKS
15581R	FR	3747385.3	540 892		Granted	9-Sep-02	10-OCT-02	15581R0FR0T	NETWORK AND METHOD FOR PROVIDING SWITCHED VIRTUAL CIRCUIT LAYER-2 VIRTUAL PRIVATE NETWORKS
15581R	DE	3747385.3	60318222.6		Granted	9-Sep-02	10-OCT-02	15581R0DE0T	NETWORK AND METHOD FOR PROVIDING SWITCHED VIRTUAL CIRCUIT LAYER-2 VIRTUAL PRIVATE NETWORKS
15628R	GB	3750189.1	1500 270		Granted	9-Sep-02	25-APR-02	15628R0GB0T	GENERALIZED LAYER 2 VPMs
15628R	FR	3750189.1	1500 270		Granted	9-Sep-02	25-APR-02	15628R0FR0T	GENERALIZED LAYER 2 VPMs
15628R	DE	3750189.1	60318483		Granted	9-Sep-02	25-APR-02	15628R0DE0T	GENERALIZED LAYER 2 VPMs
15669R	GB	3788839.1	1503 287		Granted	30-May-02	31-OCT-02	15669R0GB0G	APPARATUS, METHOD AND PROGRAM FOR NETWORK TOPOLOGY DISCOVERY UTILIZING DATA LINK LAYER SERVICES
15669R	FR	3788839.1	1503 287		Granted	30-May-02	31-OCT-02	15669R0FR0G	APPARATUS, METHOD AND PROGRAM FOR NETWORK TOPOLOGY DISCOVERY UTILIZING DATA LINK LAYER SERVICES
15669R	EP	3788839.1	1503 287		Inactive	30-May-02	31-OCT-02	15669R0EP0G	APPARATUS, METHOD AND PROGRAM FOR NETWORK TOPOLOGY DISCOVERY UTILIZING DATA LINK LAYER SERVICES
15669R	DE	3788839.1	1503 287		Granted	30-May-02	31-OCT-02	15669R0DE0G	APPARATUS, METHOD AND PROGRAM FOR NETWORK TOPOLOGY DISCOVERY UTILIZING DATA LINK LAYER SERVICES
15729R	EP	2004-701073	HEMPY		Filed	20-Nov-02	HEMPY	15729R0FR0EN	TECHNIQUE FOR ACCOMMODATING ELECTRONIC COMPONENTS ON A MULTILAYER SIGNAL ROUTING DEVICE
15729R	EP	2004-55366	518403		Granted	20-Nov-02	18-JAN-03	15729R0FR0EN	TECHNIQUE FOR ACCOMMODATING ELECTRONIC COMPONENTS ON A MULTILAYER SIGNAL ROUTING DEVICE
15729R	HK	101096132	HEMPY		Filed	11-OCT-02	HEMPY	15729R0HK12V	TECHNIQUE FOR ACCOMMODATING ELECTRONIC COMPONENTS ON A MULTILAYER SIGNAL ROUTING DEVICE
15729R	GB	3788847.5	1461 985		Granted	20-Nov-02	22-OCT-04	15729R0GB1ST	TECHNIQUE FOR ACCOMMODATING ELECTRONIC COMPONENTS ON A MULTILAYER SIGNAL ROUTING DEVICE
15729R	FR	3788847.5	1461 985		Granted	20-Nov-02	22-OCT-04	15729R0FR1ST	TECHNIQUE FOR ACCOMMODATING ELECTRONIC COMPONENTS ON A MULTILAYER SIGNAL ROUTING DEVICE
15729R	EP	3788847.5	1461 985		Inactive	20-Nov-02	22-OCT-04	15729R0EP1ST	TECHNIQUE FOR ACCOMMODATING ELECTRONIC COMPONENTS ON A MULTILAYER SIGNAL ROUTING DEVICE
15729R	DE	3788847.5	1461 985		Granted	20-Nov-02	22-OCT-04	15729R0DE1ST	TECHNIQUE FOR ACCOMMODATING ELECTRONIC COMPONENTS ON A MULTILAYER SIGNAL ROUTING DEVICE
15729R	CN	20080100137	020080100137		Granted	20-Nov-02	6-JAN-03	15729R0CN0EN	TECHNIQUE FOR ACCOMMODATING ELECTRONIC COMPONENTS ON A MULTILAYER SIGNAL ROUTING DEVICE
15729R	CN	20091020501	20091020501		Granted	20-Nov-02	25-JAN-12	15729R0CN11V	TECHNIQUE FOR ACCOMMODATING ELECTRONIC COMPONENTS ON A MULTILAYER SIGNAL ROUTING DEVICE
15729R	CA	2,472,338	2,472,338		Granted	20-Nov-02	23-OCT-12	15729R0CA0AN	TECHNIQUE FOR ACCOMMODATING ELECTRONIC COMPONENTS ON A MULTILAYER SIGNAL ROUTING DEVICE
15773D	DE	4013951.4	1484 892		Granted	7-JUN-04	6-OCT-06	15773D0DE0E	METHOD AND SYSTEM FOR LAWFUL INTERCEPTION OF PACKET SWITCHED NETWORK SERVICES
15773D	FR	4013951.4	1484 892		Granted	7-JUN-04	6-OCT-06	15773D0FR0E	METHOD AND SYSTEM FOR LAWFUL INTERCEPTION OF PACKET SWITCHED NETWORK SERVICES
15773D	DE	4013951.4	60004009518		Granted	7-JUN-04	6-OCT-06	15773D0DE0E	METHOD AND SYSTEM FOR LAWFUL INTERCEPTION OF PACKET SWITCHED NETWORK SERVICES
15793R	FR	10-2004-0042805	106258		Granted	11-JUN-04	30-AUG-11	15793R0FR0BU	TECHNIQUE FOR INTERCONNECTION MULTILAYER CIRCUIT BOARDS
15793R	HK	10157343.4	HEMPY		Filed	22-AUG-05	HEMPY	15793R0HK0BU	TECHNIQUE FOR INTERCONNECTION MULTILAYER CIRCUIT BOARDS
15793R	CN	200410081704	020041008170		Granted	11-JUN-04	21-APR-10	15793R0CN04BU	TECHNIQUE FOR INTERCONNECTION MULTILAYER CIRCUIT BOARDS
15827R	FR	934,029	372,024		Granted	25-MAY-04	30-SEP-04	15827R0FR0VD	VISIONPHONES
15828R	FR	950,766	333481		Granted	8-FEB-05	31-MAR-05	15828R0FR0ZD	BORNE TELEPHONIQUE MURALE
15828R	FR	950,766	333482		Granted	8-FEB-05	31-MAR-05	15828R0FR0ZD	BORNE TELEPHONIQUE MURALE
15828R	FR	950,766	333483		Granted	8-FEB-05	31-MAR-05	15828R0FR0ZD	BORNE TELEPHONIQUE MURALE
15828R	FR	950,766	333484		Granted	8-FEB-05	31-MAR-05	15828R0FR0ZD	BORNE TELEPHONIQUE MURALE
15828R	FR	961917	437373		Granted	29-MAR-06	23-APR-06	15828R0FR0ZD	APPAREIL COMBINE TELECOPIEUR/REPONDEUR TELEPHONIQUE - PF-100R - STORNA 660
15828R	FR	961917	437374		Granted	29-MAR-06	23-APR-06	15828R0FR0ZD	APPAREIL COMBINE TELECOPIEUR/REPONDEUR TELEPHONIQUE - PF-100R - STORNA 660
15828R	FR	961917	437375		Granted	29-MAR-06	23-APR-06	15828R0FR0ZD	APPAREIL COMBINE TELECOPIEUR/REPONDEUR TELEPHONIQUE - PF-100R - STORNA 660
15828R	FR	961917	437372		Granted	29-MAR-06	23-APR-06	15828R0FR0ZD	APPAREIL COMBINE TELECOPIEUR/REPONDEUR TELEPHONIQUE - PF-100R - STORNA 660
15863R	GB	4250934.5	1450 524		Granted	20-FEB-04	18-JUL-12	15863R0GB10E	CIRCULATING SWITCH
15863R	FR	4250934.5	1450 524		Granted	20-FEB-04	18-JUL-12	15863R0FR0E	CIRCULATING SWITCH
15863R	EP	4250934.5	HEMPY		Filed	20-FEB-04	HEMPY	15863R0EP0E	CIRCULATING SWITCH
15863R	DE	4250934.5	1450 524		Granted	20-FEB-04	18-JUL-12	15863R0DE0E	CIRCULATING SWITCH
15863R	CA	2,457,971	HEMPY		Filed	18-FEB-04	HEMPY	15863R0CA0ZU	CIRCULATING SWITCH
15863R	CA	2,834,634	HEMPY		Filed	18-Nov-04	HEMPY	15863R0CA11V	CIRCULATING SWITCH
15863R	CA	2,706,654	2,706,654		Granted	18-FEB-04	28-JAN-04	15863R0CA0V	CIRCULATING SWITCH
15928R	EP	4796406.5	HEMPY		Filed	8-APR-04	HEMPY	15928R0EP0ET	MEMORY PROTECTION SYSTEMS AND METHODS FOR WRITABLE MEMORY
15928R	EP	32152126.7	HEMPY		Filed	8-APR-04	HEMPY	15928R0EP0EV	MEMORY PROTECTION SYSTEMS AND METHODS FOR WRITABLE MEMORY
15959R	EP	2004-100907	HEMPY		Filed	30-MAR-04	HEMPY	15959R0EP0AH	AUTO-COMPRESSION FOR MEDIA OVERIP
15959R	CA	2,461,839	2,461,839		Granted	25-MAR-04	7-MAY-13	15959R0CA0EN	AUTO-COMPRESSION FOR MEDIA OVERIP
15929R	GB	4394086.1	1458 700		Granted	23-JUN-04	15-JAN-04	15929R0GB0E	APPARATUS, METHOD, AND COMPUTER PROGRAM FOR SUPPORTING VIDEO CONFERENCING IN A COMMUNICATION SYSTEM
15929R	FR	4394086.1	1458 700		Granted	23-JUN-04	15-JAN-04	15929R0FR0E	APPARATUS, METHOD, AND COMPUTER PROGRAM FOR SUPPORTING VIDEO CONFERENCING IN A COMMUNICATION SYSTEM
15929R	EP	30178917	HEMPY		Filed	23-JUN-04	HEMPY	15929R0EP0AV	APPARATUS, METHOD, AND COMPUTER PROGRAM FOR SUPPORTING VIDEO CONFERENCING IN A COMMUNICATION SYSTEM
15929R	EP	4394086.1	1458 700		Inactive	23-JUN-04	15-JAN-04	15929R0EP0E	APPARATUS, METHOD, AND COMPUTER PROGRAM FOR SUPPORTING VIDEO CONFERENCING IN A COMMUNICATION SYSTEM
15929R	DE	4394086.1	1458 700		Granted	23-JUN-04	15-JAN-04	15929R0DE0E	APPARATUS, METHOD, AND COMPUTER PROGRAM FOR SUPPORTING VIDEO CONFERENCING IN A COMMUNICATION SYSTEM
15988R	EP	4743823	HEMPY		Filed	25-JUN-04	HEMPY	15988R0EP0ET	DISTRIBUTED CALL SERVER SUPPORTING COMMUNICATION SESSIONS IN A COMMUNICATION SYSTEM AND METHOD
15988R	EP	11189803	HEMPY		Filed	25-JUN-04	HEMPY	15988R0EP0EV	DISTRIBUTED CALL SERVER SUPPORTING COMMUNICATION SESSIONS IN A COMMUNICATION SYSTEM AND METHOD
15988R	EP	4743823	HEMPY		Filed	25-JUN-04	HEMPY	15988R0EP0EV	DISTRIBUTED CALL SERVER SUPPORTING COMMUNICATION SESSIONS IN A COMMUNICATION SYSTEM AND METHOD
16021D	EP	4077251	HEMPY		Filed	8-AUG-04	HEMPY	16021D0EP0E	MANAGEMENT OF QUEUES IN CONTACT CENTRES
16021D	EP	3129592	HEMPY		Filed	8-AUG-04	HEMPY	16021D0EP0V	MANAGEMENT OF QUEUES IN CONTACT CENTRES
16021D	EP	31292343	HEMPY		Filed	8-AUG-04	HEMPY	16021D0EP0V	MANAGEMENT OF QUEUES IN CONTACT CENTRES
16021D	CA	2,477,868	2,477,868		Granted	12-AUG-04	1-OCT-13	16021D0CA0ZU	MANAGEMENT OF QUEUES IN CONTACT CENTRES
16141R	EP	4769718	HEMPY		Filed	22-OCT-04	HEMPY	16141R0EP0ET	MULTIPLE SERVICES WITH POLICY ENFORCEMENT OVER A COMMON NETWORK
16141R	CA	2,525,625	HEMPY		Filed	22-OCT-04	HEMPY	16141R0CA0AN	MULTIPLE SERVICES WITH POLICY ENFORCEMENT OVER A COMMON NETWORK
16192R	EP	4343793	HEMPY		Filed	18-JUN-04	HEMPY	16192R0EP0ET	CONVERGENCE OF CIRCUIT-SWITCHED VOICE AND PACKET-BASED MEDIA SERVICES
16192R	EP	30181344.3	HEMPY		Filed	18-JUN-04	HEMPY	16192R0EP0V	CONVERGENCE OF CIRCUIT-SWITCHED VOICE AND PACKET-BASED MEDIA SERVICES
16192R	CA	2,529,897	2,529,897		Granted	18-JUN-04	8-JAN-13	16192R0CA0EN	CONVERGENCE OF CIRCUIT-SWITCHED VOICE AND PACKET-BASED MEDIA SERVICES
16192R	CA	2,768,069	2,768,069		Granted	18-JUN-04	31-OCT-13	16192R0CA0EV	CONVERGENCE OF CIRCUIT-SWITCHED VOICE AND PACKET-BASED MEDIA SERVICES

177380	SB	6759554	2442474	granted	5-Sep-06	11-Nov-12	177380C8B71	EFFICIENT DATA TRANSMISSION AND TRAINING OF DATA PROCESSING FUNCTIONS
177380	SB	12152834	2442468	granted	5-Sep-06	20-Nov-13	177380C8B72	EFFICIENT DATA TRANSMISSION AND TRAINING OF DATA PROCESSING FUNCTIONS
177380	FR	6759554	2442474	granted	5-Sep-06	11-Nov-12	177380C8B73	EFFICIENT DATA TRANSMISSION AND TRAINING OF DATA PROCESSING FUNCTIONS
177380	FR	12152834	2442468	granted	5-Sep-06	20-Nov-13	177380C8B74	EFFICIENT DATA TRANSMISSION AND TRAINING OF DATA PROCESSING FUNCTIONS
177380	EP	13175336	EMPTY	Filed	5-Sep-06	EMPTY	177380C8B75	EFFICIENT DATA TRANSMISSION AND TRAINING OF DATA PROCESSING FUNCTIONS
177380	EP	12152834	2442468	Inactive	5-Sep-06	20-Nov-13	177380C8B76	EFFICIENT DATA TRANSMISSION AND TRAINING OF DATA PROCESSING FUNCTIONS
177380	DE	12152834	2442468	granted	5-Sep-06	20-Nov-13	177380C8B77	EFFICIENT DATA TRANSMISSION AND TRAINING OF DATA PROCESSING FUNCTIONS
177380	DE	63006411	2442474	granted	5-Sep-06	11-Nov-12	177380C8B78	EFFICIENT DATA TRANSMISSION AND TRAINING OF DATA PROCESSING FUNCTIONS
177380	SB	6075938	1798320	granted	19-Aug-06	21-Apr-12	177380C8B79	FORWARDING TABLE MINIMIZATION IN ETHERNET SWITCHES
177380	FR	6075938	1798320	granted	19-Aug-06	21-Apr-12	177380C8B80	FORWARDING TABLE MINIMIZATION IN ETHERNET SWITCHES
177380	DE	6075938	1798320	granted	19-Aug-06	21-Apr-12	177380C8B81	FORWARDING TABLE MINIMIZATION IN ETHERNET SWITCHES
177380	CN	200610212718	020601021271	granted	25-Aug-06	30-Mar-11	177380C8B82	FORWARDING TABLE MINIMIZATION IN ETHERNET SWITCHES
177380	SB	6775261	1343785	granted	22-Sep-06	24-Aug-11	177380C8B83	MULTILINK TRAINING FOR ENCAPSULATED TRAFFIC
177380	FR	6775261	1343785	granted	22-Sep-06	24-Aug-11	177380C8B84	MULTILINK TRAINING FOR ENCAPSULATED TRAFFIC
177380	DE	6775261	1343785	granted	22-Sep-06	24-Aug-11	177380C8B85	MULTILINK TRAINING FOR ENCAPSULATED TRAFFIC
177380	HK	81132671	EMPTY	Filed	19-Oct-07	EMPTY	177380C8B86	TECHNIQUE FOR DYNAMICALLY CONTROLLING DELIVERY OF CONTENT
177380	EP	7204263	EMPTY	Filed	19-Oct-07	EMPTY	177380C8B87	TECHNIQUE FOR DYNAMICALLY CONTROLLING DELIVERY OF CONTENT
17828R	EP	5220282	EMPTY	Filed	25-Sep-06	EMPTY	17828R0E00E	METHOD FOR SUPPLYING POWER TO A DEVICE LIGHT POWER CONTROL FOR SOLAR SENSOR DEVICES
17828R	HK	5102675	EMPTY	Filed	15-Sep-06	EMPTY	17828R0H00A	METHOD AND APPARATUS FOR PROVIDING AVAILABILITY METRICS FOR MEASUREMENT AND MANAGEMENT OF ETHERNET SERVICES
17828R	SB	8113533	2446758	granted	15-Sep-06	16-Feb-11	17828R0G00N	METHOD AND APPARATUS FOR PROVIDING AVAILABILITY METRICS FOR MEASUREMENT AND MANAGEMENT OF ETHERNET SERVICES
17828R	IN	1465WCOLM/2008	EMPTY	Filed	11-Sep-06	EMPTY	17828R0M00N	PROVIDER BACKPLANE BRIDGING - PROVIDER BACKPLANE TRANSPORT INTERNETWORKING
17828R	EP	13188563	EMPTY	Filed	11-Sep-06	EMPTY	17828R0E02V	PROVIDER BACKPLANE BRIDGING - PROVIDER BACKPLANE TRANSPORT INTERNETWORKING
17828R	EP	17506693	EMPTY	Filed	11-Sep-06	EMPTY	17828R0E02T	PROVIDER BACKPLANE BRIDGING - PROVIDER BACKPLANE TRANSPORT INTERNETWORKING
17828R	CN	20068004900X	EMPTY	Filed	11-Sep-06	EMPTY	17828R0C00N	PROVIDER BACKPLANE BRIDGING - PROVIDER BACKPLANE TRANSPORT INTERNETWORKING
17923D	EP	7705072	EMPTY	Filed	30-Jan-07	EMPTY	17923D0E00T	METHOD AND DEVICE FOR CONNECTING SEPARATE SPANNING TREE NETWORKS
179270	SB	6759586	1917779	granted	25-Aug-06	22-Feb-12	179270C8B07	MULTI-SEGMENT PSEUDO-WIRES
179270	FR	6759586	1917779	granted	25-Aug-06	22-Feb-12	179270C8B08	MULTI-SEGMENT PSEUDO-WIRES
179270	EP	6759586	1917779	granted	25-Aug-06	EMPTY	179270C8B09	MULTI-SEGMENT PSEUDO-WIRES
179270	DE	6759586	1917779	granted	25-Aug-06	22-Feb-12	179270C8B10	MULTI-SEGMENT PSEUDO-WIRES
179280	EP	6814341	EMPTY	Filed	12-Sep-06	EMPTY	179280C8B01	FORWARDING PLANE DATA COMMUNICATIONS CHANNEL FOR ETHERNET TRANSPORT NETWORKS
179290	FR	10-2008-701116	10-1342944	granted	12-Oct-06	12-Oct-13	179290C8B0N	GNPS CONTROL OF ETHERNET
179290	IP	2008-534887	4832322	granted	12-Oct-06	25-Sep-11	179290C8B0P	GNPS CONTROL OF ETHERNET
179290	IN	1551WCOLM/2008	EMPTY	Filed	12-Oct-06	EMPTY	179290C8B0T	GNPS CONTROL OF ETHERNET
179290	CN	2006800455642	EMPTY	Filed	12-Oct-06	EMPTY	179290C8B0U	GNPS CONTROL OF ETHERNET
179290	CA	2,624,369	EMPTY	Filed	12-Oct-06	EMPTY	179290C8B0V	GNPS CONTROL OF ETHERNET
18017S	EP	13178351	EMPTY	Filed	26-Jun-07	EMPTY	18017S0E00V	METHOD AND APPARATUS FOR DETECTING UNSOLICITED MULTIMEDIA COMMUNICATIONS
18017S	EP	7700653	EMPTY	Filed	26-Jun-07	EMPTY	18017S0E00T	METHOD AND APPARATUS FOR DETECTING UNSOLICITED MULTIMEDIA COMMUNICATIONS
18017S	EP	10182838	EMPTY	Filed	26-Jun-07	EMPTY	18017S0E00S	METHOD AND APPARATUS FOR DETECTING UNSOLICITED MULTIMEDIA COMMUNICATIONS
18060R	EP	7021408	EMPTY	Filed	2-Nov-07	EMPTY	18060R0E00E	TIME-SHIFTED BROADCAST DELIVERY
18060R	CA	2,600,869	EMPTY	Filed	2-Nov-07	EMPTY	18060R0C00Z	TIME-SHIFTED BROADCAST DELIVERY
181580	SB	811417	2447378	granted	12-Sep-06	6-Jul-11	181580C8B0N	DYNAMIC NETWORK IDENTITY AND POLICY MANAGEMENT
181280	HK	5112345	EMPTY	Filed	26-Sep-07	EMPTY	181280C8B0T	A METHOD AND SYSTEM FOR PREDICTING THE ADOPTION OF SERVICES, SUCH AS TELECOMMUNICATION SERVICES
181280	EP	781394	EMPTY	Filed	26-Sep-07	EMPTY	181280C8B0P	A METHOD AND SYSTEM FOR PREDICTING THE ADOPTION OF SERVICES, SUCH AS TELECOMMUNICATION SERVICES
181340	EP	12188831	EMPTY	Filed	24-Sep-07	EMPTY	181340C8E0V	METHOD AND APPARATUS FOR ENABLING COMMUTER GROUPS
181340	EP	7815812	EMPTY	Inactive	24-Sep-07	EMPTY	181340C8E0T	METHOD AND APPARATUS FOR ENABLING COMMUTER GROUPS
181340	CA	2,664,234	EMPTY	Filed	24-Sep-07	EMPTY	181340C8A0N	METHOD AND APPARATUS FOR ENABLING COMMUTER GROUPS
181780	FR	10-2010-704888	EMPTY	Filed	12-Oct-08	EMPTY	181780C8B0N	METHOD AND SYSTEM FOR LOOPING BACK TRAFFIC IN Q10 ETHERNET RINGS AND 1:1 PROTECTED PEER TRUNKS
181780	IP	2010-537222	EMPTY	Filed	12-Oct-08	EMPTY	181780C8B0P	METHOD AND SYSTEM FOR LOOPING BACK TRAFFIC IN Q10 ETHERNET RINGS AND 1:1 PROTECTED PEER TRUNKS
181780	IP	2010-147779	EMPTY	Filed	12-Oct-08	EMPTY	181780C8B11V	METHOD AND SYSTEM FOR LOOPING BACK TRAFFIC IN Q10 ETHERNET RINGS AND 1:1 PROTECTED PEER TRUNKS
181780	IN	4404WCOLM/2010	EMPTY	Filed	12-Oct-08	EMPTY	181780C8B0T	METHOD AND SYSTEM FOR LOOPING BACK TRAFFIC IN Q10 ETHERNET RINGS AND 1:1 PROTECTED PEER TRUNKS
181780	EP	8893765	EMPTY	Filed	12-Oct-08	EMPTY	181780C8B0G	METHOD AND SYSTEM FOR LOOPING BACK TRAFFIC IN Q10 ETHERNET RINGS AND 1:1 PROTECTED PEER TRUNKS
181780	CN	20088025120X	EMPTY	Filed	12-Oct-08	EMPTY	181780C8B0U	METHOD AND SYSTEM FOR LOOPING BACK TRAFFIC IN Q10 ETHERNET RINGS AND 1:1 PROTECTED PEER TRUNKS
181780	CA	2,708,671	EMPTY	Filed	12-Oct-08	EMPTY	181780C8A0N	METHOD AND SYSTEM FOR LOOPING BACK TRAFFIC IN Q10 ETHERNET RINGS AND 1:1 PROTECTED PEER TRUNKS
18180R	EP	78251765	EMPTY	Filed	25-Sep-07	EMPTY	18180R0E00T	SYSTEM AND METHOD FOR JOINING A CONFERENCE CALL OR MULTIMEDIA CONFERENCE
18180R	CA	2,665,812	EMPTY	Filed	25-Sep-07	EMPTY	18180R0C00N	SYSTEM AND METHOD FOR JOINING A CONFERENCE CALL OR MULTIMEDIA CONFERENCE
18201H	FR	10-2007-009818	EMPTY	Granted	28-Sep-07	18-Feb-14	18201H0800A	METHOD AND SYSTEM FOR TRUSTED CONTEXTUAL COMMUNICATIONS
18201H	IN	1274WCOLM/2007	EMPTY	Filed	11-Sep-07	EMPTY	18201H0800G	METHOD AND SYSTEM FOR TRUSTED CONTEXTUAL COMMUNICATIONS
18201H	HK	81107994	EMPTY	Filed	28-Sep-08	EMPTY	18201H0800S	METHOD AND SYSTEM FOR TRUSTED CONTEXTUAL COMMUNICATIONS
18201H	EP	7017383	EMPTY	Filed	5-Sep-07	EMPTY	18201H0800E	METHOD AND SYSTEM FOR TRUSTED CONTEXTUAL COMMUNICATIONS
18201H	CN	20120163501	EMPTY	Filed	26-Sep-07	EMPTY	18201H0800U	METHOD AND SYSTEM FOR TRUSTED CONTEXTUAL COMMUNICATIONS
18201H	CN	200701619305	020070161930	granted	26-Sep-07	18-Jul-12	18201H0800Z	METHOD AND SYSTEM FOR TRUSTED CONTEXTUAL COMMUNICATIONS
18206R	EP	7825941	EMPTY	Filed	12-Sep-07	EMPTY	18206R0E00E	CLOSED CAPTIONING LANGUAGE TRANSLATION
18206R	EP	12160741	EMPTY	Filed	12-Sep-07	EMPTY	18206R0E00V	CLOSED CAPTIONING LANGUAGE TRANSLATION
18207R	FR	10-2005-700580	EMPTY	Filed	17-Oct-07	EMPTY	18207R0R00N	METHOD OF CONFIGURING A NODE, RELATED NODE AND CONFIGURATION SERVER
18207R	FR	10-2014-702811	EMPTY	Filed	17-Oct-07	EMPTY	18207R0R00V	METHOD OF CONFIGURING A NODE, RELATED NODE AND CONFIGURATION SERVER
18207R	EP	7866447	EMPTY	Filed	17-Oct-07	EMPTY	18207R0E00T	METHOD OF CONFIGURING A NODE, RELATED NODE AND CONFIGURATION SERVER
18207R	CN	201301048047	EMPTY	Filed	17-Oct-07	EMPTY	18207R0C00U	METHOD OF CONFIGURING A NODE, RELATED NODE AND CONFIGURATION SERVER
18207R	CN	200700389501	200700389501	granted	17-Oct-07	22-May-13	18207R0C00N	METHOD OF CONFIGURING A NODE, RELATED NODE AND CONFIGURATION SERVER
18213R	EP	10-2005-700506	EMPTY	Filed	13-Sep-07	EMPTY	18213R0R00N	DIGITAL MEDIA RECORDER BASED ADVERTISING
18213R	FR	10-2013-702889	EMPTY	Filed	3-Oct-13	EMPTY	18213R0R012V	DIGITAL MEDIA RECORDER BASED ADVERTISING
18213R	IP	2009-527913	EMPTY	Filed	13-Sep-07	EMPTY	18213R0R00V	DIGITAL MEDIA RECORDER BASED ADVERTISING
18213R	IP	2013-171361	EMPTY	Filed	22-Aug-13	EMPTY	18213R0R011V	DIGITAL MEDIA RECORDER BASED ADVERTISING
18213R	HK	101062974	EMPTY	Filed	13-Sep-07	EMPTY	18213R0R00S	DIGITAL MEDIA RECORDER BASED ADVERTISING
18213R	EP	78045103	EMPTY	Filed	13-Sep-07	EMPTY	18213R0E00T	DIGITAL MEDIA RECORDER BASED ADVERTISING
18213R	EP	12171348	EMPTY	Filed	13-Sep-07	EMPTY	18213R0E00V	DIGITAL MEDIA RECORDER BASED ADVERTISING
18213R	EP	12171363	EMPTY	Filed	13-Sep-07	EMPTY	18213R0E00Y	DIGITAL MEDIA RECORDER BASED ADVERTISING
18213R	CA	2,663,405	EMPTY	Filed	13-Sep-07	EMPTY	18213R0C00N	DIGITAL MEDIA RECORDER BASED ADVERTISING
18213R	HK	101021301	EMPTY	Filed	11-Jun-07	EMPTY	18213R0H011V	SUPPORTING MULTI-PROTOCOL LABEL SWITCHING (MPLS) APPLICATIONS OVER ETHERNET SWITCH PATHS
18213R	HK	101022723	EMPTY	Filed	5-Mar-10	EMPTY	18213R0H00N	SUPPORTING MULTI-PROTOCOL LABEL SWITCHING (MPLS) APPLICATIONS OVER ETHERNET SWITCH PATHS
18213R	HK	101022723	HK133524	granted	5-Mar-10	16-May-13	18213R0H00G	SUPPORTING MULTI-PROTOCOL LABEL SWITCHING (MPLS) APPLICATIONS OVER ETHERNET SWITCH PATHS
18213R	SB	7840295	12027674	granted	13-Jun-07	23-Oct-13	18213R0E010T	SUPPORTING MULTI-PROTOCOL LABEL SWITCHING (MPLS) APPLICATIONS OVER ETHERNET SWITCH PATHS
18213R	FR	7840295	12027674	granted	13-Jun-07	23-Oct-13	18213R0E00T	SUPPORTING MULTI-PROTOCOL LABEL SWITCHING (MPLS) APPLICATIONS OVER ETHERNET SWITCH PATHS
18213R	EP	131320165	EMPTY	Filed	13-Jun-07	EMPTY	18213R0E00V	SUPPORTING MULTI-PROTOCOL LABEL SWITCHING (MPLS) APPLICATIONS OVER ETHERNET SWITCH PATHS
18213R	EP	7840295	12027674	Inactive	13-Jun-07	23-Oct-13	18213R0E00T	SUPPORTING MULTI-PROTOCOL LABEL SWITCHING (MPLS) APPLICATIONS OVER ETHERNET SWITCH PATHS
18213R	DE	7840295	12027674	granted	13-Jun-07	23-Oct-13	18213R0E00E	SUPPORTING MULTI-PROTOCOL LABEL SWITCHING (MPLS) APPLICATIONS OVER ETHERNET SWITCH PATHS
18213R	CN	20070029331	020070029333	granted	13-Jun-07	14-Aug-12	18213R0C00N	SUPPORTING MULTI-PROTOCOL LABEL SWITCHING (MPLS) APPLICATIONS OVER ETHERNET SWITCH PATHS
18284R	HK	81133368	EMPTY	Filed	6-Dec-06	EMPTY	18284R0H00Z	MESSAGE MAPPING FOR FORCED HOND CALL HANDLING IN A VOP ENVIRONMENT
18284R	EP	70249222	EMPTY	Filed	21-Dec-07	EMPTY	18284R0E00E	MESSAGE MAPPING FOR FORCED HOND CALL HANDLING IN A VOP ENVIRONMENT
18290R	DE	6878462	1343782	granted	2-Oct-06	26-Mar-12	18290R0E01E	PROVIDER LINK STATE BRIDGING

Standard ID	Title	Author	Status	Effective Date	Withdrawal Date	Technical Committee	Description
185270	SE	11150380	2,424,178	granted	2-01-06	4-01-14	185270CE27V PROVIDER LINK STATE BRIDGING
185270	NL	6817845	2,343,782	granted	2-01-06	28-Mar-12	185270ML19E PROVIDER LINK STATE BRIDGING
185270	NL	11150380	2,424,178	granted	2-01-06	4-01-14	185270ML29V PROVIDER LINK STATE BRIDGING
185270	FR	19-2008-7012958	19-1406922	granted	2-May-08	5-Jul-12	185270FR05N PROVIDER LINK STATE BRIDGING
185270	JP	2008-533832	477982	granted	2-01-06	8-Jul-12	185270JP08N PROVIDER LINK STATE BRIDGING
185270	IT	6817845	4579306/70012	granted	2-01-06	28-Mar-12	185270IT17E PROVIDER LINK STATE BRIDGING
185270	IT	11150380	2,424,178	granted	2-01-06	4-01-14	185270IT27V PROVIDER LINK STATE BRIDGING
185270	NL	1444\NOLMP\2208	HEMPY	Filed	2-01-06	HEMPY	185270NL07N PROVIDER LINK STATE BRIDGING
185270	SB	6817845	2,343,782	granted	2-01-06	28-Mar-12	185270SB19E PROVIDER LINK STATE BRIDGING
185270	SB	11150380	2,424,178	granted	2-01-06	4-01-14	185270SB29V PROVIDER LINK STATE BRIDGING
185270	FR	6817845	2,343,782	granted	2-01-06	28-Mar-12	185270FR25E PROVIDER LINK STATE BRIDGING
185270	FR	11150380	2,424,178	granted	2-01-06	4-01-14	185270FR35V PROVIDER LINK STATE BRIDGING
185270	FI	6817845	2,343,782	granted	2-01-06	28-Mar-12	185270FI14E PROVIDER LINK STATE BRIDGING
185270	FI	11150380	2,424,178	granted	2-01-06	4-01-14	185270FI24V PROVIDER LINK STATE BRIDGING
185270	ES	11150380	2,424,178	granted	2-01-06	4-01-14	185270ES22V PROVIDER LINK STATE BRIDGING
185270	ES	2,383,613	1,343,782	granted	2-01-06	28-Mar-12	185270ES13E PROVIDER LINK STATE BRIDGING
185270	EP	14168807	HEMPY	Filed	2-01-06	HEMPY	185270EP21V PROVIDER LINK STATE BRIDGING
185270	EP	6817845	2,343,782	Inactive	2-01-06	28-Mar-12	185270EP04E PROVIDER LINK STATE BRIDGING
185270	EP	11150380	2,424,178	Inactive	2-01-06	4-01-14	185270EP10V PROVIDER LINK STATE BRIDGING
185270	DE	6817845	2,343,782	granted	2-01-06	28-Mar-12	185270DE12E PROVIDER LINK STATE BRIDGING
185270	DE	11150380	2,424,178	granted	2-01-06	4-01-14	185270DE22V PROVIDER LINK STATE BRIDGING
185270	CN	20080045720.X	020080045720	granted	2-01-06	13-May-12	185270CN02N PROVIDER LINK STATE BRIDGING
185400	SB	73942026.41	1,916,833	granted	30-01-07	21-01-09	185400SB04E SOURCE SELECTION FOR CONFERENCE BRIDGES
185400	FR	73942026.41	1,916,833	granted	30-01-07	21-01-09	185400FR05E SOURCE SELECTION FOR CONFERENCE BRIDGES
185400	DE	73942026.41	1,916,833	granted	30-01-07	21-01-09	185400DE04E SOURCE SELECTION FOR CONFERENCE BRIDGES
185400	CA	2,608,535	HEMPY	Filed	29-01-07	HEMPY	185400CA02U SOURCE SELECTION FOR CONFERENCE BRIDGES
185410	SB	7732861.5	2,000,120	granted	3-May-07	12-Feb-14	185410SB05T INTERWORKING POINT TO POINT PROTOCOL FOR DIGITAL SUBSCRIBER LINE ACCESS WITH ETHERNET CONNECTIONS IN THE AGGREGATION NETWORK
185410	FR	7732861.5	2,000,120	granted	3-May-07	12-Feb-14	185410FR07T INTERWORKING POINT TO POINT PROTOCOL FOR DIGITAL SUBSCRIBER LINE ACCESS WITH ETHERNET CONNECTIONS IN THE AGGREGATION NETWORK
185410	EP	11172826.5	HEMPY	Filed	3-May-07	HEMPY	185410EP02V INTERWORKING POINT TO POINT PROTOCOL FOR DIGITAL SUBSCRIBER LINE ACCESS WITH ETHERNET CONNECTIONS IN THE AGGREGATION NETWORK
185410	EP	7732861.5	2,000,120	Inactive	3-May-07	12-Feb-14	185410EP04T INTERWORKING POINT TO POINT PROTOCOL FOR DIGITAL SUBSCRIBER LINE ACCESS WITH ETHERNET CONNECTIONS IN THE AGGREGATION NETWORK
185410	DE	6,02007E+11	2,000,120	granted	3-May-07	12-Feb-14	185410DE06T INTERWORKING POINT TO POINT PROTOCOL FOR DIGITAL SUBSCRIBER LINE ACCESS WITH ETHERNET CONNECTIONS IN THE AGGREGATION NETWORK
185310	EP	7713814.1	HEMPY	Filed	18-May-07	HEMPY	185310EP01T METHOD AND SYSTEM FOR PROTECTING A SUB-DOMAIN WITHIN A BROADCAST DOMAIN
185310	CN	20078018008.5	HEMPY	Filed	18-May-07	HEMPY	185310CN02N METHOD AND SYSTEM FOR PROTECTING A SUB-DOMAIN WITHIN A BROADCAST DOMAIN
185310	CA	2,651,861	HEMPY	Filed	18-May-07	HEMPY	185310CA04N METHOD AND SYSTEM FOR PROTECTING A SUB-DOMAIN WITHIN A BROADCAST DOMAIN
185320	EP	7825177.4	HEMPY	Filed	25-Sep-07	HEMPY	185320EP04T ACTIVE SOURCE IDENTIFICATION FOR CONFERENCE CALLS
185320	CA	2,664,262	HEMPY	Filed	25-Sep-07	HEMPY	185320CA02N ACTIVE SOURCE IDENTIFICATION FOR CONFERENCE CALLS
184140	EP	7024920.6	HEMPY	Filed	21-Dec-07	HEMPY	184140EP02E CALL SERVER SELECTION
184590	EP	7024923	HEMPY	Filed	21-Dec-07	HEMPY	184590EP02E PERSONALIZED CONFERENCE BRIDGE
184690	EP	8000593.9	HEMPY	Filed	18-Jan-08	HEMPY	184690EP02E INTERACTIVE CONTENT FOR CLICK-TO-CALL CALLS
184690	EP	7882100	HEMPY	Filed	15-Nov-07	HEMPY	184690EP01T TECHNIQUES FOR IMPLEMENTING LOGICAL TRUNK GROUPS WITH SESSION INITIATION PROTOCOL (SIP)
184790	FR	10-2005-704547	10-1089207	granted	15-Nov-07	29-Nov-11	184790FR02N SERVING GATEWAY PROXIES FOR NON-SIP SPEAKERS IN A NEXT GENERATION NETWORK
184790	HK	10100511	113980	granted	15-Nov-07	5-Jul-13	184790HK08N SERVING GATEWAY PROXIES FOR NON-SIP SPEAKERS IN A NEXT GENERATION NETWORK
184790	ES	P20090005	238572	granted	15-Nov-07	20-Aug-12	184790ES02N SERVING GATEWAY PROXIES FOR NON-SIP SPEAKERS IN A NEXT GENERATION NETWORK
184790	EP	784516.6	HEMPY	Filed	15-Nov-07	HEMPY	184790EP01T SERVING GATEWAY PROXIES FOR NON-SIP SPEAKERS IN A NEXT GENERATION NETWORK
184790	CN	20120520232.3	HEMPY	Filed	15-Nov-07	HEMPY	184790CN02V SERVING GATEWAY PROXIES FOR NON-SIP SPEAKERS IN A NEXT GENERATION NETWORK
184790	CN	200780120123.X	02007801201232	granted	15-Nov-07	14-Nov-12	184790CN02N SERVING GATEWAY PROXIES FOR NON-SIP SPEAKERS IN A NEXT GENERATION NETWORK
184790	CA	2,671,501	HEMPY	Filed	15-Nov-07	HEMPY	184790CA04N SERVING GATEWAY PROXIES FOR NON-SIP SPEAKERS IN A NEXT GENERATION NETWORK
184870	SB	7024500.4	1,940,195	granted	21-Dec-07	28-Mar-12	184870SB02E LOAD BALANCING FOR MULTICAST STREAM PROCESSORS
184870	FR	7024500.4	1,940,195	granted	21-Dec-07	28-Mar-12	184870FR04E LOAD BALANCING FOR MULTICAST STREAM PROCESSORS
184870	FR	7024500.4	1,940,195	Inactive	21-Dec-07	28-Mar-12	184870FR02E LOAD BALANCING FOR MULTICAST STREAM PROCESSORS
184870	DE	7024500.4	1,940,195	granted	21-Dec-07	28-Mar-12	184870DE02E LOAD BALANCING FOR MULTICAST STREAM PROCESSORS
185010	HK	8113889.3	HEMPY	Filed	19-Dec-07	HEMPY	185010HK03U METHOD AND SYSTEM TO CONTROL ADVERTISING
185010	EP	7024588.1	HEMPY	Filed	19-Dec-07	HEMPY	185010EP02E METHOD AND SYSTEM TO CONTROL ADVERTISING
185200	EP	7024248	HEMPY	Filed	21-Dec-07	HEMPY	185200EP02E RE-ENCRYPTING ENCRYPTED CONTENT ON A VIDEO-ON-DEMAND SYSTEM
185600	EP	8955283.8	HEMPY	Filed	26-Nov-08	HEMPY	185600EP01T APPARATUS AND METHOD FOR MANAGING COMMUNICATION BETWEEN PARTIES
185690	EP	789592.0	HEMPY	Filed	20-Dec-07	HEMPY	185690EP01T SYSTEM AND METHOD FOR PROVIDING POWER MANAGEMENT IN A SENSOR NETWORK
185710	EP	7815108	HEMPY	Filed	1-Nov-07	HEMPY	185710EP01T DISTRIBUTED STORAGE OF ROUTING INFORMATION IN A LINK STATE PROTOCOL CONTROLLED NETWORK
185710	CN	20120278566.6	HEMPY	Filed	1-Nov-07	HEMPY	185710CN02V DISTRIBUTED STORAGE OF ROUTING INFORMATION IN A LINK STATE PROTOCOL CONTROLLED NETWORK
185710	CN	20078040282.8	20078040282.8	granted	1-Nov-07	10-Oct-12	185710CN02N DISTRIBUTED STORAGE OF ROUTING INFORMATION IN A LINK STATE PROTOCOL CONTROLLED NETWORK
185710	CA	2,664,564	HEMPY	Filed	1-Nov-07	HEMPY	185710CA04N DISTRIBUTED STORAGE OF ROUTING INFORMATION IN A LINK STATE PROTOCOL CONTROLLED NETWORK
185790	FR	10-2013-7021713	HEMPY	Filed	28-Nov-13	HEMPY	185790FR05V MEDIA CONTEXT INFORMATION
185790	FR	10-2014-7027480	HEMPY	Filed	29-Sep-14	HEMPY	185790FR15V MEDIA CONTEXT INFORMATION
185790	FR	10-2005-7046608	10-1415469	granted	11-Dec-07	27-Jun-14	185790FR07N MEDIA CONTEXT INFORMATION
185790	JP	2009-540887	HEMPY	Filed	11-Dec-07	HEMPY	185790JP05N MEDIA CONTEXT INFORMATION
185790	JP	2013-141123	HEMPY	Filed	4-Jul-13	HEMPY	185790JP08V MEDIA CONTEXT INFORMATION
185790	SB	789006.6	2,127,209	granted	11-Dec-07	7-May-14	185790SB12T MEDIA CONTEXT INFORMATION
185790	FR	789006.6	2,127,209	granted	11-Dec-07	7-May-14	185790FR11T MEDIA CONTEXT INFORMATION
185790	EP	789006.6	2,127,209	Inactive	11-Dec-07	7-May-14	185790EP01T MEDIA CONTEXT INFORMATION
185790	DE	789006.6	6000703662.1.6	granted	11-Dec-07	7-May-14	185790DE10T MEDIA CONTEXT INFORMATION
185790	CN	200780591388.3	HEMPY	Filed	11-Dec-07	HEMPY	185790CN06N MEDIA CONTEXT INFORMATION
185790	CA	2,672,411	HEMPY	Filed	11-Dec-07	HEMPY	185790CA04N MEDIA CONTEXT INFORMATION
186470	WO	PCT/CA011/050397	HEMPY	Inactive	29-Jun-11	HEMPY	186470WO01V METHOD AND APPARATUS FOR ENCODING VIDEO TO PLAY AT MULTIPLE SPEEDS
186470	FR	PCT/CA011/050397	HEMPY	Filed	29-Jun-11	HEMPY	186470FR04N METHOD AND APPARATUS FOR ENCODING VIDEO TO PLAY AT MULTIPLE SPEEDS
186470	JP	PCT/CA011/050397	HEMPY	Filed	29-Jun-11	HEMPY	186470JP03N METHOD AND APPARATUS FOR ENCODING VIDEO TO PLAY AT MULTIPLE SPEEDS
186470	EP	11868801.0	HEMPY	Filed	29-Jun-11	HEMPY	186470EP02T METHOD AND APPARATUS FOR ENCODING VIDEO TO PLAY AT MULTIPLE SPEEDS
186540	JP	2009-535814	5129261	granted	2-Nov-07	3-Apr-12	186540JP07N COMBINING PLSS AND PET TO PRODUCE ENGINEERABLE ELAN SERVICE
186540	EP	7824883.8	HEMPY	Filed	2-Nov-07	HEMPY	186540EP01T COMBINING PLSS AND PET TO PRODUCE ENGINEERABLE ELAN SERVICE
186540	EP	14151170.1	HEMPY	Filed	2-Nov-07	HEMPY	186540EP02V COMBINING PLSS AND PET TO PRODUCE ENGINEERABLE ELAN SERVICE
186540	CN	200780404941.X	HEMPY	Filed	2-Nov-07	HEMPY	186540CN02N COMBINING PLSS AND PET TO PRODUCE ENGINEERABLE ELAN SERVICE
186540	CA	2,668,128	HEMPY	Filed	2-Nov-07	HEMPY	186540CA04N TRAFFIC ENGINEERED PATHS IN A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
186590	SB	7815026.5	2,087,712	granted	1-Nov-07	14-May-14	186590SB10T METHOD AND APPARATUS FOR COMPUTING ALTERNATE MULTICAST/BROADCAST PATHS IN A ROUTED NETWORK
186590	FR	7815026.5	2,087,712	granted	1-Nov-07	14-May-14	186590FR09T METHOD AND APPARATUS FOR COMPUTING ALTERNATE MULTICAST/BROADCAST PATHS IN A ROUTED NETWORK
186590	EP	14151387.4	HEMPY	Filed	1-Nov-07	HEMPY	186590EP07V METHOD AND APPARATUS FOR COMPUTING ALTERNATE MULTICAST/BROADCAST PATHS IN A ROUTED NETWORK
186590	EP	7815026.5	2,087,712	Inactive	1-Nov-07	14-May-14	186590EP01T METHOD AND APPARATUS FOR COMPUTING ALTERNATE MULTICAST/BROADCAST PATHS IN A ROUTED NETWORK
186590	DE	7815026.5	2,087,712	granted	1-Nov-07	14-May-14	186590DE09T METHOD AND APPARATUS FOR COMPUTING ALTERNATE MULTICAST/BROADCAST PATHS IN A ROUTED NETWORK
186590	CN	200780404932.2	HEMPY	Filed	1-Nov-07	HEMPY	186590CN02N METHOD AND APPARATUS FOR COMPUTING ALTERNATE MULTICAST/BROADCAST PATHS IN A ROUTED NETWORK
186590	CA	2,665,039	HEMPY	Filed	1-Nov-07	HEMPY	186590CA04N METHOD AND APPARATUS FOR COMPUTING ALTERNATE MULTICAST/BROADCAST PATHS IN A ROUTED NETWORK
186680	JP	2013-263925	HEMPY	Filed	19-Dec-13	HEMPY	186680JP01V DAM FOR DIFFERENTIAL FORWARDING IN ADDRESS BASED NETWORKS
186680	EP	2009-534716	5345542	granted	31-Oct-07	23-Aug-13	186680EP06N DAM FOR DIFFERENTIAL FORWARDING IN ADDRESS BASED NETWORKS

86589D	IP	2012-23652	HEMPY	Filed	31-Oct-07	HEMPY	86589DIP09	DATA FOR DIFFERENTIAL FORWARDING IN ADDRESS-BASED NETWORKS
86589D	EP	7839345	HEMPY	Filed	31-Oct-07	HEMPY	86589DCEP01	DATA FOR DIFFERENTIAL FORWARDING IN ADDRESS-BASED NETWORKS
86589D	EN	2013025269	HEMPY	Filed	31-Oct-07	HEMPY	86589DCCEN29	DATA FOR DIFFERENTIAL FORWARDING IN ADDRESS-BASED NETWORKS
86589D	EN	20078040851	DL20078040851	Granted	31-Oct-07	24-Jul-13	86589DCCEN29	DATA FOR DIFFERENTIAL FORWARDING IN ADDRESS-BASED NETWORKS
86589D	CA	2,657,581	HEMPY	Filed	31-Oct-07	HEMPY	86589DCCAZ29	ETHERNET DATA IN IMMEDIATE MODES IN A PET NETWORK
86589D	EP	81482703	HEMPY	Filed	7-May-08	HEMPY	86589DCEP01	FACILITATING AUTOMATIC PROTECTION SWITCHING FOR PROVIDER BACKBONE NETWORK
86589D	EN	20088002357	HEMPY	Filed	7-May-08	HEMPY	86589DCCEN29	FACILITATING AUTOMATIC PROTECTION SWITCHING FOR PROVIDER BACKBONE NETWORK
86589D	CA	2,683,571	HEMPY	Filed	7-May-08	HEMPY	86589DCCAZ29	FACILITATING AUTOMATIC PROTECTION SWITCHING FOR PROVIDER BACKBONE NETWORK
86589D	IP	2013-201864	HEMPY	Filed	17-Jan-08	HEMPY	86589DIP12V	METHOD AND APPARATUS FOR INTERWORKING ETHERNET AND MPLS NETWORKS
86589D	IP	2013-201865	HEMPY	Filed	17-Jan-08	HEMPY	86589DIP12V	METHOD AND APPARATUS FOR INTERWORKING ETHERNET AND MPLS NETWORKS
86589D	EP	2009-546521	5385154	Granted	17-Jan-08	11-Oct-13	86589DCEP01	METHOD AND APPARATUS FOR INTERWORKING ETHERNET AND MPLS NETWORKS
86589D	EP	8727836	HEMPY	Filed	17-Jan-08	HEMPY	86589DCEP01	METHOD AND APPARATUS FOR INTERWORKING ETHERNET AND MPLS NETWORKS
86589D	EN	20131024845	HEMPY	Filed	17-Jan-08	HEMPY	86589DCCEN1V	METHOD AND APPARATUS FOR INTERWORKING ETHERNET AND MPLS NETWORKS
86589D	EN	20088002355	DL20088002355	Granted	17-Jan-08	29-May-13	86589DCCEN29	METHOD AND APPARATUS FOR INTERWORKING ETHERNET AND MPLS NETWORKS
86589D	CA	2,670,766	HEMPY	Filed	17-Jan-08	HEMPY	86589DCCAZ29	METHOD AND APPARATUS FOR INTERWORKING ETHERNET AND MPLS NETWORKS
86589D	FR	120209-704603	12-1421511	Granted	15-Nov-07	15-Jul-14	86589DCCFR29	HIERARCHICAL ROUTING FOR PLS
86589D	GB	7821443.2	092 692	Granted	15-Nov-07	23-Apr-14	86589DGB12T	HIERARCHICAL ROUTING FOR PLS
86589D	FR	7821443.2	092 692	Granted	15-Nov-07	23-Apr-14	86589DCCFR11T	HIERARCHICAL ROUTING FOR PLS
86589D	EP	23188013	HEMPY	Filed	15-Nov-07	HEMPY	86589DCEP01	HIERARCHICAL ROUTING FOR PLS
86589D	EP	7821443.2	092 692	Inactive	15-Nov-07	23-Apr-14	86589DCEP01	HIERARCHICAL ROUTING FOR PLS
86589D	DE	7821443.2	092 692	Granted	15-Nov-07	23-Apr-14	86589DCCDE10T	HIERARCHICAL ROUTING FOR PLS
86589D	EN	20078005177.2	DL0078005177	Granted	15-Nov-07	21-Mar-13	86589DCCEN29	HIERARCHICAL ROUTING FOR PLS
86589D	CA	2,671,671	HEMPY	Filed	15-Nov-07	HEMPY	86589DCCAZ29	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS
86589D	FR	12011-704644	HEMPY	Filed	1-Jul-09	HEMPY	86589DCCFR29	MULTIMEDIA ARCHITECTURE FOR AUDIO AND VISUAL CONTENT
86589D	IP	2011-52610	HEMPY	Filed	1-Jul-09	HEMPY	86589DIP01V	MULTIMEDIA ARCHITECTURE FOR AUDIO AND VISUAL CONTENT
86589D	IP	2011-52611	HEMPY	Filed	1-Jul-09	HEMPY	86589DIP10V	MULTIMEDIA ARCHITECTURE FOR AUDIO AND VISUAL CONTENT
86589D	IP	2011-52612	HEMPY	Filed	1-Jul-09	HEMPY	86589DIP11V	MULTIMEDIA ARCHITECTURE FOR AUDIO AND VISUAL CONTENT
86589D	IN	610/CHENP/2011	HEMPY	Filed	1-Jul-09	HEMPY	86589DIN06N	MULTIMEDIA ARCHITECTURE FOR AUDIO AND VISUAL CONTENT
86589D	EP	88205145	HEMPY	Filed	1-Jul-09	HEMPY	86589DCEP01	MULTIMEDIA ARCHITECTURE FOR AUDIO AND VISUAL CONTENT
86589D	EN	20110213341	HEMPY	Filed	1-Jul-09	HEMPY	86589DCCEN29	MULTIMEDIA ARCHITECTURE FOR AUDIO AND VISUAL CONTENT
86589D	EN	200980139745	DL200980139745	Granted	1-Jul-09	23-Jul-14	86589DCCEN29	MULTIMEDIA ARCHITECTURE FOR AUDIO AND VISUAL CONTENT
86589D	BR	PI016251-6	HEMPY	Filed	1-Jul-09	HEMPY	86589DCCBR29	MULTIMEDIA ARCHITECTURE FOR AUDIO AND VISUAL CONTENT
87170N	KR	12011-7015338	HEMPY	Filed	1-Dec-09	HEMPY	87170NKR07N	ENHANCED CHANNEL SURFING
87170N	IP	2011-539115	HEMPY	Filed	1-Dec-09	HEMPY	87170NIP08N	ENHANCED CHANNEL SURFING
87170N	IP	2011-539115	HEMPY	Filed	1-Dec-09	HEMPY	87170NIP08V	ENHANCED CHANNEL SURFING
87170N	EP	88300684	HEMPY	Filed	1-Dec-09	HEMPY	87170NCEP01	ENHANCED CHANNEL SURFING
87170N	EN	2009801558718	HEMPY	Filed	1-Dec-09	HEMPY	87170NCCEN29	ENHANCED CHANNEL SURFING
87170N	CA	2,745,322	HEMPY	Filed	1-Dec-09	HEMPY	87170NCCAZ29	ENHANCED CHANNEL SURFING
87389D	EP	81423401	HEMPY	Filed	18-Apr-08	HEMPY	87389DCEP01	FAILURE NOTIFICATION IN A NETWORK HAVING SERIALY CONNECTED NODES
87389D	EN	20088002823	HEMPY	Filed	18-Apr-08	HEMPY	87389DCCEN29	FAILURE NOTIFICATION IN A NETWORK HAVING SERIALY CONNECTED NODES
87389D	CA	2,684,628	HEMPY	Filed	18-Apr-08	HEMPY	87389DCCAZ29	FAILURE NOTIFICATION IN A NETWORK HAVING SERIALY CONNECTED NODES
87593D	GB	87057373	2 100 836	Granted	17-Jan-08	6-Mar-14	87593DGB12T	BORDER GATEWAY PROTOCOL PROCEDURES FOR MULTI-PROTOCOL LABELSWITCHING AND LAYER-2 VIRTUAL PRIVATE NETWORKS USING ETHERNET-BASED TUNNELS
87593D	FR	87057373	2 100 836	Granted	17-Jan-08	6-Mar-14	87593DCCFR11T	BORDER GATEWAY PROTOCOL PROCEDURES FOR MULTI-PROTOCOL LABELSWITCHING AND LAYER-2 VIRTUAL PRIVATE NETWORKS USING ETHERNET-BASED TUNNELS
87593D	EP	121773636	HEMPY	Filed	17-Jan-08	HEMPY	87593DCEP01	BORDER GATEWAY PROTOCOL PROCEDURES FOR MULTI-PROTOCOL LABELSWITCHING AND LAYER-2 VIRTUAL PRIVATE NETWORKS USING ETHERNET-BASED TUNNELS
87593D	EP	87057373	2 100 836	Inactive	17-Jan-08	6-Mar-14	87593DCEP01	BORDER GATEWAY PROTOCOL PROCEDURES FOR MULTI-PROTOCOL LABELSWITCHING AND LAYER-2 VIRTUAL PRIVATE NETWORKS USING ETHERNET-BASED TUNNELS
87593D	DE	602008-027-6015	2 100 836	Granted	17-Jan-08	6-Mar-14	87593DCCDE10T	BORDER GATEWAY PROTOCOL PROCEDURES FOR MULTI-PROTOCOL LABELSWITCHING AND LAYER-2 VIRTUAL PRIVATE NETWORKS USING ETHERNET-BASED TUNNELS
87593D	EN	20131061118	HEMPY	Filed	17-Jan-08	HEMPY	87593DCCEN29	BORDER GATEWAY PROTOCOL PROCEDURES FOR MULTI-PROTOCOL LABELSWITCHING AND LAYER-2 VIRTUAL PRIVATE NETWORKS USING ETHERNET-BASED TUNNELS
87593D	EN	20088002183	20088002183	Granted	17-Jan-08	1-May-13	87593DCCEN29	BORDER GATEWAY PROTOCOL PROCEDURES FOR MULTI-PROTOCOL LABELSWITCHING AND LAYER-2 VIRTUAL PRIVATE NETWORKS USING ETHERNET-BASED TUNNELS
87593D	CA	2,674,109	HEMPY	Filed	17-Jan-08	HEMPY	87593DCCAZ29	BORDER GATEWAY PROTOCOL PROCEDURES FOR MULTI-PROTOCOL LABELSWITCHING AND LAYER-2 VIRTUAL PRIVATE NETWORKS USING ETHERNET-BASED TUNNELS
87593D	IN	3487/CHENP/2008	HEMPY	Filed	17-Jan-08	HEMPY	87593DIN07N	BORDER GATEWAY PROTOCOL EXTENDED COMMUNITY ATTRIBUTE FOR LAYER-2 AND LAYER-3 VIRTUAL PRIVATE NETWORKS USING R02.144-BASED TUNNELS
87593D	EP	87137864	HEMPY	Filed	17-Jan-08	HEMPY	87593DCEP01	BORDER GATEWAY PROTOCOL EXTENDED COMMUNITY ATTRIBUTE FOR LAYER-2 AND LAYER-3 VIRTUAL PRIVATE NETWORKS USING R02.144-BASED TUNNELS
87593D	EN	201104084923	HEMPY	Filed	17-Jan-08	HEMPY	87593DCCEN29	BORDER GATEWAY PROTOCOL EXTENDED COMMUNITY ATTRIBUTE FOR LAYER-2 AND LAYER-3 VIRTUAL PRIVATE NETWORKS USING R02.144-BASED TUNNELS
87593D	EN	20088002343	20088002343	Granted	17-Jan-08	9-Apr-14	87593DCCEN29	BORDER GATEWAY PROTOCOL EXTENDED COMMUNITY ATTRIBUTE FOR LAYER-2 AND LAYER-3 VIRTUAL PRIVATE NETWORKS USING R02.144-BASED TUNNELS
87593D	CA	2,674,201	HEMPY	Filed	17-Jan-08	HEMPY	87593DCCAZ29	BORDER GATEWAY PROTOCOL EXTENDED COMMUNITY ATTRIBUTE FOR LAYER-2 AND LAYER-3 VIRTUAL PRIVATE NETWORKS USING R02.144-BASED TUNNELS
88239N	FR	12010-7017231	HEMPY	Filed	30-Dec-08	HEMPY	88239NFR09N	IP FORWARDING ACROSS A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
88239N	FR	12010-702394	HEMPY	Filed	30-Dec-08	HEMPY	88239NFR13V	IP FORWARDING ACROSS A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
88239N	IP	2011-540540	5291122	Granted	30-Dec-08	14-Jun-13	88239NIP08N	IP FORWARDING ACROSS A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
88239N	IP	2011-540523	559507	Granted	30-Dec-08	30-May-14	88239NIP11V	IP FORWARDING ACROSS A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
88239N	IN	3520/CHENP/2010	HEMPY	Filed	30-Dec-08	HEMPY	88239NIN07N	IP FORWARDING ACROSS A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
88239N	EP	121159193	HEMPY	Filed	30-Dec-08	HEMPY	88239NCEP01	IP FORWARDING ACROSS A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
88239N	EN	8878391	HEMPY	Filed	30-Dec-08	HEMPY	88239DCCEN29	IP FORWARDING ACROSS A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
88239N	EN	20110584973	HEMPY	Filed	30-Dec-08	HEMPY	88239DCCEN1V	IP FORWARDING ACROSS A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
88239N	EN	2008801784938	DL2008801784938	Granted	30-Dec-08	27-Aug-14	88239DCCEN29	IP FORWARDING ACROSS A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
88239N	BR	PI0821564-3	HEMPY	Filed	30-Dec-08	HEMPY	88239DCCBR29	IP FORWARDING ACROSS A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
88389D	EP	8751719	HEMPY	Filed	2-Jun-08	HEMPY	88389DCEP01	DISTRIBUTED CONNECTION ESTABLISHMENT AND RESTORATION
88389D	EN	200880018483	DL200880018483	Granted	2-Jun-08	16-Jan-13	88389DCCEN29	DISTRIBUTED CONNECTION ESTABLISHMENT AND RESTORATION
88389D	CA	2,687,882	HEMPY	Filed	2-Jun-08	HEMPY	88389DCCAZ29	DISTRIBUTED CONNECTION ESTABLISHMENT AND RESTORATION
88593D	FR	12011-7095759	HEMPY	Filed	10-Sep-09	HEMPY	88593DCCFR29	RANKING SEARCH RESULTS BASED ON AFFINITY CRITERIA
88593D	IP	2011-526385	HEMPY	Filed	10-Sep-09	HEMPY	88593DIP01N	RANKING SEARCH RESULTS BASED ON AFFINITY CRITERIA
88593D	IN	1740/CHENP/2011	HEMPY	Filed	10-Sep-09	HEMPY	88593DIN06N	RANKING SEARCH RESULTS BASED ON AFFINITY CRITERIA
88593D	EP	8912751	HEMPY	Filed	10-Sep-09	HEMPY	88593DCEP01	RANKING SEARCH RESULTS BASED ON AFFINITY CRITERIA
88593D	EN	200980135503	HEMPY	Filed	10-Sep-09	HEMPY	88593DCCEN29	RANKING SEARCH RESULTS BASED ON AFFINITY CRITERIA
88593D	BR	PI019250-0	HEMPY	Filed	10-Sep-09	HEMPY	88593DCCBR29	RANKING SEARCH RESULTS BASED ON AFFINITY CRITERIA
88593D	GB	8140675	2451738	Granted	1-Aug-08	14-Oct-08	88593DGB04U	METHOD AND APPARATUS FOR INTERWORKING MPLS AND PEG NETWORKS
89239D	WO	PCT/CA2012/050337	HEMPY	Filed	22-May-12	HEMPY	89239DWO03W	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	FR	12010-7016657	HEMPY	Filed	11-Dec-08	HEMPY	89239DCCFR29	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	FR	12010-7027399	HEMPY	Filed	22-May-12	HEMPY	89239DCCFR29	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	IP	2013-183388	HEMPY	Filed	11-Dec-08	HEMPY	89239DIP14V	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	IP	PCT/CA2012/050337	HEMPY	Filed	22-May-12	HEMPY	89239DIP24U	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	IP	2011-540188	5362743	Granted	11-Dec-08	13-Sep-13	89239DIP07N	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	IN	PCT/CA2012/050337	HEMPY	Filed	22-May-12	HEMPY	89239DIN29N	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	IN	2276/K/ANP/2010	HEMPY	Filed	11-Dec-08	HEMPY	89239DIN06N	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	HK	131116674	HEMPY	Filed	11-Dec-08	HEMPY	89239DCCHK15V	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	EP	88783724	HEMPY	Filed	11-Dec-08	HEMPY	89239DCEP01	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	EP	12138874	HEMPY	Filed	11-Dec-08	HEMPY	89239DCEP12V	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	EP	PCT/CA2012/050337	HEMPY	Filed	22-May-12	HEMPY	89239DCEP22T	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	EN	20128033822	HEMPY	Filed	22-May-12	HEMPY	89239DCCEN29	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	EN	201101744222	HEMPY	Filed	11-Dec-08	HEMPY	89239DCCEN1V	THE GREATING IN SHORTEST PATH DETERMINATION
89239D	EN	2008801278420	DL2008801278420	Granted	11-Dec-08	14-Jun-14	89239DCCEN29	THE GREATING IN SHORTEST PATH DETERMINATION

19323FO	CA	PCT/CA2012/095937	HEMPY	Filed	22-May-12	HEMPY	19323FOCA20N	THE-BREAKING IN SHORTEST PATH DETERMINATION
19323FO	CA	2,742,887	HEMPY	Filed	11-Dec-08	HEMPY	19323FOCA10N	THE-BREAKING IN SHORTEST PATH DETERMINATION
19323FO	BR	PI021540-4	HEMPY	Filed	11-Dec-08	HEMPY	19323FOBR02N	THE-BREAKING IN SHORTEST PATH DETERMINATION
19323FO	BR	BR 11 2014 029534-4	HEMPY	Filed	22-May-12	HEMPY	19323FOBR12N	THE-BREAKING IN SHORTEST PATH DETERMINATION
19331DO	FR	15 2010 07015394	HEMPY	Filed	19-Dec-08	HEMPY	19331DOFR10N	EVOLUTION OF ETHERNET NETWORKS
19331DO	JP	2010-53928	HEMPY	Granted	527612	HEMPY	19331DOJP09N	EVOLUTION OF ETHERNET NETWORKS
19331DO	IN	955/CHEMP/22010	HEMPY	Filed	19-Dec-08	HEMPY	19331DOIN09N	EVOLUTION OF ETHERNET NETWORKS
19331DO	EP	8895602	HEMPY	Filed	19-Dec-08	HEMPY	19331DOEP04T	EVOLUTION OF ETHERNET NETWORKS
19331DO	CN	20080125385-4	HEMPY	Filed	19-Dec-08	HEMPY	19331DOCN09N	EVOLUTION OF ETHERNET NETWORKS
19331DO	CA	2,747,007	HEMPY	Filed	19-Dec-08	HEMPY	19331DOCA08N	EVOLUTION OF ETHERNET NETWORKS
19339RO	RU	2011121524	HEMPY	Granted	252672	HEMPY	19339RORU20N	METHOD AND APPARATUS FOR PROVIDING A VIDEO REPRESENTATION OF A THREE DIMENSIONAL COMPUTER-GENERATED VIRTUAL ENVIRONMENT
19339RO	FR	10 2011 015357	HEMPY	Filed	27-Nov-09	HEMPY	19339ROFR09N	METHOD AND APPARATUS FOR PROVIDING A VIDEO REPRESENTATION OF A THREE DIMENSIONAL COMPUTER-GENERATED VIRTUAL ENVIRONMENT
19339RO	JP	2011-537807	HEMPY	Granted	549151	HEMPY	19339ROJP09N	METHOD AND APPARATUS FOR PROVIDING A VIDEO REPRESENTATION OF A THREE DIMENSIONAL COMPUTER-GENERATED VIRTUAL ENVIRONMENT
19339RO	IN	955/CHEMP/22011	HEMPY	Filed	27-Nov-09	HEMPY	19339ROIN07N	METHOD AND APPARATUS FOR PROVIDING A VIDEO REPRESENTATION OF A THREE DIMENSIONAL COMPUTER-GENERATED VIRTUAL ENVIRONMENT
19339RO	EP	1929513-4	HEMPY	Filed	27-Nov-09	HEMPY	19339ROEP02T	METHOD AND APPARATUS FOR PROVIDING A VIDEO REPRESENTATION OF A THREE DIMENSIONAL COMPUTER-GENERATED VIRTUAL ENVIRONMENT
19339RO	CN	20080153863-3	HEMPY	Filed	27-Nov-09	HEMPY	19339ROCN09N	METHOD AND APPARATUS FOR PROVIDING A VIDEO REPRESENTATION OF A THREE DIMENSIONAL COMPUTER-GENERATED VIRTUAL ENVIRONMENT
19339RO	CA	2,742,364	HEMPY	Filed	27-Nov-09	HEMPY	19339ROCA09N	METHOD AND APPARATUS FOR PROVIDING A VIDEO REPRESENTATION OF A THREE DIMENSIONAL COMPUTER-GENERATED VIRTUAL ENVIRONMENT
19339RO	BR	PI022200-1	HEMPY	Filed	27-Nov-09	HEMPY	19339ROBR09N	METHOD AND APPARATUS FOR PROVIDING A VIDEO REPRESENTATION OF A THREE DIMENSIONAL COMPUTER-GENERATED VIRTUAL ENVIRONMENT
19370RO	RU	2011113228	HEMPY	Granted	249523	HEMPY	19370RORU20N	METHOD AND SYSTEM FOR WEIGHTED FAIR QUEUEING
19370RO	FR	2011-700640	HEMPY	Filed	13-Oct-09	HEMPY	19370ROFR09N	METHOD AND SYSTEM FOR WEIGHTED FAIR QUEUEING
19370RO	JP	2011-530345	HEMPY	Filed	13-Oct-09	HEMPY	19370ROJP09N	METHOD AND SYSTEM FOR WEIGHTED FAIR QUEUEING
19370RO	JP	0	HEMPY	Filed	13-Oct-09	HEMPY	19370ROJP14V	METHOD AND SYSTEM FOR WEIGHTED FAIR QUEUEING
19370RO	IN	2251/CHEMP/22011	HEMPY	Filed	13-Oct-09	HEMPY	19370ROIN06N	METHOD AND SYSTEM FOR WEIGHTED FAIR QUEUEING
19370RO	EP	982045-2	HEMPY	Filed	13-Oct-09	HEMPY	19370ROEP02T	METHOD AND SYSTEM FOR WEIGHTED FAIR QUEUEING
19370RO	CN	20101006793-3	HEMPY	Filed	13-Oct-09	HEMPY	19370ROCN15V	METHOD AND SYSTEM FOR WEIGHTED FAIR QUEUEING
19370RO	CN	20080150362-2	HEMPY	Granted	531426	HEMPY	19370ROCN04N	METHOD AND SYSTEM FOR WEIGHTED FAIR QUEUEING
19370RO	CA	2,743,544	HEMPY	Filed	13-Oct-09	HEMPY	19370ROCA09N	METHOD AND SYSTEM FOR WEIGHTED FAIR QUEUEING
19370RO	BR	PI022020-9	HEMPY	Filed	13-Oct-09	HEMPY	19370ROBR09N	METHOD AND SYSTEM FOR WEIGHTED FAIR QUEUEING
19028N	FR	0	HEMPY	Filed	30-Dec-08	HEMPY	19028NFR05V	MPLS P NODE REPLACEMENT USING A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19028N	FR	10 2010 07017016	HEMPY	Filed	30-Dec-08	HEMPY	19028NFR09N	MPLS P NODE REPLACEMENT USING A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19028N	FR	10 2014 020454	HEMPY	Filed	30-Dec-08	HEMPY	19028NFR15V	MPLS P NODE REPLACEMENT USING A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19028N	JP	2010-54043	HEMPY	Granted	531426	HEMPY	19028NJP07N	MPLS P NODE REPLACEMENT USING A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19028N	IN	3018/CHEMP/22010	HEMPY	Filed	30-Dec-08	HEMPY	19028NIN06N	MPLS P NODE REPLACEMENT USING A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19028N	GB	8870245.2-2 2 27 879	HEMPY	Granted	30-Dec-08	HEMPY	19028NGB03T	MPLS P NODE REPLACEMENT USING A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19028N	FR	8870245.2-2 27 879	HEMPY	Granted	30-Dec-08	HEMPY	19028NFR02T	MPLS P NODE REPLACEMENT USING A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19028N	EP	10193117-2	HEMPY	Filed	30-Dec-08	HEMPY	19028NEP09V	MPLS P NODE REPLACEMENT USING A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19028N	EP	8870245.2-2 27 879	Inactive	30-Dec-08	12-Feb-14	HEMPY	19028NEP02T	MPLS P NODE REPLACEMENT USING A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19028N	DE	8870245.2-2 27 879	HEMPY	Granted	30-Dec-08	HEMPY	19028NDE11T	MPLS P NODE REPLACEMENT USING A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19028N	CN	20141085312-3	HEMPY	Filed	30-Dec-08	HEMPY	19028NCH10V	MPLS P NODE REPLACEMENT USING A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19028N	CN	20080127877-X	HEMPY	Granted	30-Dec-08	HEMPY	19028NCH04N	MPLS P NODE REPLACEMENT USING A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19060RO	WO	PCT/US2009/068493	HEMPY	Filed	17-Dec-09	HEMPY	19060ROWO09N	EXTENDED DIFFIE-HELLMAN GROUP KEY GENERATION
19060RN	FR	10 2010 07017135	HEMPY	Filed	30-Dec-08	HEMPY	19060RFR09N	IMPLEMENTATION OF PVPNS OVER A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19060RN	FR	10 2014 020103	HEMPY	Filed	4-Nov-14	HEMPY	19060RFR15V	IMPLEMENTATION OF PVPNS OVER A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19060RN	JP	2010-54042	HEMPY	Filed	30-Dec-08	HEMPY	19060RJP08N	IMPLEMENTATION OF PVPNS OVER A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19060RN	IN	2013-06454	HEMPY	Granted	29-Jun-10	HEMPY	19060RIN11V	IMPLEMENTATION OF PVPNS OVER A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19060RN	IN	3018/CHEMP/22010	HEMPY	Filed	30-Dec-08	HEMPY	19060RIN07N	IMPLEMENTATION OF PVPNS OVER A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19060RN	EP	8870253-3	HEMPY	Filed	30-Dec-08	HEMPY	19060REP02T	IMPLEMENTATION OF PVPNS OVER A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19060RN	CN	20141070251-5	HEMPY	Filed	30-Dec-08	HEMPY	19060RCH15V	IMPLEMENTATION OF PVPNS OVER A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19060RN	CN	20080127873-X	HEMPY	Granted	30-Dec-08	HEMPY	19060RCH04N	IMPLEMENTATION OF PVPNS OVER A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19060RN	BR	PI02152-2	HEMPY	Filed	30-Dec-08	HEMPY	19060RBR09N	IMPLEMENTATION OF PVPNS OVER A LINK STATE PROTOCOL CONTROLLED ETHERNET NETWORK
19070RO	FR	10 2010 07010454	HEMPY	Filed	13-Oct-08	HEMPY	19070RFR10N	IP NETWORK AND PERFORMANCE MONITORING USING ETHERNET OAM
19070RO	FR	10 2010 07010469	HEMPY	Filed	13-Oct-08	HEMPY	19070RFR13N	AUTOMATIC MEP PROVISIONING IN A LINK STATE CONTROLLED ETHERNET NETWORK
19070RO	FR	10 2014 0202416	HEMPY	Filed	13-Oct-08	HEMPY	19070RFR25V	IP NETWORK AND PERFORMANCE MONITORING USING ETHERNET OAM
19070RO	FR	10 2014 0202732	HEMPY	Filed	13-Oct-08	HEMPY	19070RFR27V	IP NETWORK AND PERFORMANCE MONITORING USING ETHERNET OAM
19070RO	FR	10 2014 0203019	HEMPY	Filed	13-Oct-08	HEMPY	19070RFR31V	IP NETWORK AND PERFORMANCE MONITORING USING ETHERNET OAM
19070RO	FR	10 2010 07010431	HEMPY	Filed	13-Oct-08	HEMPY	19070RFR29N	CONTINUITY CHECK MANAGEMENT IN LINK STATE CONTROLLED ETHERNET NETWORK
19070RO	JP	2010-085376	HEMPY	Filed	13-Oct-08	HEMPY	19070RJP28V	CONTINUITY CHECK MANAGEMENT IN
19070RO	JP	2014-246383	HEMPY	Filed	13-Oct-08	HEMPY	19070RJP35V	CONTINUITY CHECK MANAGEMENT IN
19070RO	JP	2010-529145	HEMPY	Granted	530635	HEMPY	19070RJP21N	IP NETWORK AND PERFORMANCE
19070RO	JP	2010-529147	HEMPY	Granted	536953	HEMPY	19070RJP18N	AUTOMATIC MEP PROVISIONING
19070RO	JP	2010-529148	HEMPY	Granted	532588	HEMPY	19070RJP24N	CONTINUITY CHECK MANAGEMENT IN
19070RO	IN	2511/DELMP/22010	HEMPY	Filed	13-Oct-08	HEMPY	19070RIN23N	CONTINUITY CHECK MANAGEMENT IN
19070RO	IN	2512/DELMP/22010	HEMPY	Filed	13-Oct-08	HEMPY	19070RIN11N	IP NETWORK AND PERFORMANCE
19070RO	IN	2513/DELMP/22010	HEMPY	Filed	13-Oct-08	HEMPY	19070RIN17N	AUTOMATIC MEP PROVISIONING
19070RO	EP	8838669-9	HEMPY	Filed	13-Oct-08	HEMPY	19070REP01T	AUTOMATIC MEP PROVISIONING
19070RO	EP	8837640-5	HEMPY	Filed	13-Oct-08	HEMPY	19070REP02T	IP NETWORK AND PERFORMANCE
19070RO	EP	8838266-8	HEMPY	Filed	13-Oct-08	HEMPY	19070REP02T	CONTINUITY CHECK MANAGEMENT IN
19070RO	CN	20080120443-7	HEMPY	Filed	13-Oct-08	HEMPY	19070RCH21N	CONTINUITY CHECK MANAGEMENT IN
19070RO	CN	20130674602-3	HEMPY	Filed	13-Oct-08	HEMPY	19070RCH03V	CONTINUITY CHECK MANAGEMENT IN
19070RO	CN	20080120296-3	HEMPY	Granted	13-Oct-08	HEMPY	19070RCH05N	AUTOMATIC MEP PROVISIONING
19070RO	CN	20080120444-1	HEMPY	Granted	13-Oct-08	HEMPY	19070RCH06N	IP NETWORK AND PERFORMANCE
19070RO	BR	PI0219246-9	HEMPY	Filed	13-Oct-08	HEMPY	19070RBR20N	CONTINUITY CHECK MANAGEMENT IN
19070RO	BR	PI0219252-3	HEMPY	Filed	13-Oct-08	HEMPY	19070RBR09N	IP NETWORK AND PERFORMANCE
19070RO	BR	PI0219254-0	HEMPY	Filed	13-Oct-08	HEMPY	19070RBR15N	AUTOMATIC MEP PROVISIONING
19098RO	FR	10 2010 07010491	HEMPY	Filed	13-Oct-08	HEMPY	19098RFR09N	MULTI-POINT AND ROOTED MULTI-POINT PROTECTION SWITCHING
19098RO	FR	10 2014 0202957	HEMPY	Filed	13-Oct-08	HEMPY	19098RFR15V	MULTI-POINT AND ROOTED MULTI-POINT PROTECTION SWITCHING
19098RO	JP	2010-528501	HEMPY	Granted	5411508	HEMPY	19098RJP07N	PROTECTION SWITCHING FOR MULTIPOINT AND POINT-TO-MULTIPOINT SERVICES
19098RO	IN	5756/CHEMP/22010	HEMPY	Filed	13-Oct-08	HEMPY	19098ROIN06N	PROTECTION SWITCHING FOR MULTIPOINT AND POINT-TO-MULTIPOINT SERVICES
19098RO	EP	8837588	HEMPY	Filed	13-Oct-08	HEMPY	19098REP02T	MULTI-POINT AND ROOTED MULTI-POINT PROTECTION
19098RO	CN	20080120296-3	HEMPY	Filed	13-Oct-08	HEMPY	19098RCH04N	PROTECTION SWITCHING FOR MULTIPOINT AND POINT-TO-MULTIPOINT SERVICES
19098RO	CN	20141086558-X	HEMPY	Filed	13-Oct-08	HEMPY	19098RCH11V	PROTECTION SWITCHING FOR MULTIPOINT AND POINT-TO-MULTIPOINT SERVICES
19118RO	RU	2011125591	HEMPY	Filed	16-Dec-09	HEMPY	19118RORU10N	TARGETED ADVERTISING SYSTEM AND METHOD
19118RO	FR	10 2011 07017165	HEMPY	Filed	16-Dec-09	HEMPY	19118RFR09N	TARGETED ADVERTISING SYSTEM AND METHOD
19118RO	JP	2011-541622	HEMPY	Filed	16-Dec-09	HEMPY	19118ROJP08N	TARGETED ADVERTISING SYSTEM AND METHOD
19118RO	IN	4278/CHEMP/22011	HEMPY	Filed	16-Dec-09	HEMPY	19118ROIN07N	TARGETED ADVERTISING SYSTEM AND METHOD
19118RO	EP	9834190-2	HEMPY	Filed	16-Dec-09	HEMPY	19118REP02T	TARGETED ADVERTISING SYSTEM AND METHOD
19118RO	CN	20080153867-4	HEMPY	Filed	16-Dec-09	HEMPY	19118ROCN09N	TARGETED ADVERTISING SYSTEM AND METHOD
19118RO	CA	2,748,020	HEMPY	Filed	16-Dec-09	HEMPY	19118ROCA09N	TARGETED ADVERTISING SYSTEM AND METHOD
19118RO	BR	PI020235-6	HEMPY	Filed	16-Dec-09	HEMPY	19118ROBR09N	TARGETED ADVERTISING SYSTEM AND METHOD

Part Number	Revision	Quantity	Unit of Measure	Material	Notes	Manufacturer	Description
1514290	FR	10-201-7012585	HEMPY	Filed	7-Nov-09	1514290R07N	UPLINK POWER CONTROL WITH INTERFERENCE-OVER-THERMAL (OTL) LOAD CONTROL
1514290	FP	201-053871	HEMPY	Granted	7-Nov-09	1514290R09N	UPLINK POWER CONTROL WITH INTERFERENCE-OVER-THERMAL (OTL) LOAD CONTROL
1514290	FN	2679/CHEMP/2202	HEMPY	Filed	7-Nov-09	1514290R05N	UPLINK POWER CONTROL WITH INTERFERENCE-OVER-THERMAL (OTL) LOAD CONTROL
1514290	EP	88464931	HEMPY	Filed	7-Nov-09	1514290CEP4T	UPLINK POWER CONTROL WITH INTERFERENCE-OVER-THERMAL (OTL) LOAD CONTROL
1514290	EN	200802148571	HEMPY	Filed	7-Nov-09	1514290CEN3N	UPLINK POWER CONTROL WITH INTERFERENCE-OVER-THERMAL (OTL) LOAD CONTROL
1514390	WO	PCT/CAL010/000288	HEMPY	Inactive	29-Jun-10	1514390W02W	METHOD AND APPARATUS FOR INDEPENDENT LICENSING OF AUDIO/DISTRIBUTION OF AUDIOVISUAL ASSETS
1514390	RU	20117102478	HEMPY	Filed	29-Jun-10	1514390RU11N	METHOD AND APPARATUS FOR INDEPENDENT LICENSING OF AUDIO/DISTRIBUTION OF AUDIOVISUAL ASSETS
1514390	RR	10-201-7091340	HEMPY	Filed	29-Jun-10	1514390RR01N	METHOD AND APPARATUS FOR INDEPENDENT LICENSING OF AUDIO/DISTRIBUTION OF AUDIOVISUAL ASSETS
1514390	RP	201-0539457	HEMPY	Filed	29-Jun-10	1514390RP09N	METHOD AND APPARATUS FOR INDEPENDENT LICENSING OF AUDIO/DISTRIBUTION OF AUDIOVISUAL ASSETS
1514390	RP	201-4293959	HEMPY	Filed	29-Jun-10	1514390RP12V	METHOD AND APPARATUS FOR INDEPENDENT LICENSING OF AUDIO/DISTRIBUTION OF AUDIOVISUAL ASSETS
1514390	IN	9777/CHEMP/2201	HEMPY	Filed	29-Jun-10	1514390IN08N	METHOD AND APPARATUS FOR INDEPENDENT LICENSING OF AUDIO/DISTRIBUTION OF AUDIOVISUAL ASSETS
1514390	EP	10795482	HEMPY	Filed	29-Jun-10	1514390CEP0T	METHOD AND APPARATUS FOR INDEPENDENT LICENSING OF AUDIO/DISTRIBUTION OF AUDIOVISUAL ASSETS
1514390	CN	201080029108.X	HEMPY	Filed	29-Jun-10	1514390CEN0N	METHOD AND APPARATUS FOR INDEPENDENT LICENSING OF AUDIO/DISTRIBUTION OF AUDIOVISUAL ASSETS
1514390	CA	2,785,873	HEMPY	Filed	29-Jun-10	1514390CA02N	METHOD AND APPARATUS FOR INDEPENDENT LICENSING OF AUDIO/DISTRIBUTION OF AUDIOVISUAL ASSETS
1514390	BR	PH010007-8	HEMPY	Filed	29-Jun-10	1514390BR04N	METHOD AND APPARATUS FOR INDEPENDENT LICENSING OF AUDIO/DISTRIBUTION OF AUDIOVISUAL ASSETS
1514390	AU	2010289667	HEMPY	Filed	29-Jun-10	1514390AU02N	METHOD AND APPARATUS FOR INDEPENDENT LICENSING OF AUDIO/DISTRIBUTION OF AUDIOVISUAL ASSETS
1514490	RU	2011128774	HEMPY	Filed	2-Dec-09	1514490RU12N	READY ACCESS TO UNIFORM RESOURCE IDENTIFIERS THAT ARE ASSOCIATED WITH TELEVISION CONTENT
1514490	RR	10-201-7027399	HEMPY	Filed	2-Dec-09	1514490RR02N	READY ACCESS TO UNIFORM RESOURCE IDENTIFIERS THAT ARE ASSOCIATED WITH TELEVISION CONTENT
1514490	RP	201-540308	HEMPY	Filed	2-Dec-09	1514490RP08N	READY ACCESS TO UNIFORM RESOURCE IDENTIFIERS THAT ARE ASSOCIATED WITH TELEVISION CONTENT
1514490	IN	4251/CHEMP/2201	HEMPY	Filed	2-Dec-09	1514490IN07N	READY ACCESS TO UNIFORM RESOURCE IDENTIFIERS THAT ARE ASSOCIATED WITH TELEVISION CONTENT
1514490	EP	9834186	HEMPY	Filed	2-Dec-09	1514490CEP4T	READY ACCESS TO UNIFORM RESOURCE IDENTIFIERS THAT ARE ASSOCIATED WITH TELEVISION CONTENT
1514490	CN	200805120241	HEMPY	Filed	2-Dec-09	1514490CEN0N	READY ACCESS TO UNIFORM RESOURCE IDENTIFIERS THAT ARE ASSOCIATED WITH TELEVISION CONTENT
1514490	CA	2,745,656	HEMPY	Filed	2-Dec-09	1514490CA02N	READY ACCESS TO UNIFORM RESOURCE IDENTIFIERS THAT ARE ASSOCIATED WITH TELEVISION CONTENT
1514490	BR	PH029120-5	HEMPY	Filed	2-Dec-09	1514490BR03N	READY ACCESS TO UNIFORM RESOURCE IDENTIFIERS THAT ARE ASSOCIATED WITH TELEVISION CONTENT
1517090	RR	10-201-7017024	HEMPY	Filed	12-Jan-09	1517090RR01N	A METHOD AND APPARATUS TO SECURELY EMBED VOIP AND MULTIMEDIA STREAM SESSION KEYS TO ENABLE LAWFUL INTERCEPT AND SESSION RECORDING
1517090	RP	201-541665	HEMPY	Filed	12-Jan-09	1517090RP01N	A METHOD AND APPARATUS TO SECURELY EMBED VOIP AND MULTIMEDIA STREAM SESSION KEYS TO ENABLE LAWFUL INTERCEPT AND SESSION RECORDING
1517090	IN	5045/DEEMP/2203	HEMPY	Filed	12-Jan-09	1517090IN06N	A METHOD AND APPARATUS TO SECURELY EMBED VOIP AND MULTIMEDIA STREAM SESSION KEYS TO ENABLE LAWFUL INTERCEPT AND SESSION RECORDING
1517090	EP	97006385	HEMPY	Filed	12-Jan-09	1517090CEP0T	A METHOD AND APPARATUS TO SECURELY EMBED VOIP AND MULTIMEDIA STREAM SESSION KEYS TO ENABLE LAWFUL INTERCEPT AND SESSION RECORDING
1517090	CN	200805086251	HEMPY	Filed	12-Jan-09	1517090CEN0N	A METHOD AND APPARATUS TO SECURELY EMBED VOIP AND MULTIMEDIA STREAM SESSION KEYS TO ENABLE LAWFUL INTERCEPT AND SESSION RECORDING
1521700	EP	9166702-2	HEMPY	Filed	29-Jul-09	1521700EP01	VIDEO HEAD-END
1529890	RU	201-0410212	HEMPY	Filed	28-Jan-14	1529890RU13V	A METHOD FOR OPERATING MULTI-COMFAIR PROVIDER ETHERNET NETWORKS
1529890	RU	2011120188	HEMPY	Granted	25-Nov-09	1529890RU10N	A METHOD FOR OPERATING MULTI-COMFAIR PROVIDER ETHERNET NETWORKS
1529890	RR	10-201-7011620	HEMPY	Filed	25-Nov-09	1529890RR02N	A METHOD FOR OPERATING MULTI-COMFAIR PROVIDER ETHERNET NETWORKS
1529890	RP	201-541107	HEMPY	Filed	25-Nov-09	1529890RP14V	A METHOD FOR OPERATING MULTI-COMFAIR PROVIDER ETHERNET NETWORKS
1529890	IN	8411/CHEMP/2201	HEMPY	Filed	25-Nov-09	1529890IN07N	A METHOD FOR OPERATING MULTI-COMFAIR PROVIDER ETHERNET NETWORKS
1529890	EP	9833363	HEMPY	Filed	25-Nov-09	1529890CEP4T	A METHOD FOR OPERATING MULTI-COMFAIR PROVIDER ETHERNET NETWORKS
1529890	CN	200804493592	HEMPY	Filed	25-Nov-09	1529890CEN0N	A METHOD FOR OPERATING MULTI-COMFAIR PROVIDER ETHERNET NETWORKS
1529890	CA	2,743,001	HEMPY	Filed	25-Nov-09	1529890CA04N	A METHOD FOR OPERATING MULTI-COMFAIR PROVIDER ETHERNET NETWORKS
1529890	BR	PH029120-3	HEMPY	Filed	25-Nov-09	1529890BR03N	A METHOD FOR OPERATING MULTI-COMFAIR PROVIDER ETHERNET NETWORKS
1527090	EP	10793295	HEMPY	Filed	15-Jul-10	1527090CEP4T	METHOD AND APPARATUS FOR TELECOMMUNICATIONS NETWORK PERFORMANCE ANOMALY EVENTS DETECTION AND NOTIFICATION
1527090	CA	2,788,220	HEMPY	Filed	15-Jul-10	1527090CA02N	METHOD AND APPARATUS FOR TELECOMMUNICATIONS NETWORK PERFORMANCE ANOMALY EVENTS DETECTION AND NOTIFICATION
1527100	RU	2011124586	HEMPY	Filed	16-Dec-09	1527100RU11N	SECURE REMOTE ACCESS PUBLIC COMMUNICATION ENVIRONMENT
1527100	RR	10-201-705656	HEMPY	Filed	16-Dec-09	1527100RR01N	SECURE REMOTE ACCESS PUBLIC COMMUNICATION ENVIRONMENT
1527100	RP	201-541042	HEMPY	Granted	26-Sep-14	1527100RP09N	SECURE REMOTE ACCESS PUBLIC COMMUNICATION ENVIRONMENT
1527100	IN	4154/CHEMP/2201	HEMPY	Filed	16-Dec-09	1527100IN08N	SECURE REMOTE ACCESS PUBLIC COMMUNICATION ENVIRONMENT
1527100	EP	98227729	HEMPY	Filed	16-Dec-09	1527100CEP0T	SECURE REMOTE ACCESS PUBLIC COMMUNICATION ENVIRONMENT
1527100	CN	200805104545	HEMPY	Filed	16-Dec-09	1527100CEN0N	SECURE REMOTE ACCESS PUBLIC COMMUNICATION ENVIRONMENT
1527100	CA	2,746,341	HEMPY	Filed	16-Dec-09	1527100CA05N	SECURE REMOTE ACCESS PUBLIC COMMUNICATION ENVIRONMENT
1527100	BR	PH029120-3	HEMPY	Filed	16-Dec-09	1527100BR04N	SECURE REMOTE ACCESS PUBLIC COMMUNICATION ENVIRONMENT
1531190	RU	201-0416163	HEMPY	Filed	24-Nov-09	1531190RU14V	RESILIENT ATTACHMENT TO PROVIDER LINK STATE BRIDGING (PLS) NETWORKS
1531190	RU	2011120185	HEMPY	Granted	24-Nov-09	1531190RU10N	RESILIENT ATTACHMENT TO PROVIDER LINK STATE BRIDGING (PLS) NETWORKS
1531190	RR	10-201-7011634	HEMPY	Filed	24-Nov-09	1531190RR02N	RESILIENT ATTACHMENT TO PROVIDER LINK STATE BRIDGING (PLS) NETWORKS
1531190	RP	201-0405713	HEMPY	Filed	24-Nov-09	1531190RP15V	RESILIENT ATTACHMENT TO PROVIDER LINK STATE BRIDGING (PLS) NETWORKS
1531190	RP	201-0405714	HEMPY	Filed	24-Nov-09	1531190RP16V	RESILIENT ATTACHMENT TO PROVIDER LINK STATE BRIDGING (PLS) NETWORKS
1531190	RP	201-541096	HEMPY	Granted	24-Mar-14	1531190RP08N	RESILIENT ATTACHMENT TO PROVIDER LINK STATE BRIDGING (PLS) NETWORKS
1531190	IN	8412/CHEMP/2201	HEMPY	Filed	24-Nov-09	1531190IN07N	RESILIENT ATTACHMENT TO PROVIDER LINK STATE BRIDGING (PLS) NETWORKS
1531190	EP	9822754	HEMPY	Filed	24-Nov-09	1531190CEP4T	RESILIENT ATTACHMENT TO PROVIDER LINK STATE BRIDGING (PLS) NETWORKS
1531190	CN	20080446294	HEMPY	Filed	24-Nov-09	1531190CEN0N	RESILIENT ATTACHMENT TO PROVIDER LINK STATE BRIDGING (PLS) NETWORKS
1531190	CN	201309514878	HEMPY	Filed	24-Nov-09	1531190CN12V	RESILIENT ATTACHMENT TO PROVIDER LINK STATE BRIDGING (PLS) NETWORKS
1531190	CA	2,743,067	HEMPY	Filed	24-Nov-09	1531190CA04N	RESILIENT ATTACHMENT TO PROVIDER LINK STATE BRIDGING (PLS) NETWORKS
1531190	BR	PH029120-9	HEMPY	Filed	24-Nov-09	1531190BR03N	RESILIENT ATTACHMENT TO PROVIDER LINK STATE BRIDGING (PLS) NETWORKS
1531890	WO	PCT/CAL011/000288	HEMPY	Inactive	18-Mar-11	1531890W04W	SOURCE ROUTED VID TUNNELS FOR ETHERNET PACKET STEERING
1531890	RU	2012139871	HEMPY	Filed	18-Mar-11	1531890RU12N	SOURCE ROUTED VID TUNNELS FOR ETHERNET PACKET STEERING
1531890	RR	10-2012-702940	HEMPY	Filed	18-Mar-11	1531890RR02N	SOURCE ROUTED VID TUNNELS FOR ETHERNET PACKET STEERING
1531890	RP	201-500208	HEMPY	Filed	18-Mar-11	1531890RP13N	SOURCE ROUTED VID TUNNELS FOR ETHERNET PACKET STEERING
1531890	IN	7102/DEEMP/2202	HEMPY	Filed	18-Mar-11	1531890IN08N	SOURCE ROUTED VID TUNNELS FOR ETHERNET PACKET STEERING
1531890	EP	117587063	HEMPY	Filed	18-Mar-11	1531890CEP0T	SOURCE ROUTED VID TUNNELS FOR ETHERNET PACKET STEERING
1531890	CN	201080016151	HEMPY	Filed	18-Mar-11	1531890CEN0N	SOURCE ROUTED VID TUNNELS FOR ETHERNET PACKET STEERING
1531890	CA	2,784,456	HEMPY	Filed	18-Mar-11	1531890CA07N	SOURCE ROUTED VID TUNNELS FOR ETHERNET PACKET STEERING
1531890	BR	1_12020E12	HEMPY	Filed	18-Mar-11	1531890BR06N	SOURCE ROUTED VID TUNNELS FOR ETHERNET PACKET STEERING
1532490	RU	2011121622	HEMPY	Granted	26-Oct-09	1532490RU10N	PROVISIONED PROVIDER LINK STATE BRIDGING (PLS) WITH ROUTED BACK-UP
1532490	RR	10-2011-709593	HEMPY	Filed	26-Oct-09	1532490RR02N	PROVISIONED PROVIDER LINK STATE BRIDGING (PLS) WITH ROUTED BACK-UP
1532490	RP	201-533492	HEMPY	Filed	26-Oct-09	1532490RP08N	PROVISIONED PROVIDER LINK STATE BRIDGING (PLS) WITH ROUTED BACK-UP
1532490	IN	2899/CHEMP/2201	HEMPY	Filed	26-Oct-09	1532490IN07N	PROVISIONED PROVIDER LINK STATE BRIDGING (PLS) WITH ROUTED BACK-UP
1532490	EP	9822923	HEMPY	Filed	26-Oct-09	1532490CEP4T	PROVISIONED PROVIDER LINK STATE BRIDGING (PLS) WITH ROUTED BACK-UP
1532490	CN	20080423844	HEMPY	Filed	26-Oct-09	1532490CEN0N	PROVISIONED PROVIDER LINK STATE BRIDGING (PLS) WITH ROUTED BACK-UP
1532490	CA	2,733,382	HEMPY	Filed	26-Oct-09	1532490CA04N	PROVISIONED PROVIDER LINK STATE BRIDGING (PLS) WITH ROUTED BACK-UP
1532490	BR	PH019874-4	HEMPY	Filed	26-Oct-09	1532490BR03N	PROVISIONED PROVIDER LINK STATE BRIDGING (PLS) WITH ROUTED BACK-UP
153276A	WO	PCT/AU2010/000511	HEMPY	Inactive	6-Apr-10	153276AW02W	MONITORING EDC POLARIZATION INVERSE FILTER COEFFICIENTS TO IDENTIFY REAL-TIME PHYSICAL INTRUSION INTO A CORE OR METRO OPTICAL NETWORK
153276A	RU	2011143441	HEMPY	Filed	6-Apr-10	153276ARU10N	MONITORING EDC POLARIZATION INVERSE FILTER COEFFICIENTS TO IDENTIFY REAL-TIME PHYSICAL INTRUSION INTO A CORE OR METRO OPTICAL NETWORK
153276A	RR	10-2011-702640	HEMPY	Filed	6-Apr-10	153276ARR02N	MONITORING EDC POLARIZATION INVERSE FILTER COEFFICIENTS TO IDENTIFY REAL-TIME PHYSICAL INTRUSION INTO A CORE OR METRO OPTICAL NETWORK
153276A	RP	2012-530738	HEMPY	Filed	6-Apr-10	153276ARP08N	MONITORING EDC POLARIZATION INVERSE FILTER COEFFICIENTS TO IDENTIFY REAL-TIME PHYSICAL INTRUSION INTO A CORE OR METRO OPTICAL NETWORK
153276A	RP	201-113184	HEMPY	Filed	6-Apr-10	153276ARP12V	MONITORING EDC POLARIZATION INVERSE FILTER COEFFICIENTS TO IDENTIFY REAL-TIME PHYSICAL INTRUSION INTO A CORE OR METRO OPTICAL NETWORK
153276A	IN	6892/CHEMP/2201	HEMPY	Filed	6-Apr-10	153276AIN07N	MONITORING EDC POLARIZATION INVERSE FILTER COEFFICIENTS TO IDENTIFY REAL-TIME PHYSICAL INTRUSION INTO A CORE OR METRO OPTICAL NETWORK
153276A	EP	10792287	HEMPY	Filed	6-Apr-10	153276ACEP4T	MONITORING EDC POLARIZATION INVERSE FILTER COEFFICIENTS TO IDENTIFY REAL-TIME PHYSICAL INTRUSION INTO A CORE OR METRO OPTICAL NETWORK
153276A	CN	201080010284	HEMPY	Filed	6-Apr-10	153276ACEN0N	MONITORING EDC POLARIZATION INVERSE FILTER COEFFICIENTS TO IDENTIFY REAL-TIME PHYSICAL INTRUSION INTO A CORE OR METRO OPTICAL NETWORK
153276A	CA	2,752,246	HEMPY	Filed	6-Apr-10	153276ACA04N	MONITORING EDC POLARIZATION INVERSE FILTER COEFFICIENTS TO IDENTIFY REAL-TIME PHYSICAL INTRUSION INTO A CORE OR METRO OPTICAL NETWORK
153276A	BR	PH01047-2	HEMPY	Filed	6-Apr-10	153276ABR03N	MONITORING EDC POLARIZATION INVERSE FILTER COEFFICIENTS TO IDENTIFY REAL-TIME PHYSICAL INTRUSION INTO A CORE OR METRO OPTICAL NETWORK

15529R	FR	10-2012-0281-15	HEMPY	Filed	15-May-09	HEMPY	35529R06R	METHOD AND SYSTEM FOR TRANSMISSION OF FRAGMENTED PACKETS ON A PACKET-BASED COMMUNICATION NETWORK
15529R	JP	2011-53946	HEMPY	Granted	15-May-09	25-Apr-10	35529R07P	METHOD AND SYSTEM FOR TRANSMISSION OF FRAGMENTED PACKETS ON A PACKET-BASED COMMUNICATION NETWORK
15529R	IN	7356/CHEMP/2202	HEMPY	Filed	15-May-09	HEMPY	35529R08IN	METHOD AND SYSTEM FOR TRANSMISSION OF FRAGMENTED PACKETS ON A PACKET-BASED COMMUNICATION NETWORK
15529R	EP	2747003.0	HEMPY	Filed	15-May-09	HEMPY	35529R09EP	METHOD AND SYSTEM FOR TRANSMISSION OF FRAGMENTED PACKETS ON A PACKET-BASED COMMUNICATION NETWORK
15529R	CN	200980128277.0	HEMPY	Filed	15-May-09	HEMPY	35529R02CN	METHOD AND SYSTEM FOR TRANSMISSION OF FRAGMENTED PACKETS ON A PACKET-BASED COMMUNICATION NETWORK
15529R	BR	PI091269-0	HEMPY	Filed	15-May-09	HEMPY	35529R03BR	METHOD AND SYSTEM FOR TRANSMISSION OF FRAGMENTED PACKETS ON A PACKET-BASED COMMUNICATION NETWORK
15559R	RU	201112875	HEMPY	Filed	24-Dec-09	HEMPY	35559R01RU	WEB-BASED ACCESS TO VIDEO ASSOCIATED WITH CALLS
15559R	FR	10-2011-7011434	HEMPY	Filed	24-Dec-09	HEMPY	35559R02FR	WEB-BASED ACCESS TO VIDEO ASSOCIATED WITH CALLS
15559R	JP	2011-54206	HEMPY	Filed	24-Dec-09	HEMPY	35559R03JP	WEB-BASED ACCESS TO VIDEO ASSOCIATED WITH CALLS
15559R	EP	0	HEMPY	Filed	24-Dec-09	HEMPY	35559R04EP	WEB-BASED ACCESS TO VIDEO ASSOCIATED WITH CALLS
15559R	IN	4544/CHEMP/2201	HEMPY	Filed	24-Dec-09	HEMPY	35559R05IN	WEB-BASED ACCESS TO VIDEO ASSOCIATED WITH CALLS
15559R	EP	3834186	HEMPY	Filed	24-Dec-09	HEMPY	35559R06EP	WEB-BASED ACCESS TO VIDEO ASSOCIATED WITH CALLS
15559R	CN	200980257800.0	HEMPY	Filed	24-Dec-09	HEMPY	35559R07CN	WEB-BASED ACCESS TO VIDEO ASSOCIATED WITH CALLS
15559R	CA	2748.363	HEMPY	Filed	24-Dec-09	HEMPY	35559R08CA	WEB-BASED ACCESS TO VIDEO ASSOCIATED WITH CALLS
15559R	BR	PI092538-0	HEMPY	Filed	24-Dec-09	HEMPY	35559R09BR	WEB-BASED ACCESS TO VIDEO ASSOCIATED WITH CALLS
14240R	FR	10-2011-704837	HEMPY	Filed	1-Jun-09	HEMPY	14240R01FR	MULTILAYER LOSS PROTECTION
14240R	JP	2011-513247	HEMPY	Filed	1-Jun-09	HEMPY	14240R02JP	MULTILAYER LOSS PROTECTION
14240R	IN	543/CHEMP/2201	HEMPY	Filed	1-Jun-09	HEMPY	14240R03IN	MULTILAYER LOSS PROTECTION
14240R	EP	38002123	HEMPY	Filed	1-Jun-09	HEMPY	14240R04EP	MULTILAYER LOSS PROTECTION
14240R	CN	20098013753.0	HEMPY	Filed	1-Jun-09	HEMPY	14240R05CN	MULTILAYER LOSS PROTECTION
14240R	BR	PI091887-0	HEMPY	Filed	1-Jun-09	HEMPY	14240R06BR	MULTILAYER LOSS PROTECTION
14245R	FR	10-2011-7002788	HEMPY	Filed	27-May-09	HEMPY	14245R01FR	MULTI-TOUCH TOUCHSCREEN INCORPORATING PEN TRACKING
14245R	EP	10-2011-7002789	HEMPY	Filed	11-Jun-09	HEMPY	14245R02EP	MULTI-TOUCH TOUCHSCREEN INCORPORATING PEN TRACKING
14245R	JP	2011-511725	5411263	Granted	27-May-09	15-Nov-10	14245R03JP	MULTI-TOUCH TOUCHSCREEN INCORPORATING PEN TRACKING
14245R	IN	106/DE/MP/2201	534608	Granted	11-Jun-09	23-Aug-10	14245R04IN	MULTI-TOUCH TOUCHSCREEN INCORPORATING PEN TRACKING
14245R	BR	PI092009/06561-0	HEMPY	Filed	27-May-09	HEMPY	14245R05BR	MULTI-TOUCH TOUCHSCREEN INCORPORATING PEN TRACKING
14245R	EP	3745464.0	HEMPY	Filed	27-May-09	HEMPY	14245R06EP	MULTI-TOUCH TOUCHSCREEN INCORPORATING PEN TRACKING
14245R	JP	2011-511726	HEMPY	Filed	11-Jun-09	HEMPY	14245R07JP	MULTI-TOUCH TOUCHSCREEN INCORPORATING PEN TRACKING
14245R	CN	200980135803.0	HEMPY	Filed	11-Jun-09	HEMPY	14245R08CN	MULTI-TOUCH TOUCHSCREEN INCORPORATING PEN TRACKING
14245R	BR	PI091565-0	HEMPY	Filed	11-Jun-09	HEMPY	14245R09BR	MULTI-TOUCH TOUCHSCREEN INCORPORATING PEN TRACKING
14245R	EP	3745464.0	HEMPY	Filed	27-May-09	HEMPY	14245R10EP	MULTI-TOUCH TOUCHSCREEN INCORPORATING PEN TRACKING
14245R	BR	PI091565-0	HEMPY	Filed	27-May-09	HEMPY	14245R11BR	MULTI-TOUCH TOUCHSCREEN INCORPORATING PEN TRACKING
14242R	FR	10-2012-024314	HEMPY	Filed	27-May-09	HEMPY	14242R01FR	PROTECTED LIGHT SOURCE FOR MULTIPLE WAVELENGTH DIVISION MULTIMULATED PASSIVE OPTICAL NETWORKS (WDM PONS)
14242R	JP	2011-013423	HEMPY	Filed	27-May-09	HEMPY	14242R02JP	PROTECTED LIGHT SOURCE FOR MULTIPLE WAVELENGTH DIVISION MULTIMULATED PASSIVE OPTICAL NETWORKS (WDM PONS)
14242R	IN	501-501701	HEMPY	Filed	27-May-09	HEMPY	14242R03IN	PROTECTED LIGHT SOURCE FOR MULTIPLE WAVELENGTH DIVISION MULTIMULATED PASSIVE OPTICAL NETWORKS (WDM PONS)
14242R	EP	3739800.0	HEMPY	Filed	27-May-09	HEMPY	14242R04EP	PROTECTED LIGHT SOURCE FOR MULTIPLE WAVELENGTH DIVISION MULTIMULATED PASSIVE OPTICAL NETWORKS (WDM PONS)
14242R	CN	200980111511.0	HEMPY	Filed	27-May-09	HEMPY	14242R05CN	PROTECTED LIGHT SOURCE FOR MULTIPLE WAVELENGTH DIVISION MULTIMULATED PASSIVE OPTICAL NETWORKS (WDM PONS)
14242R	BR	PI090947-1	HEMPY	Filed	27-May-09	HEMPY	14242R06BR	PROTECTED LIGHT SOURCE FOR MULTIPLE WAVELENGTH DIVISION MULTIMULATED PASSIVE OPTICAL NETWORKS (WDM PONS)
14242R	RU	2011122728	249728	Granted	30-Dec-09	27-Oct-10	14242R07RU	BANDWIDTH EFFICIENT METHOD AND SYSTEM FOR OBSCURING THE EXISTENCE OF ENCRYPTION IN A COMMUNICATIONS CHANNEL
14242R	FR	10-2011-704549	10-1255023	Granted	30-Dec-09	10-Apr-10	14242R08FR	BANDWIDTH EFFICIENT METHOD AND SYSTEM FOR OBSCURING THE EXISTENCE OF ENCRYPTION IN A COMMUNICATIONS CHANNEL
14242R	JP	2011-131785	HEMPY	Filed	30-Dec-09	HEMPY	14242R09JP	BANDWIDTH EFFICIENT METHOD AND SYSTEM FOR OBSCURING THE EXISTENCE OF ENCRYPTION IN A COMMUNICATIONS CHANNEL
14242R	IN	2011-542336	HEMPY	Filed	30-Dec-09	HEMPY	14242R10IN	BANDWIDTH EFFICIENT METHOD AND SYSTEM FOR OBSCURING THE EXISTENCE OF ENCRYPTION IN A COMMUNICATIONS CHANNEL
14242R	BR	7361/WOL/MP/2201	HEMPY	Filed	30-Dec-09	HEMPY	14242R11BR	BANDWIDTH EFFICIENT METHOD AND SYSTEM FOR OBSCURING THE EXISTENCE OF ENCRYPTION IN A COMMUNICATIONS CHANNEL
14242R	EP	9835939	HEMPY	Filed	30-Dec-09	HEMPY	14242R12EP	BANDWIDTH EFFICIENT METHOD AND SYSTEM FOR OBSCURING THE EXISTENCE OF ENCRYPTION IN A COMMUNICATIONS CHANNEL
14242R	CN	0	HEMPY	Filed	30-Dec-09	HEMPY	14242R13CN	BANDWIDTH EFFICIENT METHOD AND SYSTEM FOR OBSCURING THE EXISTENCE OF ENCRYPTION IN A COMMUNICATIONS CHANNEL
14242R	CN	200980154699.0	10-200980154699	Granted	30-Dec-09	2-Jul-10	14242R14CN	BANDWIDTH EFFICIENT METHOD AND SYSTEM FOR OBSCURING THE EXISTENCE OF ENCRYPTION IN A COMMUNICATIONS CHANNEL
14242R	CA	2745.516	HEMPY	Filed	30-Dec-09	HEMPY	14242R15CA	BANDWIDTH EFFICIENT METHOD AND SYSTEM FOR OBSCURING THE EXISTENCE OF ENCRYPTION IN A COMMUNICATIONS CHANNEL
14242R	BR	PI092346-0	HEMPY	Filed	30-Dec-09	HEMPY	14242R16BR	BANDWIDTH EFFICIENT METHOD AND SYSTEM FOR OBSCURING THE EXISTENCE OF ENCRYPTION IN A COMMUNICATIONS CHANNEL
14249R	WO	PC1/US/01/037733	HEMPY	Inactive	8-Jun-10	HEMPY	14249R01WO	TECHNIQUES FOR ROUTING DATA BETWEEN NETWORK AREAS
14249R	RU	2011153500	HEMPY	Filed	8-Jun-10	HEMPY	14249R02RU	TECHNIQUES FOR ROUTING DATA BETWEEN NETWORK AREAS
14249R	FR	PC1/US/01/037733	HEMPY	Filed	8-Jun-10	HEMPY	14249R03FR	TECHNIQUES FOR ROUTING DATA BETWEEN NETWORK AREAS
14249R	JP	2011-515063	HEMPY	Filed	8-Jun-10	HEMPY	14249R04JP	TECHNIQUES FOR ROUTING DATA BETWEEN NETWORK AREAS
14249R	IN	8762/CHEMP/2201	HEMPY	Filed	8-Jun-10	HEMPY	14249R05IN	TECHNIQUES FOR ROUTING DATA BETWEEN NETWORK AREAS
14249R	EP	10766573	HEMPY	Filed	8-Jun-10	HEMPY	14249R06EP	TECHNIQUES FOR ROUTING DATA BETWEEN NETWORK AREAS
14249R	CN	2010600257928	HEMPY	Filed	8-Jun-10	HEMPY	14249R07CN	TECHNIQUES FOR ROUTING DATA BETWEEN NETWORK AREAS
14249R	CA	2764.692	HEMPY	Filed	8-Jun-10	HEMPY	14249R08CA	TECHNIQUES FOR ROUTING DATA BETWEEN NETWORK AREAS
14249R	BR	BR112001000198-1	HEMPY	Filed	8-Jun-10	HEMPY	14249R09BR	TECHNIQUES FOR ROUTING DATA BETWEEN NETWORK AREAS
14246R	RU	2011121621	251743	Granted	26-Oct-09	27-May-10	14246R01RU	PROVIDER LINK STATE BRIDGING (PLSB) COMPUTATION METHOD
14246R	FR	10-2011-7009634	HEMPY	Filed	26-Oct-09	HEMPY	14246R02FR	PROVIDER LINK STATE BRIDGING (PLSB) COMPUTATION METHOD
14246R	JP	2011-209161	HEMPY	Filed	26-Oct-09	HEMPY	14246R03JP	PROVIDER LINK STATE BRIDGING (PLSB) COMPUTATION METHOD
14246R	IN	2011-539493	5385284	Granted	26-Oct-09	11-Oct-10	14246R04IN	PROVIDER LINK STATE BRIDGING (PLSB) COMPUTATION METHOD
14246R	BR	2592/CHEMP/2201	HEMPY	Filed	26-Oct-09	HEMPY	14246R05BR	PROVIDER LINK STATE BRIDGING (PLSB) COMPUTATION METHOD
14246R	EP	3922948	HEMPY	Filed	26-Oct-09	HEMPY	14246R06EP	PROVIDER LINK STATE BRIDGING (PLSB) COMPUTATION METHOD
14246R	CN	201040957341.2	HEMPY	Filed	26-Oct-09	HEMPY	14246R07CN	PROVIDER LINK STATE BRIDGING (PLSB) COMPUTATION METHOD
14246R	CN	200980142382.5	200980142382.5	Granted	26-Oct-09	2-Aug-10	14246R08CN	PROVIDER LINK STATE BRIDGING (PLSB) COMPUTATION METHOD
14246R	CA	2742.775	HEMPY	Filed	26-Oct-09	HEMPY	14246R09CA	PROVIDER LINK STATE BRIDGING (PLSB) COMPUTATION METHOD
14246R	BR	PI091963-0	HEMPY	Filed	26-Oct-09	HEMPY	14246R10BR	PROVIDER LINK STATE BRIDGING (PLSB) COMPUTATION METHOD
14246R	FR	10-2012-027913	HEMPY	Filed	12-May-09	HEMPY	14246R11FR	A MECHANISM TO DIVERT AN IP FLOW OVER A NON-IP TRANSPORT
14246R	JP	2011-244967	HEMPY	Filed	12-May-09	HEMPY	14246R12JP	A MECHANISM TO DIVERT AN IP FLOW OVER A NON-IP TRANSPORT
14246R	IN	2011-508780	542582	Granted	12-May-09	6-Dec-10	14246R13IN	A MECHANISM TO DIVERT AN IP FLOW OVER A NON-IP TRANSPORT
14246R	BR	7336/CHEMP/2202	HEMPY	Filed	12-May-09	HEMPY	14246R14BR	A MECHANISM TO DIVERT AN IP FLOW OVER A NON-IP TRANSPORT
14246R	EP	8064217	HEMPY	Filed	12-May-09	HEMPY	14246R15EP	A MECHANISM TO DIVERT AN IP FLOW OVER A NON-IP TRANSPORT
14246R	EP	37453433	HEMPY	Filed	12-May-09	HEMPY	14246R16EP	A MECHANISM TO DIVERT AN IP FLOW OVER A NON-IP TRANSPORT
14246R	CN	200980227338.8	HEMPY	Filed	12-May-09	HEMPY	14246R17CN	A MECHANISM TO DIVERT AN IP FLOW OVER A NON-IP TRANSPORT
14246R	BR	PI091261-0	HEMPY	Filed	12-May-09	HEMPY	14246R18BR	A MECHANISM TO DIVERT AN IP FLOW OVER A NON-IP TRANSPORT
15513D	FR	10-2011-705921	HEMPY	Filed	22-Jun-09	HEMPY	15513D01FR	PROTECTION FOR PROVIDER BACKBONE BRIDGE TRAFFIC ENGINEERING
15513D	JP	2011-528880	5485538	Granted	22-Jun-09	28-Feb-10	15513D02JP	PROTECTION FOR PROVIDER BACKBONE BRIDGE TRAFFIC ENGINEERING
15513D	IN	1552/CHEMP/2201	HEMPY	Filed	22-Jun-09	HEMPY	15513D03IN	PROTECTION FOR PROVIDER BACKBONE BRIDGE TRAFFIC ENGINEERING
15513D	EP	3813394.0	HEMPY	Filed	22-Jun-09	HEMPY	15513D04EP	PROTECTION FOR PROVIDER BACKBONE BRIDGE TRAFFIC ENGINEERING
15513D	CN	200980155626.0	HEMPY	Filed	22-Jun-09	HEMPY	15513D05CN	PROTECTION FOR PROVIDER BACKBONE BRIDGE TRAFFIC ENGINEERING
15513D	CA	2735.000	HEMPY	Filed	22-Jun-09	HEMPY	15513D06CA	PROTECTION FOR PROVIDER BACKBONE BRIDGE TRAFFIC ENGINEERING
15515R	FR	10-2011-702193	HEMPY	Filed	30-Nov-09	HEMPY	15515R01FR	IN-BAND SIGNALING FOR POINT-TO-POINT PACKET PROTECTION SWITCHING
15515R	EP	3828845.0	HEMPY	Filed	30-Nov-09	HEMPY	15515R02EP	IN-BAND SIGNALING FOR POINT-TO-POINT PACKET PROTECTION SWITCHING
15515R	CN	200980147386.0	HEMPY	Filed	30-Nov-09	HEMPY	15515R03CN	IN-BAND SIGNALING FOR POINT-TO-POINT PACKET PROTECTION SWITCHING
15515R	CA	2742.272	HEMPY	Filed	30-Nov-09	HEMPY	15515R04CA	IN-BAND SIGNALING FOR POINT-TO-POINT PACKET PROTECTION SWITCHING
15567D	WO	PC1/GB/01/000152	HEMPY	Inactive	27-Aug-10	HEMPY	15567D01WO	METHOD AND SYSTEM FOR CONTROLLING ESTABLISHMENT OF COMMUNICATION CHANNELS IN A CONTACT CENTRE

Year	Country	Project ID	Project Name	Status	Start Date	End Date	Phase	Priority	Category	Description
1995	RU	201211380	HEMPY	Filed	27-Aug-10		HEMPY		199570R01UN	METHOD AND SYSTEM FOR CONTROLLING ESTABLISHMENT OF COMMUNICATION CHANNELS IN A CONTACT CENTRE
1995	FR	10-2012-700788	HEMPY	Filed	27-Aug-10		HEMPY		199570R09RN	METHOD AND SYSTEM FOR CONTROLLING ESTABLISHMENT OF COMMUNICATION CHANNELS IN A CONTACT CENTRE
1995	JP	2012-52817	HEMPY	Granted	27-Aug-10	21-Apr-14	HEMPY		199570P09N	METHOD AND SYSTEM FOR CONTROLLING ESTABLISHMENT OF COMMUNICATION CHANNELS IN A CONTACT CENTRE
1995	IN	3547/CHEMP/2202	HEMPY	Filed	27-Aug-10		HEMPY		199570P07N	METHOD AND SYSTEM FOR CONTROLLING ESTABLISHMENT OF COMMUNICATION CHANNELS IN A CONTACT CENTRE
1995	EP	20752854.8	HEMPY	Filed	27-Aug-10		HEMPY		199570E06T	METHOD AND SYSTEM FOR CONTROLLING ESTABLISHMENT OF COMMUNICATION CHANNELS IN A CONTACT CENTRE
1995	CN	20080089292.9	HEMPY	Filed	27-Aug-10		HEMPY		199570C06SN	METHOD AND SYSTEM FOR CONTROLLING ESTABLISHMENT OF COMMUNICATION CHANNELS IN A CONTACT CENTRE
1995	CA	2,771,197	HEMPY	Filed	27-Aug-10		HEMPY		199570C04SN	METHOD AND SYSTEM FOR CONTROLLING ESTABLISHMENT OF COMMUNICATION CHANNELS IN A CONTACT CENTRE
1995	BR	BR11 2012.004481.8	HEMPY	Filed	27-Aug-10		HEMPY		199570B09RN	METHOD AND SYSTEM FOR CONTROLLING ESTABLISHMENT OF COMMUNICATION CHANNELS IN A CONTACT CENTRE
1957	FR	10-2011-700285	HEMPY	Filed	30-Jun-09		HEMPY		19570R09RN	SIGNALING OF THE OFFSET PARAMETERS FOR THE FORMULA FOR LINKAGE BETWEEN PUSHINCS AND AMOUNT OF RESOURCES USED FOR CONTROL
1957	JP	2011-512813	HEMPY	Filed	30-Jun-09		HEMPY		19570R09PTN	SIGNALING OF THE OFFSET PARAMETERS FOR THE FORMULA FOR LINKAGE BETWEEN PUSHINCS AND AMOUNT OF RESOURCES USED FOR CONTROL
1957	IN	4742/W/COMP/2202	HEMPY	Filed	30-Jun-09		HEMPY		19570R09DN	SIGNALING OF THE OFFSET PARAMETERS FOR THE FORMULA FOR LINKAGE BETWEEN PUSHINCS AND AMOUNT OF RESOURCES USED FOR CONTROL
1957	EP	9774345.8	HEMPY	Filed	30-Jun-09		HEMPY		19570R09E0T	SIGNALING OF THE OFFSET PARAMETERS FOR THE FORMULA FOR LINKAGE BETWEEN PUSHINCS AND AMOUNT OF RESOURCES USED FOR CONTROL
1957	CN	20080125232	HEMPY	Filed	30-Jun-09		HEMPY		19570R09C04SN	SIGNALING OF THE OFFSET PARAMETERS FOR THE FORMULA FOR LINKAGE BETWEEN PUSHINCS AND AMOUNT OF RESOURCES USED FOR CONTROL
1957	BR	PI0913036-3	HEMPY	Filed	30-Jun-09		HEMPY		19570R09B09RN	SIGNALING OF THE OFFSET PARAMETERS FOR THE FORMULA FOR LINKAGE BETWEEN PUSHINCS AND AMOUNT OF RESOURCES USED FOR CONTROL
1957	WO	PCT/CA2010/006095	HEMPY	Inactive	7-Jun-10		HEMPY		19570W002W	PERSONAL STATUS COMMUNICATIONS MANAGER
1957	RU	2011153021	HEMPY	Filed	7-Jun-10		HEMPY		19570R091UN	PERSONAL STATUS COMMUNICATIONS MANAGER
1957	FR	10-2011-0205194	HEMPY	Filed	7-Jun-10		HEMPY		19570R090RN	PERSONAL STATUS COMMUNICATIONS MANAGER
1957	JP	2012-517984	HEMPY	Filed	7-Jun-10		HEMPY		19570R090PN	PERSONAL STATUS COMMUNICATIONS MANAGER
1957	IN	3548/CHEMP/2201	HEMPY	Filed	7-Jun-10		HEMPY		19570R0907N	PERSONAL STATUS COMMUNICATIONS MANAGER
1957	EP	10739531.1	HEMPY	Filed	7-Jun-10		HEMPY		19570R090EPT	PERSONAL STATUS COMMUNICATIONS MANAGER
1957	CN	20080089550.2	HEMPY	Filed	7-Jun-10		HEMPY		19570R0906SN	PERSONAL STATUS COMMUNICATIONS MANAGER
1957	CA	2,778,198	HEMPY	Filed	7-Jun-10		HEMPY		19570R0904SN	PERSONAL STATUS COMMUNICATIONS MANAGER
1957	BR	PI1013953-2	HEMPY	Filed	7-Jun-10		HEMPY		19570R0909RN	PERSONAL STATUS COMMUNICATIONS MANAGER
1957	RU	2011129887	HEMPY	Filed	3-Dec-09		HEMPY		19570R0911UN	MULTIPLE REDUNDANT GNSS SYNCHRONIZATION SYSTEM
1957	FR	10-2011-7015384	HEMPY	Filed	3-Dec-09		HEMPY		19570R0909RN	MULTIPLE REDUNDANT GNSS SYNCHRONIZATION SYSTEM
1957	JP	2011-538813	HEMPY	Filed	3-Dec-09		HEMPY		19570R0909PN	MULTIPLE REDUNDANT GNSS SYNCHRONIZATION SYSTEM
1957	IN	2014-212585	HEMPY	Filed	3-Dec-09		HEMPY		19570R09092V	MULTIPLE REDUNDANT GNSS SYNCHRONIZATION SYSTEM
1957	BR	4229/CHEMP/2201	HEMPY	Filed	3-Dec-09		HEMPY		19570R090906N	MULTIPLE REDUNDANT GNSS SYNCHRONIZATION SYSTEM
1957	EP	9829339.9	HEMPY	Filed	3-Dec-09		HEMPY		19570R0909E0T	MULTIPLE REDUNDANT GNSS SYNCHRONIZATION SYSTEM
1957	CN	20080156351.9	HEMPY	Filed	3-Dec-09		HEMPY		19570R090906SN	MULTIPLE REDUNDANT GNSS SYNCHRONIZATION SYSTEM
1957	CA	2,745,369	HEMPY	Filed	3-Dec-09		HEMPY		19570R090904SN	MULTIPLE REDUNDANT GNSS SYNCHRONIZATION SYSTEM
1957	BR	PI0923158-0	HEMPY	Filed	3-Dec-09		HEMPY		19570R090909RN	MULTIPLE REDUNDANT GNSS SYNCHRONIZATION SYSTEM
1957	WO	PCT/CA2010/000098	HEMPY	Inactive	23-Jun-10		HEMPY		19570W002W	UTILIZING BETWEENNESS TO DETERMINE FORWARDING STATE IN A ROUTED NETWORK
1957	FR	107911083	HEMPY	Filed	23-Jun-10		HEMPY		19570R0909E0T	UTILIZING BETWEENNESS TO DETERMINE FORWARDING STATE IN A ROUTED NETWORK
1957	CN	20080089282.8	HEMPY	Filed	23-Jun-10		HEMPY		19570R090906SN	UTILIZING BETWEENNESS TO DETERMINE FORWARDING STATE IN A ROUTED NETWORK
1957	WO	PCT/CA2010/001090	HEMPY	Inactive	14-Jul-10		HEMPY		19570W002W	DEVICE PROGRAMMABLE NETWORK BASED PACKET FILTER
1957	FR	2012-7002666	HEMPY	Filed	14-Jul-10		HEMPY		19570R09092RN	DEVICE PROGRAMMABLE NETWORK BASED PACKET FILTER
1957	JP	2012-519855	HEMPY	Granted	14-Jul-10	3-Oct-14	HEMPY		19570R0911UN	DEVICE PROGRAMMABLE NETWORK BASED PACKET FILTER
1957	IN	129/CHEMP/2202	HEMPY	Filed	14-Jul-10		HEMPY		19570R090906N	DEVICE PROGRAMMABLE NETWORK BASED PACKET FILTER
1957	GB	10/069393.5 2 276 277	HEMPY	Granted	13-Jul-10	21-Aug-13	HEMPY		19570R090913E	DEVICE PROGRAMMABLE NETWORK BASED PACKET FILTER
1957	FR	10/069393.5 2 276 277	HEMPY	Granted	13-Jul-10	21-Aug-13	HEMPY		19570R090913E	DEVICE PROGRAMMABLE NETWORK BASED PACKET FILTER
1957	EP	10/069393.5 2 276 277	HEMPY	Inactive	13-Jul-10	21-Aug-13	HEMPY		19570R090909E	DEVICE PROGRAMMABLE NETWORK BASED PACKET FILTER
1957	DE	6 02004E+11 2 276 277	HEMPY	Granted	13-Jul-10	21-Aug-13	HEMPY		19570R090909E13E	DEVICE PROGRAMMABLE NETWORK BASED PACKET FILTER
1957	CN	20080089824.8	HEMPY	Filed	14-Jul-10		HEMPY		19570R09090906SN	DEVICE PROGRAMMABLE NETWORK BASED PACKET FILTER
1957	CA	2,757,454	HEMPY	Filed	14-Jul-10		HEMPY		19570R09090906SN	DEVICE PROGRAMMABLE NETWORK BASED PACKET FILTER
1957	RU	201127315	HEMPY	Filed	22-Dec-09		HEMPY		19570R090911UN	SELECTIVE DATABASE REPLICATION
1957	FR	10-2011-7012716	HEMPY	Filed	22-Dec-09		HEMPY		19570R090909RN	SELECTIVE DATABASE REPLICATION
1957	JP	2011-541587	HEMPY	Granted	22-Dec-09	4-Apr-14	HEMPY		19570R090909RN	SELECTIVE DATABASE REPLICATION
1957	IN	4227/CHEMP/2201	HEMPY	Filed	22-Dec-09		HEMPY		19570R090907N	SELECTIVE DATABASE REPLICATION
1957	EP	9841186.5	HEMPY	Filed	22-Dec-09		HEMPY		19570R0909E0T	SELECTIVE DATABASE REPLICATION
1957	CN	20140433361.5	HEMPY	Filed	22-Dec-09		HEMPY		19570R090911V	SELECTIVE DATABASE REPLICATION
1957	CN	20080151892.9	HEMPY	Filed	22-Dec-09		HEMPY		19570R09090906SN	SELECTIVE DATABASE REPLICATION
1957	CA	2,745,683	HEMPY	Filed	22-Dec-09		HEMPY		19570R09090906SN	SELECTIVE DATABASE REPLICATION
1957	BR	PI0923479-0	HEMPY	Filed	22-Dec-09		HEMPY		19570R09090909RN	SELECTIVE DATABASE REPLICATION
1957	RU	2011131697	HEMPY	Filed	22-Dec-09		HEMPY		19570R09090909RN	COLLABORATION AGENT
1957	FR	10-2011-7015076	HEMPY	Filed	22-Dec-09		HEMPY		19570R09090909RN	COLLABORATION AGENT
1957	JP	2011-542913	HEMPY	Filed	22-Dec-09		HEMPY		19570R09090909RN	COLLABORATION AGENT
1957	JP	2014-154508	HEMPY	Filed	22-Dec-09		HEMPY		19570R090912V	COLLABORATION AGENT
1957	IN	3547/CHEMP/2201	HEMPY	Filed	22-Dec-09		HEMPY		19570R090907N	COLLABORATION AGENT
1957	EP	9836145.4	HEMPY	Filed	22-Dec-09		HEMPY		19570R0909E0T	COLLABORATION AGENT
1957	CA	2,745,472	HEMPY	Filed	22-Dec-09		HEMPY		19570R09090906SN	COLLABORATION AGENT
1957	BR	PI0923829-0	HEMPY	Filed	22-Dec-09		HEMPY		19570R09090909RN	COLLABORATION AGENT
1957	FR	10-2011-7005690	HEMPY	Filed	29-Jul-09		HEMPY		19570R090909RN	UTILIZING OPTICAL BYPASS LINKS IN A COMMUNICATION NETWORK
1957	FR	2011-528881	HEMPY	Filed	29-Jul-09		HEMPY		19570R090909RN	UTILIZING OPTICAL BYPASS LINKS IN A COMMUNICATION NETWORK
1957	IN	1589/CHEMP/2201	HEMPY	Filed	29-Jul-09		HEMPY		19570R090907N	UTILIZING OPTICAL BYPASS LINKS IN A COMMUNICATION NETWORK
1957	GB	9813404.3 2 382 989	HEMPY	Granted	29-Jul-09	4-Sep-13	HEMPY		19570R09090909RN	UTILIZING OPTICAL BYPASS LINKS IN A COMMUNICATION NETWORK
1957	FR	9813404.3 2 382 989	HEMPY	Granted	29-Jul-09	4-Sep-13	HEMPY		19570R09090909RN	UTILIZING OPTICAL BYPASS LINKS IN A COMMUNICATION NETWORK
1957	EP	13192752.9	HEMPY	Filed	29-Jul-09		HEMPY		19570R090912V	UTILIZING OPTICAL BYPASS LINKS IN A COMMUNICATION NETWORK
1957	EP	9813404.3 2 382 989	HEMPY	Inactive	29-Jul-09	4-Sep-13	HEMPY		19570R0909E0T	UTILIZING OPTICAL BYPASS LINKS IN A COMMUNICATION NETWORK
1957	DE	9813404.3 2 382 989	HEMPY	Granted	29-Jul-09	4-Sep-13	HEMPY		19570R09090909RN	UTILIZING OPTICAL BYPASS LINKS IN A COMMUNICATION NETWORK
1957	CN	20080035628.8	HEMPY	Filed	29-Jul-09		HEMPY		19570R09090906SN	UTILIZING OPTICAL BYPASS LINKS IN A COMMUNICATION NETWORK
1957	BR	PI0919728-6	HEMPY	Filed	29-Jul-09		HEMPY		19570R09090909RN	UTILIZING OPTICAL BYPASS LINKS IN A COMMUNICATION NETWORK
1957	WO	PCT/CA2010/000697	HEMPY	Inactive	23-Jun-10		HEMPY		19570W002W	MOBILE FAST ALERTING
1957	JP	2012-516448	HEMPY	Granted	23-Jun-10	11-Jul-14	HEMPY		19570R090909RN	MOBILE FAST ALERTING
1957	EP	107911075	HEMPY	Filed	23-Jun-10		HEMPY		19570R0909E0T	MOBILE FAST ALERTING
1957	WO	PCT/FR2011/059243	HEMPY	Inactive	28-Nov-11		HEMPY		19570W002W	DUAL MODE BASE STATION
1957	RU	2013130009	HEMPY	Filed	28-Nov-11		HEMPY		19570R0911UN	DUAL MODE BASE STATION
1957	FR	10-2012-7015947	HEMPY	Filed	28-Nov-11		HEMPY		19570R090909RN	DUAL MODE BASE STATION
1957	JP	2013-541424	HEMPY	Filed	28-Nov-11		HEMPY		19570R090909RN	DUAL MODE BASE STATION
1957	IN	4513/CHEMP/2202	HEMPY	Filed	28-Nov-11		HEMPY		19570R090907N	DUAL MODE BASE STATION
1957	EP	11808275.9	HEMPY	Filed	28-Nov-11		HEMPY		19570R0909E0T	DUAL MODE BASE STATION
1957	CN	201150068177.1	HEMPY	Filed	28-Nov-11		HEMPY		19570R09090906SN	DUAL MODE BASE STATION
1957	CA	2,817,195	HEMPY	Filed	28-Nov-11		HEMPY		19570R09090906SN	DUAL MODE BASE STATION
1957	BR	BR112013013006-7	HEMPY	Filed	28-Nov-11		HEMPY		19570R09090909RN	DUAL MODE BASE STATION
1957	FR	10-2011-7009795	HEMPY	Filed	1-Oct-09		HEMPY		19570R090909RN	TECHNIQUES FOR TIME TRANSFER VIA SIGNAL ENCODING
1957	JP	2011-529426	HEMPY	Filed	1-Oct-09		HEMPY		19570R090909RN	TECHNIQUES FOR TIME TRANSFER VIA SIGNAL ENCODING
1957	IN	1455/W/COMP/2201	HEMPY	Filed	1-Oct-09		HEMPY		19570R090907N	TECHNIQUES FOR TIME TRANSFER VIA SIGNAL ENCODING
1957	EP	9817414.8	HEMPY	Filed	1-Oct-09		HEMPY		19570R0909E0T	TECHNIQUES FOR TIME TRANSFER VIA SIGNAL ENCODING
1957	CN	20080146216.6 1206080104216	HEMPY	Granted	1-Oct-09	23-Apr-14	HEMPY		19570R09090906SN	TECHNIQUES FOR TIME TRANSFER VIA SIGNAL ENCODING

Application Number	State	Applicant	Agency	Priority	Status	Effective Date	Expiration Date	Class	Description
157590	CA	2,744,578	HEMPHY	Filed	1-01-09	HEMPHY	1809R0C00LN	TECHNIQUES FOR TIME TRANSFER VIA SIGNAL ENCODING	
157590	BR	10620795-6	HEMPHY	Filed	1-01-09	HEMPHY	1809R0C00RN	TECHNIQUES FOR TIME TRANSFER VIA SIGNAL ENCODING	
157590	WO	PCT/CA2010/000524	HEMPHY	Inactive	9-4Apr-10	HEMPHY	157590C002W	ENHANCED COMMUNICATION BRIDGE	
157590	JP	2012-539840	HEMPHY	552953	Granted	9-4Apr-10	25-Apr-14	157590C007Y	ENHANCED COMMUNICATION BRIDGE
157590	EP	10781163	HEMPHY	Filed	9-4Apr-10	HEMPHY	157590C008T	ENHANCED COMMUNICATION BRIDGE	
157590	CN	20106025387.5	HEMPHY	Filed	9-4Apr-10	HEMPHY	157590C005N	ENHANCED COMMUNICATION BRIDGE	
157590	CA	2,758,154	HEMPHY	Filed	9-4Apr-10	HEMPHY	157590C004N	ENHANCED COMMUNICATION BRIDGE	
157590	AU	2010394200	HEMPHY	Filed	9-4Apr-10	HEMPHY	157590C003N	ENHANCED COMMUNICATION BRIDGE	
157590	WO	PCT/CA2010/000595	HEMPHY	Filed	18-Jun-10	HEMPHY	157590C002W	METHOD AND APPARATUS FOR IMPLEMENTING CONTROL OF MULTIPLE PHYSICALLY DUAL-HOME DEVICES	
157590	EP	10788936	HEMPHY	Filed	18-Jun-10	HEMPHY	157590C008T	METHOD AND APPARATUS FOR IMPLEMENTING CONTROL OF MULTIPLE PHYSICALLY DUAL-HOME DEVICES	
157590	CN	20106025388.1	HEMPHY	Filed	18-Jun-10	HEMPHY	157590C005N	METHOD AND APPARATUS FOR IMPLEMENTING CONTROL OF MULTIPLE PHYSICALLY DUAL-HOME DEVICES	
157590	WO	PCT/EP2010/058883	HEMPHY	Inactive	23-Jun-10	HEMPHY	157590W002W	ANALYSIS OF PACKET-BASED VIDEO CONTENT	
157590	RU	2012710492	HEMPHY	Filed	23-Jun-10	HEMPHY	157590R011N	ANALYSIS OF PACKET-BASED VIDEO CONTENT	
157590	BR	10-2012-000295	HEMPHY	Filed	23-Jun-10	HEMPHY	157590R009R	ANALYSIS OF PACKET-BASED VIDEO CONTENT	
157590	JP	2012-516710	HEMPHY	Filed	23-Jun-10	HEMPHY	157590P008R	ANALYSIS OF PACKET-BASED VIDEO CONTENT	
157590	IN	9867/CHEMP/2011	HEMPHY	Filed	23-Jun-10	HEMPHY	157590I007N	ANALYSIS OF PACKET-BASED VIDEO CONTENT	
157590	EP	10728132.5	HEMPHY	Filed	23-Jun-10	HEMPHY	157590E008T	ANALYSIS OF PACKET-BASED VIDEO CONTENT	
157590	CN	20106025503.3	HEMPHY	Filed	23-Jun-10	HEMPHY	157590C005N	ANALYSIS OF PACKET-BASED VIDEO CONTENT	
157590	CA	2,765,289	HEMPHY	Filed	23-Jun-10	HEMPHY	157590C004N	ANALYSIS OF PACKET-BASED VIDEO CONTENT	
157590	BR	PI025020-2	HEMPHY	Filed	23-Jun-10	HEMPHY	157590B009R	ANALYSIS OF PACKET-BASED VIDEO CONTENT	
157590	WO	PCT/AU2011/003669	HEMPHY	Inactive	5-Nov-11	HEMPHY	157590W002W	METHOD AND SYSTEM FOR PROVIDING RELEVANT INFORMATION TO A MOBILE DEVICE	
157590	BR	10-2011-701552	HEMPHY	Filed	5-Nov-11	HEMPHY	157590B009R	METHOD AND SYSTEM FOR PROVIDING RELEVANT INFORMATION TO A MOBILE DEVICE	
157590	JP	2011-541105	HEMPHY	Filed	5-Nov-11	HEMPHY	157590P007N	METHOD AND SYSTEM FOR PROVIDING RELEVANT INFORMATION TO A MOBILE DEVICE	
157590	IN	3516/CHEMP/2011	HEMPHY	Filed	5-Nov-11	HEMPHY	157590I006N	METHOD AND SYSTEM FOR PROVIDING RELEVANT INFORMATION TO A MOBILE DEVICE	
157590	EP	11787382.5	HEMPHY	Filed	5-Nov-11	HEMPHY	157590E008T	METHOD AND SYSTEM FOR PROVIDING RELEVANT INFORMATION TO A MOBILE DEVICE	
157590	CN	201100150126.0	HEMPHY	Filed	5-Nov-11	HEMPHY	157590C004N	METHOD AND SYSTEM FOR PROVIDING RELEVANT INFORMATION TO A MOBILE DEVICE	
157590	CA	2,854,729	HEMPHY	Filed	5-Nov-11	HEMPHY	157590C003N	METHOD AND SYSTEM FOR PROVIDING RELEVANT INFORMATION TO A MOBILE DEVICE	
157590	BR	BR11200110101-9	HEMPHY	Filed	5-Nov-11	HEMPHY	157590B009R	METHOD AND SYSTEM FOR PROVIDING RELEVANT INFORMATION TO A MOBILE DEVICE	
157590	RU	2011120064	HEMPHY	2,516,321	Granted	3-Nov-09	24-Mar-12	157590R011N	USER EQUIPMENT CENTRIC CLUSTERING METHOD SUITABLE FOR COORDINATED MULTI-POINT TRANSMISSION AND RECEPTION
157590	BR	2011-7009160	HEMPHY	Filed	3-Nov-09	HEMPHY	157590B009R	USER EQUIPMENT CENTRIC CLUSTERING METHOD SUITABLE FOR COORDINATED MULTI-POINT TRANSMISSION AND RECEPTION	
157590	JP	2011-533409	HEMPHY	Filed	3-Nov-09	HEMPHY	157590P012V	USER EQUIPMENT CENTRIC CLUSTERING METHOD SUITABLE FOR COORDINATED MULTI-POINT TRANSMISSION AND RECEPTION	
157590	IN	2011-533409	HEMPHY	54,053	Granted	3-Nov-09	15-Nov-13	157590I007N	USER EQUIPMENT CENTRIC CLUSTERING METHOD SUITABLE FOR COORDINATED MULTI-POINT TRANSMISSION AND RECEPTION
157590	EP	10782913.6	HEMPHY	Filed	3-Nov-09	HEMPHY	157590E006T	USER EQUIPMENT CENTRIC CLUSTERING METHOD SUITABLE FOR COORDINATED MULTI-POINT TRANSMISSION AND RECEPTION	
157590	CN	200901402639	HEMPHY	Filed	3-Nov-09	HEMPHY	157590C003N	USER EQUIPMENT CENTRIC CLUSTERING METHOD SUITABLE FOR COORDINATED MULTI-POINT TRANSMISSION AND RECEPTION	
157590	CA	20090140263.8	HEMPHY	20090140263.8	Granted	3-Nov-09	2-Apr-12	157590C004N	USER EQUIPMENT CENTRIC CLUSTERING METHOD SUITABLE FOR COORDINATED MULTI-POINT TRANSMISSION AND RECEPTION
157590	WO	2,742,574	HEMPHY	Filed	3-Nov-09	HEMPHY	157590C003N	USER EQUIPMENT CENTRIC CLUSTERING METHOD SUITABLE FOR COORDINATED MULTI-POINT TRANSMISSION AND RECEPTION	
157590	BR	PI0921688-0	HEMPHY	Filed	3-Nov-09	HEMPHY	157590B009R	USER EQUIPMENT CENTRIC CLUSTERING METHOD SUITABLE FOR COORDINATED MULTI-POINT TRANSMISSION AND RECEPTION	
157590	RU	2011113536	HEMPHY	Filed	5-Nov-09	HEMPHY	157590R011N	SERVICE INSTANCE APPLIED TO M2M NETWORKS	
157590	BR	10-2011-7011016	HEMPHY	Filed	5-Nov-09	HEMPHY	157590B009R	SERVICE INSTANCE APPLIED TO M2M NETWORKS	
157590	JP	2011-169297	HEMPHY	Filed	5-Nov-09	HEMPHY	157590P013V	SERVICE INSTANCE APPLIED TO M2M NETWORKS	
157590	IN	2011-538309	HEMPHY	503522	Granted	5-Nov-09	24-Oct-14	157590I008N	SERVICE INSTANCE APPLIED TO M2M NETWORKS
157590	EP	10782913.6	HEMPHY	Filed	5-Nov-09	HEMPHY	157590E006T	SERVICE INSTANCE APPLIED TO M2M NETWORKS	
157590	CN	201101965001	HEMPHY	Filed	5-Nov-09	HEMPHY	157590C012V	SERVICE INSTANCE APPLIED TO M2M NETWORKS	
157590	CN	20090145336.4	HEMPHY	Filed	5-Nov-09	HEMPHY	157590C003N	SERVICE INSTANCE APPLIED TO M2M NETWORKS	
157590	CA	2,742,735	HEMPHY	Filed	5-Nov-09	HEMPHY	157590C003N	SERVICE INSTANCE APPLIED TO M2M NETWORKS	
157590	BR	PI0921578-5	HEMPHY	Filed	5-Nov-09	HEMPHY	157590B009R	SERVICE INSTANCE APPLIED TO M2M NETWORKS	
157590	WO	PCT/EP2010/07047	HEMPHY	Inactive	22-Jan-10	HEMPHY	157590W002W	METHOD, ARRANGEMENT AND COMPUTER PROGRAM PRODUCT FOR CLOCKING	
157590	BR	20120225938	HEMPHY	251003	Granted	22-Jan-10	20-Mar-14	157590B010N	METHOD, ARRANGEMENT AND COMPUTER PROGRAM PRODUCT FOR CLOCKING
157590	EP	PCT/EP2010/07047	HEMPHY	Filed	22-Jan-10	HEMPHY	157590E009T	METHOD, ARRANGEMENT AND COMPUTER PROGRAM PRODUCT FOR CLOCKING	
157590	JP	2012-542044	HEMPHY	Filed	22-Jan-10	HEMPHY	157590P009R	METHOD, ARRANGEMENT AND COMPUTER PROGRAM PRODUCT FOR CLOCKING	
157590	IN	5028/CHEMP/2012	HEMPHY	Filed	22-Jan-10	HEMPHY	157590I007N	METHOD, ARRANGEMENT AND COMPUTER PROGRAM PRODUCT FOR CLOCKING	
157590	EP	10704101.2	HEMPHY	Filed	22-Jan-10	HEMPHY	157590E008T	METHOD, ARRANGEMENT AND COMPUTER PROGRAM PRODUCT FOR CLOCKING	
157590	CN	2010603555.8	HEMPHY	Filed	22-Jan-10	HEMPHY	157590C005N	METHOD, ARRANGEMENT AND COMPUTER PROGRAM PRODUCT FOR CLOCKING	
157590	CA	2,782,855	HEMPHY	Filed	22-Jan-10	HEMPHY	157590C004N	METHOD, ARRANGEMENT AND COMPUTER PROGRAM PRODUCT FOR CLOCKING	
157590	BR	BR112001203785-9	HEMPHY	Filed	22-Jan-10	HEMPHY	157590B009R	METHOD, ARRANGEMENT AND COMPUTER PROGRAM PRODUCT FOR CLOCKING	
157590	RU	2011128267	HEMPHY	249348	Granted	26-Nov-09	20-Sep-13	157590R010N	FREQUENCY AGILE FILTER USING USING A DIGITAL FILTER
157590	BR	10-2011-7015174	HEMPHY	Filed	26-Nov-09	HEMPHY	157590B009R	FREQUENCY AGILE FILTER USING USING A DIGITAL FILTER	
157590	JP	2011-531906	HEMPHY	546471	Granted	26-Nov-09	31-Jan-14	157590P009R	FREQUENCY AGILE FILTER USING USING A DIGITAL FILTER
157590	IN	4440/CHEMP/2011	HEMPHY	Filed	26-Nov-09	HEMPHY	157590I007N	FREQUENCY AGILE FILTER USING USING A DIGITAL FILTER	
157590	EP	10782913.6	HEMPHY	Filed	26-Nov-09	HEMPHY	157590E006T	FREQUENCY AGILE FILTER USING USING A DIGITAL FILTER	
157590	CN	20090150265.6	HEMPHY	Filed	26-Nov-09	HEMPHY	157590C005N	FREQUENCY AGILE FILTER USING USING A DIGITAL FILTER	
157590	CA	2,745,047	HEMPHY	Filed	26-Nov-09	HEMPHY	157590C004N	FREQUENCY AGILE FILTER USING USING A DIGITAL FILTER	
157590	BR	PI0922634-6	HEMPHY	Filed	26-Nov-09	HEMPHY	157590B009R	FREQUENCY AGILE FILTER USING USING A DIGITAL FILTER	
157590	WO	PCT/CA2010/001387	HEMPHY	Inactive	6-Oct-10	HEMPHY	157590W002W	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS	
157590	RU	2013142425	HEMPHY	Filed	6-Oct-10	HEMPHY	157590R012V	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS	
157590	RU	2013142479	HEMPHY	Filed	6-Oct-10	HEMPHY	157590R013V	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS	
157590	RU	2012115997	HEMPHY	250709	Granted	6-Oct-10	20-Feb-14	157590R010N	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS
157590	BR	2012-7011829	HEMPHY	Filed	6-Oct-10	HEMPHY	157590B009R	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS	
157590	JP	2012-532428	HEMPHY	Filed	6-Oct-10	HEMPHY	157590P009R	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS	
157590	IN	9130/CHEMP/2012	HEMPHY	Filed	6-Oct-10	HEMPHY	157590I007N	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS	
157590	EP	10921320.3	HEMPHY	Filed	6-Oct-10	HEMPHY	157590E008T	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS	
157590	CN	20106054800.1	HEMPHY	Filed	6-Oct-10	HEMPHY	157590C005N	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS	
157590	CA	2,776,895	HEMPHY	Filed	6-Oct-10	HEMPHY	157590C004N	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS	
157590	BR	BR112002007956-4	HEMPHY	Filed	6-Oct-10	HEMPHY	157590B009R	METHOD AND APPARATUS FOR EXCHANGING ROUTING INFORMATION AND THE ESTABLISHMENT OF CONNECTIVITY ACROSS MULTIPLE NETWORK AREAS	
157590	RU	2011128268	HEMPHY	249349	Granted	26-Nov-09	20-Sep-13	157590R010N	DSP BASED FREQUENCY AGILE FILTER USING NEGATIVE GROUP DELAY
157590	BR	10-2011-7015175	HEMPHY	Filed	26-Nov-09	HEMPHY	157590B009R	DSP BASED FREQUENCY AGILE FILTER USING NEGATIVE GROUP DELAY	
157590	JP	2011-531905	HEMPHY	502035	Granted	26-Nov-09	26-Sep-14	157590P009R	DSP BASED FREQUENCY AGILE FILTER USING NEGATIVE GROUP DELAY
157590	IN	4439/CHEMP/2011	HEMPHY	Filed	26-Nov-09	HEMPHY	157590I007N	DSP BASED FREQUENCY AGILE FILTER USING NEGATIVE GROUP DELAY	
157590	EP	1092392.2	HEMPHY	Filed	26-Nov-09	HEMPHY	157590E008T	DSP BASED FREQUENCY AGILE FILTER USING NEGATIVE GROUP DELAY	
157590	CN	20090150266.1	HEMPHY	Filed	26-Nov-09	HEMPHY	157590C005N	DSP BASED FREQUENCY AGILE FILTER USING NEGATIVE GROUP DELAY	
157590	CA	2,745,009	HEMPHY	Filed	26-Nov-09	HEMPHY	157590C004N	DSP BASED FREQUENCY AGILE FILTER USING NEGATIVE GROUP DELAY	
157590	BR	PI0922552-2	HEMPHY	Filed	26-Nov-09	HEMPHY	157590B009R	DSP BASED FREQUENCY AGILE FILTER USING NEGATIVE GROUP DELAY	
157590	WO	10-2011-7009138	HEMPHY	Filed	19-Sep-09	HEMPHY	157590W002W	METHOD AND SYSTEM FOR SPACE CODE TRANSMIT DIVERSITY OF PUSCH	
157590	JP	2011-527169	HEMPHY	553952	Granted	19-Sep-09	9-May-14	157590P009R	METHOD AND SYSTEM FOR SPACE CODE TRANSMIT DIVERSITY OF PUSCH
157590	IN	2480/CHEMP/2011	HEMPHY	Filed	19-Sep-09	HEMPHY	157590I006N	METHOD AND SYSTEM FOR SPACE CODE TRANSMIT DIVERSITY OF PUSCH	
157590	EP	1033951.2	HEMPHY	Filed	19-Sep-09	HEMPHY	157590E008T	METHOD AND SYSTEM FOR SPACE CODE TRANSMIT DIVERSITY OF PUSCH	
157590	CN	20110492720.6	HEMPHY	Filed	19-Sep-09	HEMPHY	157590C005N	METHOD AND SYSTEM FOR SPACE CODE TRANSMIT DIVERSITY OF PUSCH	

137290	CN	200901464063	200901464063	Granted	19-Sep-09	HEMPY	137290C02N	METHOD AND SYSTEM FOR SPACE CODE TRANSMIT DIVERSITY OF PULCH
137290	FR	W0915005-8		HEMPY	Filed	19-Sep-09	137290C02N	METHOD AND SYSTEM FOR SPACE CODE TRANSMIT DIVERSITY OF PULCH
138201	EP	6788395-5		HEMPY	Filed	29-Jul-08	138201EP4T	SECURIZED NETWORK IDENTITY MANAGEMENT
138201	EP	7869555-5		HEMPY	Filed	12-Dec-07	138201EP4T	DISTRIBUTED NETWORK IDENTITY MANAGEMENT
138220	WO	PCT/CA2011/000759		HEMPY	Inactive	13-Jul-11	138220WO2W	BROADBAND COHERENT AMPLIFIER USING BROADBAND TRANSDUCER
138220	FR	10-2014-700080		HEMPY	Filed	13-Jul-11	138220FR02N	BROADBAND COHERENT AMPLIFIER USING BROADBAND TRANSDUCER
138220	JP	2014-513554		HEMPY	Filed	13-Jul-11	138220JP04N	BROADBAND COHERENT AMPLIFIER USING BROADBAND TRANSDUCER
138220	EP	13865495		HEMPY	Filed	13-Jul-11	138220EP2T	BROADBAND COHERENT AMPLIFIER USING BROADBAND TRANSDUCER
138220	CN	20136072228.6		HEMPY	Filed	13-Jul-11	138220CN2N	BROADBAND COHERENT AMPLIFIER USING BROADBAND TRANSDUCER
13836A	WO	PCT/US2010/039581		HEMPY	Inactive	23-Jun-10	13836AWO2W	METHOD AND APPARATUS FOR SIMULATING MULTIBRETTING
13836A	JP	2012-517673		HEMPY	Filed	23-Jun-10	13836AJP02N	METHOD AND APPARATUS FOR SIMULATING MULTIBRETTING
13836A	EP	10797580-2		HEMPY	Filed	23-Jun-10	13836AEP4T	METHOD AND APPARATUS FOR SIMULATING MULTIBRETTING
138425	RU	2011140878		HEMPY	Filed	19-Mar-10	138425RU12N	DELIVERY OF INPUT/OUTPUT DATA WITHIN A STANDARD ATCA SYSTEM
138425	FR	10-2011-024314		HEMPY	Filed	19-Mar-10	138425FR02N	DELIVERY OF INPUT/OUTPUT DATA WITHIN A STANDARD ATCA SYSTEM
138425	JP	2012-500015	552925	Granted	19-Mar-10	25-Apr-12	138425JP08R	DELIVERY OF INPUT/OUTPUT DATA WITHIN A STANDARD ATCA SYSTEM
138425	IN	6385/CHEMP/72011		HEMPY	Filed	19-Mar-10	138425IN07N	DELIVERY OF INPUT/OUTPUT DATA WITHIN A STANDARD ATCA SYSTEM
138425	EP	10753384-7		HEMPY	Filed	19-Mar-10	138425EP02T	DELIVERY OF INPUT/OUTPUT DATA WITHIN A STANDARD ATCA SYSTEM
138425	CN	201060021217.5		HEMPY	Filed	19-Mar-10	138425CN02N	DELIVERY OF INPUT/OUTPUT DATA WITHIN A STANDARD ATCA SYSTEM
138425	CA	2,755,792		HEMPY	Filed	19-Mar-10	138425CACAN	DELIVERY OF INPUT/OUTPUT DATA WITHIN A STANDARD ATCA SYSTEM
138425	FR	PE1008877-1		HEMPY	Filed	19-Mar-10	138425FR02N	DELIVERY OF INPUT/OUTPUT DATA WITHIN A STANDARD ATCA SYSTEM
138470	WO	PCT/CA2010/006010		HEMPY	Inactive	21-Apr-10	138470WO2W	METHOD AND APPARATUS FOR ACCOMMODATING DUPLICATE MAC ADDRESS
138470	JP	2014-136447		HEMPY	Filed	28-Aug-12	138470JP05V	METHOD AND APPARATUS FOR ACCOMMODATING DUPLICATE MAC ADDRESS
138470	EP	2012-506305		HEMPY	Filed	21-Apr-10	138470EP07N	METHOD AND APPARATUS FOR ACCOMMODATING DUPLICATE MAC ADDRESS
138470	EP	10765663		HEMPY	Filed	21-Apr-10	138470EP02T	METHOD AND APPARATUS FOR ACCOMMODATING DUPLICATE MAC ADDRESS
138470	CN	201060203263.3		HEMPY	Filed	21-Apr-10	138470CN02N	METHOD AND APPARATUS FOR ACCOMMODATING DUPLICATE MAC ADDRESS
138470	CA	2,755,522		HEMPY	Filed	21-Apr-10	138470CACAN	METHOD AND APPARATUS FOR ACCOMMODATING DUPLICATE MAC ADDRESS
138470	AU	2012025067		HEMPY	Filed	21-Apr-10	138470AUSN	METHOD AND APPARATUS FOR ACCOMMODATING DUPLICATE MAC ADDRESS
13858N	WO	PCT/US2012/026288		HEMPY	Inactive	28-Aug-12	13858NWO2W	FACE TRACKING AUDIO MUTE CONTROL
139290	WO	PCT/CA2011/026338		HEMPY	Inactive	29-Jun-11	139290WO2W	METHOD AND APPARATUS FOR PRE-LOADING INFORMATION OVER A COMMUNICATION
139290	FR	10-2013-705572		HEMPY	Filed	29-Jun-11	139290FR02N	METHOD AND APPARATUS FOR PRE-LOADING INFORMATION OVER A COMMUNICATION
139290	JP	PCT/CA2011/026338		HEMPY	Filed	29-Jun-11	139290JP07N	METHOD AND APPARATUS FOR PRE-LOADING INFORMATION OVER A COMMUNICATION
139290	IN	10775/DELMP/2203		HEMPY	Filed	29-Jun-11	139290IN02N	METHOD AND APPARATUS FOR PRE-LOADING INFORMATION OVER A COMMUNICATION
139290	EP	1186854-3		HEMPY	Filed	29-Jun-11	139290EP02T	METHOD AND APPARATUS FOR PRE-LOADING INFORMATION OVER A COMMUNICATION
139290	CN	20119007373.9		HEMPY	Filed	29-Jun-11	139290CN02N	METHOD AND APPARATUS FOR PRE-LOADING INFORMATION OVER A COMMUNICATION
139290	CA	2,833,245		HEMPY	Filed	29-Jun-11	139290CACAN	METHOD AND APPARATUS FOR PRE-LOADING INFORMATION OVER A COMMUNICATION
139290	BR	1.12038412		HEMPY	Filed	29-Jun-11	139290BR02N	METHOD AND APPARATUS FOR PRE-LOADING INFORMATION OVER A COMMUNICATION
139290	WO	PCT/NO2010/001955		HEMPY	Inactive	5-Aug-10	139290WO2W	WEB BASED ACCESS TO VIDEO CONTENT ASSOCIATED WITH VOCEMAIL
139290	RU	2013104140		HEMPY	Filed	5-Aug-10	139290RU12N	WEB BASED ACCESS TO VIDEO CONTENT ASSOCIATED WITH VOCEMAIL
139290	FR	10-2013-705531		HEMPY	Filed	5-Aug-10	139290FR02N	WEB BASED ACCESS TO VIDEO CONTENT ASSOCIATED WITH VOCEMAIL
139290	JP	2013-523212		HEMPY	Filed	5-Aug-10	139290JP08N	WEB BASED ACCESS TO VIDEO CONTENT ASSOCIATED WITH VOCEMAIL
139290	IN	1780/DELMP/2203		HEMPY	Filed	5-Aug-10	139290IN07N	WEB BASED ACCESS TO VIDEO CONTENT ASSOCIATED WITH VOCEMAIL
139290	EP	1065557-1		HEMPY	Filed	5-Aug-10	139290EP02T	WEB BASED ACCESS TO VIDEO CONTENT ASSOCIATED WITH VOCEMAIL
139290	CN	2010606467.1		HEMPY	Filed	5-Aug-10	139290CN02N	WEB BASED ACCESS TO VIDEO CONTENT ASSOCIATED WITH VOCEMAIL
139290	CA	2,807,241		HEMPY	Filed	5-Aug-10	139290CACAN	WEB BASED ACCESS TO VIDEO CONTENT ASSOCIATED WITH VOCEMAIL
139290	BR	BR112013000171-7		HEMPY	Filed	5-Aug-10	139290BR02N	WEB BASED ACCESS TO VIDEO CONTENT ASSOCIATED WITH VOCEMAIL
139290	AU	201058740		HEMPY	Filed	5-Aug-10	139290AUSN	WEB BASED ACCESS TO VIDEO CONTENT ASSOCIATED WITH VOCEMAIL
139410	WO	PCT/CA2010/001388		HEMPY	Inactive	8-Sep-10	139410WO2W	ENHANCED SYMMETRIC THE BREAKING ALGORITHM
139410	FR	10-2012-705069		HEMPY	Filed	8-Sep-10	139410FR02N	ENHANCED SYMMETRIC THE BREAKING ALGORITHM
139410	JP	2012-528201	555123	Granted	8-Sep-10	30-May-14	139410JP08N	ENHANCED SYMMETRIC THE BREAKING ALGORITHM
139410	IN	2332/DELMP/2202		HEMPY	Filed	8-Sep-10	139410IN02N	ENHANCED SYMMETRIC THE BREAKING ALGORITHM
139410	EP	14175306-1		HEMPY	Filed	8-Sep-10	139410EP12V	ENHANCED SYMMETRIC THE BREAKING ALGORITHM
139410	EP	10814838-2		HEMPY	Filed	8-Sep-10	139410EP02T	ENHANCED SYMMETRIC THE BREAKING ALGORITHM
139410	CN	20106050221.8		HEMPY	Filed	8-Sep-10	139410CN11N	ENHANCED SYMMETRIC THE BREAKING ALGORITHM
139410	CA	2,777,400		HEMPY	Filed	8-Sep-10	139410CACAN	METHOD AND APPARATUS FOR SELECTING BETWEEN MULTIPLE EQUAL COST PATHS
139410	BR	1.12038412		HEMPY	Filed	8-Sep-10	139410BR02N	ENHANCED SYMMETRIC THE BREAKING ALGORITHM
139500	WO	PCT/CA2011/059421		HEMPY	Inactive	11-Jul-11	139500WO2W	AMPLIFIED LINEARIZATION USING NON-STANDARD FEEDBACK
139500	FR	10-2014-7000812		HEMPY	Filed	11-Jul-11	139500FR02N	AMPLIFIED LINEARIZATION USING NON-STANDARD FEEDBACK
139500	JP	2014-513555		HEMPY	Filed	11-Jul-11	139500JP04N	AMPLIFIED LINEARIZATION USING NON-STANDARD FEEDBACK
139500	EP	13865209-7		HEMPY	Filed	11-Jul-11	139500EP02T	AMPLIFIED LINEARIZATION USING NON-STANDARD FEEDBACK
139500	CN	20136072228.6		HEMPY	Filed	11-Jul-11	139500CN02N	AMPLIFIED LINEARIZATION USING NON-STANDARD FEEDBACK
139536	WO	PCT/US2010/051527		HEMPY	Inactive	5-Oct-10	139536WO2W	INTER-RAID BIDIRECTIONAL IP TUNNELING FOR PMP/4-FAST HANDOFF
139536	RU	2012118252		HEMPY	Filed	5-Oct-10	139536RU12N	INTER-RAID BIDIRECTIONAL IP TUNNELING FOR PMP/4-FAST HANDOFF
139536	FR	10-2012-701193		HEMPY	Filed	5-Oct-10	139536FR02N	INTER-RAID BIDIRECTIONAL IP TUNNELING FOR PMP/4-FAST HANDOFF
139536	JP	2012-532345		HEMPY	Filed	5-Oct-10	139536JP08N	INTER-RAID BIDIRECTIONAL IP TUNNELING FOR PMP/4-FAST HANDOFF
139536	IN	5097/DELMP/2202		HEMPY	Filed	5-Oct-10	139536IN07N	INTER-RAID BIDIRECTIONAL IP TUNNELING FOR PMP/4-FAST HANDOFF
139536	EP	10823558-1		HEMPY	Filed	5-Oct-10	139536EP02T	INTER-RAID BIDIRECTIONAL IP TUNNELING FOR PMP/4-FAST HANDOFF
139536	CN	20106058182		HEMPY	Filed	5-Oct-10	139536CN02N	INTER-RAID BIDIRECTIONAL IP TUNNELING FOR PMP/4-FAST HANDOFF
139536	CA	2,777,047		HEMPY	Filed	5-Oct-10	139536CACAN	INTER-RAID BIDIRECTIONAL IP TUNNELING FOR PMP/4-FAST HANDOFF
139536	BR	112012008018-0		HEMPY	Filed	5-Oct-10	139536BR02N	INTER-RAID BIDIRECTIONAL IP TUNNELING FOR PMP/4-FAST HANDOFF
139580	WO	PCT/CA2011/000211		HEMPY	Inactive	25-Feb-11	139580WO2W	METHOD AND APPARATUS FOR REDUCING THE CONTRIBUTION OF NOISE TO DIGITALLY SAMPLED SIGNALS
139580	RU	2012138955		HEMPY	Filed	25-Feb-11	139580RU12N	METHOD AND APPARATUS FOR REDUCING THE CONTRIBUTION OF NOISE TO DIGITALLY SAMPLED SIGNALS
139580	FR	10-2012-702043		HEMPY	Filed	25-Feb-11	139580FR02N	METHOD AND APPARATUS FOR REDUCING THE CONTRIBUTION OF NOISE TO DIGITALLY SAMPLED SIGNALS
139580	JP	2012-555345		HEMPY	Filed	25-Feb-11	139580JP08N	METHOD AND APPARATUS FOR REDUCING THE CONTRIBUTION OF NOISE TO DIGITALLY SAMPLED SIGNALS
139580	IN	6688/DELMP/2202		HEMPY	Filed	25-Feb-11	139580IN07N	METHOD AND APPARATUS FOR REDUCING THE CONTRIBUTION OF NOISE TO DIGITALLY SAMPLED SIGNALS
139580	EP	11752366-3		HEMPY	Filed	25-Feb-11	139580EP02T	METHOD AND APPARATUS FOR REDUCING THE CONTRIBUTION OF NOISE TO DIGITALLY SAMPLED SIGNALS
139580	CN	201100120121		HEMPY	Filed	25-Feb-11	139580CN02N	METHOD AND APPARATUS FOR REDUCING THE CONTRIBUTION OF NOISE TO DIGITALLY SAMPLED SIGNALS
139580	CA	2,781,506		HEMPY	Filed	25-Feb-11	139580CACAN	METHOD AND APPARATUS FOR REDUCING THE CONTRIBUTION OF NOISE TO DIGITALLY SAMPLED SIGNALS
139580	BR	1.12038412		HEMPY	Filed	25-Feb-11	139580BR02N	METHOD AND APPARATUS FOR REDUCING THE CONTRIBUTION OF NOISE TO DIGITALLY SAMPLED SIGNALS
139590	WO	PCT/US2012/025552		HEMPY	Inactive	17-Feb-12	139590WO2W	NEXT-HOP COMPUTATION FUNCTIONS FOR EQUAL COST MULTIPATH PACKET SWITCHING NETWORKS
139590	FR	10-2013-701532		HEMPY	Filed	17-Feb-12	139590FR02N	NEXT-HOP COMPUTATION FUNCTIONS FOR EQUAL COST MULTIPATH PACKET SWITCHING NETWORKS
139590	JP	2013-554624		HEMPY	Filed	17-Feb-12	139590JP08N	NEXT-HOP COMPUTATION FUNCTIONS FOR EQUAL COST MULTIPATH PACKET SWITCHING NETWORKS
139590	IN	6437/DELMP/2203		HEMPY	Filed	17-Feb-12	139590IN07N	NEXT-HOP COMPUTATION FUNCTIONS FOR EQUAL COST MULTIPATH PACKET SWITCHING NETWORKS
139590	EP	12748815-1		HEMPY	Filed	17-Feb-12	139590EP02T	NEXT-HOP COMPUTATION FUNCTIONS FOR EQUAL COST MULTIPATH PACKET SWITCHING NETWORKS
139590	CN	201280049366		HEMPY	Filed	17-Feb-12	139590CN02N	NEXT-HOP COMPUTATION FUNCTIONS FOR EQUAL COST MULTIPATH PACKET SWITCHING NETWORKS
139590	CA	2,820,765		HEMPY	Filed	17-Feb-12	139590CACAN	NEXT-HOP COMPUTATION FUNCTIONS FOR EQUAL COST MULTIPATH PACKET SWITCHING NETWORKS
139590	BR	1.12038412		HEMPY	Filed	17-Feb-12	139590BR02N	NEXT-HOP COMPUTATION FUNCTIONS FOR EQUAL COST MULTIPATH PACKET SWITCHING NETWORKS
2000065	WO	PCT/CA2010/061121		HEMPY	Filed	25-Nov-14	2000065WO2W	ETHERNET PACKET TRUNK AGGREGATION FOR DATA CENTERS
2000065	WO	PCT/CA2010/061125		HEMPY	Filed	27-Nov-14	2000065WO2W	SOFTWARE-DEFINED NETWORKING DISCOVERY PROTOCOL FOR OPEN FLOW ENABLED SWITCHES
64012	JP	27892959		HEMPY	Filed	13-Oct-03	64012	MULTIPLYING OF COMMUNICATIONS SERVICES ON A VIRTUAL SERVICE PATH IN AN ATM NETWORK OR THE LIKE

Part No.	Rev.	Quantity	Part Name	Material	Plant	Effective Date	Part Name	Description
B4036	RL	107.163	HEMPY	Filter	29-Sep-93	HEMPY	B4036	SYSTEM HAVING CENTRAL PROCESSOR FOR TRANSMITTING GENERIC PACKETS TO ANOTHER PROCESSOR TO BE ALTERED AND TRANSMITTING ALTERED PACKETS BACK TO CENTRAL PROCESSOR FOR ROUTING
B4037	SB	99597592.1	135 888	Granted	9-Dec-95	13-AJ-95	B4037	APPARATUS AND METHOD FOR LIMITING UNAUTHORIZED ACCESS TO A NETWORK MULTICAST
B4037	FR	99597592.1	135 888	Granted	9-Dec-95	13-AJ-95	B4037	APPARATUS AND METHOD FOR LIMITING UNAUTHORIZED ACCESS TO A NETWORK MULTICAST
B4037	DE	99597592.1	69941062.2	Granted	9-Dec-95	13-AJ-95	B4037	APPARATUS AND METHOD FOR LIMITING UNAUTHORIZED ACCESS TO A NETWORK MULTICAST
B4035	SB	311286.5	111 860	Granted	15-Dec-00	54-Nov-95	B4035	LINK-LEVEL REDUNDANCY SUPPORT FOR AUTOMATIC PROTECTION SWITCHING USING MPLS
B4035	FR	311286.5	111 860	Granted	15-Dec-00	54-Nov-95	B4035	LINK-LEVEL REDUNDANCY SUPPORT FOR AUTOMATIC PROTECTION SWITCHING USING MPLS
B4035	DE	311286.5	60029828.8	Granted	15-Dec-00	54-Nov-95	B4035	LINK-LEVEL REDUNDANCY SUPPORT FOR AUTOMATIC PROTECTION SWITCHING USING MPLS
B4057	SB	302446.1	062 803	Granted	24-Feb-00	20-Mar-99	B4057	REDUCING CONVERGE TIME BY A PROTOCOL INDEPENDENT MULTICAST (PIM), ROUTER
B4057	FR	302446.1	062 803	Granted	24-Feb-00	20-Mar-99	B4057	REDUCING CONVERGE TIME BY A PROTOCOL INDEPENDENT MULTICAST (PIM), ROUTER
B4057	DE	302446.1	60043718.3	Granted	24-Feb-00	20-Mar-99	B4057	REDUCING CONVERGE TIME BY A PROTOCOL INDEPENDENT MULTICAST (PIM), ROUTER
B4081	SB	202894.2	1 079 570	Granted	19-Aug-00	29-Nov-98	B4081	NETWORK DATA ROUTING PROTECTION CYCLES FOR AUTOMATIC PROTECTION SWITCHING
B4081	FR	202894.2	1 079 570	Granted	19-Aug-00	29-Nov-98	B4081	NETWORK DATA ROUTING PROTECTION CYCLES FOR AUTOMATIC PROTECTION SWITCHING
B4081	DE	60020751.08	1 079 570	Granted	19-Aug-00	29-Nov-98	B4081	NETWORK DATA ROUTING PROTECTION CYCLES FOR AUTOMATIC PROTECTION SWITCHING
B4081	CA	2,311,105	2,311,105	Granted	2-Jun-00	17-Feb-99	B4081	NETWORK DATA ROUTING PROTECTION CYCLES FOR AUTOMATIC PROTECTION SWITCHING
B4010	SB	650271.2	1 07 507	Granted	1-Sep-00	25-Jun-98	B4010	FAST PATH FORWARDING OF LINK STATE ADVERTISEMENTS USING MULTICAST ADDRESSING
B4010	FR	650271.2	1 07 507	Granted	1-Sep-00	25-Jun-98	B4010	FAST PATH FORWARDING OF LINK STATE ADVERTISEMENTS USING MULTICAST ADDRESSING
B4010	DE	650271.2	60059928.8	Granted	1-Sep-00	25-Jun-98	B4010	FAST PATH FORWARDING OF LINK STATE ADVERTISEMENTS USING MULTICAST ADDRESSING
B4010	CA	2,310,946	2,310,946	Granted	2-Jun-00	20-Aug-99	B4010	FAST PATH FORWARDING OF LINK STATE ADVERTISEMENTS USING MULTICAST ADDRESSING
B4057	SB	307072.3	0 79 578	Granted	19-Aug-00	27-Feb-13	B4057	MANAGING CALLS OVER A DATA NETWORK
B4057	FR	307072.3	0 79 578	Granted	19-Aug-00	27-Feb-13	B4057	MANAGING CALLS OVER A DATA NETWORK
B4057	EP	307072.3	0 79 578	Inactive	19-Aug-00	27-Feb-13	B4057	MANAGING CALLS OVER A DATA NETWORK
B4057	DE	307072.3	0 79 578	Granted	19-Aug-00	27-Feb-13	B4057	MANAGING CALLS OVER A DATA NETWORK
B4057	CA	2,316,435	2,316,435	Granted	19-Aug-00	22-Apr-98	B4057	CODING RESOURCE SELECTION FOR PACKET VOICE
B4067	SB	308344.8	0 69 262	Granted	11-Oct-00	14-Sep-95	B4067	APPARATUS AND METHOD OF MAINTAINING TRIPLE TOPOLOGY DATA WITHIN A LINK STATE ROUTING NETWORK
B4067	FR	308344.8	0 69 262	Granted	11-Oct-00	14-Sep-95	B4067	APPARATUS AND METHOD OF MAINTAINING TRIPLE TOPOLOGY DATA WITHIN A LINK STATE ROUTING NETWORK
B4067	DE	308344.8	60022620.6	Granted	11-Oct-00	14-Sep-95	B4067	APPARATUS AND METHOD OF MAINTAINING TRIPLE TOPOLOGY DATA WITHIN A LINK STATE ROUTING NETWORK
B4067	CA	2,310,524	2,310,524	Granted	2-Jun-00	15-Nov-11	B4067	APPARATUS AND METHOD OF MAINTAINING TRIPLE TOPOLOGY DATA WITHIN A LINK STATE ROUTING NETWORK
PR017	SB	58420381.1	0 996 304	Granted	19-Oct-98	14-Mar-97	PR017	METHOD AND APPARATUS FOR SETTING UP A CONNECTION TO A TARGET BASE STATION IN A CELLULAR OR CORELESS MOBILE COMMUNICATIONS SYSTEM
PR017	FR	58420381.1	0 996 304	Granted	19-Oct-98	14-Mar-97	PR017	METHOD AND APPARATUS FOR SETTING UP A CONNECTION TO A TARGET BASE STATION IN A CELLULAR OR CORELESS MOBILE COMMUNICATIONS SYSTEM
PR017	DE	58420381.1	69837332.2	Granted	19-Oct-98	14-Mar-97	PR017	METHOD AND APPARATUS FOR SETTING UP A CONNECTION TO A TARGET BASE STATION IN A CELLULAR OR CORELESS MOBILE COMMUNICATIONS SYSTEM
PR023	SB	39597677.1	0 99 515	Granted	29-Jun-93	14-Aug-92	PR023	ANY CELLULAR NETWORK - SELF TUNING NETWORK METHOD AND DEVICE FOR SELECTING PARAMETERS IN A CELLULAR RADIO COMMUNICATION NETWORK PROCEDE ET DISPOSITIF DE SELECTION DE PARAMETRES DANS UN RESEAU CELLULAIRE DE RADIOCOMMUNICATION
PR023	FR	39597677.1	2780523	Granted	29-Jun-93	14-Aug-92	PR023	ANY CELLULAR NETWORK - SELF TUNING NETWORK PROCEDE ET DISPOSITIF DE SELECTION DE PARAMETRES DANS UN RESEAU CELLULAIRE DE RADIOCOMMUNICATION
PR023	DE	39597677.1	69902542.7	Granted	29-Jun-93	14-Aug-92	PR023	ANY CELLULAR NETWORK - SELF TUNING NETWORK METHOD AND DEVICE FOR SELECTING PARAMETERS IN A CELLULAR RADIO COMMUNICATION NETWORK PROCEDE ET DISPOSITIF DE SELECTION DE PARAMETRES DANS UN RESEAU CELLULAIRE DE RADIOCOMMUNICATION
H03044	CA	2,213,728	2,213,728	Granted	30-Oct-97	20-Aug-92	H03044	CALLER INFORMATION (CLI) CONTROLLED AUTOMATIC ANSWER FEATURE FOR TELEPHONE
H01118	CA	2,254,803	2,254,803	Granted	1-Dec-98	24-Feb-94	H01118	SYSTEM AND METHOD FOR PROVIDING NOTIFICATION OF A RECEIVED ELECTRONIC MAIL MESSAGE
B0063	SB	9122571.1	2 260 883	Inactive	24-Oct-91	21-Jun-85	B0063	CLOCK RECOVERY FROM A MANCHESTER ENCODED FRAME
B0110	SB	9218587.2	2 269 073	Inactive	23-Jul-92	13-Jun-88	B0110	REMOTE LINE TESTER
B0110	FR	9309090	9309090	Inactive	22-Jul-93	5-Apr-88	B0110	REMOTE LINE TESTER
B0140	SB	9404867.5	2 276 787	Granted	14-Mar-94	23-Oct-86	B0140	TRANSMISSION SYSTEM INCORPORATING OPTICAL AMPLIFIERS
B0140	EP	94301700.5	0 617 527	Inactive	14-Mar-94	15-Apr-90	B0140	TRANSMISSION SYSTEM INCORPORATING OPTICAL AMPLIFIERS
B0152	SB	98900343.1	0 808 546	Granted	5-Feb-96	23-May-91	B0152	TELECOMMUNICATIONS SYSTEM
B0152	FR	98900343.1	0 808 546	Granted	5-Feb-96	23-May-91	B0152	TELECOMMUNICATIONS SYSTEM
B0152	DE	98900343.1	696 12 361.2	Granted	5-Feb-96	23-May-91	B0152	TELECOMMUNICATIONS SYSTEM
B0155	SB	9312509.5	2 272 698	Granted	22-Jun-93	9-Oct-88	B0155	TELECOMMUNICATIONS SYSTEMS
B0162	JP	6-28815		Granted	31-Jan-94	31-Oct-89	B0162	OPTICALLY AMPLIFIED TRANSMISSION SYSTEMS
B0162	SB	9400876	2 274 751	Granted	18-Jan-94	6-Nov-88	B0162	OPTICALLY AMPLIFIED TRANSMISSION SYSTEMS
B0162	FR	9401026	2701179	Granted	31-Jan-94	24-Nov-89	B0162	OPTICALLY AMPLIFIED TRANSMISSION SYSTEMS
B0162	DE	44 02 428.2	44 02 428.2	Granted	27-Jan-94	18-Jun-89	B0162	OPTICALLY AMPLIFIED TRANSMISSION SYSTEMS
B0205	EP	94301062.6	0 656 550	Inactive	10-Oct-94	16-Dec-78	B0205	OPTICALLY INTEGRATED POLARISATION CONVERTER & CONTROLLER
B0212	SB	94218107.8	2 282 831	Granted	31-Oct-94	6-Nov-88	B0212	OPTICAL FIBRE ELEMENTS
B0260	JP	26213795		Granted	14-Sep-95	7-Mar-85	B0260	INTERACTIVE VIDEO SYSTEM
B0260	FR	95360646.4	0 702 492	Granted	30-Aug-95	20-Mar-79	B0260	INTERACTIVE VIDEO SYSTEM
B0260	DE	95360646.4	695 07 410.5	Granted	30-Aug-95	20-Mar-79	B0260	INTERACTIVE VIDEO SYSTEM
B0269	SB	95922673.5	768893	Granted	21-Jun-95	05-Sep-78	B0269	TELECOMMUNICATIONS SYSTEM
B0269	FR	9412506.5	229080	Granted	22-Jun-94	18-Jun-89	B0269	TELECOMMUNICATIONS SYSTEM
B0269	FR	95922673.5	768893	Granted	21-Jun-95	05-Sep-78	B0269	TELECOMMUNICATIONS SYSTEM
B0269	DE	95922673.5	69504676.6	Granted	21-Jun-95	05-Sep-78	B0269	TELECOMMUNICATIONS SYSTEM
B0269	CA	2,192,100	2,192,100	Granted	21-Jun-95	28-Nov-90	B0269	DETECTION OF A LOW LEVEL MARSHALLING SEQUENCE
B0356	SB	96958904.0	0 842 573	Granted	29-Jul-96	5-Dec-91	B0356	BROADCAST VIDEO DESYNCHRONISER
B0356	FR	96958904.0	0 842 573	Granted	29-Jul-96	5-Dec-91	B0356	BROADCAST VIDEO DESYNCHRONISER
B0356	DE	96958904.0	696 17 695.5	Granted	29-Jul-96	5-Dec-91	B0356	BROADCAST VIDEO DESYNCHRONISER
B0373	JP	9-590963		Granted	18-Aug-96	24-Dec-94	B0373	DIGITAL TRANSMISSION SYSTEM
B0373	SB	96927805.0	0 845 185	Granted	18-Aug-96	7-Mar-91	B0373	DIGITAL TRANSMISSION SYSTEM
B0373	FR	96927805.0	0 845 185	Granted	18-Aug-96	7-Mar-91	B0373	DIGITAL TRANSMISSION SYSTEM
B0373	DE	96927805.0	696 12 004.6	Granted	18-Aug-96	7-Mar-91	B0373	DIGITAL TRANSMISSION SYSTEM
B0373	CA	2,211,215	2,211,215	Granted	18-Aug-96	17-Apr-91	B0373	DIGITAL TRANSMISSION SYSTEM
B0405	SB	96944959.7	0 867 086	Granted	13-Dec-96	6-Feb-92	B0405	INTERACTIVE SERVICES
B0405	FR	96944959.7	0 867 086	Granted	13-Dec-96	6-Feb-92	B0405	INTERACTIVE SERVICES
B0405	DE	96944959.7	696 19 133.4	Granted	13-Dec-96	6-Feb-92	B0405	INTERACTIVE SERVICES
B0433	JP	06-309739		Granted	24-Oct-97	5-Jan-97	B0433	AN EXCHANGE SWITCHING SYSTEM FOR A COMMUNICATION NETWORK AND A METHOD OF ROUTING TRAFFIC
B0438	SB	97980405	0 888 700	Granted	21-Mar-97	16-Oct-92	B0438	METHOD FOR CHARGING IN A DATA COMMUNICATION NETWORK
B0438	FR	97980405	0 888 700	Granted	21-Mar-97	16-Oct-92	B0438	METHOD FOR CHARGING IN A DATA COMMUNICATION NETWORK
B0438	DE	97980405	697 16 412.8	Granted	21-Mar-97	16-Oct-92	B0438	METHOD FOR CHARGING IN A DATA COMMUNICATION NETWORK
B0480	SE	97958993.0	0 849 990	Granted	4-Aug-97	12-Feb-93	B0480	COMMUNICATIONS NETWORK MONITORING
B0480	JP	2069-121769		Granted	6-Mar-93	31-Jul-93	B0480	COMMUNICATIONS NETWORK MONITORING
B0480	SB	97958993.0	0 849 990	Granted	4-Aug-97	12-Feb-93	B0480	COMMUNICATIONS NETWORK MONITORING
B0480	FR	97958993.0	0 849 990	Granted	4-Aug-97	12-Feb-93	B0480	COMMUNICATIONS NETWORK MONITORING
B0480	DE	97958993.0	697 19 002.1	Granted	4-Aug-97	12-Feb-93	B0480	COMMUNICATIONS NETWORK MONITORING
B0480	CA	2,221,541	2,221,541	Granted	15-Nov-97	21-Nov-96	B0480	COMMUNICATIONS NETWORK MONITORING
B0486	SB	9608968.5		Granted	12-Feb-96	5-Jul-93	B0486	COMMUNICATIONS IN A DISTRIBUTION NETWORK
B0493	SB	9702571.2	2 310 113	Granted	7-Feb-97	5-Apr-90	B0493	A BIDIRECTIONAL COMMUNICATIONS NETWORK
B0507	SB	97303284.0	0 797 374	Granted	21-Mar-97	24-Nov-94	B0507	SYNCHRONOUS TRANSMISSION SYSTEM ADAPTED TO CARRY BOTH SYNCHRONOUS AND ASYNCHRONOUS TRAFFIC
B0507	FR	97303284.0	0 797 374	Granted	21-Mar-97	24-Nov-94	B0507	SYNCHRONOUS TRANSMISSION SYSTEM ADAPTED TO CARRY BOTH SYNCHRONOUS AND ASYNCHRONOUS TRAFFIC
B0507	DE	97303284.0	69731202	Granted	21-Mar-97	24-Nov-94	B0507	SYNCHRONOUS TRANSMISSION SYSTEM ADAPTED TO CARRY BOTH SYNCHRONOUS AND ASYNCHRONOUS TRAFFIC
B0532	JP	504961098		Granted	3-Jul-97	14-Jul-96	B0532	TELECOMMUNICATIONS SYSTEM
B0532	FR	97929415.4	0 906 525	Granted	3-Jul-97	24-Nov-94	B0532	ATM TELECOMMUNICATIONS SYSTEMS AND METHOD FOR ROUTING NARROW BAND TRAFFIC
B0532	SB	96143867.2	0 314 955	Granted	5-Jul-96	14-Nov-90	B0532	TELECOMMUNICATIONS SYSTEM
B0532	FR	97929415.4	0 906 525	Granted	3-Jul-97	24-Nov-94	B0532	ATM TELECOMMUNICATIONS SYSTEMS AND METHOD FOR ROUTING NARROW BAND TRAFFIC
B0532	EP	4028292.5	HEMPY	Filed	4-Oct-94	HEMPY	B0532	TELECOMMUNICATIONS SYSTEM

00951	DE	99707345	6919563	Granted	19-Mar-99	28-Jul-94	00951	CARRYING SPEECH BAND SIGNALS OVER A POWER LINE COMMUNICATIONS SYSTEM
00952	SB	207297	207297	Granted	17-Mar-98	29-Jul-99	00952	SIGNAL COUPLER UNIT
00994	SB	9810583.6	2 337 429	Granted	15-May-98	29-Jul-99	00994	TELECOMMUNICATIONS SYSTEM
01068	JP	5821217200	443122	Granted	9-Nov-99	15-Jan-99	01068	MANAGING INTERNET PROTOCOL CONNECTION ORIENTED SERVICES
01068	SB	9954152.6	1 129 557	Granted	9-Nov-99	16-Aug-94	01068	MANAGING INTERNET PROTOCOL CONNECTION ORIENTED SERVICES
01068	FR	9954152.6	1 129 557	Granted	9-Nov-99	16-Aug-94	01068	MANAGING INTERNET PROTOCOL CONNECTION ORIENTED SERVICES
01068	DE	9954152.6	6919563	Granted	9-Nov-99	16-Aug-94	01068	MANAGING INTERNET PROTOCOL CONNECTION ORIENTED SERVICES
01068	CA	2,950,711	2,950,711	Granted	9-Nov-99	30-Jul-97	01068	MANAGING INTERNET PROTOCOL CONNECTION ORIENTED SERVICES
01081	CA	2,289,294	2,289,294	Granted	17-Nov-99	13-Jan-99	01081	VOICE OVER INTERNET PROTOCOL NETWORK ARCHITECTURE
01008	JP	4-10222	290620	Granted	29-Jan-92	30-Jul-99	01008	SYSTEM FOR TRANSMITTING AND RECEIVING AURAL INFORMATION AND MODULATED DATA
01008	JP	11-108872	356395	Granted	16-Apr-99	11-Jun-94	01008	SYSTEM FOR TRANSMITTING AND RECEIVING AURAL INFORMATION AND MODULATED DATA
01008	SB	92101304	0 496 427	Inactive	24-Jan-92	9-Jan-92	01008	SYSTEM FOR TRANSMITTING AND RECEIVING AURAL INFORMATION AND MODULATED DATA
01008	FR	92101304	0 496 427	Inactive	24-Jan-92	9-Jan-92	01008	SYSTEM FOR TRANSMITTING AND RECEIVING AURAL INFORMATION AND MODULATED DATA
01008	EP	92101304	0 496 427	Inactive	24-Jan-92	9-Jan-92	01008	SYSTEM FOR TRANSMITTING AND RECEIVING AURAL INFORMATION AND MODULATED DATA
01008	DE	92101304	6923332	Inactive	24-Jan-92	9-Jan-92	01008	SYSTEM FOR TRANSMITTING AND RECEIVING AURAL INFORMATION AND MODULATED DATA
010005	FR	Family member of 9612	10-300869	Assigned Round 2				Method of making a capacitor for an integrated circuit
010005	FR	Family member of 9612	362784	Assigned Round 2				Method of making a capacitor for an integrated circuit
010044	JP	6-626424	4382876	Granted	14-Feb-96	2-Oct-99	010044	CAPACITOR STRUCTURE FOR AN INTEGRATED CIRCUIT AND METHOD OF FABRICATION THEREOF
010103	EP	9416113	0 705 478	Inactive	18-May-94	22-Sep-99	010103	SPEECH RECOGNITION METHOD USING A TWO-PASS SEARCH
010103	CA	2,263,264	2,263,264	Granted	14-Aug-97	28-Aug-96	010103	INTERNET-BASED TELEPHONE CALL MANAGER
010107	SE	9830921	0 304 942	Granted	24-Nov-98	18-Apr-97	010107	SYSTEM AND METHOD FOR COMMUNICATION SESSION DISPOSITION RESPONSE TO EVENTS IN A TELECOMMUNICATIONS NETWORK AND THE INTERNET
010107	SB	9830921	0 304 942	Granted	24-Nov-98	18-Apr-97	010107	SYSTEM AND METHOD FOR COMMUNICATION SESSION DISPOSITION RESPONSE TO EVENTS IN A TELECOMMUNICATIONS NETWORK AND THE INTERNET
010107	FR	9830921	0 304 942	Granted	24-Nov-98	18-Apr-97	010107	SYSTEM AND METHOD FOR COMMUNICATION SESSION DISPOSITION RESPONSE TO EVENTS IN A TELECOMMUNICATIONS NETWORK AND THE INTERNET
010107	FI	9830921	0 304 942	Granted	24-Nov-98	18-Apr-97	010107	SYSTEM AND METHOD FOR COMMUNICATION SESSION DISPOSITION RESPONSE TO EVENTS IN A TELECOMMUNICATIONS NETWORK AND THE INTERNET
010107	DE	9830921	6983792	Granted	24-Nov-98	18-Apr-97	010107	SYSTEM AND METHOD FOR COMMUNICATION SESSION DISPOSITION RESPONSE TO EVENTS IN A TELECOMMUNICATIONS NETWORK AND THE INTERNET
010107	CA	2,251,459	2,251,459	Granted	23-Oct-98	25-May-94	010107	SYSTEM AND METHOD FOR COMMUNICATION SESSION DISPOSITION RESPONSE TO EVENTS IN A TELECOMMUNICATIONS NETWORK AND THE INTERNET
010118	CA	2,246,312	2,246,312	Granted	29-Jul-98	26-Jul-94	010118	CALL PICKUP HOLD DISRUPTIVE RINGS SERVICE
010136	CA	2,246,136	2,246,136	Granted	31-Aug-98	11-Jul-96	010136	NETWORK INTERCONNECTED COMPUTING DEVICE, SERVER AND NOTIFICATION METHOD
010137	CA	2,246,192	2,246,192	Granted	31-Aug-98	22-Feb-95	010137	METHOD AND DEVICE FOR BRIDGING DATA TELEPHONE NETWORKS
010139	CA	2,246,139	2,246,139	Granted	31-Aug-98	4-Dec-97	010139	METHOD AND DEVICES FOR PROVIDING NETWORK SERVICES FROM SEVERAL SERVERS
010143	SB	99306045	1 009 343	Granted	28-Jul-99	25-Jul-97	010143	METHOD AND APPARATUS FOR AUTOMATIC CALL SETUP IN DIFFERENT NETWORK DOMAINS
010143	FR	99306045	1 009 343	Granted	28-Jul-99	25-Jul-97	010143	METHOD AND APPARATUS FOR AUTOMATIC CALL SETUP IN DIFFERENT NETWORK DOMAINS
010143	DE	99306045	6993662	Granted	28-Jul-99	25-Jul-97	010143	METHOD AND APPARATUS FOR AUTOMATIC CALL SETUP IN DIFFERENT NETWORK DOMAINS
010143	CA	2,288,564	2,288,564	Granted	9-Apr-99	12-Jul-95	010143	METHOD AND APPARATUS FOR AUTOMATIC CALL SETUP IN DIFFERENT NETWORK
010141	NX	961094	22052	Granted	6-Feb-96	24-May-94	010141	LONG DISTANCE SERVICES BUREAU
010150	CA	2,251,154	2,251,154	Granted	19-Oct-98	7-Jan-93	010150	SYSTEM FOR MANAGING AN AUDIO CONFERENCE
010182	SB	99301965	0 942 277	Granted	15-Mar-99	19-Jan-11	010182	METHOD AND SYSTEM FOR ASSIGNING MULTIPLE DIRECTORY NUMBERS (DN) TO A PERSONAL COMMUNICATION SYSTEM (PCS) TELEPHONE
010182	FR	99301965	0 942 277	Granted	15-Mar-99	19-Jan-11	010182	METHOD AND SYSTEM FOR ASSIGNING MULTIPLE DIRECTORY NUMBERS (DN) TO A PERSONAL COMMUNICATION SYSTEM (PCS) TELEPHONE
010182	DE	99301965	0 942 277	Granted	15-Mar-99	19-Jan-11	010182	METHOD AND SYSTEM FOR ASSIGNING MULTIPLE DIRECTORY NUMBERS (DN) TO A PERSONAL COMMUNICATION SYSTEM (PCS) TELEPHONE
010190	EP	3720993	HEMPY	Filed	2-Jun-93		010190	METHOD AND SYSTEM FOR HANDLING MISSED CALLS
010115	SB	99308716	0 999 712	Granted	3-Nov-99	24-Dec-98	010115	MULTI-MEDIA CHANNEL MANAGEMENT THROUGH PSTN SIGNALLING
010115	FR	99308716	0 999 712	Granted	3-Nov-99	24-Dec-98	010115	MULTI-MEDIA CHANNEL MANAGEMENT THROUGH PSTN SIGNALLING
010115	DE	99308716	0 999 712	Granted	3-Nov-99	24-Dec-98	010115	MULTI-MEDIA CHANNEL MANAGEMENT THROUGH PSTN SIGNALLING
010156	SB	9931303	1 208 682	Granted	7-Jun-00	6-Oct-94	010156	METHODS AND SYSTEM FOR CONTROLLING NETWORK GATEKEEPER MESSAGE PROCESSING
010156	FR	9931303	1 208 682	Granted	7-Jun-00	6-Oct-94	010156	METHODS AND SYSTEM FOR CONTROLLING NETWORK GATEKEEPER MESSAGE PROCESSING
010156	EP	4071362	HEMPY	Filed	23-Jul-04		010156	METHODS AND SYSTEM FOR CONTROLLING NETWORK GATEKEEPER MESSAGE PROCESSING
010156	DE	9931303	60014677.4	Granted	7-Jun-00	6-Oct-94	010156	METHODS AND SYSTEM FOR CONTROLLING NETWORK GATEKEEPER MESSAGE PROCESSING
020234	FR	875129	875129	Inactive	2-Sep-87	2-Sep-87	020234	DISPLAY ADD-ON BASE FOR A TELEPHONE SET
020245	FR	870683	870683	Inactive	19-Oct-87	19-Oct-87	020245	TELEPHONE HANDETS
020516	JP	4-115464	303732	Granted	8-Apr-92	21-Jan-90	020516	ROTATING-ACCESS ATN-STM PACKET SWITCH
020516	CA	2,061,850	2,061,850	Inactive	26-Feb-92	2-Aug-94	020516	ROTATING-ACCESS ATN-STM PACKET SWITCH
020520	SB	91211441	0 250 665	Inactive	4-Oct-91	31-Aug-94	020520	IMPROVED CALL SETUP IN A COMMUNICATION SYSTEM WITH DYNAMIC CHANNEL ALLOCAT.
020542	SG	9920692.2	3398	Granted	19-Jun-96	19-Jun-96	020542	SPONTANEOUS CALL WAITING IDENTIFICATION
020542	JP	04-21632	29278	Granted	22-Jul-92	22-Oct-99	020542	SPONTANEOUS CALL WAITING IDENTIFICATION
020542	HK	9300522	961816	Granted	9-Sep-96	3-Oct-99	020542	SPONTANEOUS CALL WAITING IDENTIFICATION
020542	SB	9213060.6	2259113	Inactive	19-Jun-92	4-Jan-95	020542	SPONTANEOUS CALL WAITING IDENTIFICATION
020587	JP	05-2062	3291350	Granted	25-Mar-93	22-Mar-92	020587	METHOD AND APPARATUS FOR TESTING DIGITAL SYSTEMS
020743	EP	99304463	0 578 374	Inactive	8-Jun-99	2-Dec-98	020743	METHOD AND APPARATUS FOR PROVIDING A PERSONAL LOCATOR, ACCESS CONTROL AND ASSET TRACKING SERVICE USING AN IN-BUILDING TELENETWORK
020745	SB	99207646	0 587 575	Inactive	3-Apr-92	26-May-99	020745	TELEPHONE LINE INTERFACE CIRCUIT WITH VOLTAGE SWITCHING
020745	FR	99207646	0 587 575	Inactive	3-Apr-92	26-May-99	020745	TELEPHONE LINE INTERFACE CIRCUIT WITH VOLTAGE SWITCHING
020745	EP	99207646	0 587 575	Inactive	3-Apr-92	26-May-99	020745	TELEPHONE LINE INTERFACE CIRCUIT WITH VOLTAGE SWITCHING
020745	DE	99207646	69222968.3	Inactive	3-Apr-92	26-May-99	020745	TELEPHONE LINE INTERFACE CIRCUIT WITH VOLTAGE SWITCHING
020745	CA	2,105,376	2,105,376	Inactive	3-Apr-92	19-Feb-97	020745	TELEPHONE LINE INTERFACE CIRCUIT WITH VOLTAGE SWITCHING
020770	EP	94117291	0 641 136	Inactive	2-Nov-94	12-Sep-92	020770	LOW POWER WIRELESS SYSTEM FOR TELEPHONE SERVICES
020772	JP	6-76464	3426023	Granted	22-Mar-94	9-May-93	020772	INTEGRATED CIRCUIT PACKAGING
020863	SB	9425752	0 285 697	Granted	29-Dec-94	18-Nov-98	020863	SCREEN BASED TELEPHONE SET FOR INTERACTIVE ENHANCED TELEPHONE SERVICE
020863	FR	9811629	0 202 766	Granted	29-May-98	18-Nov-98	020863	SCREEN BASED TELEPHONE SET FOR INTERACTIVE ENHANCED TELEPHONE SERVICE
020863	SB	9811629	0 202 519	Granted	29-May-98	18-Nov-98	020863	SCREEN BASED TELEPHONE SET FOR INTERACTIVE ENHANCED TELEPHONE SERVICE
020863	CA	2,138,069	2,138,069	Granted	14-Dec-94	27-Nov-90	020863	SCREEN BASED TELEPHONE SET FOR INTERACTIVE ENHANCED TELEPHONE SERVICE AND METHOD OF OPERATING SAME BY MICROPROCESSOR CONTROL
020917	SB	96941533.8	0 885 416	Granted	19-Dec-96	15-Sep-99	020917	ENCODING TECHNIQUE FOR SOFTWARE AND HARDWARE
020917	FR	96941533.8	0 885 416	Granted	19-Dec-96	15-Sep-99	020917	ENCODING TECHNIQUE FOR SOFTWARE AND HARDWARE
020917	DE	96941533.8	69604307.6	Granted	19-Dec-96	15-Sep-99	020917	ENCODING TECHNIQUE FOR SOFTWARE AND HARDWARE
020917	CA	2,243,468	2,243,469	Granted	19-Dec-96	31-Oct-90	020917	ENCODING TECHNIQUE FOR SOFTWARE AND HARDWARE
020953	CA	2,172,205	2,172,205	Granted	28-Mar-96	30-Jul-92	020953	METHOD OF TRACING THE ROUTE OF VIRTUAL CONNECTIONS
020954	JP	9-515902	314362	Granted	9-Nov-99	26-Oct-91	020954	A METHOD OF COMMUNICATING INFORMATION AND TERMINAL
020954	SB	9939395.3	0 739 557	Granted	9-Nov-99	21-Jan-94	020954	COMMUNICATIONS IN A DISTRIBUTION NETWORK
020954	FR	9939395.3	0 739 557	Granted	9-Nov-99	21-Jan-94	020954	COMMUNICATIONS IN A DISTRIBUTION NETWORK
020954	DE	9939395.3	695 32467.5	Granted	9-Nov-99	21-Jan-94	020954	COMMUNICATIONS IN A DISTRIBUTION NETWORK
020954	CA	2,180,013	2,180,013	Granted	9-Nov-99	29-May-90	020954	COMMUNICATIONS IN A DISTRIBUTION NETWORK
020971	SB	96000702	0 852 891	Granted	10-Jan-96	4-Jul-91	020971	MOUNTING ARRANGEMENT FOR A NOISE CANCELLING MICROPHONE
020971	FR	96000702	0 852 891	Granted	10-Jan-96	4-Jul-91	020971	MOUNTING ARRANGEMENT FOR A NOISE CANCELLING MICROPHONE
020971	DE	96000702	696 13 706.2	Granted	10-Jan-96	4-Jul-91	020971	MOUNTING ARRANGEMENT FOR A NOISE CANCELLING MICROPHONE
020903	SB	96921848.6	0 845 186	Granted	10-Jul-96	2-Jul-93	020903	AN IMPROVED ACCESS TO TELECOMMUNICATIONS NETWORKS IN MULTISERVICE ENVIRONMENT
020903	FR	96921848.6	0 845 186	Granted	10-Jul-96	2-Jul-93	020903	AN IMPROVED ACCESS TO TELECOMMUNICATIONS NETWORKS IN MULTISERVICE ENVIRONMENT
020903	DE	96921848.6	69689295.3	Granted	10-Jul-96	2-Jul-93	020903	AN IMPROVED ACCESS TO TELECOMMUNICATIONS NETWORKS IN MULTISERVICE ENVIRONMENT
020903	CA	2,227,474	2,227,474	Granted	10-Jul-96	21-May-92	020903	AN IMPROVED ACCESS TO TELECOMMUNICATIONS NETWORKS IN MULTISERVICE ENVIRONMENT
020901	FR	96-1805	961805	Granted	25-Mar-96	31-Oct-96	020901	TELEPHONE NETWORK SET
020942	SB	99309193	0 941 792	Granted	3-Nov-97	12-May-94	020942	INTERACTIVE SUBSCRIBER TELEPHONE TERMINAL WITH AUTOMATIC MANAGEMENT SOFTWARE DOWNLOAD FEATURE

803797	SB	99151.51	180 236	Granted	3-May-00	13-Dec-98	803797	TELEPHONE AND DATA NETWORK SERVICES AT A TELEPHONE
803797	FR	99151.51	180 236	Granted	3-May-00	13-Dec-98	803797	TELEPHONE AND DATA NETWORK SERVICES AT A TELEPHONE
803797	DE	99151.51	6002356	Granted	3-May-00	13-Dec-98	803797	TELEPHONE AND DATA NETWORK SERVICES AT A TELEPHONE
803797	CA	2,273,657	2,273,657	Granted	7-Jul-99	21-Sep-97	803797	TELEPHONE AND DATA NETWORK SERVICES AT A TELEPHONE
803854	SB	99306382.3	0 998 109	Granted	25-Oct-99	21-Jul-98	803854	COMMUNICATION NETWORK UTILIZING AUTONOMOUS SERVERS TO ESTABLISH COMMUNICATION SESSIONS
803854	FR	99306382.3	0 998 109	Granted	25-Oct-99	21-Jul-98	803854	COMMUNICATION NETWORK UTILIZING AUTONOMOUS SERVERS TO ESTABLISH COMMUNICATION SESSIONS
803854	DE	99306382.3	69930101.5	Granted	25-Oct-99	21-Jul-98	803854	COMMUNICATION NETWORK UTILIZING AUTONOMOUS SERVERS TO ESTABLISH COMMUNICATION SESSIONS
803854	CA	2,284,451	2,284,451	Granted	1-Oct-99	16-Jul-98	803854	A COMMUNICATION NETWORK UTILIZING AUTONOMOUS SERVERS TO ESTABLISH A COMMUNICATION SESSIONS
803947	SB	99302716.8	0 366 123	Granted	7-Apr-99	3-Jul-98	803947	ROTATOR SWITCH DATA PATH STRUCTURES
803947	FR	99302716.8	0 366 123	Granted	7-Apr-99	3-Jul-98	803947	ROTATOR SWITCH DATA PATH STRUCTURES
803947	DE	99302716.8	69917855.2	Granted	7-Apr-99	3-Jul-98	803947	ROTATOR SWITCH DATA PATH STRUCTURES
803947	CA	2,268,361	2,268,361	Granted	6-Apr-99	15-Jul-98	803947	ROTATOR SWITCH DATA PATH STRUCTURES
804009	SB	99309726	1 018 823	Granted	3-Dec-99	8-Oct-98	804009	APPARATUS AND METHOD FOR PACKET SWITCHING WITH SUPERTRUNKING
804009	FR	99309726	1 018 823	Granted	3-Dec-99	8-Oct-98	804009	APPARATUS AND METHOD FOR PACKET SWITCHING WITH SUPERTRUNKING
804009	DE	99309726	1 018 823	Granted	3-Dec-99	8-Oct-98	804009	APPARATUS AND METHOD FOR PACKET SWITCHING WITH SUPERTRUNKING
804010	SB	99306387.1	0 986 130	Granted	7-Sep-99	22-Nov-98	804010	ECHO CONTROLLER WITH COMPENSATION FOR VARIABLE DELAY NETWORKS
804010	FR	99306387.1	0 986 130	Granted	7-Sep-99	22-Nov-98	804010	ECHO CONTROLLER WITH COMPENSATION FOR VARIABLE DELAY NETWORKS
804010	DE	99306387.1	69934066.7	Granted	7-Sep-99	22-Nov-98	804010	ECHO CONTROLLER WITH COMPENSATION FOR VARIABLE DELAY NETWORKS
804010	CA	2,283,065	2,283,065	Granted	5-Sep-99	5-Jul-98	804010	ECHO CONTROLLER WITH COMPENSATION FOR VARIABLE DELAY NETWORKS
804036	CA	2,278,500	2,278,500	Granted	27-Jul-99	4-Jan-99	804036	DIGITAL SIGNAL FRAMING SYSTEMS AND METHODS
804042	CA	2,260,723	2,260,723	Granted	4-Feb-99	30-Dec-98	804042	A METHOD OF RESOURCE MANAGEMENT AT COMPUTER CONTROLLED TELEPHONE HARDWARE
804054	JP	10-962394	438421	Granted	21-Dec-98	2-Oct-98	804054	METHOD AND SYSTEM FOR VOICE CALL COMPLETION USING INFORMATION RETRIEVED FROM AN OPEN APPLICATION ON A COMPUTING MACHINE
804054	SB	89310429	0 995 380	Granted	18-Dec-98	21-Sep-98	804054	METHOD AND SYSTEM FOR VOICE CALL COMPLETION USING INFORMATION RETRIEVED FROM AN OPEN APPLICATION ON A COMPUTING MACHINE
804054	FR	89310429	0 995 380	Granted	18-Dec-98	21-Sep-98	804054	METHOD AND SYSTEM FOR VOICE CALL COMPLETION USING INFORMATION RETRIEVED FROM AN OPEN APPLICATION ON A COMPUTING MACHINE
804054	DE	89310429	69891650.9	Granted	18-Dec-98	21-Sep-98	804054	METHOD AND SYSTEM FOR VOICE CALL COMPLETION USING INFORMATION RETRIEVED FROM AN OPEN APPLICATION ON A COMPUTING MACHINE
804054	CA	2,255,999	2,255,999	Granted	4-Dec-98	24-Feb-98	804054	METHOD AND SYSTEM FOR VOICE CALL COMPLETION USING INFORMATION RETRIEVED FROM AN OPEN APPLICATION ON A COMPUTING MACHINE
804106	SB	99303447.0	0 955 728	Granted	30-Apr-99	28-Jul-98	804106	METHOD AND APPARATUS FOR PERFORMING DATA PULSE DETECTION
804106	FR	99303447.0	0 955 728	Granted	30-Apr-99	28-Jul-98	804106	METHOD AND APPARATUS FOR PERFORMING DATA PULSE DETECTION
804106	DE	99303447.0	69932118	Granted	30-Apr-99	28-Jul-98	804106	METHOD AND APPARATUS FOR PERFORMING DATA PULSE DETECTION
804120	SB	99309782.3	1 009 134	Granted	6-Dec-99	13-Feb-99	804120	HYBRID TDM AND ATM VOICE SWITCHING CENTRAL OFFICE AND METHOD OF COMPLETING INTER-OFFICE CALLS USING SAME
804120	FR	99309782.3	1 009 134	Granted	6-Dec-99	13-Feb-99	804120	HYBRID TDM AND ATM VOICE SWITCHING CENTRAL OFFICE AND METHOD OF COMPLETING INTER-OFFICE CALLS USING SAME
804120	EP	99309782.3	1 009 134	Inactive	6-Dec-99	13-Feb-99	804120	HYBRID TDM AND ATM VOICE SWITCHING CENTRAL OFFICE AND METHOD OF COMPLETING INTER-OFFICE CALLS USING SAME
804120	DE	69446147.1	0 100 134	Granted	6-Dec-99	13-Feb-99	804120	HYBRID TDM AND ATM VOICE SWITCHING CENTRAL OFFICE AND METHOD OF COMPLETING INTER-OFFICE CALLS USING SAME
804120	CA	2,288,956	2,289,269	Granted	16-Nov-99	3-Feb-99	804120	HYBRID TDM AND ATM VOICE SWITCHING CENTRAL OFFICE AND METHOD OF COMPLETING INTER-OFFICE CALLS USING SAME
804128	EP	99973138.3	HEMPY	Filed	26-Nov-99	HEMPY	804128	METHOD AND SYSTEM FOR WEBSITE OVERVIEW
804128	EP	11166958.4	HEMPY	Filed	26-Nov-99	HEMPY	804128	METHOD AND SYSTEM FOR WEBSITE OVERVIEW
804128	CA	2,346,156	2,346,156	Granted	26-Nov-99	11-May-99	804128	METHOD AND SYSTEM FOR WEBSITE OVERVIEW
804206	CA	2,243,824	2,243,824	Granted	8-Oct-98	6-Feb-97	804206	SERVICE SELECTABLE NETWORK
804206	AU	60731/99	799989	Granted	8-Oct-99	21-Aug-99	804206	SERVICE CAPABLE NETWORK
804238	SB	99103852.1	0 107 206	Granted	21-Dec-99	16-Aug-98	804238	SCHEME FOR IP NETWORKING IN THE HOME
804238	FR	99103852.1	0 107 206	Granted	21-Dec-99	16-Aug-98	804238	SCHEME FOR IP NETWORKING IN THE HOME
804238	DE	99103852.1	0 107 206	Granted	21-Dec-99	16-Aug-98	804238	SCHEME FOR IP NETWORKING IN THE HOME
804238	CA	2,292,029	2,292,029	Granted	18-Dec-99	7-May-99	804238	METHOD AND APPARATUS FOR CONNECTING A HOME NETWORK TO THE INTERNET
804242	SB	99306919.1	1 006 673	Granted	2-Dec-99	26-Oct-98	804242	LOAD COIL DEVICE
804242	FR	99306919.1	1 006 673	Granted	2-Dec-99	26-Oct-98	804242	LOAD COIL DEVICE
804242	DE	99306919.1	1 006 673	Granted	2-Dec-99	26-Oct-98	804242	LOAD COIL DEVICE
804269	CA	2,280,574	2,280,574	Granted	28-Aug-99	6-May-98	804269	NETWORK PRESENCE INDICATOR FOR COMMUNICATIONS MANAGEMENT
804316	CA	2,231,802	2,231,802	Granted	7-Dec-99	5-Aug-98	804316	EXPLICIT RATE COMPUTATION FOR FLOW CONTROL IN COMPUTER NETWORKS
804339	JP	11-312249	446929	Granted	2-Nov-99	5-Mar-99	804339	EXTENDED TRUNK SWITCHING ACROSS MULTIPLE SWITCHES WITH ATM LINKS
804339	CA	2,288,356	2,288,356	Granted	2-Nov-99	7-Jul-99	804339	EXTENDED TRUNK SWITCHING ACROSS MULTIPLE SWITCHES WITH ATM LINKS
804390	SB	99102745.1	1 024 753	Granted	21-Dec-99	2-Apr-98	804390	METHOD OF VIRTUAL CIRCUIT RECONNECTION WITHOUT LOSS OF CALL SESSION
804390	FR	99102745.1	1 024 753	Granted	21-Dec-99	2-Apr-98	804390	METHOD OF VIRTUAL CIRCUIT RECONNECTION WITHOUT LOSS OF CALL SESSION
804390	DE	99102745.1	69938448.6	Granted	21-Dec-99	2-Apr-98	804390	METHOD OF VIRTUAL CIRCUIT RECONNECTION WITHOUT LOSS OF CALL SESSION
804390	CA	2,232,260	2,232,260	Granted	14-Dec-99	11-Sep-97	804390	METHOD OF VIRTUAL CIRCUIT RECONNECTION WITHOUT LOSS OF CALL SESSION
804496	JP	11-285241	441330	Granted	6-Oct-99	27-Nov-99	804496	SYSTEM AND METHOD FOR ESTABLISHING DYNAMIC HIGH USAGE TRUNK GROUPS
804525	SB	3061782.1	0 994 635	Granted	18-Oct-00	5-Aug-99	804525	METHOD AND APPARATUS FOR SELECTING NETWORK ENTITIES
804525	FR	3061782.1	0 994 635	Granted	18-Oct-00	5-Aug-99	804525	METHOD AND APPARATUS FOR SELECTING NETWORK ENTITIES
804525	DE	3061782.1	60042676.3	Granted	18-Oct-00	5-Aug-99	804525	METHOD AND APPARATUS FOR SELECTING NETWORK ENTITIES
804525	CA	2,232,720	2,232,720	Granted	18-Oct-00	30-Jun-99	804525	METHOD AND APPARATUS FOR SELECTING NETWORK ENTITIES
804114	JP	0-513928	384380	Granted	28-Aug-96	8-Sep-96	804114	METHODS AND APPARATUS FOR ORIGINATING VOICE CALLS
804114	SB	86977484.4	0 852 872	Granted	28-Aug-96	31-Oct-91	804114	METHOD AND APPARATUS FOR ORIGINATING VOICE CALLS
804114	FR	86977484.4	0 852 872	Granted	28-Aug-96	31-Oct-91	804114	METHOD AND APPARATUS FOR ORIGINATING VOICE CALLS
804114	DE	86977484.4	69616576.7	Granted	28-Aug-96	31-Oct-91	804114	METHOD AND APPARATUS FOR ORIGINATING VOICE CALLS
804114	CA	2,228,661	2,228,661	Granted	28-Aug-96	26-Oct-90	804114	METHODS AND APPARATUS FOR ORIGINATING VOICE CALLS
804114	AU	19667295	694682	Granted	28-Aug-96	27-Jul-90	804114	METHODS AND APPARATUS FOR ORIGINATING VOICE CALLS
804114	JU	67295/96	694682	Granted	28-Aug-96	27-Jul-90	804114	METHODS AND APPARATUS FOR ORIGINATING VOICE CALLS
804116	JP	0-513932	309277	Granted	26-Sep-96	18-Aug-90	804116	METHODS AND APPARATUS FOR PROVIDING COMMUNICATIONS TO TELECOMMUNICATIONS TERMINALS
804116	SB	86993939	0 852 884	Granted	26-Sep-96	19-Dec-91	804116	METHODS AND APPARATUS FOR PROVIDING COMMUNICATIONS TO TELECOMMUNICATIONS TERMINALS
804116	FR	86993939	0 852 884	Granted	26-Sep-96	19-Dec-91	804116	METHODS AND APPARATUS FOR PROVIDING COMMUNICATIONS TO TELECOMMUNICATIONS TERMINALS
804116	DE	86993939	696 18 216.5	Granted	26-Sep-96	19-Dec-91	804116	METHODS AND APPARATUS FOR PROVIDING COMMUNICATIONS TO TELECOMMUNICATIONS TERMINALS
804116	CA	2,228,682	2,228,682	Granted	26-Sep-96	16-May-90	804116	METHODS AND APPARATUS FOR ORIGINATING VOICE CALLS
804146	SB	2395511	HEMPY	Filed	12-Dec-97	24-Oct-97	804146	VIRTUAL PRIVATE NETWORK SERVICE PROVIDER FOR ASYNCHRONOUS TRANSFER MODE NETWORK
804146	EP	9746002.0	HEMPY	Filed	12-Dec-97	HEMPY	804146	VIRTUAL PRIVATE NETWORK SERVICE PROVIDER FOR ASYNCHRONOUS TRANSFER MODE NETWORK
804276	MX	885685	HEMPY	Filed	15-Jul-98	HEMPY	804276	SYSTEM AND METHOD OF OPERATION FOR CORRECTLY ROUTING LOCATION UPDATE SERVICE MESSAGES IN A CELLULAR DIGITAL PACKET DATA SYSTEM
804299	SB	9927399.2	0 332 338	Granted	11-Dec-98	19-Jul-98	804299	MARKING AND SCREENING TELEPHONE CALLS
804299	FR	98 15695	9815695	Granted	11-Dec-98	19-Oct-98	804299	MARKING AND SCREENING TELEPHONE CALLS
804299	DE	19857009.1	HEMPY	Filed	18-Dec-98	HEMPY	804299	MARKING AND SCREENING TELEPHONE CALLS
804299	CA	2,255,344	2,255,344	Granted	9-Dec-98	21-Oct-98	804299	MARKING AND SCREENING TELEPHONE CALLS
804449	SB	3007234.1	1 024 430	Granted	31-Jan-00	15-Sep-94	804449	FAULT-TOLERANT JAVA VIRTUAL MACHINE
804449	FR	3007234.1	1 024 430	Granted	31-Jan-00	15-Sep-94	804449	FAULT-TOLERANT JAVA VIRTUAL MACHINE
804449	DE	3007234.1	60013658.2	Granted	31-Jan-00	15-Sep-94	804449	FAULT-TOLERANT JAVA VIRTUAL MACHINE
804449	CA	2,284,654	2,284,654	Granted	7-Jan-00	4-Nov-99	804449	FAULT-TOLERANT JAVA VIRTUAL MACHINE
804450	SB	99102327.1	1 024 633	Granted	16-Dec-99	29-Sep-94	804450	SCALABLE GATEKEEPERS IN AN INTERNET TELEPHONE SYSTEM AND A METHOD OF OPERATION
804450	FR	99102327.1	1 024 633	Granted	16-Dec-99	29-Sep-94	804450	SCALABLE GATEKEEPERS IN AN INTERNET TELEPHONE SYSTEM AND A METHOD OF OPERATION
804450	DE	99102327.1	69926411.3	Granted	16-Dec-99	29-Sep-94	804450	SCALABLE GATEKEEPERS IN AN INTERNET TELEPHONE SYSTEM AND A METHOD OF OPERATION
804451	SB	99398911.1	0 011 043	Granted	7-Dec-99	31-Jan-96	804451	METHOD AND APPARATUS FOR LOADING A JAVA APPLICATION PROGRAM
804451	FR	99398911.1	0 011 043	Granted	7-Dec-99	31-Jan-96	804451	METHOD AND APPARATUS FOR LOADING A JAVA APPLICATION PROGRAM
804451	DE	99398911.1	0 011 043	Granted	7-Dec-99	31-Jan-96	804451	METHOD AND APPARATUS FOR LOADING A JAVA APPLICATION PROGRAM
804451	CA	2,290,066	2,290,066	Granted	15-Nov-99	16-Sep-96	804451	METHOD FOR LOADING A JAVA APPLICATION PROGRAM



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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/199,797	12/12/2006	7149506	11032RRUS04D	1786

35527 7590 11/22/2006
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ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 13 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Gregory T. Osterhout, Coppell, TX;
Kim B. Holmes, Rowlett, TX;
Mark Sosebee, Plano, TX;

11-06-06



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35527 7590 08/08/2006

DUKE W. YEE
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11/09/2006 RMEBRAH1 00000049 503157 10199797

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02 FC:1504 300.00 DA

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Dell Whitton (Depositor's name)
Dell Whitton (Signature)
11-06-06 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/199.797	07/19/2002	Gregory T. Osterhout	11032RRUS04D	1786

TITLE OF INVENTION: PORTABLE CALL MANAGEMENT SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$0	\$1700	11/08/2006

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, THUAN T	2618	455-417000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Nortel Networks Limited St. Laurent, Quebec H4S 2A9 Canada

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are submitted:

- Issue Fee
- Publication Fee (No small entity discount permitted)
- Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- A check is enclosed.
- Payment by credit card. Form PTO-2038 is attached.
- The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 50-3157 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature Peter B. Manzo

Date 11-06-06

Typed or printed name Peter B. Manzo

Registration No. 54,700

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NOTICE OF ALLOWANCE AND FEE(S) DUE

35527 7590 08/08/2006
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DALLAS, TX 75380

EXAMINER

NGUYEN, THUAN T

ART UNIT PAPER NUMBER

2618

DATE MAILED: 08/08/2006

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
10/199,797 07/19/2002 Gregory T. Osterhout 11032RRUS04D 1786

TITLE OF INVENTION: PORTABLE CALL MANAGEMENT SYSTEM

Table with 7 columns: APPLN. TYPE, SMALL ENTITY, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional NO \$1400 \$300 \$0 \$1700 11/08/2006

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

M-F



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
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NOTICE OF ALLOWANCE AND FEE(S) DUE

35527 7590 08/08/2006

DUKE W. YEE
YEE & ASSOCIATES, P.C.
P.O. BOX 802333
DALLAS, TX 75380

EXAMINER

NGUYEN, THUAN T

ART UNIT PAPER NUMBER

2618

DATE MAILED: 08/08/2006

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
10/199,797 07/19/2002 Gregory T. Osterhout 11032RRUS04D 1786

TITLE OF INVENTION: PORTABLE CALL MANAGEMENT SYSTEM

Table with 7 columns: APPLN. TYPE, SMALL ENTITY, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE
nonprovisional NO \$1400 \$300 \$0 \$1700 11/08/2006

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

35527 7590 08/08/2006

DUKE W. YEE
 YEE & ASSOCIATES, P.C.
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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/199,797	07/19/2002	Gregory T. Osterhout	11032RRUS04D	1786

TITLE OF INVENTION: PORTABLE CALL MANAGEMENT SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$0	\$1700	11/08/2006

EXAMINER	ART UNIT	CLASS-SUBCLASS
NGUYEN, THUAN T	2618	455-417000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). <input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. <input type="checkbox"/> "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, _____ 1 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. _____ 2 _____ 3
--	--

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)
 PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.
 (A) NAME OF ASSIGNEE _____ (B) RESIDENCE: (CITY and STATE OR COUNTRY) _____

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are submitted: <input type="checkbox"/> Issue Fee <input type="checkbox"/> Publication Fee (No small entity discount permitted) <input type="checkbox"/> Advance Order - # of Copies _____	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) <input type="checkbox"/> A check is enclosed. <input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached. <input type="checkbox"/> The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).
--	---

5. Change in Entity Status (from status indicated above)
 a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____
 Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
10/199,797 07/19/2002 Gregory T. Osterhout 11032RRUS04D 1786

35527 7590 08/08/2006
DUKE W. YEE
YEE & ASSOCIATES, P.C.
P.O. BOX 802333
DALLAS, TX 75380

EXAMINER

NGUYEN, THUAN T

ART UNIT PAPER NUMBER

2618
DATE MAILED: 08/08/2006

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 13 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 13 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	10/199,797	OSTERHOUT ET AL.	
	Examiner	Art Unit	
	THUAN T. NGUYEN	2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to _____.
2. The allowed claim(s) is/are 52-62 and 66-69.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Remark

1. Claims 1-51, and 63-65 were canceled. Pending claims 52-62 and 66-69 are for reconsideration.

Allowable Subject Matter

2. Claims 52-62 and 66-69 are allowed.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

The closest prior arts of record issued to Wang and Pepe fails to combine to teach or suggest a method for processing a call as claimed in claim 52 and 56 including at least a step of receiving at a session initiated protocol (SIP) server a notice of a call for a mobile data processing system associated with a user and detailed steps as claimed therein.

As for claim 66, the prior art of record to Buttitta (previous) and Pirot either alone or combine fails to teach or suggest a method for initiating calls comprising at least the step of translating the registration from a first protocol into a second protocol to form a modified registration notice, and then transmitting the modified registration notice to a terminating device as called for in claim 66. Buttitta teaches to have a first registration notice and a second registration notice after the ending of the first call; and there is no motivation or suggestion to modify and/or translating the first registration notice to a modified registration notice from a first protocol into a second protocol. Perot does not anticipate the claim language of claim 66, please refer to the applicant's arguments from page 6 to page 11 for a detailed analysis.

Art Unit: 2618

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to the New Central Fax number:

(571) 273-8300, (for Technology Center 2600 only)

Hand deliveries must be made to Customer Service Window,
Randolph Building, 401 Dulany Street, Alexandria, VA 22314.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Thuan Nguyen whose telephone number is (571) 272-7895. The examiner can normally be reached on Monday-Friday from 9:30 AM to 7:00 PM, with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899.


Art Unit: 2618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

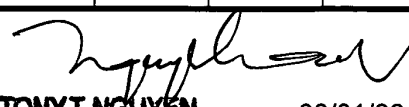
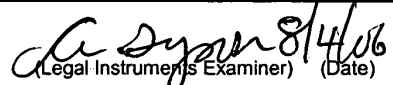


TONY T. NGUYEN
PATENT EXAMINER, FSA

Tony T. Nguyen
Art Unit 2618
August 01, 2006

Issue Classification 	Application/Control No. 10/199,797	Applicant(s)/Patent under Reexamination OSTERHOUT ET AL.	
	Examiner THUAN T. NGUYEN	Art Unit 2618	

ISSUE CLASSIFICATION										
ORIGINAL				CROSS REFERENCE(S)						
CLASS		SUBCLASS		CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
455		417		455	435.1	436	442			
INTERNATIONAL CLASSIFICATION				340	3.5	3.52				
H	0	4	M							
				3/42						
H	0	4	Q							
				7/20						
				/						
				/						
				/						

_____ (Assistant Examiner) (Date)	 TONY T. NGUYEN PATENT EXAMINER, FSA (Primary Examiner)	08/01/06 (Date)	Total Claims Allowed: 15	
 (Legal Instruments Examiner) (Date)			O.G. Print Claim(s) 1	O.G. Print Fig. 9

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant		<input type="checkbox"/> CPA		<input type="checkbox"/> T.D.		<input type="checkbox"/> R.1.47	
Final	Original	Final	Original	Final	Original	Final	Original
	1		31	10	61		
	2		32	11	62		
	3		33		63		
	4		34		64		
	5		35		65		
	6		36	12	66		
	7		37	13	67		
	8		38	14	68		
	9		39	15	69		
	10		40				
	11		41				
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	24	3	54				
	25	4	55				
	26	5	56				
	27	6	57				
	28	7	58				
	29	8	59				
	30	9	60				

EAST - [10199797.wsp:1]

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Drafts

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- Active
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 - L2: (3) 1 and (registration near5 notice).clm.
 - L3: (1) 1 and (modified near5 registration near5 notice).clm.
 - L4: (0) 1 and (registration near5 announcement).clm.
 - L5: (85) 1 and (registration near5 message).clm.
 - L6: (0) 5 and (modified near5 registration near5 message).clm.
 - L7: (5) 5 and (second near5 protocol).clm.**
- Failed
- Saved
 - S1: (1) ("6421436").PN.
 - S2: (1) "6421536"
 - S3: (1) S2 and pager
 - S4: (1) S3 and palm

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DBs US:PCPUB Plural

Default operator: OR Highlight all hit terms initially

5 and (second near5 protocol).clm

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current	Ret	Inventor
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20060135157 A1	20060622	39	Network interworking system and method for providing	455/433	455/435.1		Baek; Hye-Won et al.
2	<input type="checkbox"/>	<input type="checkbox"/>	US 20060025134 A1	20060202	27	Method of communicating data in a wireless mobile	455/435.1	455/574		Cho; Ki Hyoung et al.
3	<input type="checkbox"/>	<input type="checkbox"/>	US 20040229608 A1	20041118	16	Methods and systems for allowing global roaming	455/432.1	455/432.2		Isukapalli, Ramana et al.
4	<input type="checkbox"/>	<input type="checkbox"/>	US 20040219948 A1	20041104	11	Multi-mode mobile station and method	455/552.1	455/426.1; 455/435.1		Jones, Bryce A. et al.
5	<input type="checkbox"/>	<input type="checkbox"/>	US 20040005886 A1	20040108	35	Radio terminal, radio terminal controlling apparatus and	455/422.1	455/1; 455/435.1;		Oda, Toshikane et al.

Ready NUM

None of them is prior art.



- [-] Drafts
 - [-] BRS:
- [-] Pending
- [-] Active
 - [-] L1: (1498) 455/417 455/442 455/435.1 455/436 455/414.4 455/432.2 3
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 - [-] L3: (1) 1 and (modified near5 registration near5 notice).clm.
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 - [-] S4: (1) S3 and palm
 - [-] S5: (0) S4 and hypertext
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 - [-] S7: (0) S4 and PDA
 - [-] S8: (0) S2 and PDA
 - [-] S9: (26261) process\$3 near3 call

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U	1	Document ID	Issue Date	Pages	Title	Current OR	Current Ret	Inventor
[Blurred content]								

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MAY 26 2006

**Yee &
Associates, P.C.**

4100 Alpha Road
Suite 1100
Dallas, Texas 75244

Main No. (972) 385-8777
Facsimile (972) 385-7766

FACSIMILE COVER SHEET

To: Commissioner for Patents for Examiner Thuan T. Nguyen Group Art Unit 2685	Facsimile No. 571/273-8300
From: Candace Crawford Legal Assistant to Ted Fay	No. of Pages Including Cover Sheet: 14
<p>Enclosed herewith:</p> <ul style="list-style-type: none"> • Transmittal; and • Response to Office Action. 	
Re: Application Serial No. 10/199,797 Attorney Docket No. 11032RRUS04D	
Date: Friday, May 26, 2006	
Please contact us at (972) 385-8777 if you do not receive all pages indicated above or experience any difficulty in receiving this facsimile.	<i>This Facsimile is intended only for the use of the addressee and, if the addressee is a client or their agent, contains privileged and confidential information. If you are not the intended recipient of this facsimile, you have received this facsimile inadvertently and in error. Any review, dissemination, distribution, or copying is strictly prohibited. If you received this facsimile in error, please notify us by telephone and return the facsimile to us immediately.</i>

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MAY 26 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Osterhout et al.

§
§
§
§
§
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Group Art Unit: 2685

Serial No.: 10/199,797


Examiner: Thuan T. Nguyen

Filed: July 19, 2002

Attorney Docket No.: 11032RRUS04D

For: Portable Call Management System

35527
PATENT TRADEMARK OFFICE
CUSTOMER NUMBER

Certificate of Transmission Under 37 C.F.R. § 1.8(a)
I hereby certify this correspondence is being transmitted via facsimile to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, facsimile number (571) 273-8300 on May 26, 2006.
By: 
Candace Crawford

TRANSMITTAL

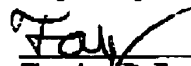
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:
ENCLOSED HERewith:

- Response to Office Action

No fees are believed to be required. If, however, any fees are required, I authorize the Commissioner to charge these fees which may be required to Yee & Associates, P.C. Deposit Account No. 50-3157. No extension of time is believed to be necessary. If, however, an extension of time is required, the extension is requested, and I authorize the Commissioner to charge any fees for this extension to Yee & Associates, P.C. Deposit Account No. 50-3157.

Respectfully submitted,


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Registration No. 48,504

Duke W. Yee
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RECEIVED P.3
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MAY 26 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Osterhout et al.**

Serial No.: **10/199,797**

Filed: **July 19, 2002**

For: **Portable Call Management System**

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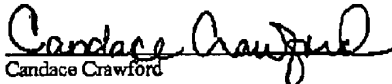
Group Art Unit: **2685**

Examiner: **Thuan T. Nguyen**

Attorney Docket No.: **11032RRUS04D**

Certificate of Transmission Under 37 C.F.R. § 1.8(a)

I hereby certify this correspondence is being transmitted via facsimile to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, facsimile number (571) 273-8300 on May 26, 2006.

By: 
Candace Crawford

35227

PATENT TRADEMARK OFFICE
CUSTOMER NUMBER

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

RESPONSE TO OFFICE ACTION

Sir:

No fees are believed to be required. If, however, any fees are required, I authorize the Commissioner to charge these fees which may be required to Yee & Associates, P.C. Deposit Account No. 50-3157. No extension of time is believed to be necessary. If, however, an extension of time is required, the extension is requested, and I authorize the Commissioner to charge any fees for this extension to Yee & Associates, P.C. Deposit Account No. 50-3157.

In response to the Office Action of February 27, 2006, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 5 of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-51. (Canceled)

52. (Previously Presented) A method in a communications system for processing a call, the method comprising:

- receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user;
- identifying an address to which the call is to be sent from a database of preferred locations, wherein the user has previously indicated a preferred location;
- sending a first request to setup the call to the mobile data processing system associated with the user, wherein the mobile data processing system has a wireless communications capability;
- sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system; and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed;
- receiving, prior to establishing the call, a response to the request, wherein the response includes the address for the call input by the user of the mobile data processing system in response to receiving the notification message; and
- sending a second request to setup the call to the user using the address.

53. (Original) The method as recited in claim 52, wherein the data processing system is a personal digital assistant.

54. (Previously Presented) The method as recited in claim 53, wherein the personal digital assistant is a Palm VII.

55. (Original) The method as recited in claim 52, wherein the request and the response are session initiation protocol messages.

56. (Previously Presented) A method for processing a call at a data processing system the method comprising:
- receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user;
 - identifying an address to which the call is to be sent from a database of preferred locations, wherein the user has previously indicated a preferred location;
 - receiving a notification message at the data processing system indicating a request to setup the call;
 - presenting the notification to the user at the data processing system;
 - receiving the request to establish the call;
 - presenting caller information at the data processing system;
 - receiving user input from the user identifying an address to which the call is to be directed; and
 - responsive to an identification of the address for the call, returning a response including the address to which the call is to be directed.
57. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises displaying the caller information.
58. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises presenting the caller information audibly.
59. (Original) The method as recited in claim 56, wherein the request and the response are session initiation protocol messages.
60. (Original) The method as recited in claim 56, wherein the data processing system is a wireless device.
61. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises a vibrating alert.
62. (Original) The method as recited in claim 56, wherein the data processing system is a two-way pager.
- 63-65. (Canceled)

66. (Currently Amended) A method for initiating calls, comprising the steps of:
receiving a registration notice of an incoming call, wherein said registration notice is formatted in a first protocol;
translating said registration notice from the first protocol into a second protocol to form a modified registration notice; and
transmitting the modified registration notice to a terminating device; wherein the modified registration notice is formatted in the second protocol.
67. (Original) The method as recited in claim 66, further comprising:
selecting, at a session initiated protocol (SIP) server, an address to which the user has previously selected the call be sent from a database of preferred locations;
receiving a location data with which to redirect the incoming call from the terminating device; wherein the location data is formatted in the second protocol; and
translating the location data to a second location data; and
transmitting the second location data, wherein the second location data is formatted in the second protocol.
68. (Original) The method as recited in claim 66, wherein the first protocol is a session initiation protocol.
69. (Original) The method as recited in claim 66, wherein the second protocol is a hypertext markup language.

REMARKS/ARGUMENTS

Claims 52-62 and 66-69 are pending in the present application. Claim 66 is amended to correct a typographical error that does not affect the scope of the claim. Reconsideration of the claims is respectfully requested.

I. Comments on Statement of Reasons for Allowance

Regarding the allowance of claims 52-62, the examiner states that:

The closest prior arts of record issued to Wang and Pepe fails to combine to teach or suggest a method for processing a call as claimed in claim 52 and 56 including at least a step of receiving at a session initiated protocol (SIP) server a notice of a call for a mobile data processing system associated with a user and detailed steps as claimed therein.

Office Action of February 27, 2006, p. 2.

In response, Applicants point out that claims 52-62 contain other features not taught or suggested by the references. Thus, these claims also should be allowable for reasons other than those identified by the examiner.

II. 35 U.S.C. § 102. Asserted Anticipation

The examiner rejected claims 66 and 68-69 as anticipated by *Pirot et al.*, System and Method of Controlling and Managing Voice and Data Services in a Telecommunications Network, U.S. Patent 6,856,676 (February 15, 2005) (hereinafter "*Pirot*"). This rejection is respectfully traversed.

A prior art reference anticipates the claimed invention under 35 U.S.C. § 102 only if every element of a claimed invention is identically shown in that single reference, arranged as they are in the claims. *In re Bond*, 910 F.2d 831, 832, 15 U.S.P.Q.2d 1566, 1567 (Fed. Cir. 1990). All limitations of the claimed invention must be considered when determining patentability. *In re Lowry*, 32 F.3d 1579, 1582, 32 U.S.P.Q.2d 1031, 1034 (Fed. Cir. 1994). Anticipation focuses on whether a claim reads on the product or process a prior art reference discloses, not on what the reference broadly teaches. *Kalman v. Kimberly-Clark Corp.*, 713 F.2d 760, 218 U.S.P.Q. 781 (Fed. Cir. 1983). In this case each and every feature of the presently claimed invention is not identically shown in the cited reference, arranged as they are in the claims.

Claim 66 is as follows:

66. (Currently Amended) A method for initiating calls, comprising the steps of:
receiving a registration notice of an incoming call, wherein said
registration notice is formatted in a first protocol;

translating said registration notice from the first protocol into a second protocol to form a modified registration notice; and
transmitting the modified registration notice to a terminating device;
wherein the modified registration notice is formatted in the second protocol.

Regarding claim 66, *Pirot* does not anticipate claim 66 because *Pirot* does not teach the features of claim 66. *Pirot* does not teach any of the claimed features because *Pirot* does not teach receiving a registration notice, translating the registration notice as claimed, or transmitting the modified registration notice as claimed.

The examiner asserts otherwise, stating that:

Claims 66 and 68-69 are rejected under 35 U.S.C. 102(e) as being anticipated by *Pirot et al.* (U.S. Patent No. 6,856,676 B1).

Regarding claim 66, *Pirot* discloses a method for initiating calls comprising the steps of receiving registration of an incoming call, which is formatted in a first protocol, and translating the registration from the first protocol to a second protocol to form a modified registration notice, and transmitting the modified registration notice to a terminating device, and the modified registration notice formatted in a second protocol (refer to Figs. 1 & 3, an incoming call is registered with the system in a first protocol -called registration admission status using a number of protocols including a first protocol session initiation protocol or SIP, refer to col. 5/lines 30- 40; and as the system receives the registration notice, the registration is being modified to form a modified registration notice with the use of service provisioning within a service management subsystem 52, refer to col. 11/lines 17-41, to a second protocol (col. 13/line 54-65); and the modified registration notice is sending to the terminating device in the format of the second protocol in HTML (see col. 13/line 49 to col. 14/line 13 for provisioning and modification of registration services into HTML-a second protocol; and col. 16/lines 36-48 for presentation to the customer using graphical screen layouts).

As for claims 68 and 69, as already noted and explained above, *Pirot* discloses wherein the first protocol is a session initiation protocol and the second protocol is a hypertext markup language.

Office Action dated February 27, 2006 pp. 3-4.

However, the examiner's characterization of *Pirot* is mistaken. Applicants address each of the examiner's assertions in turn. First, the examiner asserts that figures 1 and 3 of *Pirot* teach the claimed features. These figures are as follows:

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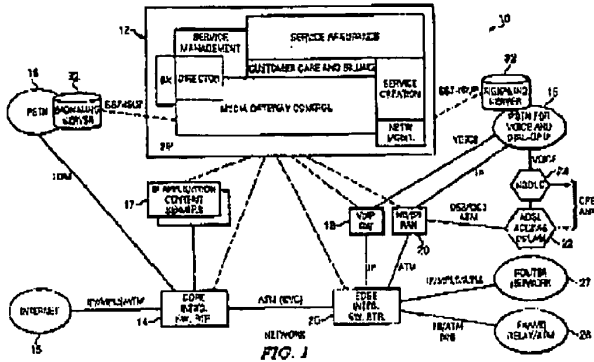


FIG. 1

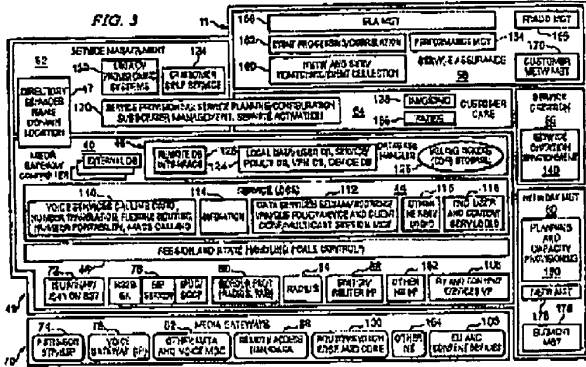


FIG. 3

These figures do not teach or suggest a registration notice. These features do not teach or suggest translating or transmitting a registration notice in the claimed manner. Other than referring to the text in *Pirot*, the examiner does not state where these figures show receiving, translating, or sending a translation notice in the claimed manner. However, as shown below, nothing in the text or figures of *Pirot* teaches these claimed features.

Instead, these figures teach an integrated communication system able to deal with both data and voice communications via media gateway control 12, as shown in figure 1. Figure 3 shows some of the operational details of the system shown in Figure 1. However, nothing in either figure mentions registration notices and nothing in either figure teaches translating or transmitting a registration notice, as claimed in claim 66.

Next, the examiner asserts that *Pirot* teaches that:

an incoming call is registered with the system in a first protocol -called registration admission status using a number of protocols including a first protocol session initiation protocol or SIP, refer to col. 5/lines 30- 40;

Office Action dated February 27, 2006 p. 3.

However, the examiner's characterization of *Pirot* is mistaken. The text cited by the examiner is as follows:

FIG. 3 is a more detailed block diagram of system and method of controlling and managing Internet protocol services in a voice/data telecommunications network 11. It may be seen that the lowest layer of media gateway controller 40 contains the interfaces to various media gateways 70. Media gateway interface 42 may include a first interface 72 which provides SS7 signaling to PSTN or switched circuit networks (SCN) 74 with ISUP (integrated services digital network user part) for interfacing to STP/SSP (signaling transfer point/service switching point) and INAP (intelligent network application protocol) and IS41 for interfacing to IN devices and HLR (home location register) systems. A second interface 76 provides interface functions to voice gateways 78 in a number of protocols, such as RAS (registration admission status) protocol interface for connecting to H.323 VoIP gateways and H.323 end-points. Other protocols interfacing to VOIP

gateways may include SIP (session initiation protocol) and IP device control/simple gateway control protocol (IPDC/SGCP). SIP is targeted at IP services such as click-to-dial or real-time fax. IPDC and SGCP will be combined into a common protocol referred to as media gateway controller protocol (MGCP).

Pirot, col. 5, ll. 19-40 (emphasis to show portion cited by the examiner).

This portion of *Pirot* teaches that media gateway controller 40 in figure 3 contains the interfaces to various media gateways. The media gateway interface can include first and second interfaces that allow communication of signals across different protocols. In the portion cited by the examiner, the second interface provides interface functions to voice gateways in a number of protocols, including registration admission status protocol. Registration admission status protocol is an interface for connecting to H.323 VoIP (voice over internet protocol) gateways and H.323 end-points. (H.323 is a protocol used for video telephone conferencing). *Pirot* also states that other protocols for interfacing VoIP gateways can include SIP (session initiated protocol) and IPDC/SGCP (Internet protocol device control/ simple gateway control protocol).

However, this portion of *Pirot* does not teach that an incoming call is *registered* with the system in registration admission status protocol, as the examiner asserts. *Pirot* does not teach this claimed feature. Instead, *Pirot* teaches that *registration admission status protocol* is used to provide an interface to a voice gateway. Similarly, this portion of *Pirot* does not teach "translating said *registration notice* from the first protocol into a second protocol to form a *modified registration notice*," as claimed. Similarly, this portion of *Pirot* does not teach "*transmitting the modified registration notice* to a terminating device," as claimed. As shown further below, nothing in *Pirot* teaches these claimed features.

Next, the examiner asserts that *Pirot* teaches that:

as the system receives the registration notice, the registration is being modified to form a modified registration notice with the use of service provisioning within a service management subsystem 52, refer to col. 11/lines 17-41, to a second protocol (col. 13/line 54-65);

Office Action dated February 27, 2006 pp. 3-4.

Again, the examiner's characterization of *Pirot* is mistaken. The first portion of text cited by the examiner is as follows:

A service management subsystem 52 provides easy entry of user and services data employing different interfaces, such as operator entry (service provisioning), import of files (legacy provisioning), and user self-registration (customer self service). Further, the service management subsystem 52 provides a link between users and services with very extensive authorization levels, i.e. access to different categories of services (e.g. using IP filtering) or different service quality levels (e.g. by managing access to virtual circuits and tunnels). The service management subsystem 52 also provides extended accounting, taking into

account time and volume based billing (billing tickets, rating and invoicing). Billing processing is performed in three steps. First, the billing tickets are generated and stored. Then rating is performed by converting raw format into "money tickets" by taking into account all kinds of telco-oriented parameters such as time, holiday and even access speed. Third, the invoice for each user is the computed. The service management subsystem 52 further provides interfaces to other systems to incorporate transaction-based billing from e-mail, WWW servers, etc. The data can be extracted by the operator on every level out of a standard database using service management functions. The service management subsystem 52 allows reporting of data by generating pre-formatted statistics reports and user-specified reports.

Pivot, col. 11, ll. 17-41.

This portion of *Pivot* does not teach that the registration of a call is being modified to form a modified registration notice with the use of service provisioning within a service management subsystem 52, as the examiner suggests. Instead, this portion of *Pivot* teaches that the service management subsystem 52 allows a user to "register," or enroll, with the subsystem in order to manipulate various aspects of the user's account, such as billing, level of service, or other aspects of the user's account. In fact, this portion of *Pivot* has absolutely nothing to do with modifying or translating a registration notice of a call. Thus, this portion of *Pivot* is wholly irrelevant to claim 66.

Nevertheless, the examiner asserts that the following portion of *Pivot* teaches translating the "first registration notice" to a "second protocol:"

The service management subsystem 52 also incorporates a powerful service packaging system which allows operators to identify and isolate a group of services (sites) on a network and offer this as a package to which subscribers can register. The service packaging application includes a GUI management program which allows a user to set up description records of service package(s) and the host that belong to this package. The system is hierarchical, this means that a package can have sub-categories, sub-categories can have further sub-categories etc. Definitions of services can be retrieved or modified from the host database if the service is already individually registered.

Pivot, col. 13, ll. 54-65.

This portion of *Pivot* does not teach translating the registration notice from a first protocol to a second protocol in the claimed manner. Instead, this portion of *Pivot* teaches that the service management subsystem 52 allows operators to identify and isolate a group of services on a network and offer the group of services as a package of service to which the subscribers can register. In this context, the term "to register" means "to enroll." Thus, *Pivot* is again describing the functionality of service management subsystem 52 in terms of a customer service interface that allows users to enroll in different service levels. This functionality of *Pivot* is wholly irrelevant to translating a registration notice of a call into a second protocol, as claimed in claim 66.

Nevertheless, the examiner goes on to assert that:

and the modified registration notice is sending to the terminating device in the format of the second protocol in HTML (see col. 13/line 49 to col. 14/line 13 for provisioning and modification of registration services into HTML-a second protocol...).

Office Action dated February 27, 2006 p. 4.

However, the examiner's characterization of *Pivot* again is mistaken. The text cited by the examiner is as follows:

It should be noted that owners of a host can themselves manipulate certain parameters of their host profile (those that the operator deems to be appropriate) via the embedded WWW/HTTP server using CGI programs and HTML forms or Java applets.

The service management subsystem 52 also incorporates a powerful service packaging system which allows operators to identify and isolate a group of services (sites) on a network and offer this as a package to which subscribers can register. The service packaging application includes a GUI management program which allows a user to set up description records of service package(s) and the host that belong to this package. The system is hierarchical, this means that a package can have sub-categories, sub-categories can have further sub-categories etc. Definitions of services can be retrieved or modified from the host database if the service is already individually registered.

Data that are stored in the service packaging tables includes name of the service, short description of what is offered, full description, hyper-link to the service, service provider name, opening hours, location, billing tariff, bitmap and HTML header and trailer for directory page, link to advertisement pages of service provider, and package membership of this service.

Based on this formation, an automatic HTML directory application is generated from the data stored in the RDBMS. This application can be in the limited individual for each user, so that each user enters in a complete customized welcome tree, from where he can select services from the service categories he has subscribed to. In practice a limited number of service packages will be created to fit the needs of certain groups of users.

Pivot, col. 13, l. 49 through col. 14, l. 13.

As pointed out above, the second paragraph quoted above teaches allowing customers to enroll with different services using service management subsystem 52. The expanded text also teaches that owners of a host can manipulate host profiles. The expanded text also teaches that data are stored in service packaging tables that include HTML header and trailers for directory pages, as well as links to other sites regarding a service. The expanded text also teaches that an automatic HTML directory application is generated from the data stored in the system. The HTML directory allows users to enter

into the system in a "complete customized welcome tree, from where he can select *services* from the *service categories* he has subscribed to" (emphasis supplied).

However, this portion of *Pivot* does not teach the claimed feature of "transmitting the modified *registration notice* to a terminating device; wherein the modified registration notice is formatted in the second protocol." In fact, this portion of *Pivot* only deals with the customer service aspects of *Pivot's* system. Therefore, this portion of *Pivot* is wholly irrelevant to claim 66.

Additionally, nothing else in *Pivot* teaches or suggests the features of claim 6. A simple "find" command with a word processor or browser will verify that *Pivot* never mentions the term "registration notice." *Pivot* never teaches translating or transmitting registration notices in the claimed manner.

Because *Pivot* does not teach any of the features of claim 66, *Pivot* does not anticipate claim 66. Additionally, *Pivot* teaches nothing that would suggest these claimed features. Thus, the rejection of claim 66 over *Pivot* is in error and should be withdrawn.

Because claims 68 and 69 depend from claim 66, the same distinctions between *Pivot* and claim 66 can be made for these claims. Additionally, claims 68 and 69 claim other additional combinations of features not suggested by the reference. For example, *Pivot* does not teach the feature that the second protocol is a hypertext markup protocol, as claimed in claim 69. Consequently, it is respectfully urged that the rejection of claims 68 and 69 have been overcome.

As shown above, *Pivot* does not teach the features of claims 66, 68, and 69. Therefore, the rejection of these claims under 35 U.S.C. § 102 has been overcome.

Furthermore, *Pivot* does not teach, suggest, or give any incentive to make the needed changes to reach the presently claimed invention. Absent the examiner pointing out some teaching or incentive to implement *Pivot* and receiving, translating, and transmitting a registration notice as claimed in claim 66, one of ordinary skill in the art would not be led to modify *Pivot* to reach the present invention when the reference is examined as a whole. Absent some teaching, suggestion, or incentive to modify *Pivot* in this manner, the presently claimed invention can be reached only through an improper use of hindsight using the applicants' disclosure as a template to make the necessary changes to reach the claimed invention.

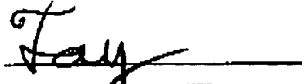
III. Conclusion

It is respectfully urged that the subject application is patentable over *Pitor* and is now in condition for allowance.

The examiner is invited to call the undersigned at the below-listed telephone number if in the opinion of the examiner such a telephone conference would expedite or aid the prosecution and examination of this application.

DATE: May 26, 2006

Respectfully submitted,



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P.O. Box 802333
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(972) 385-8777
Attorney for Applicants

10/99797

PATENT APPLICATION FEE DETERMINATION RECORD
Effective November 10, 1998

Application or Docket Number
10/199797 **EE**
10/14/01

CLAIMS AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA
BASIC FEE		770
TOTAL CLAIMS :	15 minus 20 =	
INDEPENDENT CLAIMS	3 minus 3 =	
MULTIPLE DEPENDENT CLAIM PRESENT		

SMALL ENTITY TYPE <input type="checkbox"/>		OR		OTHER THAN SMALL ENTITY	
RATE	FEE	RATE	FEE	RATE	FEE
		OR			770
		OR			
		OR			
		OR			
TOTAL		OR	TOTAL		770

* If the difference in column 1 is less than zero, enter "0" in column 2

4-15-05 **CLAIMS AS AMENDED - PART II**

AMENDMENT A	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA
	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR		
Total	15	Minus		7
Independent	3	Minus		
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				

SMALL ENTITY		OR		OTHER THAN SMALL ENTITY	
RATE	ADDITIONAL FEE	RATE	ADDITIONAL FEE	RATE	ADDITIONAL FEE
		OR			
		OR			
		OR			
TOTAL ADDT. FEE		OR	TOTAL ADDT. FEE		

AMENDMENT B	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA
	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR		
Total	15	Minus	24	
Independent	3	Minus	4	
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				

SMALL ENTITY		OR		OTHER THAN SMALL ENTITY	
RATE	ADDITIONAL FEE	RATE	ADDITIONAL FEE	RATE	ADDITIONAL FEE
		OR			
		OR			
		OR			
TOTAL ADDT. FEE		OR	TOTAL ADDT. FEE		

AMENDMENT C	(Column 1)	(Column 2)	(Column 3)	PRESENT EXTRA
	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR		
Total	15	Minus	24	
Independent	3	Minus	4	
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				

SMALL ENTITY		OR		OTHER THAN SMALL ENTITY	
RATE	ADDITIONAL FEE	RATE	ADDITIONAL FEE	RATE	ADDITIONAL FEE
		OR			
		OR			
		OR			
TOTAL ADDT. FEE		OR	TOTAL ADDT. FEE		

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

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Rev. 6/98
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/199,797	07/19/2002	Gregory T. Osterhout	11032RRUS04D	1786
35527	7590	02/27/2006	EXAMINER	
DUKE W. YEE YEE & ASSOCIATES, P.C. P.O. BOX 802333 DALLAS, TX 75380			NGUYEN, THUAN T	
			ART UNIT	PAPER NUMBER
			2685	

DATE MAILED: 02/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/199,797	Applicant(s) OSTERHOUT ET AL.	
	Examiner THUAN T. NGUYEN	Art Unit 2685	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 52-62 and 66-69 is/are pending in the application.
4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) 52-62 is/are allowed.
- 6) Claim(s) 66, 68 and 69 is/are rejected.
- 7) Claim(s) 67 is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. ____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Remarks

1. Claims 52-62 and 66-69 are pending for examination. The examiner offered a suggestion to the applicants' representative to revise claim 66 on Feb 02, 2006 on a telephone discussion for this claim to be in a better condition for allowance, but the applicants' representative denies complying with the examiner's suggestion and prefers the claim stayed as it is.

Allowable Subject Matter

2. Claims 52-62 are allowed.

3. The indicated allowability previously of claims 68 and 69 is withdrawn in view of the newly discovered reference(s) to Pirot et al. (US Patent no. 6,856,676 B1). Rejections based on the newly cited reference(s) follow.

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance:

The closest prior arts of record issued to Wang and Pepe fails to combine to teach or suggest a method for processing a call as claimed in claim 52 and 56 including at least a step of receiving at a session initiated protocol (SIP) server a notice of a call for a mobile data processing system associated with a user and detailed steps as claimed therein.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

5. Applicant's arguments with respect to claims 66-69 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

*A person shall be entitled to a patent unless --
(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.*

7. Claims 66 and 68-69 are rejected under 35 U.S.C. 102(e) as being anticipated by Pirot et al. (U.S. Patent No. 6,856,676 B1).

Regarding claim 66, Pirot discloses a method for initiating calls comprising the steps of receiving registration of an incoming call, which is formatted in a first protocol, and translating the registration from the first protocol to a second protocol to form a modified registration notice, and transmitting the modified registration notice to a terminating device, and the modified registration notice formatted in a second protocol (refer to Figs. 1 & 3, an incoming call is registered with the system in a first protocol –called registration admission status using a number of protocols including a first protocol session initiation protocol or SIP, refer to col. 5/lines 30-40; and as the system receives the registration notice, the registration is being modified to form a modified registration notice with the use of service provisioning within a service management

Art Unit: 2685

subsystem 52, refer to col. 11/lines 17-41, to a second protocol (col. 13/line 54-65); and the modified registration notice is sending to the terminating device in the format of the second protocol in HTML (see col. 13/line 49 to col. 14/line 13 for provisioning and modification of registration services into HTML-a second protocol; and col. 16/lines 36-48 for presentation to the customer using graphical screen layouts).

As for claims 68 and 69, as already noted and explained above, Pirot discloses wherein the first protocol is a session initiation protocol and the second protocol is a hypertext markup language.

Allowable Subject Matter

8. Claims 67 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

9. The following is a statement of reasons for the indication of allowable subject matter:

The closest prior art of Pirot does not further disclose the feature of claim 66 AND the steps as claimed in claim 67.

Conclusion

10. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to the New Central Fax number:

(571) 273-8300, (for Technology Center 2600 only)

Hand deliveries must be made to Customer Service Window,
Randolph Building, 401 Dulany Street, Alexandria, VA 22314.

Art Unit: 2685

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Thuan Nguyen whose telephone number is (571) 272-7895. The examiner can normally be reached on Monday-Friday from 9:30 AM to 7:00 PM, with alternate Fridays off.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



TONY T. NGUYEN
PATENT EXAMINER

Tony T. Nguyen
Art Unit 2685
February 17, 2006

Notice of References Cited	Application/Control No. 10/199,797	Applicant(s)/Patent Under Reexamination OSTERHOUT ET AL.	
	Examiner THUAN T. NGUYEN	Art Unit 2685	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A US-6,856,676 B1	02-2005	Pirot et al.	379/201.01
B	US-			
C	US-			
D	US-			
E	US-			
F	US-			
G	US-			
H	US-			
I	US-			
J	US-			
K	US-			
L	US-			
M	US-			

FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
N					
O					
P					
Q					
R					
S					
T					

NON-PATENT DOCUMENTS

*	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
U	
V	
W	
X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



Commissioner for Patents
Washington, DC 20231
www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 1786

SERIAL NUMBER 10/199,797	FILING DATE 07/19/2002 RULE	CLASS 455	GROUP ART UNIT 2684 2685	ATTORNEY DOCKET NO. 11032RRUS04D
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APPLICANTS
Gregory T. Osterhout, Coppell, TX;
Kim B. Holmes, Rowlett, TX;
Mark Sosebee, Plano, TX;

**** CONTINUING DATA *******
This application is a DIV of 09/419,175 10/15/1999

**** FOREIGN APPLICATIONS ******* *Yes, 8/02*
No / 7/02

IF REQUIRED, FOREIGN FILING LICENSE GRANTED
**** 09/03/2002**

Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance	STATE OR COUNTRY TX	SHEETS DRAWING 10	TOTAL CLAIMS <i>24</i> 15	INDEPENDENT CLAIMS <i>4</i> 3
Verified and Acknowledged Examiner's Signature: <i>[Signature]</i> Initials: <i>[Initials]</i>					

ADDRESS
021498

TITLE
Portable call management system

FILING FEE RECEIVED 896	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:	<input type="checkbox"/> All Fees
		<input type="checkbox"/> 1.16 Fees (Filing)
		<input type="checkbox"/> 1.17 Fees (Processing Ext. of time)
		<input type="checkbox"/> 1.18 Fees (Issue)
		<input type="checkbox"/> Other _____
		<input type="checkbox"/> Credit

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SEARCH			
Class	Sub.	Date	Exmr.
455	417	9/2/03	885
	412.1		
	412.2		
	414.1		
	415		
	425		
	458		
	459		
	463		
	466		
	556.1		
	556.2		
	(1DA)		
709	217	9/3/03	875
	219		
	220		
	227		
340	3.52		
	3.53		
	3.54		
	825.21		
	7.46		
	7.47		
	7.52		
	updated above of 404		806
	updated above		7/15/05 807

INTERFERENCE SEARCHED			
Class	Sub.	Date	Exmr.
455	417	1/19/06	807
	442		
	435.1		
	436		
	414.4		
	432.2		

SEARCH NOTES		
(List databases searched. Attach search strategy inside.)		
	Date	Exmr.
Fast Search	9/2/03	80
"	9/3/03	80
Wynona	9/2/03	80
Fast Search	10/4/04	80
"	12/1/04	80
"	7/11/05	80
"	7/15/05	80
Fast updated	1/13/06	80
455	442	1/13/06
	445	80
	435.1	
	435.2	
	435.3	
	436	
	438	
	439	
	414.4	
	432.2	
340	825.2	
	7.5	
	3.52	
	3.53	
	3.54	
	7.45	
	7.46	

340/3.5, 3.52, 3.53, 3.54, 7.45, 7.46/11906 9/15/05

Best Available Copy

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4700	registration near5 (call or notice or acknowledg\$5)	US-PGPUB; USPAT; EPO	OR	ON	2006/02/17 15:47
L2	351	1 and "session initiation protocol"	US-PGPUB; USPAT; EPO	OR	ON	2006/02/17 15:45
L3	13	2 and "second protocol"	US-PGPUB; USPAT; EPO	OR	ON	2006/02/17 15:45
L4	5	3 and ("hypertext markup language" or HTML)	US-PGPUB; USPAT; EPO	OR	ON	2006/02/17 15:45
L5	1762	registration and ("session initiation protocol" or SIP)	US-PGPUB; USPAT; EPO	OR	ON	2006/02/17 15:45
L6	247	5 and ("hypertext markup language" or HTML)	US-PGPUB; USPAT; EPO	OR	ON	2006/02/17 15:46
L7	9	6 and "second protocol"	US-PGPUB; USPAT; EPO	OR	ON	2006/02/17 15:45
L8	1	6 and (modified near5 registration)	US-PGPUB; USPAT; EPO	OR	ON	2006/02/17 15:46
L9	1	6 and (modified near5 notice)	US-PGPUB; USPAT; EPO	OR	ON	2006/02/17 15:46
L10	7	6 and (modified near5 (call or notice or acknowledg\$5))	US-PGPUB; USPAT; EPO	OR	ON	2006/02/17 15:48
L11	195	6 and modif\$4	US-PGPUB; USPAT; EPO	OR	ON	2006/02/17 15:49
L12	46	6 and modif\$4	USPAT	OR	ON	2006/02/17 16:43
L13	46	12 and protocol	US-PGPUB; USPAT; EPO	OR	ON	2006/02/17 15:49
L14	2	13 and (modif\$4 same registration)	USPAT	OR	ON	2006/02/17 16:43
S1	1	("6421436").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2006/02/17 15:41
S2	1	"6421536"	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:22

EAST Search History

S3	1	S2 and pager	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:21
S4	1	S3 and palm	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:21
S5	0	S4 and hypertext	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:21
S6	0	S4 and HTML	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:21
S7	0	S4 and PDA	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:22
S8	0	S2 and PDA	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:22
S9	26261	process\$3 near3 call	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:22
S10	1343	S9 and (PDA or "personal digital assistant")	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:23
S11	0	S10 and "Palm VI"	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:23
S12	202	S10 and Palm	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:24
S13	189	S12 and (wireless or mobile)	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:24
S14	54	S13 and setup	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:24
S15	72	S13 and (set\$1up or setup or "setting up")	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:25
S16	60	S15 and (protocol and address)	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:25
S17	51	S16 and (redirect\$3 or rerout\$3 or transferr\$3)	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:26

EAST Search History

S18	47	S17 and (request and response)	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:26
S19	21	S18 and ("caller ID" or (caller near2 identification))	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:27
S20	13	S19 and pager	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 16:07
S21	2	S20 and hypertext	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:27
S22	2	S20 and HTML	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:28
S24	2	S19 and "session initiation protocol"	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:50
S25	4	S18 and "session initiation protocol"	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:51
S26	4	S17 and "session initiation protocol"	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:52
S27	7	S16 and "session initiation protocol"	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:53
S28	12	S13 and "session initiation protocol"	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 15:09
S29	3	S28 and (hypertext or HTML)	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 14:53
S30	1	"6421536"	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 15:09
S31	0	S30 and PDA	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 15:09
S32	1	S30 and pager	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 15:09
S33	1	S32 and palm	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 15:10

EAST Search History

S34	0	S33 and "personal digital assistant"	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 15:45
S35	1	S33 and (audio or audibly or vibrat\$3 or alert\$3)	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 15:47
S36	12	S28 and (audio or audibly or vibrat\$3 or alert\$3)	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 16:02
S37	3	S28 and (vibrat\$3 or alert\$3)	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 16:02
S38	1	("6161134").PN.	US-PGPUB; USPAT; USOCR; EPO	OR	OFF	2003/09/08 16:02
S39	0	S38 and (vibrat\$3)	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 16:03
S40	0	S39 and alert\$3	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 16:03
S41	0	S38 and pager	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 16:03
S42	0	S38 and pag\$3	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 16:03
S43	8	S20 and vibrat\$3	US-PGPUB; USPAT; EPO	OR	ON	2003/09/08 16:07
S44	24318	initiat\$3 near5 call	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 16:57
S45	24	S44 and "registration notice"	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 16:58
S46	35	S44 and (registration near5 notice)	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 17:43
S47	31	S46 and protocol	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 16:58
S48	1	S47 and (modified near5 registration)	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 17:00

EAST Search History

S49	1	S47 and (second near5 protocol)	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 17:44
S50	1	S45 and (modified near5 registration)	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 17:41
S51	1291	455/417 455/442 455/435.1 455/436 455/414.4 455/432.2 340/3.5 340/3.52 340/3.53 340/3.54 340/7.45 340/7.46	US-PGPUB	OR	ON	2006/01/21 17:43
S52	3	S51 and (registration near5 notice). clm.	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 17:45
S53	42	S51 and (second near5 protocol). clm.	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 17:44
S54	1	S53 and (registration near5 notice). clm.	US-PGPUB	OR	ON	2006/01/21 17:45
S55	0	S51 and "session initiated protocol". clm.	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 17:46
S56	14	S51 and SIP.clm.	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 17:46
S57	6	S56 and address.clm.	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 17:46
S58	4	S57 and message.clm.	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 17:47
S59	2	S58 and notification.clm.	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 17:47
S60	1	S59 and call.clm.	US-PGPUB; USPAT; EPO	OR	ON	2006/01/21 17:47

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NOV 22 2005

**Yee &
Associates, P.C.**

4100 Alpha Road
Suite 1100
Dallas, Texas 75244

Main No. (972) 385-8777
Facsimile (972) 385-7766

Facsimile Cover Sheet

To: Commissioner for Patents for Examiner Thuan T. Nguyen Group Art Unit 2685	Facsimile No.: 571/273-8300
From: Carrie Parker Legal Assistant to Ted Fay	No. of Pages Including Cover Sheet: 12
Message: Transmitted herewith: <ul style="list-style-type: none"> • Transmittal Document; and • Response to Office Action. 	
Re: Application No. 10/199,797 Attorney Docket No: 11032RRUS04D	
Date: Tuesday, November 22, 2005	
Please contact us at (972) 385-8777 if you do not receive all pages indicated above or experience any difficulty in receiving this facsimile.	<i>This Facsimile is intended only for the use of the addressee and, if the addressee is a client or their agent, contains privileged and confidential information. If you are not the intended recipient of this facsimile, you have received this facsimile inadvertently and in error. Any review, dissemination, distribution, or copying is strictly prohibited. If you received this facsimile in error, please notify us by telephone and return the facsimile to us immediately.</i>

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Osterhout et al.

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§
§

Group Art Unit: 2685

Serial No.: 10/199,797

Examiner: Nguyen, Thuan T.

Filed: July 19, 2002

Attorney Docket No.: 11032RRUS04D

For: Portable Call Management System

Certificate of Transmission Under 37 C.F.R. § 1.8(a)
I hereby certify this correspondence is being transmitted via facsimile to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, facsimile number (571) 273-8300 on November 22, 2005.
By: Carrie Parker
Carrie Parker

35527

PATENT TRADEMARK OFFICE
CUSTOMER NUMBER

TRANSMITTAL DOCUMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

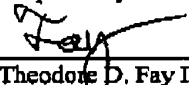
Sir:

ENCLOSED HEREWITH:

- Response to Office Action

No fees are believed to be required. If, however, any fees are required, I authorize the Commissioner to charge these fees which may be required to Yee & Associates, P.C. Deposit Account No. 50-3157. No extension of time is believed to be necessary. If, however, an extension of time is required, the extension is requested, and I authorize the Commissioner to charge any fees for this extension to Yee & Associates, P.C. Deposit Account No. 50-3157.

Respectfully submitted,


Theodore D. Fay III
Registration No. 48,504
Duke W. Yee
Registration No. 34,285
YEE & ASSOCIATES, P.C.
P.O. Box 802333
Dallas, Texas 75380
(972) 385-8777
ATTORNEYS FOR APPLICANTS

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NOV 22 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Osterhout et al.**

Serial No.: **10/199,797**

Filed: **July 19, 2002**

For: **Portable Call Management System**

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Group Art Unit: **2685**

Examiner: **Nguyen, Thuan T.**

Attorney Docket No.: **11032RRUS04D**

Certificate of Transmission Under 37 C.F.R. § 1.8(a)
 I hereby certify this correspondence is being transmitted via facsimile to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, facsimile number (571) 273-8300 on November 22, 2005.

By: Carrie Parker
 Carrie Parker

RESPONSE TO OFFICE ACTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

No fees are believed to be required. If, however, any fees are required, I authorize the Commissioner to charge these fees which may be required to Yee & Associates, P.C. Deposit Account No. 50-3157. No extension of time is believed to be necessary. If, however, an extension of time is required, the extension is requested, and I authorize the Commissioner to charge any fees for this extension to Yee & Associates, P.C. Deposit Account No. 50-3157.

In response to the Office Action dated August 23, 2005, please amend the above-identified application as follows:

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 5 of this paper.

IN THE CLAIMS:

1-51. (Canceled)

52. (Previously Presented) A method in a communications system for processing a call, the method comprising:

receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user;

identifying an address to which the call is to be sent from a database of preferred locations, wherein the user has previously indicated a preferred location;

sending a first request to setup the call to the mobile data processing system associated with a the user, wherein the mobile data processing system has a wireless communications capability;

sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system; and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed;

receiving, prior to establishing the call, a response to the request, wherein the response includes the address for the call input by the user of the mobile data processing system in response to receiving the notification message; and

sending a second request to setup the call to the user using the address.

53. (Original) The method as recited in claim 52, wherein the data processing system is a personal digital assistant.

54. (Previously Presented) The method as recited in claim 53, wherein the personal digital assistant is a Palm VII.

55. (Original) The method as recited in claim 52, wherein the request and the response are session initiation protocol messages.

56. (Previously Presented) A method for processing a call at a data processing system the method comprising:
- receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user;
 - identifying an address to which the call is to be sent from a database of preferred locations, wherein the user has previously indicated a preferred location;
 - receiving a notification message at the data processing system indicating a request to setup the call;
 - presenting the notification to the user at the data processing system;
 - receiving the request to establish the call;
 - presenting caller information at the data processing system;
 - receiving user input from the user identifying an address to which the call is to be directed; and
 - responsive to an identification of the address for the call, returning a response including the address to which the call is to be directed.
57. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises displaying the caller information.
58. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises presenting the caller information audibly.
59. (Original) The method as recited in claim 56, wherein the request and the response are session initiation protocol messages.
60. (Original) The method as recited in claim 56, wherein the data processing system is a wireless device.
61. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises a vibrating alert.

62. (Original) The method as recited in claim 56, wherein the data processing system is a two-way pager.

63-65. (Canceled)

66. (Currently Amended) A method for initiating calls, comprising the steps of:
receiving registration notice of an incoming call, wherein said registration notice is formatted in a first protocol;
translating said registration notice from the first protocol into a second protocol to form a modified registration notice; and
transmitting [[a]] the modified registration notice to a terminating device; wherein the modified registration notice is formatted in the second protocol.

67. (Original) The method as recited in claim 66, further comprising:
selecting, at a session initiated protocol (SIP) server, an address to which the user has previously selected the call be sent from a database of preferred locations;
receiving a location data with which to redirect the incoming call from the terminating device; wherein the location data is formatted in the second protocol; and
translating the location data to a second location data; and
transmitting the second location data, wherein the second location data is formatted in the second protocol.

68. (Original) The method as recited in claim 66, wherein the first protocol is a session initiation protocol.

69. (Original) The method as recited in claim 66, wherein the second protocol is a hypertext markup language.

REMARKS

Claims 52-62 and 66-69 are pending in the present application. Claim 66 is amended. Reconsideration of the claims is respectfully requested.

I. 35 U.S.C. § 102, Anticipation

The examiner rejects claim 66 as anticipated by *Buttitta et al.*, Arrangement for Providing a Call Hand-Off for a Mobile Station from a Land-Line Supported Private Base Station to a Cellular Base Station Operating in a Cellular System, U.S. Patent 5,913,166 (June 15, 1999) (hereinafter "*Buttitta*"). This rejection is respectfully traversed.

As to claim 66 the Office Action states:

Regarding claim 66, *Buttitta* discloses a method for initiating calls comprising the steps of receiving registration of an incoming call, which is formatted in a first protocol, and translating the registration from the first protocol to a second protocol, and transmitting a modified registration notice to a terminating device, and the modified registration notice formatted in a second protocol (refer to Fig. 1, 2A & 2B as the mobile terminal registers with its private system in a first protocol, and as the mobile hands off or transfers an active call to a public communication system, the system modifies the registration in a second protocol, which is the public communication system, and the acknowledgement or modified registration notice is sending to the terminal for call activation, see further details on col. 5/line 48 to col. 6/line 26 and col. 7/line 35 to col. 8/line 23).

Office Action of August 23, 2005, p. 3.

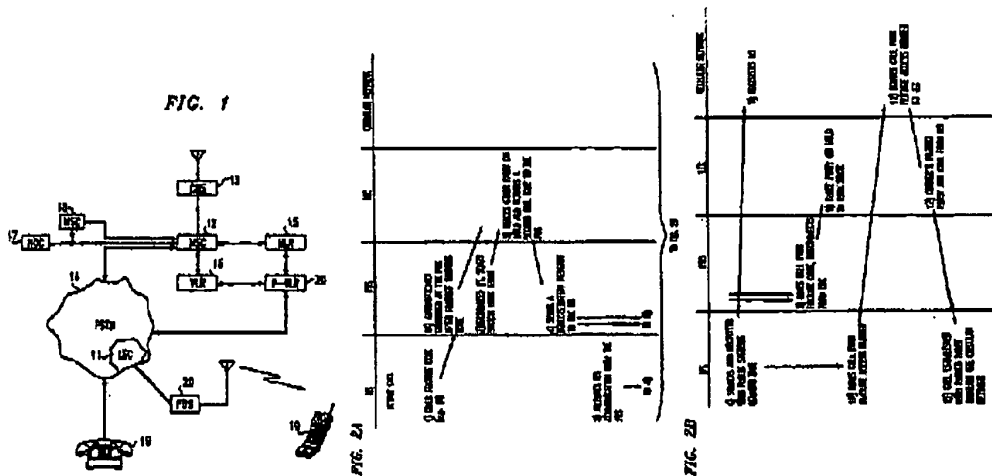
A prior art reference anticipates the claimed invention under 35 U.S.C. § 102 only if every element of a claimed invention is identically shown in that single reference, arranged as they are in the claims. *In re Bond*, 910 F.2d 831, 832, 15 U.S.P.Q.2d 1566, 1567 (Fed. Cir. 1990). All limitations of the claimed invention must be considered when determining patentability. *In re Lowry*, 32 F.3d 1579, 1582, 32 U.S.P.Q.2d 1031, 1034 (Fed. Cir. 1994). Anticipation focuses on whether a claim reads on the product or process a prior art reference discloses, not on what the reference broadly teaches. *Kalman v. Kimberly-Clark Corp.*, 713 F.2d 760, 218 U.S.P.Q. 781 (Fed. Cir. 1983). In this case each and every feature of the presently claimed invention is not identically shown in the cited reference, arranged as they are in the claims.

Claim 66 as amended is as follows:

66. A method for initiating calls, comprising the steps of:
 receiving registration notice of an incoming call, wherein said registration notice is formatted in a first protocol;
 translating said registration notice from the first protocol into a second protocol to form a modified registration notice; and
 transmitting the modified registration notice to a terminating device; wherein the modified registration notice is formatted in the second protocol.

Buttitta does not anticipate claim 66 because *Buttitta* does not teach the claimed feature of "translating said registration notice from the first protocol into a second protocol" *Buttitta* also does not teach translating the registration notice "to form a modified registration notice," in the manner claimed.

The examiner asserts otherwise, citing to figures 1, 2A, and 2B, as well as portions of the cited text. These figures are as follows:



These figures teach establishing a new call while a first call is on hold. The new call is placed on a public base station, whereas the old call is made on a private base station. After the new call is established, the old call is terminated. One of ordinary skill would not and can not interpret this process as "translating said registration notice from the first protocol into a second protocol to form a modified registration notice" as claimed. No translation of a registration notice takes place and no modified registration notice is formed; instead, a first call is ended and a second call is established. For this reason, *Buttitta* does not teach all of the features of claim 66.

In addition, the text cited by the examiner is as follows:

FIG. 2 shows a first protocol of a call hand-off process for handing-off an active call from the private wireless system to the public cellular system with minimal disruption to the parties conversing in the call. In the execution of the process, telephone communications are switched from a first path, which includes a wireless communications path between the mobile station 10 and the private base station 20, to a second path, which includes a wireless communications path between the mobile station 10 and the public base station 13, for maintaining the communications between the mobile station and a remote telephone station.

In the execution of the hand-off of telephone communications occurring in the mobile station from the private base station 20 to the cellular base station 13, in accordance with the first described protocol of the embodiment of the invention, the arrangement uses third party call and call park features presently available on a 5ESS.RTM. electronic switch manufactured by AT&T Corp. The 5ESS electronic switch is well known and is described in general in the AT&T Technical Journal, Volume 64, Number 6, Part 2, July-August 1985. The 5ESS electronic switch may easily function as the local exchange carrier switch 11, and thereby provide access for the private base station 20 to the public switched telephone network 14.

Available on most local exchange carrier switches, the third party call feature, like three-way calling, permits a subscriber at a first telephone to send a switch-hook flash signal to the local exchange carrier switch for placing the other party to the call in progress on hold in the switch and obtaining dial tone at the telephone. In the application of the third party call feature, the subscriber at the first telephone is able to make a telephone call to a second telephone number while leaving the other party to the call on hold.

The call park feature is invoked by a code transmitted to the switch 11 from the private base station 20. This feature is described in detail in, for example, AT&T's 5ESS Switch Business and Residence Custom Services Feature Descriptions, Document Number 235-190-101, Issue 5, dated November 1993, pages 8-92 through 8-107. By way of general operation, the call park feature simply provides a way for a subscriber at a first telephone connected to the switch 11 to place a remote party to a conversation on hold in the switch, disconnect from the call, and then from a different telephone reconnect to the party placed on hold by dialing an appropriate call park feature access code recognized by the switch.

...
The execution of the hand-off process is conveniently described in the following steps, which may be more easily understood when read in conjunction with the flowchart shown in FIG. 2.

Page 7 of 10
Osterhout et al. - 10/199,797

1) From an active call the user presses a feature code (e.g. #T). This sends to the PBS a hand-off trigger.

1a) The PBS detects low signal strength from the MS and sends to the MS hand-off warning tones, after which the PBS proceeds with the following process.

2) The PBS sends a switch-hook flash to the LEC.

3) The LEC places the other party on hold and returns a dial tone to the PBS.

4) *The PBS sends a deregistration message to the MS.*

5) *The MS ceases communications with the PBS and releases its channel.*

6) *The MS selects and registers With the public cellular system. The registration with the public system will automatically update the MS's Temporary Listed Directory Number (TLDN) with the corresponding HLR/VLR.*

7) The public cellular system accepts the MS registration.

8) After step 4, the PBS sends a call park feature code in order to invoke the call park feature and optionally a PIN at the LEC.

9) The LEC places the other party on hold into the parked state.

10) The MS dials the call park feature access number over the cellular network.

11) The cellular network routes the call park feature access number to the LEC.

12) The LEC connects the parked party and the call from the MS.

13) The call with parked party is established with MS through cellular network.

The entire hand-off process for the mobile station may be achieved within 5 seconds. This time is subject to the number of digits that are transmitted to the switch 11 by both the private base station 20 as well as the mobile station 10 during the hand-off process. The hand-off may be achieved in less time, for example, if the PIN and/or MIN are not provided to the switch 11.

Although numerous switches presently available in the art serve as the LEC switch 11, many do not have a call park capability. Nevertheless, it is possible to achieve a call hand-off for a private wire ess system which has a private base station connected to a switch without such feature.

In the execution of the hand-off of the mobile station from the private base station 20 to the cellular base station 13, in accordance with a second described protocol of the embodiment, the arrangement uses third party call and conference bridge features available at the local exchange carrier switch 11. This switch 11 also provides access for the private base station 20 to the public switched telephone network 14.

Buttitta, col. 5, l. 48 through col. 6, l. 26 and col. 7, l. 35 through col. 8, l. 23 (emphasis supplied).

The emphasized portions of the text shows that *Buttitta* does not perform a translation of a registration notice in the manner claimed. Instead, *Buttitta* teaches placing a first call on hold, placing a second call using a public base station, ending the first call, and continuing with the second call. In other words, *Buttitta* teaches terminating a first registration and then establishing an entirely new registration. One of ordinary skill would not and can not interpret this process as “translating said registration notice from the first protocol into a second protocol to form a modified registration notice” as claimed. No translation takes place and no modified registration notice is formed; instead, a first call is ended and a second call is established. Thus, at most, *Buttitta* might teach that a first registration notice is established and terminated and then a second registration notice is established. For this reason, *Buttitta* does not teach all of the features of claim 66. Accordingly, *Buttitta* does not anticipate claim 66. Therefore, the rejection of claim 66 under 35 U.S.C. § 102 has been overcome.

Furthermore, *Buttitta* does not teach, suggest, or give any incentive to make the needed changes to reach the presently claimed invention. *Buttitta* et al. actually teaches away from the presently claimed invention because it teaches establishing first and second calls, as opposed to translating a first registration notice as in the presently claimed invention. Absent the examiner pointing out some teaching or incentive to implement *Buttitta* translating a first registration notice in the manner claimed, one of ordinary skill in the art would not be led to modify *Buttitta* to reach the present invention when the reference is examined as a whole. Absent some teaching, suggestion, or incentive to modify *Buttitta* in this manner, the presently claimed invention can be reached only through an improper use of hindsight using Applicants’ disclosure as a template to

make the necessary changes to reach the claimed invention.

II. Objection to Claims

The examiner states that claims 67-69 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. As shown above, claim 66 should be allowable over *Buttitta*. Thus, claims 67-69 should also be allowable in their present form.

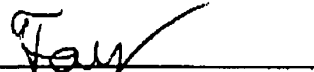
III. Conclusion

It is respectfully urged that the subject application is patentable over *Buttitta* and is now in condition for allowance.

The examiner is invited to call the undersigned at the below-listed telephone number if in the opinion of the examiner such a telephone conference would expedite or aid the prosecution and examination of this application.

DATE: November 22, 2005

Respectfully submitted,



Theodore D. Fay III
Reg. No. 48,504
Yee & Associates, P.C.
P.O. Box 802333
Dallas, TX 75380
(972) 385-8777
Attorney for Applicants

PATENT APPLICATION FEE DETERMINATION RECORD
Effective November 10, 1998

Application or Docket Number

10/199977 PEE
10/14/01

CLAIMS AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA
BASIC FEE		770
TOTAL CLAIMS	15 minus 20 = *	
INDEPENDENT CLAIMS	3 minus 3 = *	
MULTIPLE DEPENDENT CLAIM PRESENT		

* If the difference in column 1 is less than zero, enter "0" in column 2

SMALL ENTITY TYPE OR OTHER THAN SMALL ENTITY

RATE	FEE	OR	RATE	FEE
		OR		770
		OR		
		OR		
		OR		
TOTAL		OR	TOTAL	770

CLAIMS AS AMENDED - PART II

4-15-05

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT	(Column 2) MINUS	(Column 3) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 4) PRESENT EXTRA
AMENDMENT A				
Total	15	Minus	**	= /
Independent	3	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				

SMALL ENTITY OR OTHER THAN SMALL ENTITY

RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
		OR		
		OR		
		OR		
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT	(Column 2) MINUS	(Column 3) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 4) PRESENT EXTRA
AMENDMENT B				
Total	15	Minus	** 24	= /
Independent	3	Minus	*** 4	= /
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				

RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
		OR		
		OR		
		OR		
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT	(Column 2) MINUS	(Column 3) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 4) PRESENT EXTRA
AMENDMENT C				
Total		Minus	**	=
Independent		Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				

RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
		OR		
		OR		
		OR		
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

FORM PTO-675
Rev. 6/99
1/98

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11/11



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/199,797	07/19/2002	Gregory T. Osterhout	11032RRUS04D	1786
35527	7590	08/23/2005	EXAMINER NGUYEN, THUAN T	
DUKE W. YEE YEE & ASSOCIATES, P.C. P.O. BOX 802333 DALLAS, TX 75380			ART UNIT	PAPER NUMBER
			2685	

DATE MAILED: 08/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/199,797	Applicant(s) OSTERHOUT ET AL.	
	Examiner THUAN T. NGUYEN	Art Unit 2685	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 52-62 and 66-69 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 52-62 is/are allowed.
- 6) Claim(s) 66 is/are rejected.
- 7) Claim(s) 67-69 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 19 July 2002 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Remarks

1. Claims 52-62 and 66-69 are pending for examination.

Allowable Subject Matter

2. Claims 52-62 are allowed.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

The closest prior arts of record issued to Wang and Pepe fails to combine to teach or suggest a method for processing a call as claimed in claim 52 and 56 including at least a step of receiving at a session initiated protocol (SIP) server a notice of a call for a mobile data processing system associated with a user and detailed steps as claimed therein.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claim Rejections - 35 USC 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --
(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claim 66 is rejected under 35 U.S.C. 102(e) as being anticipated by Buttitta et al. (U.S. Patent No. 5,913,166).

Regarding claim 66, Buttitta discloses a method for initiating calls comprising the steps of receiving registration of an incoming call, which is formatted in a first protocol, and translating the registration from the first protocol to a second protocol, and transmitting a modified registration notice to a terminating device, and the modified registration notice formatted in a second protocol (refer to Fig. 1, 2A & 2B as the mobile terminal registers with its private system in a first protocol, and as the mobile hands off or transfers an active call to a public communication system, the system modifies the registration in a second protocol, which is the public communication system, and the acknowledgement or modified registration notice is sending to the terminal for call activation, see further details on col. 5/line 48 to col. 6/line 26 and col. 7/line 35 to col. 8/line 23).

Allowable Subject Matter

6. Claims 67-69 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter:

The closest prior art of Buttitta does not further disclose the steps as claimed in claims 67-69.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kulkarni et al and Zicker (PTO 892 attached) disclose systems related to hand offs using different approaches.

9. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9306, (for Technology Center 2600 only)

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Thuan Nguyen whose telephone number is (571) 272-7895.

The examiner can normally be reached on Monday-Friday from 9:30 AM to 7:00 PM, with alternate Fridays off.

Art Unit: 2685

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**TONY T. NGUYEN
PATENT EXAMINER**

Tony T. Nguyen
Art Unit 2685
July 15, 2005

Notice of References Cited	Application/Control No. 10/199,797	Applicant(s)/Patent Under Reexamination OSTERHOUT ET AL.	
	Examiner THUAN T. NGUYEN	Art Unit 2685	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
A	US-5,913,166	06-1999	Buttitta et al.	455/436
B	US-5,862,481	01-1999	Kulkami et al.	455/432.2
C	US-6,526,277 B1	02-2003	Zicker et al.	455/426.2
D	US-			
E	US-			
F	US-			
G	US-			
H	US-			
I	US-			
J	US-			
K	US-			
L	US-			
M	US-			

FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
N					
O					
P					
Q					
R					
S					
T					

NON-PATENT DOCUMENTS

*	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
U	
V	
W	
X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

SEARCH

Class	Sub.	Date	Exmr.
455	417	9/2/03	89%
	412.1		
	412.2		
	414.1		
	415		
	425		
	458		
	459		
	463		
	466		
	556.1		
	556.2		
709	(IDA) 217	9/3/03	87%
	219		
	220		
	227		
340	3.52		
	3.53		
	3.54		
	825.29		
	7.46		
	7.47		
	7.52		
	Updated since 10/4/04		86%
	updated above		7/15/05 87%

INTERFERENCE SEARCHED

Class	Sub.	Date	Exmr.

SEARCH NOTES

(List databases searched. Attach search strategy inside.)

	Date	Exmr.
Fast Searchy	9/2/03	86%
" -	9/3/03	86%
Wagner No	9/3/03	88%
Fast Searchy	10/4/04	86%
"	12/12/04	86%
"	7/11/05	89%
"	7/15/05	82%

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7/15/05



- Drafts
- Pending
- Active
 - L1: (121724) "455"/\$.ccls. or "379"/\$.ccls.
 - L2: (747) 1 and ((register\$3 or registration) near8 "incoming call")
 - L3: (8) 2 and "first protocol"
 - L4: (8) 3 and "second protocol"
 - L5: (1) 4 and "session initiation protocol"
 - L6: (1) 4 and HTML
- Failed
- Saved
 - S1: (1) ("6421436").PN.
 - S2: (1) "6421536"
 - S3: (1) S2 and pager
 - S4: (1) S3 and palm
 - S5: (0) S4 and hometext

Search List Browse Queue Clear

DBs US-PGPUB; USPAT; EPO Plurals

Default operator: OR Highlight all hit terms initially

3 and "second protocol"

BRS form IS&R form Image Text HTML

	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current	Ret	Inventor	S
2	<input type="checkbox"/>	<input type="checkbox"/>	US 2002018777	20021212	20	Portable call management system	455/417	455/445; 455/461		Osterhout, Gregory T. et al.	<input type="checkbox"/>
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6526277 B1	20030225	61	Multiple mode personal wireless communications	455/426.2	455/465		Zicker, Robert G. et al.	<input type="checkbox"/>
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6097966 A	20000801	15	Wireless access for local exchange carriers	455/555	455/422.1; 455/461;		Hanley, Donald V.	<input type="checkbox"/>
5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6014379 A	20000111	21	Telecommunications custom calling services	370/389	370/352; 370/401;		White, Patrick E. et al.	<input type="checkbox"/>
6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5913166 A	19990615	16	Arrangement for providing a call hand-off for a mobile	455/436	455/444; 455/461;		Buttitta, Anthony et al.	<input type="checkbox"/>
7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5862481 A	19990119	22	Inter-technology roaming proxy	455/432.2	455/432.3; 455/445		Kulkarni, Sanjay et al.	<input type="checkbox"/>

EAST - [10199797.wsp:1]

File View Edit Tools Window Help

Drafts
 Pending
 Active

- ☞ L1: (121724) "455"/\$.cls. or "379"/\$.cls.
- ☞ L2: (747) 1 and ((register\$3 or registration) near8 "incoming call")
- ☞ L3: (8) 2 and "first protocol"
- ☞ L4: (8) 3 and "second protocol"
- ☞ L5: (1) 4 and "session initiation protocol"

 Failed
 Saved

- ☞ S1: (1) ("6421436").PN.
- ☞ S2: (1) "6421536"
- ☞ S3: (1) S2 and pager
- ☞ S4: (1) S3 and palm
- ☞ S5: (0) S4 and hypertext
- ☞ S6: (0) S4 and HTML
- ☞ S7: (0) S4 and PDA
- ☞ S8: (0) S2 and PDA
- ☞ S9: (26261) process\$3 near3 call
- ☞ S10: (1343) S9 and (PDA or "personal digital assistant")
- ☞ S11: (0) S10 and "Palm VI"
- ☞ S12: (202) S10 and Palm
- ☞ S13: (189) S12 and (wireless or mobile)

US 2002/018777A1

(a) United States
 Patent Application Publication (a) Pub. No.: US 2002/018777 A1
 Osterhout et al. (c) Pub. Date: Dec. 12, 2002

(4) PORTABLE CALL MANAGEMENT SYSTEM Publication Classification

(5) Invention: Gregory T. Osterhout, Cypress, TX (51) Int. Cl.⁷ H04M 2/42
 (10) Kim B. Shuman, Houston, TX (52) U.S. Cl. 484/17, 455/441, 455/461
 (15) Mark S. Jordan, Houston, TX (53) 455/422

Correspondence Address: INTEL NETWORKS CORPORATION, INTELLECTUAL PROPERTY LAW GROUP, P.O. BOX 62128, RICHARDSON, TX 75080 (57) ABSTRACT

(21) Appl. No.: 09/294,997
 (22) Filed: Jul. 11, 2002
 (30) Related U.S. Application Data: None

(43) Process of application No. 08/419,173, filed on Oct. 13, 1999.

A method of reducing a call from a first processing system to another system by performing sub-processing, a number of sub-processing calls received from a server as a data processing system. This system may include a data communication interface as well. The user of the data processing system is prompted by a system to track the user across the call to be reduced. The user then identifies and sends to the server a new address to which the incoming call is to be returned. The server then returns the call to the new address.

BRS form IS&R form Image Text HTML

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current Ret	Inventor	S
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20020187777 A1	20021212	20	Portable call management system	455/417	455/445; 455/461	Osterhout, Gregory T. et al.	<input checked="" type="checkbox"/>

Hits Details HTML

Ready

- ☐ Drafts
- ☐ Pending
- ☑ Active
 - ☑ L1: (121724) "455"/\$.ccls. or "379"/\$.ccls.
 - ☑ L2: (747) 1 and ((register\$3 or registration) near8 "incoming call")
 - ☑ L3: (8) 2 and "first protocol"
 - ☑ L4: (8) 3 and "second protocol"
 - ☑ L5: (1) 4 and "session initiation protocol"
 - ☑ L6: (1) 4 and HTML
- ☐ Failed
- ☑ Saved
 - ☑ S1: (1) ("6421436").PN.
 - ☑ S2: (1) "6421536"
 - ☑ S3: (1) S2 and pager
 - ☑ S4: (1) S3 and palm
 - ☑ S5: (0) S4 and hypertext
 - ☑ S6: (0) S4 and HTML
 - ☑ S7: (0) S4 and PDA
 - ☑ S8: (0) S2 and PDA
 - ☑ S9: (26261) process\$3 near3 call
 - ☑ S10: (1343) S9 and (PDA or "personal digital assistant")
 - ☑ S11: (0) S10 and "Palm VI"
 - ☑ S12: (202) S10 and Palm

US 2002/18777 A1

(en) United States
 (ca) Patent Application Publication (en) Pub. No.: US 2002/18777 A1
 (ca) Inventor: Osterhout et al. (ca) Pub. Date: Dec. 12, 2002

(40) PORTABLE CALL MANAGEMENT SYSTEM Publication Classification
 (70) Inventor: Gregory T. Osterhout, Cypress, TX (51) Int. Cl. H04M 3/49
 (52) Class. in Division: H04M 3/49 (52) U.S. Cl. 455/445; 455/461; 455/462; 455/463

Correspondence Address:
 INTELLECTUAL PROPERTY LAW GROUP
 P.O. BOX 62124
 RICHARDSON, TX 75081-0212 (77) ABSTRACT

(21) Appl. No.: 08/194,397
 (22) Filed: Jul. 11, 2000
 Related U.S. Application Data
 (30) Division of application No. 08/419,173, filed on Oct. 15, 1996.

A method of managing a call from a call processing system to another system. In a preferred embodiment, a method of managing call service from a server in a call processing system. This method may include call identification techniques as well. The flow of the data processing system is described by a flow diagram to which the user may refer to in the abstract. The user may identify and search to the server a new address to which the incoming call is to be processed. The server then returns the call to the new address.

BRS form
 IS&R form
 Image
 Text
 HTML

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current Ret	Inventor	S
1	<input type="checkbox"/>	<input type="checkbox"/>	US 2002018777 A1	20021212	20	Portable call management system	455/417	455/445; 455/461	Osterhout, Gregory T. et al.	<input checked="" type="checkbox"/>

PATENT APPLICATION FEE DETERMINATION RECORD
Effective November 10, 1998

Application or Docket Number

10/199977 *lee*
11/14/01

CLAIMS AS FILED - PART I

FOR	NUMBER FILED (Column 1)	NUMBER EXTRA (Column 2)
BASIC FEE		770
TOTAL CLAIMS	15 minus 20 = *	
INDEPENDENT CLAIMS	3 minus 3 = *	
MULTIPLE DEPENDENT CLAIM PRESENT		

* If the difference in column 1 is less than zero, enter "0" in column 2

CLAIMS AS AMENDED - PART II

4-15-05

AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT (Column 1)	HIGHEST NUMBER PREVIOUSLY PAID FOR (Column 2)	PRESENT EXTRA (Column 3)
Total	* 15 Minus	**	=
Independent	* 3 Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM			

AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT (Column 1)	HIGHEST NUMBER PREVIOUSLY PAID FOR (Column 2)	PRESENT EXTRA (Column 3)
Total	* Minus	**	=
Independent	* Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM			

AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT (Column 1)	HIGHEST NUMBER PREVIOUSLY PAID FOR (Column 2)	PRESENT EXTRA (Column 3)
Total	* Minus	**	=
Independent	* Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM			

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

SMALL ENTITY TYPE OR OTHER THAN SMALL ENTITY

RATE	FEE	OR	RATE	FEE
		OR		770
		OR		
		OR		
		OR		
TOTAL		OR	TOTAL	770

SMALL ENTITY OR OTHER THAN SMALL ENTITY

RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
		OR		
		OR		
		OR		
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
		OR		
		OR		
		OR		
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
		OR		
		OR		
		OR		
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application: **Osterhout et al.**

Serial No.: **10/199,797**

Filed: **July 19, 2002**

For: **Portable Call Management System**

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Group Art Unit: **2685**

Examiner: **Nguyen, Thuan T.**

Attorney Docket No.: **11032RRUS04D**

Certificate of Mailing Under 37 C.F.R. § 1.8(a)

I hereby certify this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on February 22, 2005.

By: Carrie Parker
Carrie Parker

RESPONSE TO OFFICE ACTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

No fees are believed to be required. If, however, any fees are required, I authorize the Commissioner to charge these fees which may be required to Deposit Account No. 50-3157. A one-month extension of time is believed to be necessary and a check in the amount of \$120.00 is enclosed. No additional extension of time is believed to be necessary. If, however, an additional extension of time is required, the extension is requested, and I authorize the Commissioner to charge any fees for this extension to Deposit Account No. 50-3157.

In response to the Office Action dated October 20, 2004, please amend the above-identified application as follows:

Claims Listing begins on page 2 of this paper.

Remarks/Arguments begin on page 5 of this paper.

IN THE CLAIMS:

1-51. (Canceled)

52. (Previously presented) A method in a communications system for processing a call, the method comprising:

- receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user;
- identifying an address to which the call is to be sent from a database of preferred locations, wherein the user has previously indicated a preferred location;
- sending a first request to setup the call to the mobile data processing system associated with a the user, wherein the mobile data processing system has a wireless communications capability;
- sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system; and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed;
- receiving, prior to establishing the call, a response to the request, wherein the response includes the address for the call input by the user of the mobile data processing system in response to receiving the notification message;
- and
- sending a second request to setup the call to the user using the address.

53. (Original) The method as recited in claim 52, wherein the data processing system is a personal digital assistant.

54. (Previously Presented) The method as recited in claim 53, wherein the personal digital assistant is a Palm VII.

55. (Original) The method as recited in claim 52, wherein the request and the response are session initiation protocol messages.

56. (Previously presented) A method for processing a call at a data processing system the method comprising:

receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user;
identifying an address to which the call is to be sent from a database of preferred locations, wherein the user has previously indicated a preferred location;
receiving a notification message at the data processing system indicating a request to setup the call;
presenting the notification to the user at the data processing system;
receiving the request to establish the call;
presenting caller information at the data processing system;
receiving user input from the user identifying an address to which the call is to be directed; and
responsive to an identification of the address for the call, returning a response including the address to which the call is to be directed.

57. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises displaying the caller information.

58. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises presenting the caller information audibly.

59. (Original) The method as recited in claim 56, wherein the request and the response are session initiation protocol messages.

60. (Original) The method as recited in claim 56, wherein the data processing system is a wireless device.

61. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises a vibrating alert.

62. (Original) The method as recited in claim 56, wherein the data processing system is a two-way pager.

63-65. (Canceled)

66. (Original) A method for initiating calls, comprising the steps of:
receiving registration notice of an incoming call, wherein said registration notice is formatted in a first protocol;
translating said registration notice from the first protocol into a second protocol;
and
transmitting a modified registration notice to a terminating device; wherein the modified registration notice is formatted in the second protocol.

67. (Original) The method as recited in claim 66, further comprising:
selecting, at a session initiated protocol (SIP) server, an address to which the user has previously selected the call be sent from a database of preferred locations;
receiving a location data with which to redirect the incoming call from the terminating device; wherein the location data is formatted in the second protocol; and
translating the location data to a second location data; and
transmitting the second location data, wherein the second location data is formatted in the second protocol.

68. (Original) The method as recited in claim 66, wherein the first protocol is a session initiation protocol.

69. (Original) The method as recited in claim 66, wherein the second protocol is a hypertext markup language.

REMARKS

Claims 52-62 and 66-69 are pending in the present application. Applicants maintain all arguments presented in the previous responses to office actions. Reconsideration of the claims is respectfully requested in the light of the previous office action arguments and in light of the following arguments.

I. 35 U.S.C. § 103, Obviousness

The office action has rejected claims 52-62 and 66-69 under 35 U.S.C. § 103(a) as being obvious over Wang et al, Method, Apparatus and Communications System for Companion Information and Network Appliances, U.S. Patent 6,161,134 (Dec. 12, 2000) in view of Pepe et al, Personal Communications Internetworking, U.S. Patent 5,742,905 (Apr. 21, 1998). This rejection is respectfully traversed.

I.A The Office Action Has Failed To State Prima Facie Obviousness Rejections

I.A.1 The Proposed Combination Does Not Result in the Claimed Inventions

The office action asserts that:

Regarding claims 52 and 56, Wang discloses this limitation for a method to process a call as the user can set up the call using his palm top device with the mobile system with a preferred address to receive the call from a called party; in other words, the call is redirected or rerouted to another address which is specified by the user (see Wang, Figs 10-11 for call initialization process; Figs. 16-17 for the user intention to transfer the call to another number; Figs. 18-19 for transferring status and then completed; and Figs. 21-22 for options to forward incoming calls; see col. 36/line 10 to col. 37/line 11 for call forwarding and call transfer). Furthermore, Wang further discloses “sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed” and then receiving, “prior to establishing the call”, a response to the request, wherein the response includes the address “input by the user of the mobile data processing system in response to receiving the notification message; and sending a second request to set up the call to the user using the address, for instance, the user of the mobile data processing system or a palm

pilot receives an incoming call with a notification message such as call information coming from caller name and caller ID waiting as a first request to setup the call for call connection (as shown in Fig. 25), the user has options to answer it right way, reject or OK meaning answer it at a later time (col. 15/lines 15-31) or choose to transfer the call to another destination before answering the call while the call is being connected (as shown in Fig. 15) and waiting for answering, then the procedure to transfer the call is followed during the active call by the user input at the time with the address for the transfer (col. 40/line 43 to col. 41/line 4, and Figs. 20-22 for "hold" active calls and then forwards them; and col. 38/line 65 to col. 39/line 5 for either entering a telephone number or entering a network address for the destination if desired) as a fifth feature of the wireless device (col. 24/lines 16-17); and as soon as the user already enters the address for the destination for forwarding, the second request for setup the call for call connection is sent to the system as the user hits the forward button (Figs. 21-22, item 2110).

Wang does not clearly show that the receiving of a notice of a call for a mobile data processing system associated with the user is at a session initiated protocol, and the user can identify an address to which the call is to be sent from a database of preferred location as preamended; however, this feature is taught by Pepe as Pepe shows that at a PCI server associated with a PCI database, the user can identify the address that he/she would like to forward the call to based on his/her own preference or from a default setup, and the server handles session protocols for TCP/IP functions (see Pepe, Figs. 1-4 & 24, col. 9/lines 33-55, col. 11/line 55 to col. 12/line 33, col. 14/line 12-65, and col. 30/lines 28-56). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Wang's system with the disclosed technique as taught by Pepe in order to forward or route the call effectively to a desired address identified by the user via the server of the service system.

As for claims 53-54, Wang discloses that the palm top device is a personal digital assistant (col. 1/lines 13-46 & col. 10/lines 8-25) and a Palm top computer. (The Palm version number is not a significant patentability weight herein because Palm Computing, Inc develops these devices).

As for claims 55 and 59, Wang further discloses "wherein the request and response are session initiation protocol messages" (col. 11/lines 13-21 for SIP addressed).

As for claim 57-58, Wang discloses that caller identification is provided to the user (Fig. 25) and the user can set up audio elements depending on user's preferences (col. 38/lines 15-28).

As for claim 60, Wang discloses that the data processing system is a wireless device (Figs. 10-35).

Office Action of October 20, 2004, pp. 2-5.

The office action has failed to state prima facie obviousness rejections because the proposed combination does not result in the claimed inventions. Pepe does not show the limitation of "receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user," as asserted by the office action. Thus, the proposed combination does not result in the claimed inventions.

The office action asserts that Pepe does show the claimed feature, referring to numerous citations from Pepe. Applicants address each citation below and show that Pepe does not show the claimed limitation.

As a first matter, the office action cites Figures 1 through 4 and 24. Figure 1 is as follows:

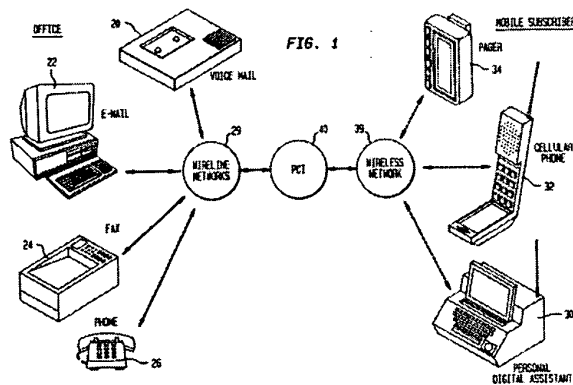
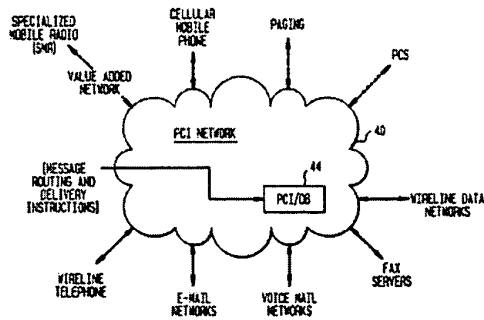


Figure 1 shows a set of communications equipment connected via wireless networks and PCI (personal communications internetworking). However, Figure 1 does not show "receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user," as claimed. Figure 1 provides no indication of use of a session initiated protocol server or use of session initiated protocol.

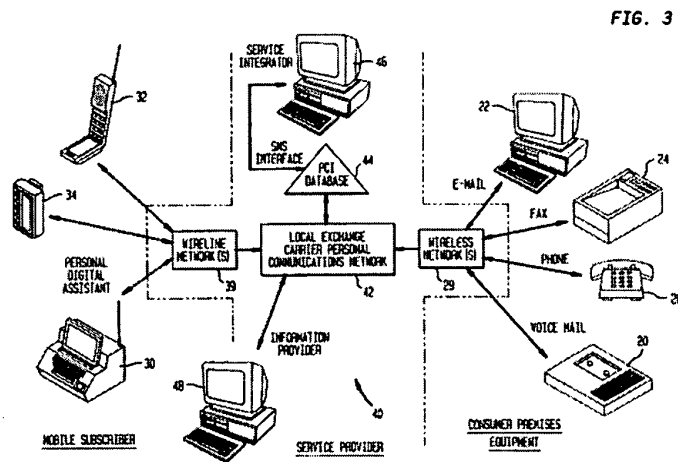
Figure 2 is as follows:

FIG. 2



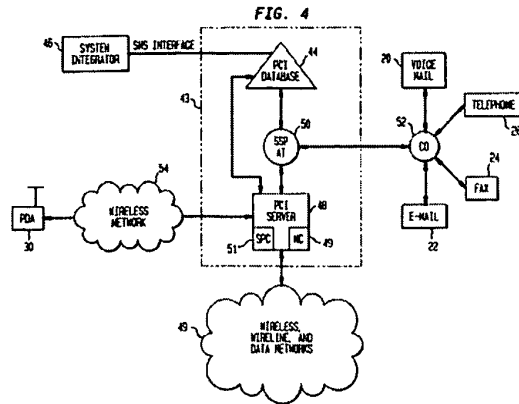
Again, Figure 2 shows a variety of communications equipment connected via a PCI network. However, Figure 2 does not show “receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user,” as claimed. Figure 2 provides no indication of use of a session initiated protocol server or use of session initiated protocol.

Figure 3 is as follows:



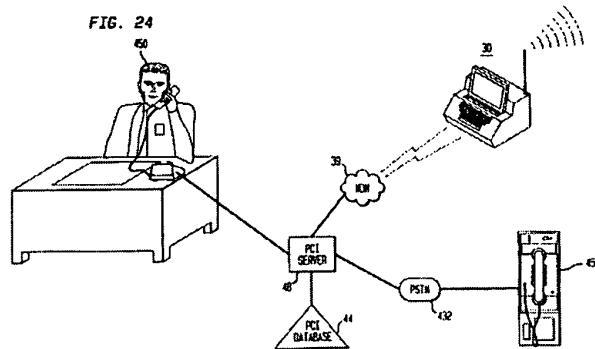
Again, Figure 3 shows a variety of communications equipment connected via wireless networks, a local exchange carrier personal communications network and a PCI database. However, Figure 3 does not show “receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user,” as claimed. Figure 3 provides no indication of use of a session initiated protocol server or use of session initiated protocol.

Figure 4 is as follows:



Again, Figure 4 shows a variety of communications equipment connected via wireless networks, a PCI database and server, and an SSP AT (Service Switching Point Access Tandem) switch. However, Figure 4 does not show “receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user,” as claimed. Figure 4 provides no indication of use of a session initiated protocol server or use of session initiated protocol.

Figure 24 is as follows:



Again, Figure 24 shows a variety of communications equipment connected via a PCI server, a PCI database, a PSTN (Public Switched Telephone Networks), and a WDN (wireless networks). However, Figure 24 does not show “receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user,” as claimed. Figure 24 provides no indication of use of a session initiated protocol server or use of session initiated protocol.

Similarly, Pepe does not describe “receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user,” as claimed. The office action asserts otherwise, citing from Pepe as follows:

The call processor 110 also includes an IP Functions Server 130. The IP Function Server 130 manages CallCommand applications. This server is also connected to the PCI database protocol handler 126 for communication with the PCI database 44 and the PDA protocol handler 115 for communication with the wireless network 54. The PCI database protocol handler 126 handles both interfaces between the PCI database and the PCI server, as described below.

Thus, the two main application servers in the call processor 110 are the IP Function server 130 for CallCommand applications and the PCI applications server 114 for wireless messaging services.

The call processor 110 also includes a plurality of communication interfaces. The protocol handlers 115 and 126 have already been discussed. The alphanumeric paging server (APS) 132 gives the call processor 110 the ability to provide alphanumeric paging services. The APS 132 includes one or more modems to communicate with terminal equipment of a network 134 maintained by a paging service provider. The APS communicates with the paging service provider using, for example, the TAP protocol (Telocator Alphanumeric Protocol).

Pepe, col. 9, ll. 33-55.

Although Pepe does discuss protocols, and names some protocols used, Pepe does not show or suggest the claimed protocol. Nevertheless, the office action continues to cite from Pepe as follows:

A PCI Database 44 maintains the subscriber profile, controls the Call Command functions, and handles DTMF-based subscriber profile updates.

The PCI database architecture shown in FIG. 6 comprises several application and support components. The application components include Multiple Services Application Platform (MSAP) 202; Service Provisioning and Creation Environment (SPACE) 204; and Data and Report Subsystem (DRS) 206.

The service components include the Maintenance and Operation Console (MOC) 208; the Intelligence Peripheral Interface (IPI) 210; the Generic Data Interface (GDI) 212; the Service Network Interface (SNI) 214; and the Data and Report database (D&R) 218.

The service network interface (SNI) 214 provides a communication interface to external systems such as switch 50 and PCI server 48. These interfaces include the IPI 210 and GDI 212 which connect the PCI database to the PCI server via the TCP/IP network 213. The GDI 212 is used for uploading and downloading a subscriber profile to the PCI server 48. The IPI 210 is used for transmitting DTMF commands from a user via the PCI server 48. For redundancy, each intelligent peripheral interface (IPI) and generic data interface (GDI) processor preferably requires two logical connections to the PCI server.

The Multiple Services Application Platform (MSAP) 202 includes a call processor 220, a first call process request (CPR) database 222, an MSAP common 224, a shared memory 226, and a call contact database (CCDB) 228. The call processor 220 receives messages from and sends messages to a message distributor 219 in the SNI 214. The message distributor determines whether the message received from the call processor 220 is to be sent to the IPI 210 or the GDI 212. The call processor receives messages from the message distributor and sends them to the first CPR database, the CCDB 228, and/or the shared memory 226. The first CPR database 222 stores the subscriber profiles. The MSAP 224 connects the first CPR database 222 with the second CPR 230, which resides in SPACE 204. MSAP common 224 updates one of the CPR databases 222, 230 when changes have been made to the other CPR database. The CCDB 228 is a temporary, dynamic storage for storing subscriber profiles, and related data during profile update procedures. The shared memory 226 allows different processors to use the same data.

Pepe, col. 11, l. 55 through col. 12, l.33.

Nowhere does the cited text show or suggest the claimed session initiated protocol. Instead, the cited text only describes Pepe's PCI architecture. Nevertheless, the office action continues to cite from Pepe as follows:

The interface between the PCI server 48 and the PCI database 44 is based on two protocols. The first protocol is 1129+. This protocol will be used to support the PCI Call Command feature and for subscriber initiated profile manipulation using DTMF. The second protocol is Generic Data Interface. The GDI is used for subscriber profile management, specifically downloading a subscriber profile from the PCI database 44 to the PCI server 48 and for applying updates to the profile stored in the PCI database 44.

FIG. 7 shows the logical links from the PCI database 44 to the PCI server 48. The PCI database 44 consists of a mated pair of PCI

databases 44a, 44b, each containing three call processors 220 which each share the load. The links 250 are TCP/IP links between Intelligent Peripheral Interface (IPI) 210 and the Generic Data Interface (GDI) 212 processors on the PCI database 44 to the PCI server call processor. Two logical connections are made from each IPI 210 and GDI 212 processors to the PCI server for redundancy. Thus, a full SCP configuration supporting PCI would preferably require 24 logical links, as shown in FIG. 7. The PCI database initiates the opening of the logical links.

In this illustrative embodiment, the CallCommand feature employs the 1129+ protocol. For the wireless messaging feature, PCI uses the GDI protocol. The GDI tag IDs assigned for the PCI subscriber profile elements are provided in Appendix B.

Appendix B also shows the PCI profile data, including the profile elements, their data types, maximum lengths, and GDI tag IDs. An * indicates elements which were shortened to 32 bytes because of GDI byte limitations. The description of the types and lengths of these elements is as follows:

dN BCD-encoded digits. The number N represents the maximum number of BCD digits, not octets.

cN Up to N ASCII characters.

cN Binary integer N bytes in length, in network byte order (highest order bit transmitted first).

Because the portion of the PCI subscriber profile downloaded to the PCI server is large (preferably approximately 1,000 bytes), and a maximum Transaction Capable Application Program (TCAP) message size is 256 bytes, the profile must be managed in segments. The service profile is divided into six segments as shown in Table 1. Each segment is assigned a unique numeric identifier.

Pepe, col. 14, ll. 12-65 (table omitted).

Again, the cited text does not describe the claimed protocol. The cited text does describe basing the interface between the PCI server and the PCI database based on two protocols: an 1129+ protocol and a GDI (generic data interface) protocol. However, the cited text is devoid of disclosure regarding the claimed protocol. Nevertheless, the office action continues to cite from Pepe as follows:

FIG. 24 is an illustrative example of a CallCommand service network. A caller, Joe 450, wishes to speak with Mary. Mary, who is away from the office, is a PCI subscriber having the CallCommand service. She has a PDA 30, which is turned on and registered at a visiting location. Joe dials Mary's office phone number. This phone number connects Joe's call to the PCI server 48. The PCI server 48 network instructs Joe to type in his telephone number. The PCI server 48 puts Joe on hold and plays back a message using synthesized speech informing Joe that the network is trying to locate Mary. The network recognizes that Mary is registered at a visiting location and sends a phone notification over a wireless data network 39. Mary is notified on a PDA 30 that a phone call is coming from a particular phone number. If Mary has already programmed a name corresponding to that phone number in a directory on her PDA 30, that name will also appear. Therefore, she is aware that she has a phone call from Joe Smith. Mary has several options. She may type or select a preselected message to be sent from the PDA 30 to the PCI network which converts the message into synthesized speech and play it back to Joe; she may forward the call to a nearby telephone, such as a cellular phone or a nearby pay phone 452 or forward the call to her secretary or colleagues's phone number; she may send a message and forward the call; or she may direct the call to her voice mail. In this illustration, Mary selects that the call be routed to a local public pay telephone 452. The call is routed over public switched telephone networks 432 to the selected telephone and Mary and Joe speak.

Pepe, col. 30, ll. 28-56

Again, the cited text does not show the claimed feature of “receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user.” The cited text does describe the operation of Pepe’s system; however, nothing in the cited text discloses the claimed limitation. Furthermore, nothing in Pepe shows or suggests the claimed limitation. Thus, the proposed combination does not result in the claimed invention. Accordingly, the office action has failed to state prima facie obviousness rejections of any of the claims.

I.A.2 The Office Action Has Failed to State a Proper Motivation to Combine the References

In addition, the office action has failed to state prima facie obviousness rejections because the office action has failed to state a proper motivation to combine the

references. A proper *prima facie* case of obviousness cannot be established by combining the teachings of the prior art absent some teaching, incentive, or suggestion supporting the combination. *In re Napier*, 55 F.3d 610, 613, 34 U.S.P.Q.2d 1782, 1784 (Fed. Cir. 1995); *In re Bond*, 910 F.2d 831, 834, 15 U.S.P.Q.2d 1566, 1568 (Fed. Cir. 1990). The office action states that, “it would have been obvious... to modify Wang’s system with the disclosed technique as taught by Pepe in order to forward or route the call effectively to a desired address identified by the user via the server of the service system.” However, as shown above, Pepe does not disclose the claimed limitation. Thus, the office action’s statement makes no sense and cannot serve as a motivation to combine the references.

In addition, even if the statement were accurate, the statement is too broad to serve as a motivation to combine the references. The statement merely indicates that Pepe’s techniques may be used to forward a call to a desired address effectively. However, the office action provides no indication why one of ordinary skill would recognize that the claimed method should be used or why one of ordinary skill would select the claimed method at all. In the light of Pepe’s teaching that many, many different protocols may be used to forward a call, the office action’s statement that the claimed method is merely an effective technique is insufficient to motivate one of only ordinary skill to combine or otherwise modify the references. The over-breadth of the office action’s statement is exacerbated by the fact that Pepe does not disclose the claimed technique. Because the office action’s statement is overly broad, it does not serve as a proper motivation to combine the references.

In addition, the office action’s statement merely recites a purported advantage to combining the references and does not actually state a motivation at all. For example, the office action has provided no reason why one of ordinary skill would recognize the advantage and be motivated to implement it as claimed. Thus, the office action has failed to state any motivation to combine the references.

The office action’s statement is not a motivation to combine the references and the office action has failed to state a motivation to combine the references. Thus, the office action has failed to state *prima facie* obviousness rejections of the claims.

I.B The Claims Are Non-Obvious Over the Cited References

The claims are non-obvious in view of the references when the references are viewed as a whole. Wang is directed to an information appliance and a network appliance that function independently as well as with each other. Pepe is directed to a network subscriber with the ability to control remotely the receipt and delivery of wireless and wireline voice and text messages. Both references disclose a plethora of protocols and methods for performing their respective methods. However, neither reference shows the claimed limitation of “receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user.” Given the vast number of protocols described in both references, there is no reason to assume that one of ordinary skill would have found it obvious to use one that neither reference discloses. Thus, the claims are non-obvious when the references are considered as a whole.

Furthermore, Wang issued in 2000 and Pepe issued in 1998. In the intervening five years since Wang issued, no one has made, used, or suggested devices or processes incorporating the claimed methods. Given the very rapid pace of technological development in communications and given the value of the claimed methods, had the claimed methods been obvious, then one of ordinary skill would have already implemented them. Because, to Applicants’ knowledge, no one has done so, the claims are non-obvious.

I.C Claims 61 and 62

Regarding claims 61-62, the office action states that:

Wang does not specifically disclose that the information appliance device 210 for using in the network 200 (Fig. 2) is a two-way pager and providing a vibrating alert in the step of presenting caller information; however, Wang does suggest that the information appliance device can be any device capable of storing user information and exchanging information with the network (col. 9/lines 32-42). It inherently suggests that a two-way pager is not limited to use within this system; and the vibrating alert of a pager when an incoming call with caller ID is a function that is well known in the art. Therefore, it would have been obvious to one of

ordinary skill in the art at the time the invention was made to modify Wang's system with a two-way pager and its known vibrating alert function plugged-in for use within the system instead or in addition of a palmtop computer/PDA device in order to provide additional communication device to users such as a two-way pager or any other form of communication device for communication in a broader network, for instance, including a pager network in this scenario.

Office Action of October 20, 2004, p. 5

The office action has failed to state prima facie obviousness rejections of claims 61 and 62 because the office action has failed to state a proper motivation to combine the references. In summary, the office action asserts that it would have been obvious to present caller information as a vibrating alert and to use a two-way pager with the claimed methods because such technologies are well known and "in order to provide additional communication device to users." However, the office action did not actually provide a motivation to modify Wang. Because the office action must provide a motivation to combine or modify the references to state a prima facie obviousness rejection, the office action has failed to state prima facie obviousness rejections of claims 61 and 62.

I.D Claims 66-69

Regarding claims 66 through 69, the office action asserts that:

As for claims 66-69, these claims are rejected for the reasons given in the scope of claims 52-60 as already discussed above, with an additional understanding that, as for a first protocol as a session initiation protocol and a second protocol is a hypertext markup language, i.e., a session initiation protocol (as shown in Fig. 25 for initiating a connection call between a caller and a called party, or in Figs. 16 and 17 for a session protocol while inputs are needed for entering into the Palmtop device) and Internet access with a protocol such as TCP/IP is well known for including a protocol using a hypertext markup language (col. 21/lines 5-40).

Office Action of October 20, 2004, p. 5.

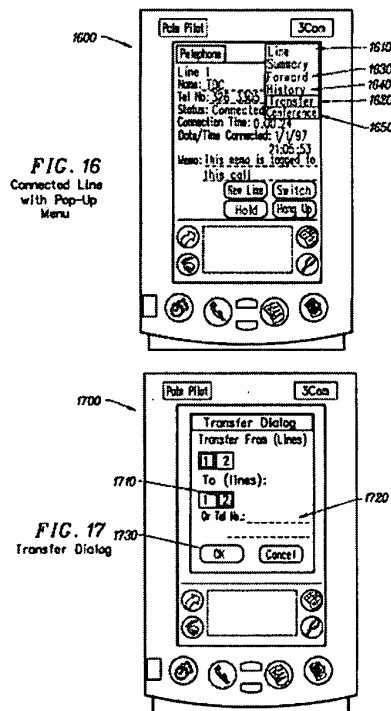
The office action asserts that claims 66 through 69 are rejected for the reasons given regarding the rejection of claims 52 through 60. However, as pointed out above, claims 52 through 60 are patentable over Wang and Pepe. Thus, claims 66 through 69 are also patentable over Wang and Pepe.

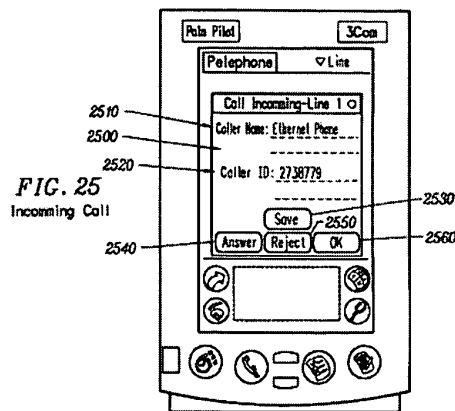
In addition, the office action misapprehends Wang in relation to claims 66 through 69. Wang does not show the limitations of claim 66, which provides as follows:

66. A method for initiating calls, comprising the steps of:
 receiving registration notice of an incoming call, wherein said registration notice is formatted in a first protocol;
 translating said registration notice from the first protocol into a second protocol; and
 transmitting a modified registration notice to a terminating device; wherein the modified registration notice is formatted in the second protocol.

Wang does not show the method of translating a registration notice as claimed.

The office action asserts otherwise, citing figures 16, 17, and 25, which provide as follows:





None of the cited figures actually shows translating a registration notice from a first protocol to a second protocol. Thus, the cited figures do not show the claimed limitations. Nevertheless, the office action also points to the following text in Wang:

Internet Access

The combination of the information appliance 210 and the telephone 240 can also be used to provide Internet access. The communications protocol hierarchy for Internet access, otherwise referred to as the software architecture, used to support Internet access depends on the capabilities that exist in the information appliance 210. In one embodiment, the information appliance 210 is a palm-sized computer 343 that includes a Transmission control protocol (TCP)/Internet Protocol (IP)/PPP stack (as is the case for the 3Com Palm III and the PalmPilot Professional). This embodiment is referred to herein as the palm-sized computer 343 Internet access execution option. For the first case, as shown in FIG. 3C, the protocol stack can be represented as a palm-sized computer 343 running the Internet applications protocol stack 350. The protocol stack can be located in any information appliance 210 to provide Internet access according to the invention.

The palm-sized computer 343 running the Internet applications protocol stack 350 includes the following software layers, in descending order, for Internet access for the palm-sized computer 343: an Internet applications 367 layer, a TCP 359/User Datagram Protocol (UDP) layer, an Internet protocol 356 layer, a PPP 330 layer, and an HDLC 326 layer. The Internet applications 367 include electronic mail, web browsing, terminal emulation (telnet), file transfer protocol (ftp) and other applications providing access to data provided by the Internet. The palm-sized computer 343 running the Internet applications protocol stack 350 for the Ethernet telephone 310 is the same as the protocol stack for the

palm-sized computer except that: (1) the PPP 330 and HDLC layers are replaced by an IEEE 802-3 Carrier Sense Multiple Access/Collision Detection (CSMA/CD) 368 layer, and (2) the top layer of the Ethernet telephone 310 stack includes only Internet access applications 369.

Again, the cited text does not show the translation feature claimed in claim 66.

The cited text does describe stacked protocols, but does not describe, “Translating said registration notice from the first protocol into a second protocol,” as claimed. Because Wang does not show all the claimed limitations of claim 66, the proposed combination does not result in the claimed inventions. Accordingly, the office action has failed to state prima facie obviousness rejections of claim 66, or its dependent claims 67 through 69.

I.E Summary

The office action has failed to state prima facie obviousness rejections of the claims because the proposed combination does not result in the claimed inventions and because the office action has failed to state proper motivations to combine or modify the references. In addition, the claims are non-obvious in view of the references when considered as a whole for the reasons given above. Therefore, the rejection of claims 52-62 and 66-69 under 35 U.S.C. § 103 has been overcome.

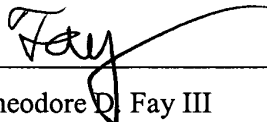
II. Conclusion

It is respectfully urged that the subject application is patentable over Wang and Pepe and is now in condition for allowance.

The office action is invited to call the undersigned at the below-listed telephone number if in the opinion of the office action such a telephone conference would expedite or aid the prosecution and examination of this application.

DATE: February 22, 2005

Respectfully submitted,



Theodore D. Fay III
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Attorneys for Applicants



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re application: **Osterhout et al.**

Serial No.: **10/199,797**

Filed: **July 19, 2002**

For: **Portable Call Management System**

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Group Art Unit: **2685**

Examiner: **Nguyen, Thuan T.**

Attorney Docket No.: **11032RRUS04D**

Certificate of Mailing Under 37 C.F.R. § 1.8(a)
I hereby certify this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on February 22, 2005.
By: Carrie Parker
Carrie Parker

PETITION FOR EXTENSION OF TIME WITHIN THE FIRST MONTH

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant respectfully petitions for a one-month extension of time in which to respond to the outstanding Office Action in the above case, pursuant to 37 CFR Section 1.17(a). Enclosed is a check in the amount of \$120.00 for the extension fee. No additional extension of time is believed to be necessary. If, however, an additional extension of time is required, the extension is requested and, I authorize the Commissioner to charge these additional fees which may be required to Deposit Account No. 50-3157.

Respectfully submitted,

Theodore D. Fay III
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Registration. No. 48,504
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03/01/2005 EABUBAK1 00000040 10199797
01 FC:1251 120.00 OP



JPW 2685

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Osterhout et al.**

Serial No.: **10/199,797**

Filed: **July 19, 2002**

For: **Portable Call Management System**

35527

PATENT TRADEMARK OFFICE
CUSTOMER NUMBER

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Group Art Unit: **2685**

Examiner: **Nguyen, Thuan T.**

Attorney Docket No.: **11032RRUS04D**

Certificate of Mailing Under 37 C.F.R. § 1.8(a)

I hereby certify this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-14501 on February 22, 2005.

By: Carrie Parker
Carrie Parker

TRANSMITTAL DOCUMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

ENCLOSED HEREWITH:

- Response to Office Action;
- Petition for Extension of Time within the First Month;
- Check in the amount of \$120.00; and
- Our return postcard.

No fees are believed to be required. If, however, any fees are required, I authorize the Commissioner to charge these fees which may be required to Deposit Account No. 50-3157. A one-month extension of time is believed to be necessary and a check in the amount of \$120.00 is enclosed. No additional extension of time is believed to be necessary. If, however, an additional extension of time is required, the extension is requested, and I authorize the Commissioner to charge any fees for this extension to Deposit Account No. 50-3157.

Respectfully submitted,

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UNITED STATES PATENT AND TRADEMARK OFFICE

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33

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/199,797	07/19/2002	Gregory T. Osterhout	11032RRUS04D	1786

35527 7590 10/20/2004
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DALLAS, TX 75380

EXAMINER NGUYEN, THUAN T

ART UNIT	PAPER NUMBER
2685	14

DATE MAILED: 10/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/199,797

Applicant(s)

OSTERHOUT ET AL.

Examiner

THUAN T. NGUYEN

Art Unit

2685

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 52-62 and 66-69 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 52-62, and 66-69 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____.
 - 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/14/04 has been entered.

Remarks

2. Claims 1-51, and 63-65 were previously canceled. Pending claims are claims 52-62, and 66-69.

Claim Rejections - 35 USC 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 52-62 and 66-69 are rejected under 35 U.S.C. 103(a) as being obvious over Wang et al (U.S. Patent No. 6,161,134) in view of Pepe (U.S. Patent 5,742,905).

Regarding claims 52 and 56, Wang discloses this limitation for a method to process a call as the user can set up the call using his palm top device with the mobile system with a preferred address to receive the call from a called party; in other words, the call is redirected or rerouted to another address which is specified by the user (see Wang, Figs 10-11 for call initialization

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process; Figs. 16-17 for the user intention to transfer the call to another number; Figs. 18-19 for transferring status and then completed; and Figs. 21-22 for options to forward incoming calls; see col. 36/line 10 to col. 37/line 11 for call forwarding and call transfer). Furthermore, Wang further discloses “sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed” and then receiving, “prior to establishing the call”, a response to the request, wherein the response includes the address “input by the user of the mobile data processing system in response to receiving the notification message; and sending a second request to set up the call to the user using the address, for instance, the user of the mobile data processing system or a palm pilot receives an incoming call with a notification message such as call information coming from caller name and caller ID waiting as a first request to setup the call for call connection (as shown in Fig. 25), the user has options to answer it right way, reject or OK meaning answer it at a later time (col. 15/lines 15-31) or choose to transfer the call to another destination before answering the call while the call is being connected (as shown in Fig. 15) and waiting for answering, then the procedure to transfer the call is followed during the active call by the user input at the time with the address for the transfer (col. 40/line 43 to col. 41/line 4, and Figs. 20-22 for “hold” active calls and then forwards them; and col. 38/line 65 to col. 39/line 5 for either entering a telephone number or entering a network address for the destination if desired) as a fifth feature of the wireless device (col. 24/lines 16-17); and as soon as the user already enters the address for the destination for

Art Unit: 2685

forwarding, the second request for setup the call for call connection is sent to the system as the user hits the forward button (Figs. 21-22, item 2110).

Wang does not clearly show that the receiving of a notice of a call for a mobile data processing system associated with the user is at a session initiated protocol, and the user can identify an address to which the call is to be sent from a database of preferred location as pre-amended; however, this feature is taught by Pepe as Pepe shows that at a PCI server associated with a PCI database, the user can identify the address that he/she would like to forward the call to based on his/her own preference or from a default setup, and the server handles session protocols for TCP/IP functions (see Pepe, Figs. 1-4 & 24, col. 9/lines 33-55, col. 11/line 55 to col. 12/line 33, col. 14/line 12-65, and col. 30/lines 28-56). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Wang's system with the disclosed technique as taught by Pepe in order to forward or route the call effectively to a desired address identified by the user via the server of the service system.

As for claims 53-54, Wang discloses that the palm top device is a personal digital assistant (col. 1/lines 13-46 & col. 10/lines 8-25) and a Palm top computer. (The Palm version number is not a significant patentability weight herein because Palm Computing, Inc develops these devices).

As for claims 55 and 59, Wang further discloses "wherein the request and response are session initiation protocol messages" (col. 11/lines 13-21 for SIP addressed).

As for claim 57-58, Wang discloses that caller identification is provided to the user (Fig. 25) and the user can set up audio elements depending on user's preferences (col. 38/lines 15-28).

Art Unit: 2685

As for claim 60, Wang discloses that the data processing system is a wireless device (Figs. 10-35).

Regarding claims 61-62, Wang does not specifically disclose that the information appliance device 210 for using in the network 200 (Fig. 2) is a two-way pager and providing a vibrating alert in the step of presenting caller information; however, Wang does suggest that the information appliance device can be any device capable of storing user information and exchanging information with the network (col. 9/lines 32-42). It inherently suggests that a two-way pager is not limited to use within this system; and the vibrating alert of a pager when an incoming call with caller ID is a function that is well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Wang's system with a two-way pager and its known vibrating alert function plugged-in for use within the system instead or in addition of a palmtop computer/PDA device in order to provide additional communication device to users such as a two-way pager or any other form of communication device for communication in a broader network, for instance, including a pager network in this scenario.

As for claims 66-69, these claims are rejected for the reasons given in the scope of claims 52-60 as already discussed above, with an additional understanding that, as for a first protocol as a session initiation protocol and a second protocol is a hypertext markup language, i.e., a session initiation protocol (as shown in Fig. 25 for initiating a connection call between a caller and a called party, or in Figs. 16 and 17 for a session protocol while inputs are needed for entering into the Palmtop device) and Internet access with a protocol such as TCP/IP is well known for including a protocol using a hypertext markup language (col. 21/lines 5-40).

Art Unit: 2685

Conclusion

5. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

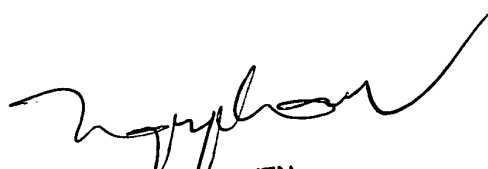
(703) 872-9306, (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II,

2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Thuan Nguyen whose telephone number is (703) 308-5860. The examiner can normally be reached on Monday-Friday from 9:30 AM to 7:00 PM, with alternate Fridays off.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Technology Center 2600 Customer Service Office** whose telephone number is **(703) 306-0377**.



TONY T. NGUYEN
PATENT EXAMINER

Tony T. Nguyen
Art Unit 2685
October 12, 2004

#130
9/21/04
at



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Osterhout et al.**

Serial No.: **10/199,797**

Filed: **July 19, 2002**

For: **Portable Call Management System**

§ Group Art Unit: **2685**
§
§ Examiner: **Nguyen, Thuan T.**
§
§ Attorney Docket No.: **11032RRUS04D**
§

Certificate of Mailing Under 37 C.F.R. § 1.8(a)
I hereby certify this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on June 10, 2004.
By: Carrie Parker
Carrie Parker

RECEIVED

JUN 21 2004

Technology Center 2600

PRELIMINARY AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

No fees are believed to be necessary. If, however, any fees are required, I authorize the Commissioner to charge these fees to Deposit Account No. 50-3157. No extension of time is believed to be necessary. If, however, an extension of time is necessary, I authorize the Commissioner to charge the necessary extension fees to Deposit Account No. 50-3157.

Prior to continued examination of this application, please amend the above-identified application as follows:

IN THE CLAIMS:

1-51. (Canceled)

52. (Currently Amended) A method in a communications system for processing a call, the method comprising:

receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data processing system associated with a user;

identifying an address to which the call is to be sent from a database of preferred locations, wherein the user has previously indicated a preferred location;

sending a first request to setup the call to a the mobile data processing system associated with a the user, wherein the mobile data processing system has a wireless communications capability;

① sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system; and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed;

receiving, prior to establishing the call, a response to the request, wherein the response includes the address for the call input by the user of the mobile data processing system in response to receiving the notification message; and

sending a second request to setup the call to the user using the address.

53. (Original) The method as recited in claim 52, wherein the data processing system is a personal digital assistant.

54. (Previously Presented) The method as recited in claim 53, wherein the personal digital assistant is a Palm VII.

55. (Original) The method as recited in claim 52, wherein the request and the response are session initiation protocol messages.

56. (Currently Amended) A method for processing a call at a data processing system the method comprising:

receiving, at a session initiated protocol (SIP) server, a notice of a call for a mobile data

processing system associated with a user;

identifying an address to which the call is to be sent from a database of preferred locations, wherein the user has previously indicated a preferred location;

receiving a notification message at a the data processing system indicating a request to setup the call;

presenting the notification to a the user at the data processing system;

receiving the request to establish the call;

presenting caller information at the data processing system;

receiving user input from the user identifying an address to which the call is to be directed; and

responsive to an identification of the address for the call, returning a response including the address to which the call is to be directed.

57. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises displaying the caller information.

58. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises presenting the caller information audibly.

59. (Original) The method as recited in claim 56, wherein the request and the response are session initiation protocol messages.

60. (Original) The method as recited in claim 56, wherein the data processing system is a wireless device.

61. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises a vibrating alert.

62. (Original) The method as recited in claim 56, wherein the data processing system is a two-way pager.

63-65. (Canceled)

66. (Original) A method for initiating calls, comprising the steps of:

receiving registration notice of an incoming call, wherein said registration notice is formatted in a first protocol;

translating said registration notice from the first protocol into a second protocol; and

transmitting a modified registration notice to a terminating device; wherein the modified registration notice is formatted in the second protocol.

D 67. (Original) The method as recited in claim 66, further comprising:

receiving selecting, at a session initiated protocol (SIP) server, an address to which the user has previously selected the call be sent from a database of preferred locations;

receiving a location data with which to redirect the incoming call from the terminating device; wherein the location data is formatted in the second protocol; and

translating the location data to a second location data; and

transmitting the second location data, wherein the second location data is formatted in the second protocol.

68. (Original) The method as recited in claim 66, wherein the first protocol is a session initiation protocol.

69. (Original) The method as recited in claim 66, wherein the second protocol is a hypertext markup language.

REMARKS

Claims 52-62 and 56-69 are pending in the present application. Claims 52, 56, and 67 are hereby amended. No new matter is added by these amendments. Favorable reconsideration of the claims is respectfully requested.

Date: 6-10-04

Respectfully submitted,



Patrick C. R. Holmes
Registration No. 46,380
YEE & ASSOCIATES, P.C.
P.O. Box 802333
Dallas, Texas 75380
(972) 367-2001
ATTORNEY FOR APPLICANTS



RCE/2685

\$ #12
9/27/04
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PTO/SB/30 (09-03)
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Request for Continued Examination (RCE) Transmittal Address to: Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	Application Number	10/199,797
	Filing Date	July 19, 2002
	First Named Inventor	Osterhout et al.
	Art Unit	2685
	Examiner Name	Nguyen, Thuan T.
	Attorney Docket Number	11032RRUS04D/RCE

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

- a. Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.
 - i. Consider the arguments in the Appeal Brief or Rely Brief previously filed on _____
 - ii. Other _____
- b. Enclosed
 - i. Amendment/Reply
 - ii. Affidavit(s)/ Declaration(s)
 - iii. Information Disclosure Statement (IDS)
 - iv. Other Preliminary Amendment

2. **Miscellaneous**

- a. Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)
- b. Other _____

3. **Fees**

- The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
- The Director is hereby authorized to charge the following fees, or credit any overpayments, to
- a. Deposit Account No. 50-3157
 - i. RCE fee required under 37 CFR 1.17(e)
 - ii. Extension of time fee (37 CFR 1.136 and 1.17)
 - iii. Other _____
- b. Check in the amount of \$ _____ enclosed
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Name (Print/Type)	Duke W. Yee	Registration No. (Attorney/Agent)	34,285
Signature	<i>Duke W. Yee</i>	Date	June 10, 2004

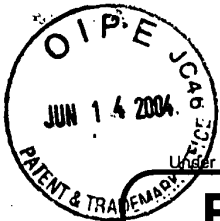
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Name (Print/Type)	Carrie Parker	Date	June 10, 2004
Signature	<i>Carrie Parker</i>		

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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 770.00)

Complete if Known

Application Number	10/199,797
Filing Date	07/19/2002
First Named Inventor	Osterhout et al.
Examiner Name	Nguyen, Thuan T.
Art Unit	2685
Attorney Docket No.	11032RRUS04D/RCE

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ADDITIONAL FEES</p> <table border="1"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> <th rowspan="2">Fee Paid</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254</td><td>1,480</td><td>2254</td><td>740</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>330</td><td>2401</td><td>165</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>290</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>1502</td><td>480</td><td>2502</td><td>240</td><td>Design issue fee</td><td></td></tr> <tr><td>1503</td><td>640</td><td>2503</td><td>320</td><td>Plant issue fee</td><td></td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td><td></td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>1809</td><td>770</td><td>2809</td><td>385</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>1810</td><td>770</td><td>2810</td><td>385</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>1801</td><td>770</td><td>2801</td><td>385</td><td>Request for Continued Examination (RCE)</td><td>770.00</td></tr> <tr><td>1802</td><td>900</td><td>1802</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> </tbody> </table> <p>Other fee (specify) _____ *Reduced by Basic Filing Fee Paid</p> <p>SUBTOTAL (3) (\$ 770.00)</p>	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1051	130	2051	65	Surcharge - late filing fee or oath		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet		1053	130	1053	130	Non-English specification		1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination		1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		1251	110	2251	55	Extension for reply within first month		1252	420	2252	210	Extension for reply within second month		1253	950	2253	475	Extension for reply within third month		1254	1,480	2254	740	Extension for reply within fourth month		1255	2,010	2255	1,005	Extension for reply within fifth month		1401	330	2401	165	Notice of Appeal		1402	330	2402	165	Filing a brief in support of an appeal		1403	290	2403	145	Request for oral hearing		1451	1,510	1451	1,510	Petition to institute a public use proceeding		1452	110	2452	55	Petition to revive - unavoidable		1453	1,330	2453	665	Petition to revive - unintentional		1501	1,330	2501	665	Utility issue fee (or reissue)		1502	480	2502	240	Design issue fee		1503	640	2503	320	Plant issue fee		1460	130	1460	130	Petitions to the Commissioner		1807	50	1807	50	Processing fee under 37 CFR 1.17(q)		1806	180	1806	180	Submission of Information Disclosure Stmt		8021	40	8021	40	Recording each patent assignment per property (times number of properties)		1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))		1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))		1801	770	2801	385	Request for Continued Examination (RCE)	770.00	1802	900	1802	900	Request for expedited examination of a design application	
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In re application: **Osterhout et al.**

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Serial No.: **10/199,797**

Group Art Unit: **2685**

Filed: **July 19, 2002**

Examiner: **Nguyen, Thuan T.**

For: **Portable Call Management System**

Attorney Docket No.: **11032RRUS04D**

Certificate of Transmission Under 37 C.F.R. § 1.8(a)
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By: Carrie Parker
 Carrie Parker

RESPONSE TO FINAL OFFICE ACTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

No fees are believed to be required. If, however, any fees are required, I authorize the Commissioner to charge these fees which may be required to Deposit Account No. 50-0392. No extension of time is believed to be necessary. If, however, an extension of time is required, the extension is requested, and I authorize the Commissioner to charge any fees for this extension to Deposit Account No. 50-0392.

In response to the Final Office Action dated March 10, 2004, please amend the above-identified application as follows:

Listing of Claims begin on page 2 of this paper.

Remarks begin on page 5 of this paper.

IN THE CLAIMS:

1-51. (Canceled)

52. (Previously Presented) A method in a communications system for processing a call, the method comprising:

sending a first request to setup the call to a mobile data processing system associated with a user, wherein the mobile data processing system has a wireless communications capability;

sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed;

receiving, prior to establishing the call, a response to the request, wherein the response includes the address for the call input by the user of the mobile data processing system in response to receiving the notification message; and

sending a second request to setup the call to the user using the address.

53. (Original) The method as recited in claim 52, wherein the data processing system is a personal digital assistant.

54. (Previously Presented) The method as recited in claim 53, wherein the personal digital assistant is a Palm VII.

55. (Original) The method as recited in claim 52, wherein the request and the response are session initiation protocol messages.

56. (Previously Presented) A method for processing a call at a data processing system the method comprising:

receiving a notification message at a data processing system indicating a request to setup the call;

presenting the notification to a user at the data processing system;
receiving the request to establish the call;
presenting caller information at the data processing system;
receiving user input from the user identifying an address to which the call is to be directed; and
responsive to an identification of the address for the call, returning a response including the address to which the call is to be directed.

57. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises displaying the caller information.

58. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises presenting the caller information audibly.

59. (Original) The method as recited in claim 56, wherein the request and the response are session initiation protocol messages.

60. (Original) The method as recited in claim 56, wherein the data processing system is a wireless device.

61. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises a vibrating alert.

62. (Original) The method as recited in claim 56, wherein the data processing system is a two-way pager.

63-65. (Canceled)

66. (Original) A method for initiating calls, comprising the steps of:
receiving registration notice of an incoming call, wherein said registration notice is formatted in a first protocol;

translating said registration notice from the first protocol into a second protocol;
and

transmitting a modified registration notice to a terminating device; wherein the modified registration notice is formatted in the second protocol.

67. (Original) The method as recited in claim 66, further comprising:
receiving a location data with which to redirect the incoming call from the terminating device; wherein the location data is formatted in the second protocol; and
translating the location data to a second location data; and
transmitting the second location data, wherein the second location data is formatted in the second protocol.

68. (Original) The method as recited in claim 66, wherein the first protocol is a session initiation protocol.

69. (Original) The method as recited in claim 66, wherein the second protocol is a hypertext markup language.

REMARKS

Claims 52-62 and 66-69 are pending in the present application. Reconsideration of the claims is respectfully requested.

I. 35 U.S.C. § 102, Anticipation

The examiner has rejected claims 52-60 and 66-69 under 35 U.S.C. § 102 as being anticipated by Wang et al., USPN 6161134. This rejection is respectfully traversed.

In rejecting the claims, Examiner states:

Regarding claims 52 and 56, Wang discloses this limitation for a method to process a call as the user can set up the call using his palm top device with the mobile system with a preferred address to receive the call from a called party; in other words, the call is redirected or rerouted to another address which is specified by the user (see Wang, figs 10-11 for call initialization process; Figs 16-17 for the user intention to transfer the call to another number; Figs. 18-19 for transferring status and then completed; and Figs. 21-22 for options to forward incoming calls; see col. 36/line 10 to col. 37/line 11 for call forwarding and call transfer). Furthermore, Wang further discloses "sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed" and then receiving, "prior to establishing the call", a response to the request, wherein the response includes the address "input by the user of the mobile data processing system in response to receiving the notification message, and sending a second request to set up the call to the user using the address, for instance, the user of the mobile data processing system or a palm pilot receives an incoming call with a notification message such as call information coming from caller name and caller ID waiting as a first request to setup the call for call connection (as shown in Fig. 25), the user has options to answer it right away, reject or OK meaning answer it at a later time (col. 15/lines 15-31) or choose to transfer the call to another destination before answering the call while the call is being connected (as shown in Fig. 15) and waiting for answering, then the procedure to transfer the call is followed during the active call by the user input at the time with the address for the transfer (col. 40/line 43 to col. 41/line 4, and Figs. 20-22 for "hold" active calls and then forwards them; and col. 38/line 65 to col. 39/line 5 for either entering a telephone number

or entering a network address for the destination if desired) as a fifth feature of the wireless device (col. 24/lines 16-17); and as soon as the user already enters the address for the destination for forwarding, the second request for setup the call for call connection is sent to the system as the user hits the forward button (Figs. 21-22, item 2110).

Independent Claim 52 is reproduced for discussion:

52. A method in a communications system for processing a call, the method comprising:

 sending a first request to setup the call to a mobile data processing system associated with a user, wherein the mobile data processing system has a wireless communications capability;

 sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed;

 receiving, prior to establishing the call, a response to the request, wherein the response includes the address for the call input by the user of the mobile data processing system in response to receiving the notification message; and

 sending a second request to setup the call to the user using the address.

Wang appears to teach a system where a phone (such as an Ethernet phone) and a computer system (such as a handheld computer) work together to allow a user to set preferences for receiving calls. However, there are important differences between the teaching of Wang and the present claims, as discussed below.

Wang does not appear to teach sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed. Examiner refers to Figures 21 and 22 for options to forward calls. The sections of Wang, related to Figures 21 and 22, teach that the forwarding feature is set up

in advance of a call being received and that all calls coming into the information appliance are diverted to the forwarded phone.

Examiner states in the Response to Arguments of the final Office action that the teaching of Wang is in the context of receiving an incoming call, in response to which the user may take various actions including forwarding the call to a specified location. Applicant respectfully disagrees with this interpretation of Wang. In support of Examiner's argument, Examiner cites Wang at col. 15, lines 15-31 as teaching that

...the user has options to answer it right away, reject or OK meaning answer it at a later time (col.15/lines 15-31) or choose to transfer the call to another destination before answering the call while the call is being connected (as shown in FIG. 15)....

Applicant respectfully submits that the cited passage of Wang does not teach forwarding an incoming call before answering it. The cited passage (col. 15, lines 20-31) states in part:

The incoming call screen includes user selection for saving the caller name and the caller identification to the address database.... For some of these incoming call embodiments, the incoming call screen includes user selections for processing the incoming call. The user selections include rejecting the incoming call (shown in FIG. 25 as "reject" button 2550), answering the incoming call (shown in FIG. 25 as the "answer" button 2540), and answering the call at a later time....

This passage fails to teach forwarding an incoming call. Examiner also cites FIG. 15 as teaching the forwarding of an incoming call. However, Applicant notes that FIG. 15 does not show or depict forwarding an incoming call as claimed, and the text referring to FIG. 15, namely col. 39, lines 49-65, also does not teach forwarding an incoming call. The text does appear to teach transferring an existing, already connected call, but this feature is not what claim 52 claims. Col. 39, lines 49-65 state:

In the connected line screen 1500, the user can choose to place another call...by tapping the "New Line" button 1540. The "Hold" button 1550 and the "Hang up" button 1560 hold and hang up calls respectively. If there are two or more calls active at the same time, the "Switch" button 1570 will also appear on

the connected line screen 1500 so that the user can switch from one active call to another active call.

The line pop-up menu button 1580 is disposed at the top right corner of the connected line screen 1500, and appears as a downward arrow next to and to the left of "Line". When the line pop-up menu button 1580 is tapped, a line pop-up menu 1610 list of choices appears, as shown in the connected line screen with line pop-up menu window 1600, shown in FIG. 16. User selection of the "transfer" prompt 1620 will result in the display of the transfer dialog screen 1700, shown in FIG. 17.

[Emphasis added.]

According to the above text of Wang, Wang only teaches transferring an existing, already connected call to another line. This common feature differs significantly from what the current claim 52 claims, namely, forwarding the call prior to establishing the call.

Hence, Applicant respectfully submits that Wang fails to teach or suggest all limitations of claim 52.

Nowhere in the cited sections of Wang, or any other sections, is it taught to sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed and receiving, prior to establishing the call, a response to the request, wherein the response includes the address input by the user of the mobile data processing system in response to receiving the notification message.

Thus, in view of the above, Wang does not teach each and every feature of independent claim 52 as is required under 35 U.S.C. § 102(e). At least by virtue of their dependency on independent claim 52, Wang does not teach each and every feature of dependent claims 53-55. Accordingly, Applicants respectfully request withdrawal of the rejection of claims 52-55 under 35 U.S.C. § 102(e).

Examiner rejects claim 56 under the same reasoning as claim 52. Claim 56 states:

56. A method for processing a call at a data processing system the method comprising:

- receiving a notification message at a data processing system indicating a request to setup the call;
- presenting the notification to a user at the data processing system;
- receiving the request to establish the call;
- presenting caller information at the data processing system;
- receiving user input from the user identifying an address to which the call is to be directed; and
- responsive to an identification of the address for the call, returning a response including the address to which the call is to be directed.

Nowhere in Wang is it taught to receive user input from the user identifying an address to which the call is to be directed and, responsive to an identification of the address for the call, return a response including the address to which the call is to be directed. As shown above, neither the call forwarding feature nor the transfer feature of Wang allow the user to receive a notification of an incoming call and in response to that notification identify the address to which the call is to be directed.

Examiner does not address the merits of claims 66-69 in the Office action, except to state:

As for claims 66-69, these claims are rejected for the reasons given in the scope of claims 52-60 as already discussed above, with an additional understanding that, as for a first protocol as a session initiation protocol and a second protocol is a hypertext markup language, i.e., a session initiation protocol (as shown in FIG. 25 for initiating a connection call between a caller and a called party, or in FIGs. 16 and 17 for a session protocol while inputs are needed for entering into the palmtop device) and Internet access with a protocol such as TCP/IP is well known for including a protocol using a hypertext markup language (col. 21, lines 5-40).

This statement by Examiner does not appear to show that Wang teaches the limitations of claim 66, which claims:

66. A method for initiating calls, comprising the steps of:
receiving registration notice of an incoming call, wherein said registration notice is formatted in a first protocol;
translating said registration notice from the first protocol into a second protocol; and
transmitting a modified registration notice to a terminating device;
wherein the modified registration notice is formatted in the second protocol.

Claims 66-69 have different scope than claims 52-60. For example, claim 66 recites receiving registration notice of an incoming call, wherein said registration notice is formatted in a first protocol, translating said registration notice from the first protocol into a second protocol, and transmitting a modified registration notice to a terminating device, wherein the modified registration notice is formatted in the second protocol. As an additional example, claim 67 recites receiving a location data with which to redirect the incoming call from the terminating device, wherein the location data is formatted in the second protocol, translating the location data to a second location data and transmitting the second location data, wherein the second location data is formatted in the second protocol. None of these features are addressed in the rejection of claims 52-60. Thus, the Office Action has failed to establish a case of anticipation based on Wang. Claims 60-62 are dependent on claim 56, and thus, these claims distinguish over Wang for at least the reasons noted above with regard to claim 56. Therefore, all claims have been addressed and are believed to be in condition for allowance. Favorable reconsideration of the claims is respectfully requested.

II. Conclusion

It is respectfully urged that the subject application is patentable over Wang and is now in condition for allowance.

The examiner is invited to call the undersigned at the below-listed telephone number if in the opinion of the examiner such a telephone conference would expedite or aid the prosecution and examination of this application.

DATE: _____

5.10.04

Respectfully submitted,



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Facsimile Cover Sheet

To: Commissioner for Patents for Examiner Thuan T. Nguyen Group Art Unit 2685	Facsimile No.: 703/872-9306
From: Carrie Parker Legal Assistant to Patrick C. R. Holmes	No. of Pages Including Cover Sheet: 13
<p>Message:</p> <p>Enclosed herewith:</p> <ul style="list-style-type: none"> • Transmittal Document; and • Response to Final Office Action. 	
<p>Re: Application No. 10/199,797 Attorney Docket No: 11032RRUS04D</p>	
<p>Date: Monday, May 10, 2004</p>	
<p>Please contact us at (972) 367-2001 if you do not receive all pages indicated above or experience any difficulty in receiving this facsimile.</p>	<p><i>This Facsimile is intended only for the use of the addressee and, if the addressee is a client or their agent, contains privileged and confidential information. If you are not the intended recipient of this facsimile, you have received this facsimile inadvertently and in error. Any review, dissemination, distribution, or copying is strictly prohibited. If you received this facsimile in error, please notify us by telephone and return the facsimile to us immediately.</i></p>

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Osterhout et al.

Serial No.: 10/199,797

Filed: July 19, 2002

For: Portable Call Management System

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Group Art Unit: 2685

Examiner: Nguyen, Thuan T.

Attorney Docket No.: 11032RRUS04D

35527
PATENT TRADEMARK OFFICE
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By: Carrie Parker
Carrie Parker

TRANSMITTAL DOCUMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:
ENCLOSED HEREWITH:

- Response to Final Office Action

No fees are believed to be required. If, however, any fees are required, I authorize the Commissioner to charge these fees which may be required to Deposit Account No. 50-0392. No extension of time is believed to be necessary. If, however, an extension of time is required, the extension is requested, and I authorize the Commissioner to charge any fees for this extension to Deposit Account No. 50-0392.

Respectfully submitted,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/199,797	07/19/2002	Gregory T. Osterhout	11032RRUS04D	1786
35527	7590	03/10/2004	EXAMINER	
DUKE W. YEE CARSTENS, YEE & CAHOON, L.L.P. P.O. BOX 802334 DALLAS, TX 75380			NGUYEN, THUAN T	
			ART UNIT	PAPER NUMBER
			2685	

DATE MAILED: 03/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/199,797	Applicant(s) OSTERHOUT ET AL.	
	Examiner THUAN T. NGUYEN	Art Unit 2685	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 52-62 and 66-69 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 52-62 and 66-69 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 7/19/02 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Remarks

1. Claims 1-51, and 63-65 were previously canceled. Pending claims are claims 52-62, and 66-69.

Claim Rejections - 35 USC ' 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 52-60 and 66-69 are rejected under 35 U.S.C. 102(e) as being anticipated by Wang et al (U.S. Patent No. 6,161,134).

Regarding claims 52 and 56, Wang discloses this limitation for a method to process a call as the user can set up the call using his palm top device with the mobile system with a preferred address to receive the call from a called party; in other words, the call is redirected or rerouted to another address which is specified by the user (see Wang, Figs 10-11 for call initialization process; Figs. 16-17 for the user intention to transfer the call to another number; Figs. 18-19 for transferring status and then completed; and Figs.

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21-22 for options to forward incoming calls; see col. 36/line 10 to col. 37/line 11 for call forwarding and call transfer). Furthermore, Wang further discloses "sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed" and then receiving, "prior to establishing the call", a response to the request, wherein the response includes the address "input by the user of the mobile data processing system in response to receiving the notification message; and sending a second request to set up the call to the user using the address, for instance, the user of the mobile data processing system or a palm pilot receives an incoming call with a notification message such as call information coming from caller name and caller ID waiting as a first request to setup the call for call connection (as shown in Fig. 25), the user has options to answer it right way, reject or OK meaning answer it at a later time (col. 15/lines 15-31) or choose to transfer the call to another destination before answering the call while the call is being connected (as shown in Fig. 15) and waiting for answering, then the procedure to transfer the call is followed during the active call by the user input at the time with the address for the transfer (col. 40/line 43 to col. 41/line 4, and Figs. 20-22 for "hold" active calls and then forwards them; and col. 38/line 65 to col. 39/line 5 for either entering a telephone number or entering a network address for the destination if desired) as a fifth feature of the wireless device (col. 24/lines 16-17); and as soon as the user already enters the address for the destination for forwarding, the second request for setup the call for call connection is sent to the system as the user hits the forward button (Figs. 21-22, item 2110).

Art Unit: 2685

As for claims 53-54, Wang discloses that the palm top device is a personal digital assistant (col. 1/lines 13-46 & col. 10/lines 8-25) and a Palm top computer. (The Palm version number is not a significant patentability weight herein because Palm Computing, Inc develops these devices).

As for claims 55 and 59, Wang further discloses "wherein the request and response are session initiation protocol messages" (col. 11/lines 13-21 for SIP addressed).

As for claim 57-58, Wang discloses that caller identification is provided to the user (Fig. 25) and the user can set up audio elements depending on user's preferences (col. 38/lines 15-28).

As for claim 60, Wang discloses that the data processing system is a wireless device (Figs. 10-35).

As for claims 66-69, these claims are rejected for the reasons given in the scope of claims 52-60 as already discussed above, with an additional understanding that, as for a first protocol as a session initiation protocol and a second protocol is a hypertext markup language, i.e., a session initiation protocol (as shown in Fig. 25 for initiating a connection call between a caller and a called party, or in Figs. 16 and 17 for a session protocol while inputs are needed for entering into the Palmtop device) and Internet access with a protocol such as TCP/IP is well known for including a protocol using a hypertext markup language (col. 21/lines 5-40).

Claim Rejections - 35 USC 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 61-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al. (U.S. Patent No. 6,161,134).

Regarding claims 61-62, Wang does not specifically disclose that the information appliance device 210 for using in the network 200 (Fig. 2) is a two-way pager and providing a vibrating alert in the step of presenting caller information; however, Wang does suggest that the information appliance device can be any device capable of storing user information and exchanging information with the network (col. 9/lines 32-42). It inherently suggests that a two-way pager is not limited to use within this system; and the vibrating alert of a pager when an incoming call with caller ID is a function that is well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Wang's system with a two-way pager and its known vibrating alert function plugged-in for use within the system instead or in addition of a palmtop computer/PDA device in order to provide additional communication device to users such as a two-way pager or any other form of communication device for communication in a broader network, for instance, including a pager network in this scenario.

Response to Arguments

6. Applicant's arguments filed on 12/17/03 have been fully considered but they are not persuasive.

Applicants basically argues that Wang does not teach presenting a notification of an incoming call to the user, and in response to the notification, allowing the user to input the address to which the call is to be directed (page 7, 2nd paragraph, and as shown in Figs 6C-6D of the present application) and by amending the claim languages of claims 52 and 56. The Examiner respectfully disagrees with Applicants and would like to invite Applicants to take a closer look at Wang's reference and as explaining in details below.

The user of the mobile data processing system or a palm pilot receives an incoming call with a notification message such as call information coming from caller name and caller ID waiting as a first request to setup the call for call connection (as shown in Fig. 25), the user has options to answer it right way, reject or OK meaning answer it at a later time (col. 15/lines 15-31) or choose to transfer the call to another destination before answering the call while the call is being connected (as shown in Fig. 15) and waiting for answering, then the procedure to transfer the call is followed during the active call by the user input at the time with the address for the transfer (col. 40/line 43 to col. 41/line 4, and Figs. 20-22 for "hold" active calls and then forwards them; and col. 38/line 65 to col. 39/line 5 for either entering a telephone number or entering a network address for the destination if desired) as a fifth feature of the wireless device (col. 24/lines 16-17); and as soon as the user already enters the address for the destination for forwarding, the second request for setup the call for call connection is sent to the system as the user hits the forward button (Figs. 21-22, item 2110).

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

8. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9306, (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II,

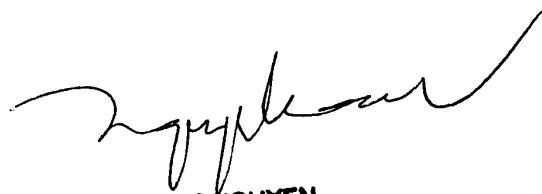
2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Art Unit: 2685

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Thuan Nguyen whose telephone number is (703) 308-5860. The examiner can normally be reached on Monday-Friday from 9:30 AM to 7:00 PM, with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (703) 305-4385.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Technology Center 2600 Customer Service Office** whose telephone number is **(703) 306-0377**.



TONY T. NGUYEN
PATENT EXAMINER, FSA

Tony T. Nguyen
Art Unit 2685
March 3, 2004



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application: **Osterhout et al.**

Serial No.: **10/199,797**

Filed: **July 19, 2002**

For: **Portable Call Management System**

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Group Art Unit: **2685**

Examiner: **Nguyen, Thuan T.**

Attorney Docket No.: **11032RRUS04D**

9/c
15:04
OK

Certificate of Mailing Under 37 C.F.R. § 1.8(a)
I hereby certify this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on December 17, 2003.
By: Michele Morrow
Michele Morrow

RECEIVED

DEC 29 2003

Technology Center 2600

RESPONSE TO OFFICE ACTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

No fees are believed to be required. If, however, any fees are required, I authorize the Commissioner to charge these fees which may be required to Deposit Account No. 50-0392. No extension of time is believed to be necessary. If, however, an extension of time is required, the extension is requested, and I authorize the Commissioner to charge any fees for this extension to Deposit Account No. 50-0392.

In response to the Office Action dated September 17, 2003, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims, which begins on page 2 of this paper.

Remarks/Arguments begin on page 5 of this paper.

IN THE CLAIMS:

1-51. (Canceled)

52. (Currently Amended) A method in a communications system for processing a call, the method comprising:

~~receiving at a mobile data processing system a call for a user;~~

sending a first request to setup the call to ~~[[the]]~~a mobile data processing system associated with a user, wherein the mobile data processing system has a wireless communications capability;

sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed;

receiving, prior to establishing the call, a response to the request, wherein the response includes ~~[[an]]~~the address for the call input by the user of the mobile data processing system in response to receiving the notification message; and

sending a second request to setup the call to the user using the address.

53. (Original) The method as recited in claim 52, wherein the data processing system is a personal digital assistant.

54. (Currently amended) The method as recited in claim ~~[[52]]~~53, wherein the personal digital assistant is a Palm VII.

55. (Original) The method as recited in claim 52, wherein the request and the response are session initiation protocol messages.

56. (Currently amended) A method for processing a call at a data processing system the method comprising:

receiving a notification message at a data processing system indicating a request to setup the call;

presenting the notification to a user at the data processing system;

receiving [[a]]the request to establish [[a]]the call;

presenting caller information at the data processing system;

receiving user input from the user identifying an address to which the call is to be directed; and

responsive to an identification of [[an]]the address for the call, returning a response including the address to which the call is to be directed.

57. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises displaying the caller information.

58. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises presenting the caller information audibly.

59. (Original) The method as recited in claim 56, wherein the request and the response are session initiation protocol messages.

60. (Original) The method as recited in claim 56, wherein the data processing system is a wireless device.

61. (Original) The method as recited in claim 56, wherein the step of presenting caller information comprises a vibrating alert.

62. (Original) The method as recited in claim 56, wherein the data processing system is a two-way pager.

63-65. (Canceled)

66. (Original) A method for initiating calls, comprising the steps of:

receiving registration notice of an incoming call, wherein said registration notice is formatted in a first protocol;

translating said registration notice from the first protocol into a second protocol;
and

transmitting a modified registration notice to a terminating device; wherein the modified registration notice is formatted in the second protocol.

67. (Original) The method as recited in claim 66, further comprising:

receiving a location data with which to redirect the incoming call from the terminating device; wherein the location data is formatted in the second protocol; and

translating the location data to a second location data; and

transmitting the second location data, wherein the second location data is formatted in the second protocol.

68. (Original) The method as recited in claim 66, wherein the first protocol is a session initiation protocol.

69. (Original) The method as recited in claim 66, wherein the second protocol is a hypertext markup language.

REMARKS

Claims 52-62 and 66-69 are pending in the present application. By this Response, claims 52, 54 and 56 are amended. Claim 52 is amended to recite sending a notification message to the mobile data processing system indicating the first request to setup the call and receiving prior to establishing the call a response to the request, wherein the response includes an address for the call selected by the user of the mobile data processing system in response to receiving the notification message. Claim 56 is amended to recite receiving a notification message at a data processing system indicating a request to setup a call. Support for the amendments to claims 52 and 56 may be found at least at page 14, lines 7-22 and page 17, line 21 to page 18, line 10 of the present specification. Claim 54 is amended to correct for antecedent basis. Reconsideration of the claims in view of the above amendments and the following remarks is respectfully requested.

I. 35 U.S.C. § 102, Alleged Anticipation, Claims 52-60 and 66-69

The Office Action rejects claims 52-60 and 66-69 under 35 U.S.C. § 102(e) as being allegedly anticipated by Wang et al. (U.S. Patent No. 6,161,134). This rejection is respectfully traversed.

As to independent claims 52 and 56, the Office Action states:

Wang discloses this limitation for a method to process a call as the user can set up the call using his palm top device with the mobile system with a preferred address to receive the call from a called party; in other words, the call is redirected or rerouted to another address which is specified by the user (see Wang, Figs 10-11 for call initialization process; Figs. 16-17 for the user intention to transfer the call to another number; Figs 18-19 for transferring status and then completed; and Figs 21-22 for options to forward incoming calls; see col. 36/line 10 to col. 37/line 11 for call forwarding and call transfer.

Office Action dated September 17, 2003, page 2.

Claim 52 reads as follows:

52. A method in a communications system for processing a call, the method comprising:

sending a first request to setup the call to a mobile data processing system associated with a user, wherein the mobile data processing system has a wireless communications capability;

sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed;

receiving, prior to establishing the call, a response to the request, wherein the response includes the address input by the user of the mobile data processing system in response to receiving the notification message; and

sending a second request to setup the call to the user using the address. (emphasis added)

A prior art reference anticipates the claimed invention under 35 U.S.C. § 102 only if every element of a claimed invention is identically shown in that single reference, arranged as they are in the claims. In re Bond, 910 F.2d 831, 832, 15 U.S.P.Q.2d 1566, 1567 (Fed. Cir. 1990). All limitations of the claimed invention must be considered when determining patentability. In re Lowry, 32 F.3d 1579, 1582, 32 U.S.P.Q.2d 1031, 1034 (Fed. Cir. 1994). Anticipation focuses on whether a claim reads on the product or process a prior art reference discloses, not on what the reference broadly teaches. Kalman v. Kimberly-Clark Corp., 713 F.2d 760, 218 U.S.P.Q. 781 (Fed. Cir. 1983). Applicants respectfully submit that Wang does not identically show each and every element of the claimed invention arranged as they are in the claims. Specifically, Wang does not teach sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed.

Wang is directed to an information appliance and a telephone that function independently as well as with each other as companion appliances. The information appliance stores user information and the telephone is linked to a network. The companion appliances are capable of simultaneously exchanging voice and data messages with devices connected to the network. The companion appliances are connected to each other physically through a communications port, and exchange user personalized information, user commands, and responses corresponding to action of the network-

connected devices. Aspects of the invention include: a method for exchanging voice and data messages between a telephone and devices connected to a network, a portable computer adapted for connection to a telephone, a telephone adapted for connection to a portable computer, and a communications system including the telephone connected to the portable computer.

Nowhere in Wang is it taught to send a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed. The Office Action refers to Figures 21 and 22 for options to forward calls. The sections of Wang, related to Figures 21 and 22, teach that the forwarding feature is set up in advance of a call being received and that all calls coming into the information appliance are diverted to the forwarded phone. Furthermore, once the call forwarding setup is completed the information appliance sends a message to the physically connected phone and the information appliance is no longer accessed when an incoming call is detected, as the telephone automatically forwards all calls until the user discontinues the forwarding feature. Thus, Wang does not teach presenting a notification of an incoming call to the user and, in response to the notification, allowing the user to input the address to which the call is to be directed.

Additionally, the Office Action refers to Figures 16 and 17 for options to transfer calls. The sections of Wang, related to Figures 16 and 17, teach that the call must already be connected before it can be transferred. The transfer process of Wang allows the user to transfer an already connected call to any device that is connected to the LAN link to which the telephone is already connected. Thus, this feature of Wang, does not teach presenting a notification of an incoming call to the user and, in response to the notification, allowing the user to input the address to which the call is to be directed.

Nowhere in the cited sections of Wang, or any other sections, is it taught to sending a notification message to the mobile data processing system indicating the first request to setup the call, wherein the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed and receiving, prior to

establishing the call, a response to the request, wherein the response includes the address input by the user of the mobile data processing system in response to receiving the notification message.

Thus, in view of the above, Wang does not teach each and every feature of independent claim 52 as is required under 35 U.S.C. § 102(e). At least by virtue of their dependency on independent claim 52, Wang does not teach each and every feature of dependent claims 53-55. Accordingly, Applicants respectfully request withdrawal of the rejection of claims 52-55 under 35 U.S.C. § 102(e).

In addition to the above, Wang does not teach or suggest the specific features of independent claim 56 which reads as follows:

56. A method for processing a call at a data processing system the method comprising:
receiving a notification message at a data processing system
indicating a request to setup the call;
presenting the notification to a user at the data processing system;
receiving the request to establish the call;
presenting caller information at the data processing system;
receiving user input from the user identifying an address to which the call is to be directed; and
responsive to an identification of the address for the call, returning a response including the address to which the call is to be directed.
(emphasis added)

Nowhere in Wang is it taught to receive user input from the user identifying an address to which the call is to be directed and, responsive to an identification of the address for the call, return a response including the address to which the call is to be directed. As shown above, neither the call forwarding feature nor the transfer feature of Wang allow the user to receive a notification of an incoming call and in response to that notification identify the address to which the call is to be directed.

Thus, in view of the above, Wang does not teach each and every feature of independent claim 56 as is required under 35 U.S.C. § 102(e). At least by virtue of their dependency on independent claim 52, Wang does not teach each and every feature of dependent claims 57-60. Accordingly, Applicants respectfully request withdrawal of the rejection of claims 57-60 under 35 U.S.C. § 102(e).

The Office Action fails to address the specific features of claim 66-69 and instead merely rejects claims 66-69 for reasons given in addressing the scope of claims 52-60. However, claims 66-69 have different scope than claims 52-60. For example, claim 66 recites receiving registration notice of an incoming call, wherein said registration notice is formatted in a first protocol, translating said registration notice from the first protocol into a second protocol, and transmitting a modified registration notice to a terminating device, wherein the modified registration notice is formatted in the second protocol. As an additional example, claim 67 recites receiving a location data with which to redirect the incoming call from the terminating device, wherein the location data is formatted in the second protocol, translating the location data to a second location data and transmitting the second location data, wherein the second location data is formatted in the second protocol. None of these features are addressed in the rejection of claims 52-60. Thus, the Office Action has failed to establish a case of anticipation based on Wang since the Office Action fails to even address these features.

Thus, in view of the above, Wang does not teach each and every feature of independent claim 66 as is required under 35 U.S.C. § 102(e). At least by virtue of their dependency on independent claim 66, Wang does not teach each and every feature of dependent claims 67-69. Accordingly, Applicants respectfully request withdrawal of the rejection of claims 66-69 under 35 U.S.C. § 102(e).

Furthermore, Wang does not teach, suggest, or give any incentive to make the needed changes to reach the presently claimed invention. Absent the Examiner pointing out some teaching or incentive to implement Wang send a notification message to the mobile data processing system indicating the first request to setup the call, where the notification is presented to the user via the mobile data processing system and, in response to the notification, user input is received from the user identifying an address to which the call is to be directed, one of ordinary skill in the art would not be led to modify Wang to reach the present invention when the reference is examined as a whole. Absent some teaching, suggestion, or incentive to modify Wang in this manner, the presently claimed invention can be reached only through an improper use of hindsight using the applicants' disclosure as a template to make the necessary changes to reach the claimed invention.

II. 35 U.S.C. § 103, Alleged Obviousness, Claims 60-62

The Office Action rejects claims 60-62 under 35 U.S.C. § 103(a) as being allegedly unpatentable over Wang et al. (U.S. Patent No. 6,161,134). This rejection is respectfully traversed.

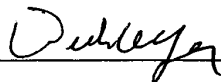
Claims 60-62 are dependent on claim 56, and thus, these claims distinguish over Wang for at least the reasons noted above with regard to claim 56. Moreover, the alleged knowledge of a data processing systems being wireless or a two-way pager and presenting caller information using a vibrating alert would not be sufficient to reject claim 56 or claims 60-62 by virtue of their dependency. That is, the knowledge of a data processing systems being wireless or a two-way pager and presenting caller information using a vibrating alert, does not teach receiving user input from the user identifying an address to which the call is to be directed and responsive to an identification of the address for the call, returning a response including the address to which the call is to be directed, as recited in claim 56 from which claims 60-62 depend. Accordingly, Applicants respectfully request withdrawal of the rejection of claims 60-62 under 35 U.S.C. § 103(a).

III. Conclusion

It is respectfully urged that the subject application is patentable over Wang and is now in condition for allowance. The Examiner is invited to call the undersigned at the below-listed telephone number if in the opinion of the Examiner such a telephone conference would expedite or aid the prosecution and examination of this application.

Respectfully submitted,

DATE: 12/17/05



Duke W. Yee
Reg. No. 34,285

Stephen J. Walder, Jr.
Reg. No. 41,534
Carstens, Yee & Cahoon, LLP
P.O. Box 802334
Dallas, TX 75380
(972) 367-2001
Attorneys for Applicants

SJW/fl



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Osterhout et al.**

Serial No.: **10/199,797**

Filed: **July 19, 2002**

For: **Portable Call Management System**

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§
§

Group Art Unit: **2685**

Examiner: **Nguyen, Thuan T.**

Attorney Docket No.: **11032RRUS04D**

8/19/03
Add
1-504
OK

CHANGE OF ATTORNEY'S ADDRESS IN APPLICATION

Please send all correspondence for this application to the following:

USPTO Customer Number 35527
Duke W. Yee
Carstens Yee & Cahoon, LLP
P.O. Box 802334
Dallas, TX 75380

RECEIVED

DEC 29 2003

Technology Center 2600

Please direct telephone calls to:

(972) 367-2001

Duke W. Yee

Duke W. Yee
Reg. No. 34,285
Carstens, Yee & Cahoon, L.L.P.
P.O. Box 802334
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Tel. No.: (972) 367-2001

I hereby certify this correspondence is being deposited with the United States Postal service as First Class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

on December 17, 2003 by Michele Morrow

2685



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Osterhout et al.**

Serial No.: **10/199,797**

Filed: **July 19, 2002**

For: **Portable Call Management System**

35527

PATENT TRADEMARK OFFICE
CUSTOMER NUMBER

§ Group Art Unit: **2685**
§
§ Examiner: **Nguyen, Thuan T.**
§
§ Attorney Docket No.: **11032RRUS04D**
§

§ Certificate of Mailing Under 37 C.F.R. § 1.8(a)
§ I hereby certify this correspondence is being deposited with the
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addressed to: Commissioner for Patents, P.O. Box 1450,
Alexandria, VA 22313-1450 on December 17, 2003.
By: Michele Morrow
Michele Morrow

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P.O. Box 1450
Alexandria, VA 22313-1450

DEC 29 2003

Technology Center 2600

Sir:
ENCLOSED HEREWITH:

- Change of Attorney's Address in Application;
- Response to Office Action; and
- Our return postcard.

No fees are believed to be required. If, however, any fees are required, I authorize the Commissioner to charge these fees which may be required to Deposit Account No. 50-0392. No extension of time is believed to be necessary. If, however, an extension of time is required, the extension is requested, and I authorize the Commissioner to charge any fees for this extension to Deposit Account No. 50-0392.

Respectfully submitted,

Duke W. Yee

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/199,797	07/19/2002	Gregory T. Osterhout	11032RRUS04D	1786

21498 7590 09/17/2003

NORTEL NETWORKS CORPORATION
INTELLECTUAL PROPERTY LAW GROUP
P O BOX 832130
RICHARDSON, TX 750832130

EXAMINER

NGUYEN, THUAN T

ART UNIT PAPER NUMBER

2685

DATE MAILED: 09/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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EXAMINER

ART UNIT	PAPER NUMBER
----------	--------------

DATE MAILED:

7

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

See Attachments

Office Action Summary

Application No.

10/199,797

Applicant(s)

OSTERHOUT ET AL.

Examiner

THUAN T. NGUYEN

Art Unit

2685

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ____ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is **FINAL**.
- 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 52-62 and 66-69 is/are pending in the application.
 - 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 52-62 and 66-69 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 19 July 2002 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on ____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. ____.
 - 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.
- 4) Interview Summary (PTO-413) Paper No(s). ____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other:

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 52-60 and 66-69 are rejected under 35 U.S.C. 102(e) as being anticipated by Wang et al (U.S. Patent No. 6,161,134).

Regarding claims 52 and 56, Wang discloses this limitation for a method to process a call as the user can set up the call using his palm top device with the mobile system with a preferred address to receive the call from a called party; in other words, the call is redirected or rerouted to another address which is specified by the user (see Wang, Figs 10-11 for call initialization process; Figs. 16-17 for the user intention to transfer the call to another number; Figs. 18-19 for transferring status and then completed; and Figs. 21-22 for options to forward incoming calls; see col. 36/line 10 to col. 37/line 11 for call forwarding and call transfer).

As for claims 53-54, Wang discloses that the palm top device is a personal digital assistant (col. 1/lines 13-46 & col. 10/lines 8-25) and a Palm top computer. (The Palm

version number is not a significant patentability weight herein because Palm Computing, Inc develops these devices).

As for claims 55 and 59, Wang further discloses “wherein the request and response are session initiation protocol messages” (col. 11/lines 13-21 for SIP addressed).

As for claim 57-58, Wang discloses that caller identification is provided to the user (Fig. 25) and the user can set up audio elements depending on user’s preferences (col. 38/lines 15-28).

As for claim 60, Wang discloses that the data processing system is a wireless device (Figs. 10-35).

As for claims 66-69, these claims are rejected for the reasons given in the scope of claims 52-60 as already discussed above, and as for claim 69 alone, with the second protocol is a hypertext markup language, i.e., Internet access with a protocol such as TCP/IP is well known for a protocol using a hypertext markup language (col. 21/lines 5-40).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2685

4. Claims ⁶¹60-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al. (U.S. Patent No. 6,161,134).

Regarding claims ⁶²60-62, Wang does not specifically disclose that the information appliance device 210 for using in the network 200 (Fig. 2) is a two-way pager and providing a vibrating alert in the step of presenting caller information; however, Wang does suggest that the information appliance device can be any device capable of storing user information and exchanging information with the network (col. 9/lines 32-42). It inherently suggests that a two-way pager is not limited to use within this system; and the vibrating alert of a pager when an incoming call with caller ID is a function that is well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Wang's system with a two-way pager and its known vibrating alert function plugged-in for use within the system instead or in addition of a palmtop computer/PDA device in order to provide additional communication device to users such as a two-way pager or any other form of communication device for communication in a broader network, for instance, including a pager network in this scenario.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Uranaka et al (US Patent 6,421,536 B1) & Martinez et al (US Patent PUB 2002/0118800

A1) disclose systems related to call transfer and/or call forwarding with caller ID.

6. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:


(703) 872-9314, (for Technology Center 2600 only)

*Hand-delivered responses should be brought to Crystal Park II,
2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).*

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Thuan Nguyen whose telephone number is (703) 308-5860. The examiner can normally be reached on Monday-Friday from 9:30 AM to 7:00 PM, with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (703) 305-4385.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Technology Center 2600 Customer Service Office** whose telephone number is **(703) 306-0377**.



**TONY T. NGUYEN
PATENT EXAMINER**

Tony T. Nguyen
Art Unit 2685
September 5, 2003

Notice of References Cited	Application/Control No. 10/199,797	Applicant(s)/Patent Under Reexamination OSTERHOUT ET AL.	
	Examiner THUAN T. NGUYEN	Art Unit 2685	Page 1 of 1

U.S. PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
A	US-6,161,134	12-2000	Wang et al.	709/220
B	US-6,421,536 B1	07-2002	Uranaka et al.	455/417
C	US-2002/0118800 A1	08-2002	Martinez et al.	379/67.1
D	US-			
E	US-			
F	US-			
G	US-			
H	US-			
I	US-			
J	US-			
K	US-			
L	US-			
M	US-			

FOREIGN PATENT DOCUMENTS

*	Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
N					
O					
P					
Q					
R					
S					
T					

NON-PATENT DOCUMENTS

*	Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
U	
V	
W	
X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Form PTO-1449 LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>	ATTORNEY DOCKET NO. 11032RRUS04D	SERIAL NO. Not Assigned
	APPLICANT Osterhout et al.	
	FILING DATE July 19, 2002	GROUP ART UNIT 2684

1c715 U.S. PTO
 10/199797
 07/19/02

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	PUBLICATION DATE	INVENTOR NAME	CLASS/SUBCLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	PUBLICATION DATE	COUNTRY	CLASS/SUBCLASS	TRANSLATION	
					YES	NO

OTHER PRIOR ART (including author, title, date, pertinent page, etc.)

<i>8/6</i>	AA	Handley et al., "SIP: Session Initiation Protocol; March 1999, pp. 1-134.
<i>8/4</i>	AB	3Com Corporation, "Web Clipping Developer's Guide", Document Number 3009-001; Print Date 8/7/99, pp. 1-93.

RELATED PATENT APPLICATIONS

EXAMINER INITIAL	APPLICATION NO./ ATTY. DOCKET NO.	APPLICANT	TITLE	FILING DATE

DATE CONSIDERED **08/28/03** EXAMINER *[Signature]*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

6/B
B.J.
RECEIVED
NOV 15 2002
Technology Center 2600

In re application of: **Osterhout et al.**

Serial No.: 10/199,797

Filed: July 19, 2002

For: **Portable Call Management System**

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§
§

Group Art Unit: 2684

Examiner: **Nguyen, Thuan T.**

Attorney Docket No.: 11032RRUS04D

Certificate of Mailing Under 37 C.F.R. § 1.8(a)
I hereby certify this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231 on November 8, 2002.
By: Dell Whitton
Dell Whitton

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

No fees are believed to be necessary. If, however, any fees are required, I authorize the Commissioner to charge these fees to Deposit Account No. 50-0392. No extension of time is believed to be necessary. If, however, an extension of time is necessary, the extension is requested and I authorize the Commissioner to charge the necessary extension fees to Deposit Account No. 50-0392.

Prior to examination of this application, please amend the above-identified application as follows:

IN THE CLAIMS:

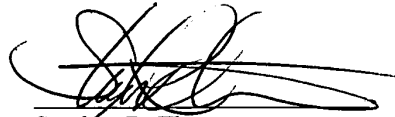
Please cancel claims 43-51.

REMARKS

Claims 43-51 are canceled. Claims 52-62 and 66-69 remain in the application. These claims are believed to be in condition for allowance. The examiner is invited to call the undersigned at the below-listed telephone number if in the opinion of the examiner such a telephone conference would expedite or aid the prosecution and examination of this application.

Date: Nov. 8, 2002

Respectfully submitted,



Stephen R. Tkacs
Registration No. 46,430
CARSTENS YEE & CAHOON, LLP
P.O. Box 802334
Dallas, Texas 75380
(972) 367-2001
AGENT FOR APPLICANTS



2684

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

NOV 15 2002

Technology Center 2600

In re application of: **Osterhout et al.**

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§

Group Art Unit: **2684**

Serial No.: **10/199,797**

Examiner: **Nguyen, Thuan T.**

Filed: **July 19, 2002**

Attorney Docket No.: **11032RRUS04D**

For: **Portable Call Management System**

Certificate of Mailing Under 37 C.F.R. § 1.8(a)

I hereby certify this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231 on November 8, 2002.

By: *Dell Whitton*
Dell Whitton

TRANSMITTAL DOCUMENT

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:
ENCLOSED HEREWITH:

- Preliminary Amendment; and
- Our return postcard.

No fees are believed to be required. If, however, any fees are required, I authorize the Commissioner to charge these fees which may be required to Deposit Account No. 50-0392. No extension of time is believed to be necessary. If, however, an extension of time is required, the extension is requested, and I authorize the Commissioner to charge any fees for this extension to Deposit Account No. 50-0392.

Respectfully submitted,

Duke W. Yee
Duke W. Yee
Registration No. 34,285
CARSTENS, YEE & CAHOON, LLP
P.O. Box 802334
Dallas, Texas 75380
(972) 367-2001
ATTORNEY FOR APPLICANTS



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20540
www.uspto.gov

Handwritten initials: JK3

September 19, 2002

Duke W. Lee
Carstens Yee & Cahoon, LLP
P.O. Box 802334
Dallas, Texas 75380

We regret to inform you that your refund request for \$156.00 on application number 10/199797, cannot be granted for the reason specified below.

- Refund based upon subsequent establishment of small entity status: A refund based on establishment of small entity status may be granted only if a written assertion of entitlement to small entity status under 37 CFR 1.27 and a request for refund of the excess amount are filed within three months of payment and of the fee (37 CFR 1.28). Three-month period for establishing small entity status and requesting a refund has expired.
- Refund of application filing or petition fee: Filing fees paid for an application that is entitled to a filing date and required petition fees are not fees paid by mistake or in excess. If an application is **not** entitled to a filing date and proceedings are terminated on the application, any filing fees (less the \$130 handling fee) will be refunded (37 CFR 1.53(e)(3)).
- Refund of overpayment: There was no overpayment made by applicant. All fees were calculated and assessed properly. ****See below****
- The payment for which the refund is requested has not been applied to the application. The payment check was returned to applicant for the following reason:
 - Not filled out properly. (See attached copy of notice.)
 - Not made payable in U.S. funds.
 - No explanation was given as to purpose.
 - Payment was previously received and applied by Office.
 - Check was returned by bank for insufficient funds.

****Any request for reconsideration or review of this decision must be by way of a petition filed within two months of this decision, which decision must set forth with particularity why a refund is due (see 37 CFR 1.181(b) and (f)).**

The extra charges were for the claims. You had multiple claims ,See claims 98, 99, 100, each claim is worth 55. plus the multiple claim fee of \$140.00

If there are any further questions, please contact me at (703) 308-3642

Sincerely,

Eleanor F. Kurtz
Office of Initial Patent Examination

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Osterhout et al.

Serial No.: Not Assigned

Filed: July 19, 2002

For: Portable Call Management System

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§
§

Group Art Unit: 2684

Examiner: Nguyen, Thuan T.

Attorney Docket No.: 11032RRUS04D

Certificate of Mailing Under 37 C.F.R. § 1.8(a)

I hereby certify this correspondence is being deposited with the United States Postal Service as Express mail in an envelope addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231 on July 19, 2002.

By:


Krista Douthitt

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

No fees are believed to be necessary. If, however, any fees are required, I authorize the Commissioner to charge these fees to Deposit Account No. 50-0392. No extension of time is believed to be necessary. If, however, an extension of time is necessary, the extension is requested and I authorize the Commissioner to charge the necessary extension fees to Deposit Account No. 50-0392.

Prior to examination of this application, please amend the above-identified application as follows:

IN THE SPECIFICATION:

On page one, before the BACKGROUND OF THE INVENTION, please insert the following paragraph:

This application is a divisional of application number 09/419,175,
filed October 15, 1999, status pending.

IN THE CLAIMS:

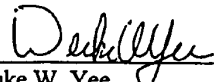
Please cancel claims 1-42 and 63-65.

REMARKS

Claims 1-42 and 63-65 have been canceled. Claims 52-62 and 66-69 remain in the application. These claims are believed to be in condition for allowance. The examiner is invited to call the undersigned at the below-listed telephone number if in the opinion of the examiner such a telephone conference would expedite or aid the prosecution and examination of this application.

Date: July 19, 2002

Respectfully submitted,


Duke W. Yee
Registration No. 34,285
CARSTENS YEE & CAHOON, LLP
P.O. Box 802334
Dallas, Texas 75380
(972) 367-2001
ATTORNEY FOR APPLICANT

CARSTENS, YEE & CAHOON, L.L.P.
ATTORNEYS AND COUNSELORS

Duke W. Yee
Telephone: (972) 367-2001
Facsimile: (972) 367-2002
E-Mail: yee@cyclaw.com

21 Reg 800 Refund
13760 Noel Road
Suite 900
Dallas, Texas 75240
09-13-02

Mailing Address
Post Office Box 802334
Dallas, Texas 75380

August 14, 2002

Via Fax No. (703) 308-6778
and Via First Class Mail

United States Patent and Trademark Office
Deposit Accounts
Washington, D.C. 20231

RE: Deposit Account No. 50-0392
Carstens, Yee & Cahoon, L.L.P.
Customer No. 022858

Ladies and Gentlemen,

We are in receipt of your July 2002 Statement for Deposit Account No. 50-0392. There are two (2) charges which were made in error, as follows:

<u>Date</u>	<u>Control No.</u>	<u>Description</u>	<u>Docket No.</u>	<u>Fee Code</u>	<u>Charges</u>
07/25/02	117	10/199,797	11032RRUS04D	102	\$84.00
07/25/02	118	10/199,797	11032RRUS04D	103	\$72.00

We did not authorize these charges to our deposit account and request that such funds be refunded as soon as possible.

As indicated by the attached Preliminary Amendment as filed on 07/19/02, and the attached Fee Transmittal Document, there are 15 total claims and 3 independent claims. There was an error on the Fee Transmittal originally filed which stated that there are 2 independent claims. Actually, there are 3, but still no fee should be required. Therefore, please credit the amount of \$156.00 to Deposit Account No. 50-0392.

Please feel free to contact me or my Paralegal, Krista Douthitt, at the number shown above should you have any questions concerning this matter.

Very truly yours,



Duke W. Yee

DWY/kdd
Enclosure

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2002</h2> <p style="font-size: small; margin: 5px 0;">Patent fees are subject to annual revision.</p>	Complete if Known	
	Application Number	Not Assigned
	Filing Date	07/19/2002
	First Named Inventor	Osterhout et al.
	Examiner Name	Nguyen, Thuan T.
	Group Art Unit	2684
TOTAL AMOUNT OF PAYMENT	(\$)	740.00
	Attorney Docket No.	11032RRUS04D

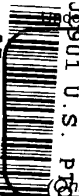
METHOD OF PAYMENT	FEE CALCULATION (continued)																																																																																																																																																																																									
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number: <u>50-0392</u></p> <p>Deposit Account Name: <u>Carstens, Yee & Cahoon</u></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed:</p> <p><input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>	<p>3. ADDITIONAL FEES</p> <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>720</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,960</td><td>228</td><td>980</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>320</td><td>220</td><td>160</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>280</td><td>221</td><td>140</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>141</td><td>1,280</td><td>241</td><td>640</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,280</td><td>242</td><td>640</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>460</td><td>243</td><td>230</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>620</td><td>244</td><td>310</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td><td></td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>740</td><td>246</td><td>370</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr> <tr><td>149</td><td>740</td><td>249</td><td>370</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr> <tr><td>179</td><td>740</td><td>279</td><td>370</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="5">Other fee (specify)</td><td></td></tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL (3) (\$)</td> </tr> </tbody> </table>	Large Entity Fee Code (\$)	Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	400	216	200	Extension for reply within second month		117	920	217	460	Extension for reply within third month		118	1,440	218	720	Extension for reply within fourth month		128	1,960	228	980	Extension for reply within fifth month		119	320	219	160	Notice of Appeal		120	320	220	160	Filing a brief in support of an appeal		121	280	221	140	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive - unavoidable		141	1,280	241	640	Petition to revive - unintentional		142	1,280	242	640	Utility issue fee (or reissue)		143	460	243	230	Design issue fee		144	620	244	310	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Processing fee under 37 CFR 1.17(q)		126	180	126	180	Submission of Information Disclosure Stmt		581	40	581	40	Recording each patent assignment per property (times number of properties)		146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))		149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))		179	740	279	370	Request for Continued Examination (RCE)		169	900	169	900	Request for expedited examination of a design application		Other fee (specify)						SUBTOTAL (3) (\$)				
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SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Duke W. Yee	Registration No. (Attorney/Agent)	34,285
Signature		Telephone	(972) 367-2001
		Date	07/19/2002

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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07/19/02



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PTO/SB/05 (03-01) Approved for use through 10/31/2002. OMB 0657-0032

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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A

UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No.	11032RRUS04D
First Inventor	Osterhout et al.
Title	Portable Call Management System
Express Mail Label No.	EV082028113US

Only for new nonprovisional applications under 37 CFR 1.53(b)

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
 - Applicant claims small entity status.
See 37 CFR 1.27.
 - Specification [Total Pages *(preferred arrangement set forth below)*
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings *(if filed)*
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
 - Drawing(s) (35 U.S.C. 113) [Total Sheets - Oath or Declaration [Total Pages - Newly executed (original or copy)
Copy from a prior application (37 CFR 1.63 (d))
 - DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)
- Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

- CD-ROM or CD-R in duplicate, large table or Computer Program *(Appendix)*
- Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all necessary)*
 - Computer Readable Form (CRF)
 - Specification Sequence Listing on:
 - CD-ROM or CD-R (2 copies); or
 - paper
 - Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- Assignment Papers (cover sheet & document(s))
- 37 CFR 3.73(b) Statement Power of Attorney *(when there is an assignee)*
- English Translation Document *(if applicable)*
- Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
- Preliminary Amendment
- Return Receipt Postcard (MPEP 503) *(Should be specifically itemized)*
- Certified Copy of Priority Document(s) *(if foreign priority is claimed)*
- Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- Other:

Jc715 U.S. PTO 10/19/02 07/19/02

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-part (CIP) of prior application No. 09, 419,175
 Prior application information Examiner: Nguyen, Thuan T. Group Art Unit 2684

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label Correspondence address below

Name					
Address					
City	State	Zip Code			
Country	Telephone	Fax			

Name (Print/Type)	Duke W. Yee	Registration No. (Attorney/Agent)	34,285
Signature	<i>Duke W. Yee</i>	Date	07/19/2002

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<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2002</h2> <p style="font-size: small; margin: 5px 0;">Patent fees are subject to annual revision.</p>	Complete if Known	
	Application Number	Not Assigned
	Filing Date	07/19/2002
	First Named Inventor	Osterhout et al.
	Examiner Name	Nguyen, Thuan T.
	Group Art Unit	2684
TOTAL AMOUNT OF PAYMENT	(\$)	740.00
Attorney Docket No.	11032RRUS04D	

METHOD OF PAYMENT	FEE CALCULATION (continued)																																																																																																																																																																																								
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number: <input type="text" value="50-0392"/> Deposit Account Name: <input type="text" value="Carstens, Yee & Cahoon"/></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 <input type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27</p> <p>2. <input checked="" type="checkbox"/> Payment Enclosed: <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>	<p>3. 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SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Duke W. Yee	Registration No. (Attorney/Agent)	34,285
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Signature			

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Osterhout et al.**

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Group Art Unit: **2684**

Serial No.: **Not Assigned**

Examiner: **Nguyen, Thuan T.**

Filed: **July 19, 2002**


Attorney Docket No.: **11032RRUS04D**

For: **Portable Call Management System**

Certificate of Mailing Under 37 C.F.R. § 1.8(a)

I hereby certify this correspondence is being deposited with the United States Postal Service as Express mail in an envelope addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231 on July 19, 2002

By


Krista Douthitt

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

No fees are believed to be necessary. If, however, any fees are required, I authorize the Commissioner to charge these fees to Deposit Account No. 50-0392. No extension of time is believed to be necessary. If, however, an extension of time is necessary, the extension is requested and I authorize the Commissioner to charge the necessary extension fees to Deposit Account No. 50-0392.

Prior to examination of this application, please amend the above-identified application as follows:

IN THE SPECIFICATION:

On page one, before the BACKGROUND OF THE INVENTION, please insert the following paragraph:

This application is a divisional of application number 09/419,175,
filed October 15, 1999, status pending.

IN THE CLAIMS:

Please cancel claims 1-42 and 63-65.

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PORTABLE CALL MANAGEMENT SYSTEM5 **1. Field of the Invention:**

The present invention relates to telecommunications systems and, more specifically, to methods of transferring calls real time from one device to another.

10 **2. Background of the Invention:**

Historically, when a caller telephoned a party, if the party to which the caller wished to speak with did not answer the phone or if the line was busy, the caller had to hang up and redial at a later time hoping that the second call would reach the intended party. Often times, the caller would need to attempt to contact the party multiple times in order to reach that party. If the caller had urgent information in which time was of the essence, this method was unsatisfactory and often resulted in the intended party missing important business or other opportunities.

Some of these problems were alleviated with the introduction of answering machines and voice mail systems. However, even these solutions were not completely satisfactory. For instance, utilizing answering machines and voice mail systems required the called party to actively retrieve their messages. Thus, either many important messages were still not received in a timely manner if the called party did not retrieve their messages frequently or the called party was required to check their voice mail or answering machine quite frequently when the party was out of the office or home in order to insure that messages were retrieved quickly. Thus, this results in the same problem as having the caller repeatedly call the intended party, except that in this case it is the called party that must waste its time insuring that no messages are missed.

A more recent solution to this problem is the introduction of subscriber's static reach list. A static reach list enabled a subscriber (i.e., called party) to enter a list of telephone numbers (or IP addresses, etc.) where the subscriber might be reached. The subscriber would enter these numbers in the order of preference in

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SUMMARY OF THE INVENTION

The present invention solves the problem of preventing a called party from
5 missing calls without having to know in advance the number at which they will be
by providing a method and apparatus for redirecting a call from a data processing
system to another address. In a preferred embodiment, a notice of an incoming
call received from a server at a data processing system. This notice may include
caller identification information as well. The user of the data processing system is
10 prompted for an address to which the user wishes the call to be redirected. The
user then identifies and sends to the server a new address to which the incoming
call is to be redirected.

In another aspect of the present invention, an SIP server receives a notice
of a call and forwards the notice to a SIP user agent. The SIP proxy server then
15 identifies the address to which the called party wishes the call sent from a
database of preferred locations. The called party has previously registered their
preferred location to this database. The SIP user agent then sends a message to
the called party that they have an incoming call. The called party then identifies a
phone number or IP address to which the called party wishes the call to be
20 redirected. Thus, the called party can have their calls originally directed to their
handheld personal digital assistant or other data processing device. Thus, when a
call is received, the called party can determine at that time how to dispose of the
call.

Other aspects and features of the present invention will become apparent
25 to those ordinarily skilled in the art upon review of the following description of
specific embodiments of the invention in conjunction with the accompanying
figures.

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BRIEF DESCRIPTION OF THE DRAWINGS

5 The novel features believed characteristic of the invention are set forth in the appended claims. The invention itself, however, as well as a preferred mode of use, further objectives and advantages thereof, will best be understood by reference to the following detailed description of an illustrative embodiment when read in conjunction with the accompanying drawings, wherein:

10 **Figure 1** depicts a block diagram illustrating a communications network in which the present invention may be implemented;

Figure 2 depicts a block diagram of a data processing system which may be implemented as a server in accordance with the present invention;

15 **Figure 3** depicts a block diagram of a portable device such as a personal digital assistant (PDA) in which the present invention may be implemented;

Figure 4 depicts a block diagram of a data processing system in which the present invention may be implemented;

Figure 5 depicts a message flow chart illustrating the processes of redirecting a call in real time from according to the present invention;

20 **Figures 6A-6E** illustrate examples of sample HTML or web pages displayed to a user of a portable computing device;

Figure 7 depicts a flowchart illustrating the methods executed on a portable computing device in accordance with a preferred embodiment of the present invention;

25 **Figure 8** depicts a flowchart illustrating the processes of redirecting a call which are implemented on a server within the communications network in accordance with the present invention;

Figure 9 depicts a flowchart illustrating a method of converting HTML to SIP as performed by a SIP User Agent in accordance with the present invention;
30 and

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Figure 10 depicts a flowchart illustrating a method of converting an SIP signal into an HTML message in accordance with the present invention.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

5

With-reference now to the figures, and in particular with reference to **Figure 1**, a system diagram illustrating a plurality of interconnected heterogeneous networks in which a the present invention may be implemented is depicted. As illustrated, an Internet Protocol (IP) network **102**, a Local Area Network (LAN) / Wide Area Network (WAN) **104**, the Public Switched Telephone Network (PSTN) **109**, a cellular wireless network **112**, and a satellite communication network **116** make up the plurality of heterogeneous networks serviced by the personal mobility system of the present invention.

IP network **102** may be the publicly available IP network, a private IP network, or a combination of public and private IP networks. In any case, IP network **102** operates according to the Internet Protocol and routes packets among its many switches and through its many transmission paths. IP networks are generally known in the art to be expandable, fairly easy to use and heavily supported. Coupled to IP network **102** is a Domain Name Server (DNS) **108** to which queries may be sent, such queries each requesting an IP address based upon a Uniform Resource Locator (URL). IP network **102** supports 32 bit IP addresses as well as 128 bit IP addresses, which are currently in the planning stage.

LAN/WAN **104** couples to IP network **102** via a proxy server **106** (or another connection). LAN/WAN **104** may operate according to various communication protocols, such as the Internet Protocol, the Asynchronous Transfer Mode (ATM) protocol, or other known packet switched protocols. Proxy server **106** serves to route data between IP network **102** and LAN/WAN **104**. A firewall that precludes unwanted communications from entering LAN/WAN **104** may also be located at the location of proxy server **106**.

Computer **120** couples to LAN/WAN **104** and supports communications with LAN/WAN **104**. Computer **120** may employ the LAN/WAN and proxy

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server **106** to communicate with other devices across IP network **102**. Such communications are generally known in the art and will not be further described herein except to expand upon the teachings of the present invention. As is also shown, phone **122** couples to computer **120** and may be employed to initiate IP
5 Telephony communications with another phone or voice terminal using IP Telephony. In such an IP telephony system, a gatekeeper **152** is deployed by a service provider to manage IP telephony for its users. An IP phone **154** connected to IP network **102** (or other phone, e.g., phone **124**) may communicate with phone **122** using IP telephony.

10 PSTN **109** is a circuit switched network that is primarily employed for voice communications, such as those enabled by a standard phone **124**. However, PSTN **109** also supports the transmission of data. Data transmissions may be supported to a tone based terminal, such as a FAX machine **125**, to a tone based modem contained in computer **126**, or to another device that couples to PSTN **109**
15 via a digital connection, such as an Integrated Services Digital Network (ISDN) line, an Asynchronous Digital Subscriber Line (ADSL), or another digital connection to a terminal that supports such a connection. As illustrated, a voice terminal, such as phone **128**, may couple to PSTN **109** via computer **126** rather than being supported directly by PSTN **109**, as is the case with phone **124**. Thus,
20 computer **126** may support IP telephony with voice terminal **128**, for example.

Cellular network **112** supports wireless communications with terminals operating in its service area (which may cover a city, county, state, country, etc.). As is known, cellular network **112** includes a plurality of towers, e.g., **130**, that each service communications within a respective cell. Wireless terminals that
25 may operate in conjunction with cellular network **112** include wireless handsets **132** and wirelessly enabled laptop computers **134**, for example. Wireless handsets **132** could be, for example, personal digital assistants, wireless or cellular telephones, or two-way pagers. Cellular network **112** couples to IP network **102** via gateway **114**.

30 Wireless handsets **132** and wirelessly enabled laptop computers **134** may communicate with cellular network **112** using a wireless application protocol

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(WAP). WAP is an open, global specification that allows mobile users with wireless devices, such as, for example, mobile phones, pagers, two-way radios, smartphones, communicators, personal digital assistants, and portable laptop computers, to easily access and interact with information and services almost
5 instantly. WAP is a communications protocol and application environment and can be built on any operating system including, for example, Palm OS, EPOC, Windows CE, FLEXOS, OS/9, and JavaOS. WAP provides interoperability even between different device families.

WAP is the wireless equivalent of Hypertext Transfer Protocol (HTTP)
10 and Hypertext Markup Language (HTML). The HTTP-like component defines the communication protocol between the handheld device and a server or gateway. This component addresses characteristics that are unique to wireless devices, such as data rate and round-trip response time. The HTML-like component, Wireless Markup Language (WML), defines new markup and scripting languages for
15 displaying information to and interacting with the user. This component is highly focused on the limited display size and limited input devices available on small, handheld devices. For example, a typical cell phone may have only a 4x10-character display with 16-gray levels and only a numeric keypad plus up/down volume keys.

20 Cellular network **112** operates according to an operating standard, which may be the Advanced Mobile Phone System (AMPS) standard, the Code Division Multiple Access (CDMA) standard, the Time Division Multiple Access (TDMA) standard, or the Global System for Mobile Communications or Groupe Speciale Mobile (GSM), for example. Independent of the standard(s) supported by cellular
25 network **112**, cellular network **112** supports voice and data communications with terminal units, e.g., **132** and **134**.

Satellite network **116** includes at least one satellite dish **136** that operates in conjunction with a satellite **138** to provide satellite communications with a plurality of terminals, e.g., laptop computer **142** and satellite handset **140**.
30 Satellite handset **140** could also be a two-way pager. Satellite network **116** may be serviced by one or more geosynchronous orbiting satellites, a plurality of

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medium earth orbit satellites, or a plurality of low earth orbit satellites. In any case, satellite network 116 services voice and data communications and couples to IP network 102 via gateway 118.

Wireless Proxy 160 is coupled to IP network 102 and is coupled to a plurality of towers, e.g., 162, which each provide wireless communications with wireless devices such as wireless device 164. Wireless Proxy 160 provides access to IP network 102 to wireless device 164, such as personal digital assistants (PDAs), that may require proprietary or other special protocols in order to communicate with IP network 102. For example, wireless proxy server 160 may be a 3Com server utilizing 3Com protocols for communicating with a Palm VII, a handheld portable computing device available from 3Com Corporation in Santa Clara, California.

In a preferred embodiment of the present invention, wireless proxy 160 is a 3Com proxy server supporting communications with Palm VII personal organizer and portable computing device 164 is a Palm VII personal organizer. In this embodiment, communications between wireless proxy server 160 and portable computing device 164 is facilitated by the use of Palm Query Applications (PQAs). A PQA is like a mini-Web site that resides on portable computing device 164. That is, a PQA is a special kind of record database. A typical PQA contains an HTML form or a list of hyperlinks that request additional information either locally — on personal computing device 164 — or remotely — on the Internet.

Much of the content on the Internet is designed to take advantage of the power of Pentium/RISC-class computers with large, high resolution color monitors and fast and cheap Internet access. In these circumstances, there is little reason to economize on the abundant connect time and large file size that make Web browsing such a rich, multimedia experience from a desktop or notebook computer.

However, this model is not the best model for a small, low-power computer like the Palm VII organizer with its tiny screen, battery powered operation, and relatively slow and expensive wireless connection to the Internet.

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Rather than duplicate the Web browsing model on a handheld computer, PQAs are developed that access targeted bits of Internet information — like clippings from a newspaper. Typically, a handheld computer user does not focus on following hyperlinks to the Internet (although this is available), but instead, they
5 compose a simple query in the PQA (for example a request for a stock quote) and then send that query over the air.

Also included in network **100** is a Session Initiation Protocol (SIP) proxy **170**. SIP proxy **170** is connected to IP network **102** and provides switching and routing for communication over IP network **102**. SIP proxy **170** also maintains a
10 static list of preferred locations to which a user wishes telephone calls or other communication types sent. When a request to initiate a communications session is received, SIP proxy **170** retrieves the static list of the called party and routes the call to the top address in the static list. If the communications session is not established with the top address in the static list, then SIP proxy **170** may attempt
15 to access the next address in the list and so on until the called party is reached or until the addresses in the static list are exhausted.

SIP is a textual based signaling protocol for creating, modifying and terminating sessions. These sessions can be multimedia conferences, Internet telephone calls and similar applications consisting of one or more media types
20 such as, for example, audio, video, or whiteboard. SIP invitations are used to create sessions and carry session descriptions, which allow participants to agree on a set of compatible media types. SIP requests can be sent either over TCP or UDP.

SIP User Agent **172** is also connected with IP Network **102**. SIP User
25 Agent **172** translates between SIP communications and Hypertext Transfer Protocol (HTTP) and other extensible markup language (XML) based protocols such as Voice XML (VOXML) and Wireless Application Protocol (WAP).

Figure 1 is intended as an example and not as an architectural limitation for the processes of the present invention.

30 In a preferred embodiment, a user registers an address to which they wish their voice calls or other communications to be sent. The address can be an IP

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address, a PSTN address or other type of address for locating an electronic device such as a data processing system or telephone. As an example, consider a user of portable device **164** wishing to have all of their calls routed to the portable device. The user of portable device **164** sends an HTML registration request to Wireless
5 Proxy **160**, which then forwards the HTML registration request to SIP User Agent **172**. SIP User Agent **172** translates the HTML registration request from HTML into an SIP registration statement and sends the SIP registration statement to SIP Proxy **170**. SIP Proxy **170** then updates the user's static list and inserts the newly received address into the top of the static list as the first address to attempt
10 to establish a connection with if a request to initiate communications with that user is received. If the user does not have a static list, SIP Proxy **170** can create one and then place the received address in the newly created static list. The registration request does not have to initiate from a portable wireless device such as portable device **164** but may initiate with a LAN based data processing system
15 such as client **120** or with some other type of wireless device.

When SIP Proxy **170** receives a request to initiate communications, such as a voice telephone call, with a user, SIP Proxy **170** retrieves the static list for the called party and determines the first address to contact. SIP Proxy **170** then sends an SIP Invite message to SIP User Agent **172**. SIP User Agent **172** translates the
20 SIP Invite message into an HTML message and sends the HTML message to Wireless Proxy **160** which then forwards the HTML message to portable device **164**.

Once the HTML invite message is received at portable device **164**, the user may then determine how to dispose of the call. If portable device **164** is a
25 telephone (or supports voice communications), the user may choose to take the call if it is someone to which the user wishes to speak. The user may also redirect the call elsewhere to a nearby PSTN address, to a voice mailbox, or to an IP address. Portable device **164** may even suggest options as to disposal of the incoming communication. For example, if the incoming communication is video,
30 rather than a voice call, portable device **164** may suggest routing the

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communication to client **120** on LAN/WAN **104**, which may be the nearest device capable of receiving such communication.

If the user decides to redirect the call to some other device, then redirection information in HTML format indicating the address of the new device is sent from portable device **164** to wireless proxy **160**. Wireless proxy **160** then forwards the HTML redirect information to SIP User Agent **172**, which converts the HTML redirect information into an SIP redirect and send the SIP redirect to SIP proxy **170**. SIP User Agent **172** also sends an HTML notification to portable device **164** via wireless proxy **160** indicating that the communication is being redirected. SIP proxy **170** then redirects the communication to the new address and takes down the connection with portable device **164**. If SIP proxy **170** is unable to make a connection with the new address (e.g., incorrect address, device off-line, etc.), then the communication must be terminated or the next address in the user's static list contacted. This is because the connection to portable device **164** has already been taken down thus preventing an attempt to request a new address to which to redirect the communication.

As an example of uses of such redirection methods and systems according to the present invention, consider a family consisting of a husband, wife, and children. Perhaps the husband has registered his wireless telephone as the device to which incoming calls to his home telephone should be delivered. If notification of an incoming call is received by the husband on his wireless telephone, he can look at the display to see who the caller is. If the husband determines that the call is for his wife, he can redirect the call to her work phone or to her wireless phone. If the call is for one of the children, the call can be redirected to the home phone. However, if the call is for the husband, he can choose to take the call on his wireless telephone. Alternatively, if the call is for the husband, but he does not wish to speak with the caller, the call can be forwarded to his voice mailbox.

As another example of the use of redirection methods and systems according to the present invention, consider a person travelling on business and away from the office. The business person can register a personal digital assistant (PDA) as the device to which incoming calls are directed. Thus, wherever the

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business person is, no calls will be missed because of being away from the office. If notification of a call is received, the business person can have the call redirected to a phone near where the business person is presently located. Such phone could be the room phone of the hotel where the person is currently staying or it could be the office phone of the person with which the business person is meeting.

Referring now to **Figure 2**, a block diagram of a data processing system which may be implemented as a server, such as server **106, 108, 160, or 170** in **Figure 1**, is depicted in accordance with the present invention. Data processing system **200** may be a symmetric multiprocessor (SMP) system including a plurality of processors **202** and **204** connected to system bus **206**. Alternatively, a single processor system may be employed. Also connected to system bus **206** is memory controller/cache **208**, which provides an interface to local memory **209**. I/O bus bridge **210** is connected to system bus **206** and provides an interface to I/O bus **212**. Memory controller/cache **208** and I/O bus bridge **210** may be integrated as depicted.

Peripheral component interconnect (PCI) bus bridge **214** connected to I/O bus **212** provides an interface to PCI local bus **216**. A number of modems **218-220** may be connected to PCI bus **216**. Typical PCI bus implementations will support four PCI expansion slots or add-in connectors. Communications links to network computers **120, 126, 134, and 142** in **Figure 1** may be provided through modem **218** and network adapter **220** connected to PCI local bus **216** through add-in boards.

Additional PCI bus bridges **222** and **224** provide interfaces for additional PCI buses **226** and **228**, from which additional modems or network adapters may be supported. In this manner, server **200** allows connections to multiple network computers. A memory mapped graphics adapter **230** and hard disk **232** may also be connected to I/O bus **212** as depicted, either directly or indirectly.

Those of ordinary skill in the art will appreciate that the hardware depicted in **Figure 2** may vary. For example, other peripheral devices, such as optical disk drives and the like, also may be used in addition to or in place of the hardware

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depicted. The depicted example is not meant to imply architectural limitations with respect to the present invention.

The data processing system depicted in **Figure 2** may be, for example, an IBM RS/6000, a product of International Business Machines Corporation in Armonk, New York, running the Advanced Interactive Executive (AIX) operating system.

Turning now to **Figure 3**, a block diagram of a personal digital assistant (PDA), such as portable device **164** in **Figure 1**, is illustrated in which the present invention may be implemented. The PDA is typically a palmtop computer, such as, for example, a Palm VII, a product of 3Com Corporation in Santa Clara, California, connected to a wireless communications network and which may provide voice, fax, e-mail, and/or other types of communication. The PDA **300** may have one or more processors **302**, such as a microprocessor, a main memory **304**, a disk memory **306**, and an I/O **308** such as a mouse, keyboard, or pen-type input, and a screen or monitor. The PDA **300** may also have a wireless transceiver **310** connected to an antenna **312** configured to transmit and receive wireless communications. The processor **302**, memories **304**, **306**, I/O **308**, and transceiver are connected to a bus **304**. The bus transfers data, i.e., instructions and information, between each of the devices connected to it. The I/O **308** may permit faxes, e-mail, or optical images to be displayed on a monitor or printed out by a printer. The I/O **308** may be connected to a microphone **316** and a speaker **318** so that voice or sound information may be sent and received.

With reference now to **Figure 4**, a block diagram of a data processing system in which the present invention may be implemented is illustrated. Data processing system **400** is an example of a client computer such as client **120**, **126**, **134**, or **142** in **Figure 1**. Data processing system **400** employs a peripheral component interconnect (PCI) local bus architecture. Although the depicted example employs a PCI bus, other bus architectures, such as Micro Channel and ISA, may be used. Processor **402** and main memory **404** are connected to PCI local bus **406** through PCI bridge **408**. PCI bridge **408** may also include an integrated memory controller and cache memory for processor **402**. Additional

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connections to PCI local bus 406 may be made through direct component interconnection or through add-in boards. In the depicted example, SCSI host bus adapter 412 and expansion bus interface 414 are connected to PCI local bus 406 by direct component connection. In contrast, audio adapter 416, graphics adapter

5 418, and audio/video adapter (A/V) 419 are connected to PCI local bus 406 by add-in boards inserted into expansion slots. Expansion bus interface 414 provides a connection for a keyboard and mouse adapter 420, modem 422, and additional memory 424. In the depicted example, SCSI host bus adapter 412 provides a connection for hard disk drive 426, tape drive 428, CD-ROM drive 430, and

10 digital video disc read only memory drive (DVD-ROM) 432. Typical PCI local bus implementations will support three or four PCI expansion slots or add-in connectors.

An operating system runs on processor 402 and is used to coordinate and provide control of various components within data processing system 400 in

15 **Figure 4.** The operating system may be a commercially available operating system, such as OS/2, which is available from International Business Machines Corporation. "OS/2" is a trademark of International Business Machines Corporation. An object oriented programming system, such as Java, may run in conjunction with the operating system, providing calls to the operating system

20 from Java programs or applications executing on data processing system 400. Instructions for the operating system, the object-oriented operating system, and applications or programs are located on a storage device, such as hard disk drive 426, and may be loaded into main memory 404 for execution by processor 402.

Those of ordinary skill in the art will appreciate that the hardware in

25 **Figure 4** may vary depending on the implementation. For example, other peripheral devices, such as optical disk drives and the like, may be used in addition to or in place of the hardware depicted in **Figure 4**. The depicted example is not meant to imply architectural limitations with respect to the present invention. For example, the processes of the present invention may be applied to

30 multiprocessor data processing systems.

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Turning now to **Figure 5**, a message flow chart is depicted illustrating the processes of redirecting a call in real time from a wireless device according to the present invention. In this example, a redirect from a wireless device utilizing a wireless proxy is illustrated. A similar flow would result if the redirect were being sent from a LAN/WAN connected device except for the omission of wireless proxy 508.

A user of a portable computing device such as a PDA or laptop computer initiates a registration by entering a proxy ID, a proxy port, and an address, such as, for example, a PSTN number or an IP address, and sending this information to wireless proxy 508 (step M01). **Figures 6A** illustrates an example of a sample HTML screen displayed to a user to initiate registration. The user may pull up the registration page by selecting the word "register" 601 on the page. **Figure 6B** illustrates an example of a sample HTML screen allowing a user to register by providing prompts to enter an user name 602, a proxy identification 604, and a proxy port 606.

Wireless Proxy 508 receives the HTML registration web page and forwards it to SIP user agent 506 (step M02). User agent 506 receives the HTML page and sends a SIP registration to SIP proxy 502 (step M03). SIP proxy 502 updates its destination list for the user with the address for portable computing device 510. Next, an SIP invite signal is sent to user agent 506 (step M04).

User agent 506 then sends an SIP 100-trying signal back to SIP proxy 502 (step M05). When a call for the user at portable computing device 510 is received by user agent 506, user agent 506 sends an HTML page to 3Com proxy 508 to indicate an incoming call for the user at portable computing device 510 (step M06). 3Com proxy 508 forwards the HTML page to portable computing device 510 (step M07). The HTML page is displayed the user of portable computing device 510 to indicate that the user has an incoming call. An example of such an HTML page is illustrated in **Figure 6C**. A hot button 608 is supplied which the user may select to redirect the incoming call. Other hot buttons 614, 616, and 618 allow the user to place the call on hold, terminate the call without answering, or send the call to voice mail respectively. If redirection is chosen, the user of the

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portable computing device **510** then redirects the call to another destination by entering and sending a PSTN, IP, or other address as the new destination (step **M08**). **Figure 6D** illustrates an example of a sample HTML page in which the user may enter the new destination for the incoming phone call in destination box
5 **610** and then send the new destination by selecting the “submit” hot button **612**.

Wireless proxy **508** receives the HTML page containing the new destination and this page is forwarded to user agent **506** (step **M09**). User agent **506** sends a SIP 300 signal to SIP proxy **502** containing the new destination (step **M10**). User agent **506** also sends an HTML page to portable computing device
10 **510** via 3Com proxy **508** indicating that the call was redirected (step **M11**). A message is displayed to the user of portable computing device **510** indicating that the call was redirected. An example of such a HTML page is illustrated in **Figure 6E**. SIP proxy **502** receives the 300 signal and sends out an invite to the new destination (step **M12**).

15 If portable computing device **510** does not respond to the message indicating that the user has an incoming call (step **M07**), then a SIP 480 Temporarily not available signal is sent from user agent **506** back to SIP proxy server **502**. SIP proxy **502** can then decide how to process the call. For example, for calls to which the portable computing device does not respond, SIP proxy **502**
20 could forward the call to a predefined destination or take the call down.

Turning now to **Figure 7**, a flowchart illustrating the methods executed on a portable computing device in accordance with a preferred embodiment of the present invention is depicted. To start, a user of a data processing device registers the address of their data processing device that they wish their calls to be
25 delivered to (step **702**). Typically, when the data processing device is activated, it performs an SIP registration with a SIP registration server, effectively causing all future calls to route to this device as the first selection. On deactivation of the device, the shutdown processing unregisters with the SIP registration server thereby restoring the defaults on how the called party is to be reached (i.e., the
30 subscriber’s static reach list). Next, when a call is made to the user, a notification of the incoming call is received at their data processing device (step **704**).

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Included in the notification may be caller identification information such as PSTN or IP address from where the call originated. The user then identifies a new destination for the incoming call to be sent (step 706). For example, if the user has traveled to a hotel, the user may enter the phone number of the room at the hotel. As another example, if the user is near a pay phone, the user may enter the phone number of the pay phone. Once the user has identified a new destination for the incoming call to be redirected to, this new destination is sent back to a SIP proxy via a SIP User Agent (step 708). Once the SIP User Agent receives the redirect request, the user will receive a notice indicating the call is being redirected (step 710).

Turning now to **Figure 8**, a flowchart illustrating the processes of redirecting a call which are implemented on a server within the communications network is depicted in accordance with the present invention. To start, a server within the communications network receives a request for call initiation from a PSTN (step 802). The server accesses a database to which the called party has registered the current device to which they wish their calls directed (step 804). The current device is registered at the top of a static reach list of numbers to try in order to reach the called party. Once the current device is identified, a notice is sent to the called parties current location indicating that the party has an incoming call and requesting information about where to direct the call (step 806). Next, a determination is made as to whether the user has responded to the request (step 808). If the user does not respond after a given period of time, then the call is disposed of according to a predetermined procedure (step 810). For example, if the user does not respond to the request, then the server may redirect the call to the next address in the called party's static reach list of preferred locations or if there are no more preferred locations stored in a database, the server may end the call. If the user does respond to the request, then the call is redirected to the new location and a confirmation is sent to the user indicating such (step 812). The call may be redirected to a cell phone, to a nearby wire-line device, to the called party's voice mailbox, or the party initiating the call may be placed on temporary hold. If the party initiating the call is placed on hold, a standard greeting will be

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sent to the calling party to make them aware that the called party is attempting to find an appropriate method to receive the call or is on another call and to stay on the call because the called party will answer momentarily.

Turning now to **Figure 9**, a flowchart illustrating a method of converting HTML to SIP as performed by a SIP User Agent is depicted in accordance with the present invention. To start, a SIP User Agent receives an HTML message (step **902**). The SIP User Agent then parses the HTML message for class and content (step **904**). The SIP User Agent then analyzes the message class and content (step **906**) to create an SIP signal from the HTML message (step **908**). The newly formed SIP signal is then sent to an SIP Proxy (step **910**) and the process stops.

Turning now to **Figure 10**, a flowchart illustrating a method of converting an SIP signal into an HTML message is depicted in accordance with the present invention. First, the SIP User Agent receives an SIP signal from the SIP Proxy (step **1002**). The SIP signal is then parsed for message type (step **1004**) and the content, calling party, and called party are extracted from the SIP signal (step **1006**). Using the extracted information, the SIP User Agent generates an appropriate HTML page (step **1008**) and sends the HTML message to the called party (step **1010**) ending the process.

Although the present invention has been described primarily with reference to redirecting telephony communications. Other forms of media streams may be redirected as well. For example, a client such as client **120** or portable device **164**, that has previously performed an SIP registration, receives a notification of incoming data streams. The notification will include information about what types of data streams are included. This will be encoded into the notification at either SIP Proxy **170** or at User Agent **172**. The notice displayed to the user will inform the user of whether there are multiple types of data streams and what types of data streams are in the incoming communication. Once the notification is displayed to the user of the client, the client may then decide how to dispose of the incoming data streams. If the user selects one device, such as telephone **124** to send the data stream to, then the name or address of telephone

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124 will be sent back to SIP Proxy **170**, which will then redirect the call to telephone **124**. The user may select more than one device to send the data streams to as well. If the data stream consists of multiple data types, the user may instruct SIP Proxy **170** to send each data stream to a different type of device.

5 Furthermore, the user may instruct SIP Proxy **170** to send all of the data streams to several locations (forking) such that multiple parties may be connected (such as for a conference call) or to several locations, but have only the first to “pick up” or “answer” be connected. This last alternative might be useful if the user wished to redirect the data stream to another person, but was unsure of that person’s location
10 but did know of several possible locations of that person.

To help illustrate the present invention, consider the following example of a user’s device receiving multiple types of data streams at a single device. For example, a user might have registered their personal digital assistant as the device to which to have incoming data streams routed. The SIP Proxy **170** receives an
15 incoming data stream intended for this user and generates and routes a message to the user indicating the types of message streams and from what party. The types of message streams include audio, video (in MPEG format), text and a JPEG picture. The user of the personal digital assistant might decide to route the audio to speakers or to a telephone such as telephone **124**, route the video to a desktop
20 computer such as client **120** or to a television attached to a set top box, the text routed to a printer (perhaps connected to client **120**), and the JPEG picture routed to a second computer such as client **126** or to a device dedicated to generating and displaying still pictures. Thus, each of the data streams were directed to a device which was best able to utilize and present the information to the user.

25 To illustrate “forking”, consider a person receiving a data stream (perhaps a phone call, but not necessarily). The person after determining what the data stream is and/or who it is from, decides that other people within an organization should participate as well. The person would then enter several names or addresses for the SIP Proxy **170** to use to redirect the data stream. This list of
30 several names could include the user originally receiving the notification. In that way several people could participate, such as on a conference call.

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communications with the SIP proxy does not need to be facilitated with a translating user agent. In this case, the SIP proxy becomes the agent.

Furthermore, the SIP proxy does not have to be a proxy. Any device or software which can perform the functionality of the SIP proxy will suffice, wherein the
5 primary functions performed by the SIP proxy are address lookup (determining the IP or other type address based on information received, i.e., converting john@nortel.com into an IP address) and redirecting calls.

It should also be noted that although the present invention has been described primarily with reference to voice calls, it applies to other types of
10 communication as well, including, but not limited to for example, video conferencing or text messages. For example, a portable computing device could receive a notification of an incoming video call or video message and a user could redirect that incoming video message to a laptop or desktop computer, a television, or other video display terminal such that the video could be viewed by
15 the called party. The device receiving the request could even suggest alternative destinations to redirect the call to based on the type of call (e.g. video, voice, text) the request corresponds to.

It is important to note that while the present invention has been described in the context of a fully functioning data processing system, those of ordinary skill
20 in the art will appreciate that the processes of the present invention are capable of being distributed in the form of a computer readable medium of instructions and a variety of forms and that the present invention applies equally regardless of the particular type of signal bearing media actually used to carry out the distribution. Examples of computer readable media include recordable-type media such a
25 floppy disc, a hard disk drive, a RAM, and CD-ROMs and transmission-type media such as digital and analog communications links.

The description of the present invention has been presented for purposes of illustration and description, but is not intended to be exhaustive or limited to the invention in the form disclosed. Many modifications and variations will be
30 apparent to those of ordinary skill in the art. For example, the present invention is not limited to SIP and Palm VII's. Other types of call initiation protocols other

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than SIP may be utilized. Furthermore, other types of portable devices other than
Palm VII's may be utilized including, but not limited to, portable computers,
laptop computers, other types of personal digital assistants (PDAs), and other
handheld data processing systems. The embodiment was chosen and described in
5 order to best explain the principles of the invention, the practical application, and
to enable others of ordinary skill in the art to understand the invention for various
embodiments with various modifications as are suited to the particular use
contemplated.

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1

2 **CLAIMS:**

3 What is claimed is:

1 1. A method of redirecting a call from a data processing system to another
2 address, comprising the steps of:
3 receiving at a data processing system a registration notice of an incoming call
4 from a server; and
5 responsive to determination of a new address; transmitting a new address to
6 which the incoming call is to be redirected.

1 2. The method as recited in claim 1, wherein said data processing system is a
2 personal digital assistant.

1 3. The method as recited in claim 1, wherein said data processing system is a
2 laptop computer.

1 4. The method as recited in claim 1, wherein said data processing system is a
2 portable computing device.

1 5. The method as recited in claim 1, wherein said data processing system is a
2 wireless device.

1 6. The method as recited in claim 1, wherein the registration notice is a session
2 initiation protocol registration notice.

1 7. The method as recited in claim 1, wherein the incoming call comprises video
2 and the new address corresponds to a video display terminal.

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- 1 25. A method for redirecting calls to a data processing system to a second
2 location; comprising the steps of:
3 sending a registration notification to a called party's preferred location; and
4 responsive to receipt of a new address from the called party, redirecting the
5 incoming call to the new address.
- 1 26. The method as recited in claim 25, further comprising:
2 prior to said sending step, receiving a request to initiate a call with a called
3 party; and
4 determining a preferred location of the called party.
- 1 27. The method as recited in claim 25, wherein the registration notification is a
2 session initiation protocol registration.
- 1 28. The method as recited in claim 25, wherein the preferred location is a personal
2 digital assistant.
- 1 29. The method as recited in claim 28, wherein the personal digital assistant is a
2 Palm VII utilizing a Palm Query Application to provide a user interface.
- 1 30. The method as recited in claim 25, wherein the new address corresponds to a
2 voice mailbox.
- 1 31. The method as recited in claim 25, wherein the new address corresponds to
2 placing the incoming call on hold.
- 1 32. The method as recited in claim 25, wherein communication with the preferred
2 device is provided utilizing a wireless application protocol.

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- 1 33. The method as recited in claim 25, wherein the new address corresponds to a
- 2 wire-line device.

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- 1 43. A system for redirecting calls to a data processing system to a second
2 location; comprising:
3 means for sending a registration notification to a called party's preferred
4 location; and
5 means, responsive to receipt of a new address from the called party, for
6 redirecting the incoming call to the new address.
- 1 44. The system as recited in claim 43, further comprising:
2 prior to said sending step, means for receiving a request to initiate a call with a
3 called party; and
4 means for determining a preferred location of the called party.
- 1 45. The system as recited in claim 43, wherein the registration notification is a
2 session initiation protocol registration.
- 1 46. The system as recited in claim 43, wherein the preferred location is a personal
2 digital assistant.
- 1 47. The system as recited in claim 46, wherein the personal digital assistant is a
2 Palm VII utilizing a Palm Query Application to provide a user interface.
- 1 48. The system as recited in claim 43, wherein the new address corresponds to a
2 voice mailbox.
- 1 49. The system as recited in claim 43, wherein the new address corresponds to
2 placing the incoming call on hold.
- 1 50. The system as recited in claim 43, wherein communication with the preferred
2 device is provided utilizing a wireless application protocol.

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- 1 51. The system as recited in claim 43, wherein the new address corresponds to a
- 2 wire-line device.

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- 1 52. A method in a communications system for processing a call, the method
2 comprising:
3 receiving at a mobile data processing system a call for a user;
4 sending a first request to setup the call to the mobile data processing system
5 associated with a user, wherein the mobile data processing system has a wireless
6 communications capability;
7 receiving a response to the request, wherein the response includes an address
8 for the call; and
9 sending a second request to setup the call to the user using the address.
- 1 53. The method as recited in claim 52, wherein the data processing system is a
2 personal digital assistant.
- 1 54. The method as recited in claim 52, wherein the personal digital assistant is a
2 Palm VII.
- 1 55. The method as recited in claim 52, wherein the request and the response are
2 session initiation protocol messages.

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- 1 56. A method for processing a call at a data processing system the method
2 comprising:
3 receiving a request to establish a call;
4 presenting caller information at the data processing system; and
5 responsive to an identification of an address for the call, returning a response
6 including the address.

- 1 57. The method as recited in claim 56, wherein the step of presenting caller
2 information comprises displaying the caller information.

- 1 58. The method as recited in claim 56, wherein the step of presenting caller
2 information comprises presenting the caller information audibly.

- 1 59. The method as recited in claim 56, wherein the request and the response are
2 session initiation protocol messages.

- 1 60. The method as recited in claim 56, wherein the data processing system is a
2 wireless device.

- 1 61. The method as recited in claim 56, wherein the step of presenting caller
2 information comprises a vibrating alert.

- 1 62. The method as recited in claim 56, wherein the data processing system is a
2 two-way pager.

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63. A communications network for redirecting communications; comprising:
a proxy server for performing address lookup and directing calls;
a user agent functionally connected to the aid proxy server to provide protocol
translation between a protocol recognized by the proxy server and a protocol
5 recognized by a terminal unit and to provide a communication link between the proxy
server and the terminal unit; wherein
the proxy server, responsive to an indication from the terminal unit to redirect
a call, redirects calls to a new location.
64. The network as recited in claim 63, wherein the proxy server is a session
10 initiation protocol proxy server and the user agent is a session initiation protocol user
agent for translating between session initiation protocol and a second protocol.
65. The network as recited in claim 64, wherein the second protocol is HTML.

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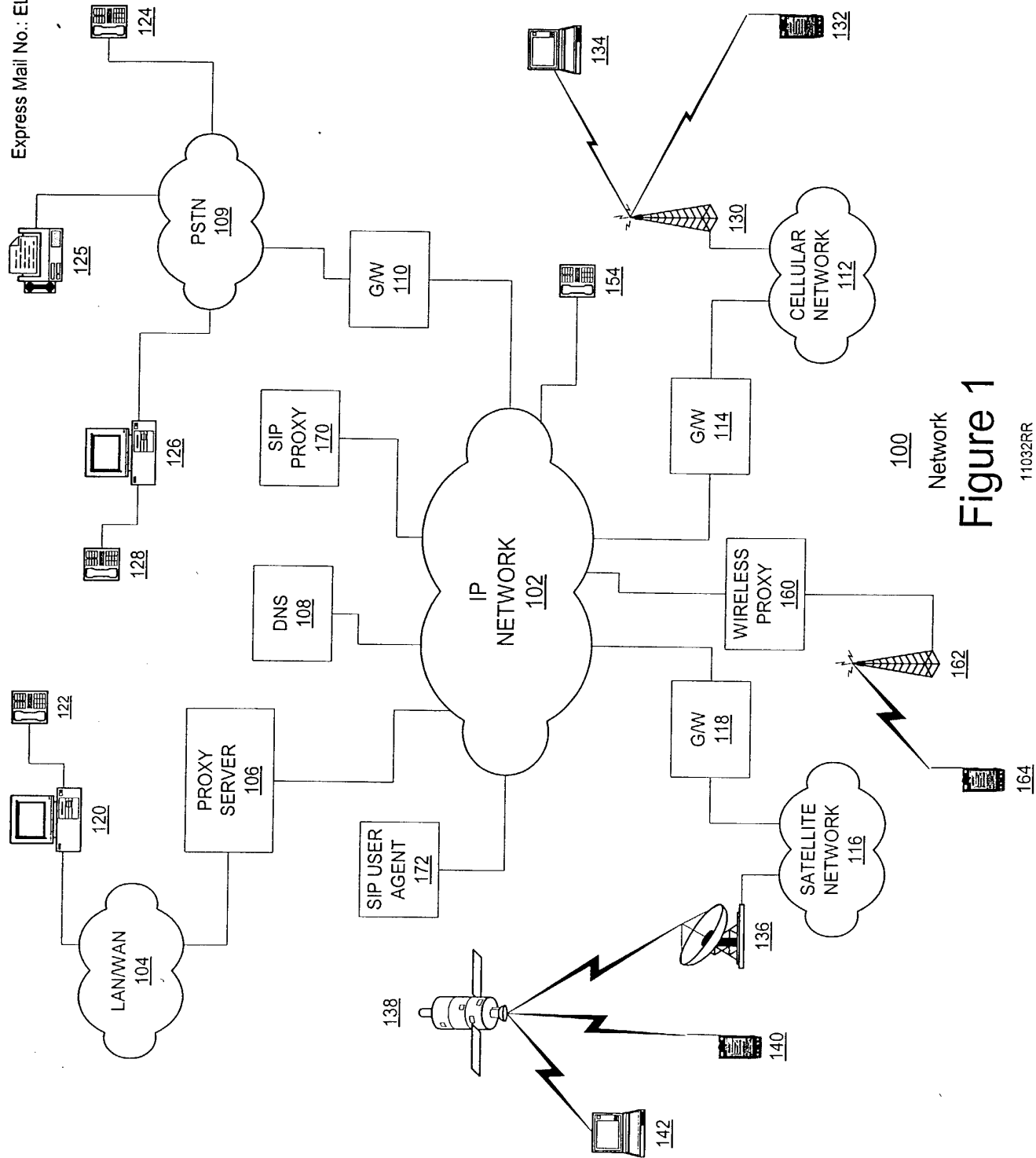
66. A method for initiating calls, comprising the steps of:
receiving registration notice of an incoming call, wherein said registration
notice is formatted in a first protocol;
translating said registration notice from the first protocol into a second
5 protocol; and
transmitting a modified registration notice to a terminating device; wherein
the modified registration notice is formatted in the second protocol.
67. The method as recited in claim 66, further comprising:
receiving a location data with which to redirect the incoming call from the
10 terminating device; wherein the location data is formatted in the second protocol; and
translating the location data to a second location data; and
transmitting the second location data, wherein the second location data is
formatted in the second protocol.
68. The method as recited in claim 66, wherein the first protocol is a session
15 initiation protocol.
69. The method as recited in claim 66, wherein the second protocol is a hypertext
markup language.

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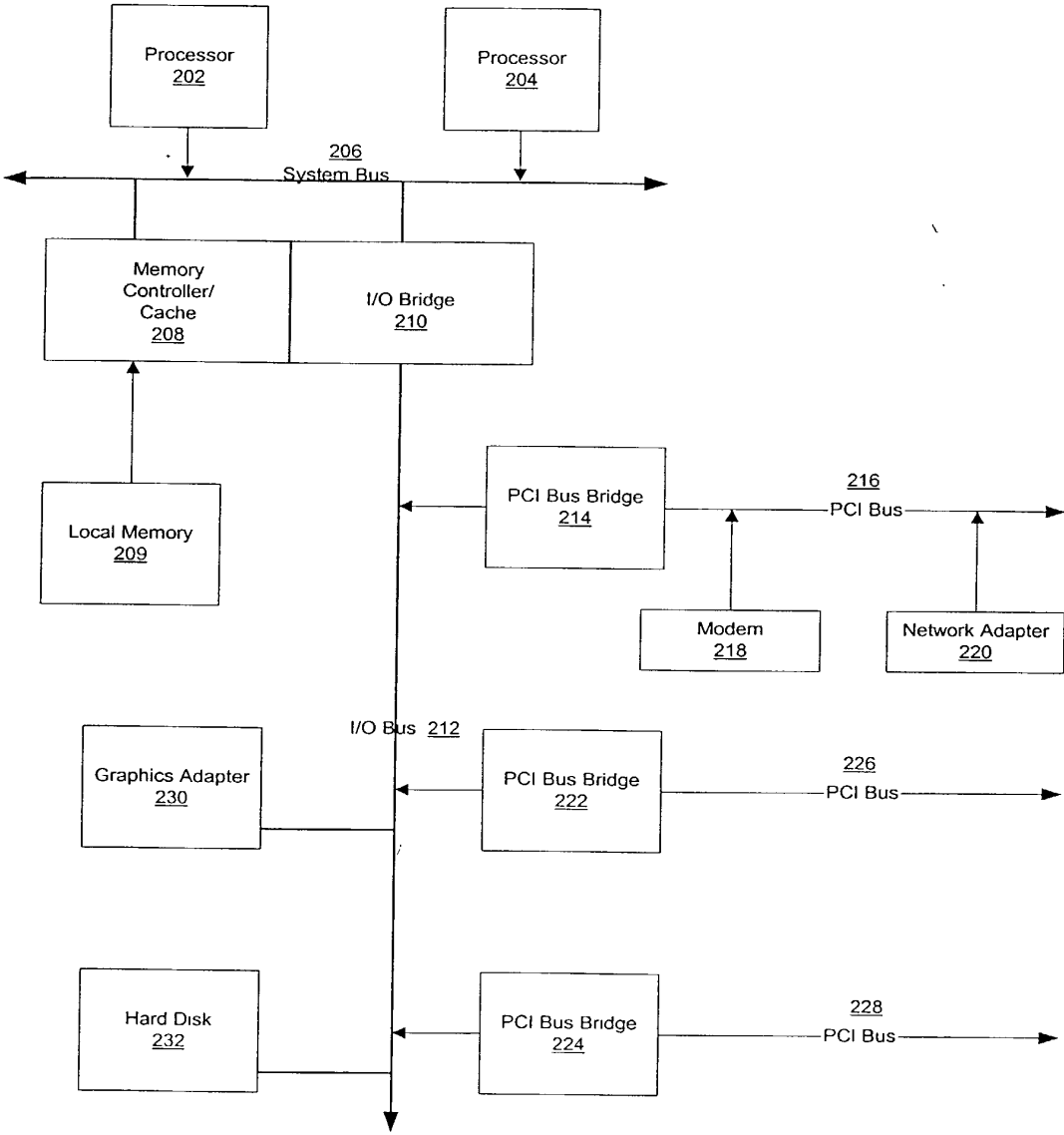
ABSTRACT OF THE DISCLOSURE

PORTABLE CALL MANAGEMENT SYSTEM

5 A method of redirecting a call from a data processing system to another
address. In a preferred embodiment, a notice of an incoming call received from a
server at a data processing system. This notice may include caller identification
information as well. The user of the data processing system is prompted for an
address to which the user wishes the call to be redirected. The user then identifies
10 and sends to the server a new address to which the incoming call is to be redirected.
The server then redirects the call to the new address.

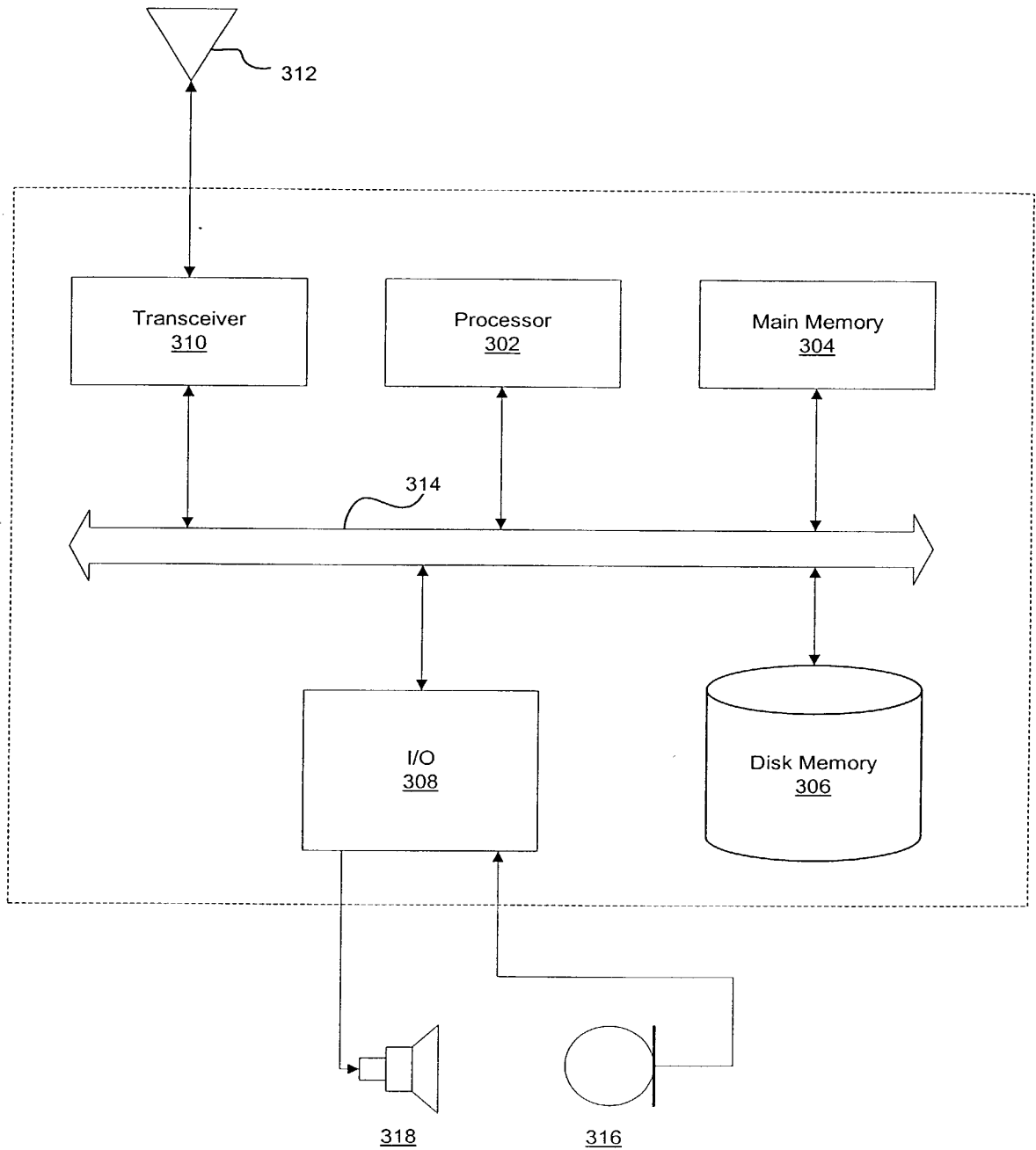


100 Network
Figure 1
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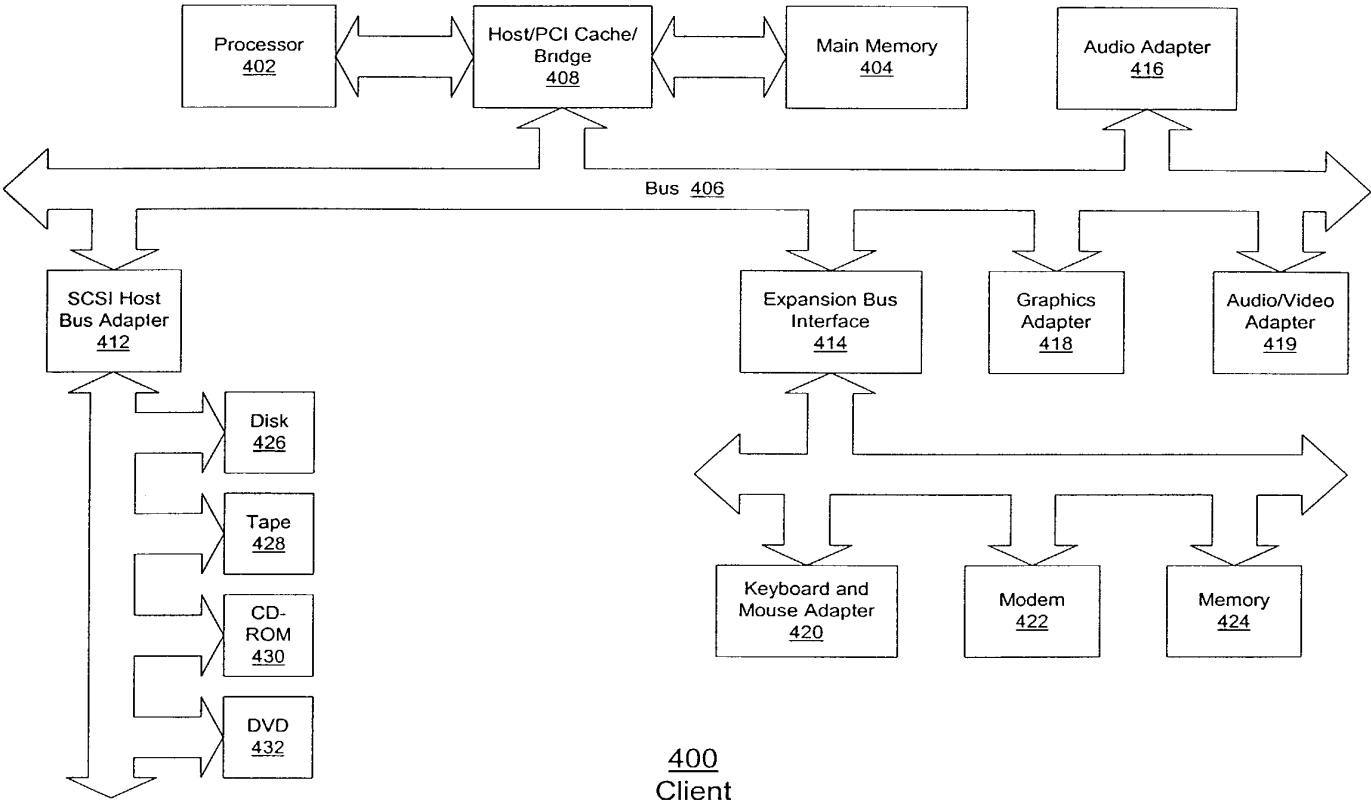


200
Server
Figure 2
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300
Figure 3
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400
Client
Figure 4
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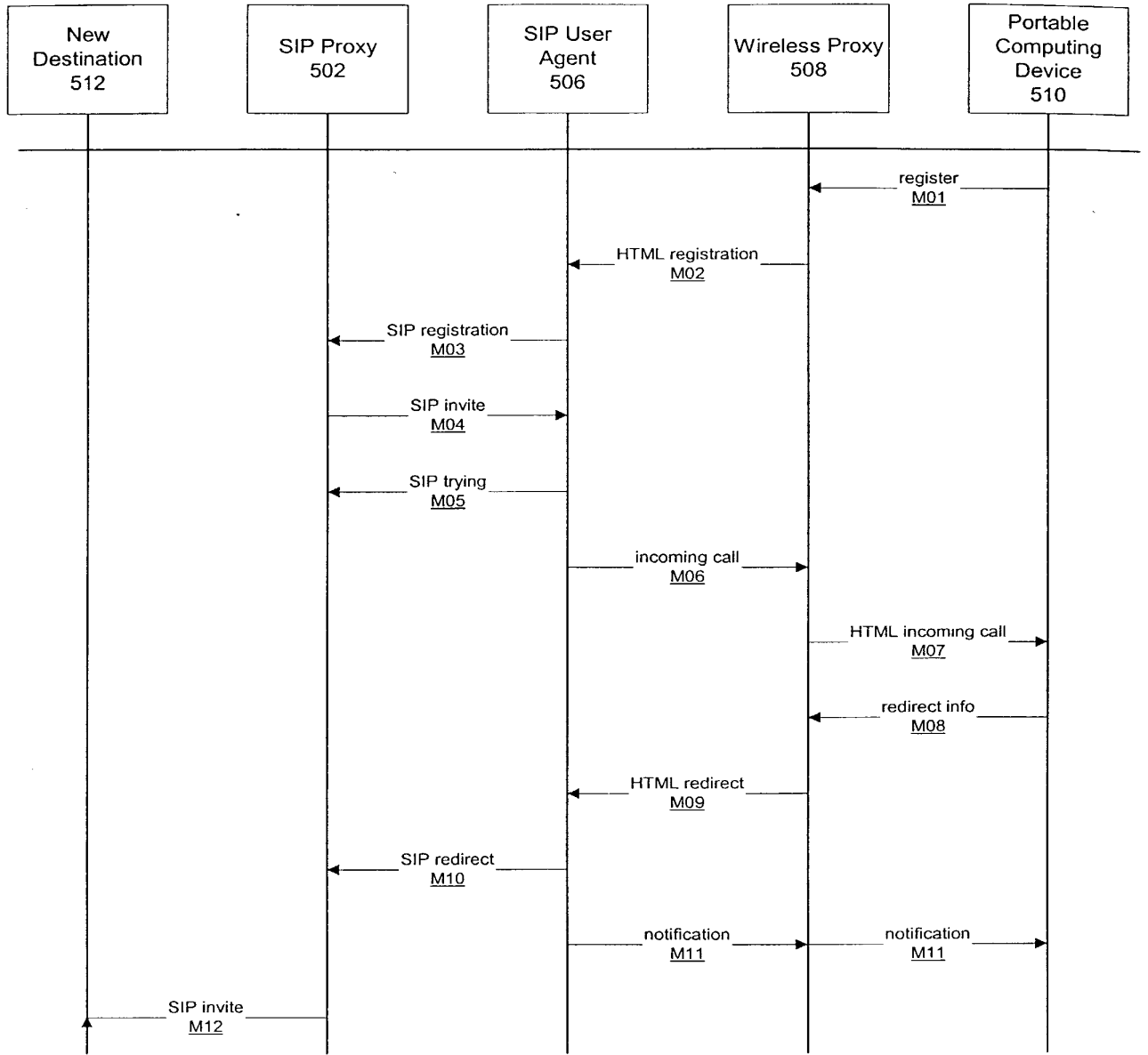


Figure 5

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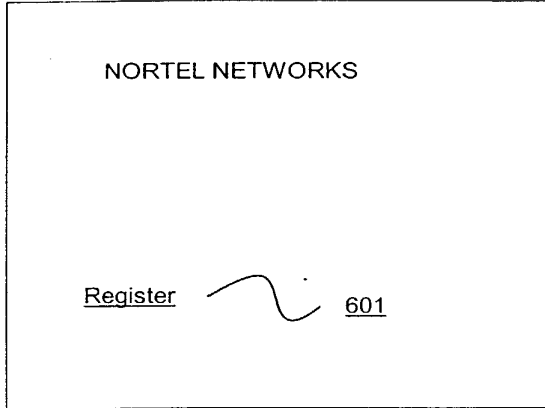


Figure 6A

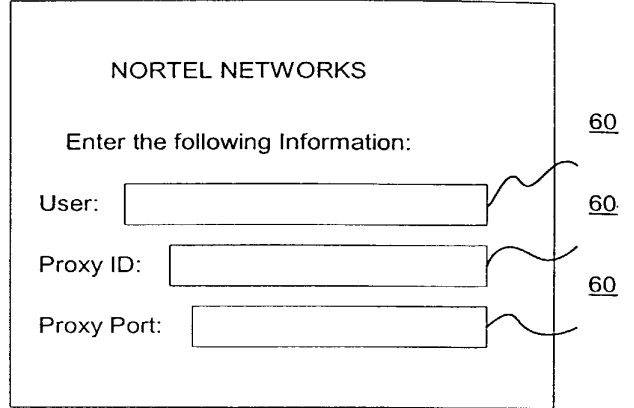


Figure 6B

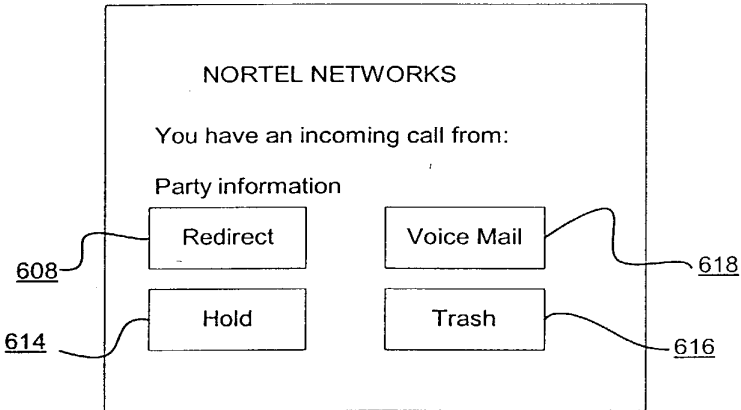


Figure 6C

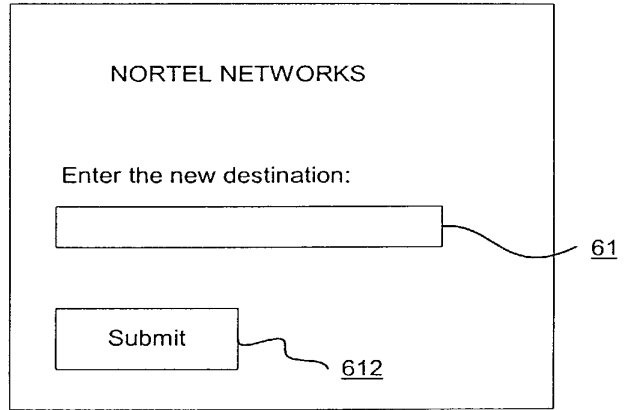


Figure 6D

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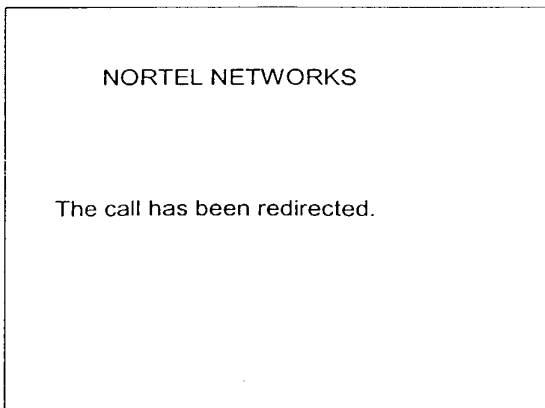


Figure 6E

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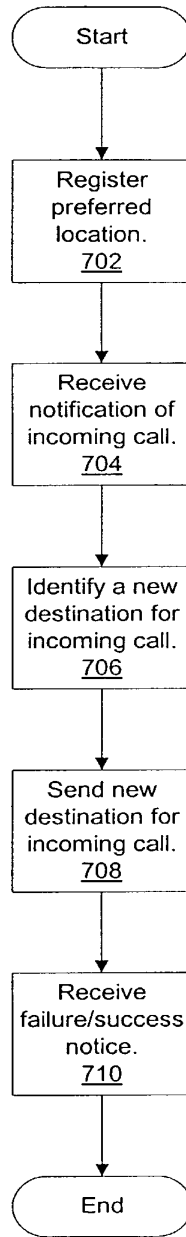


Figure 7
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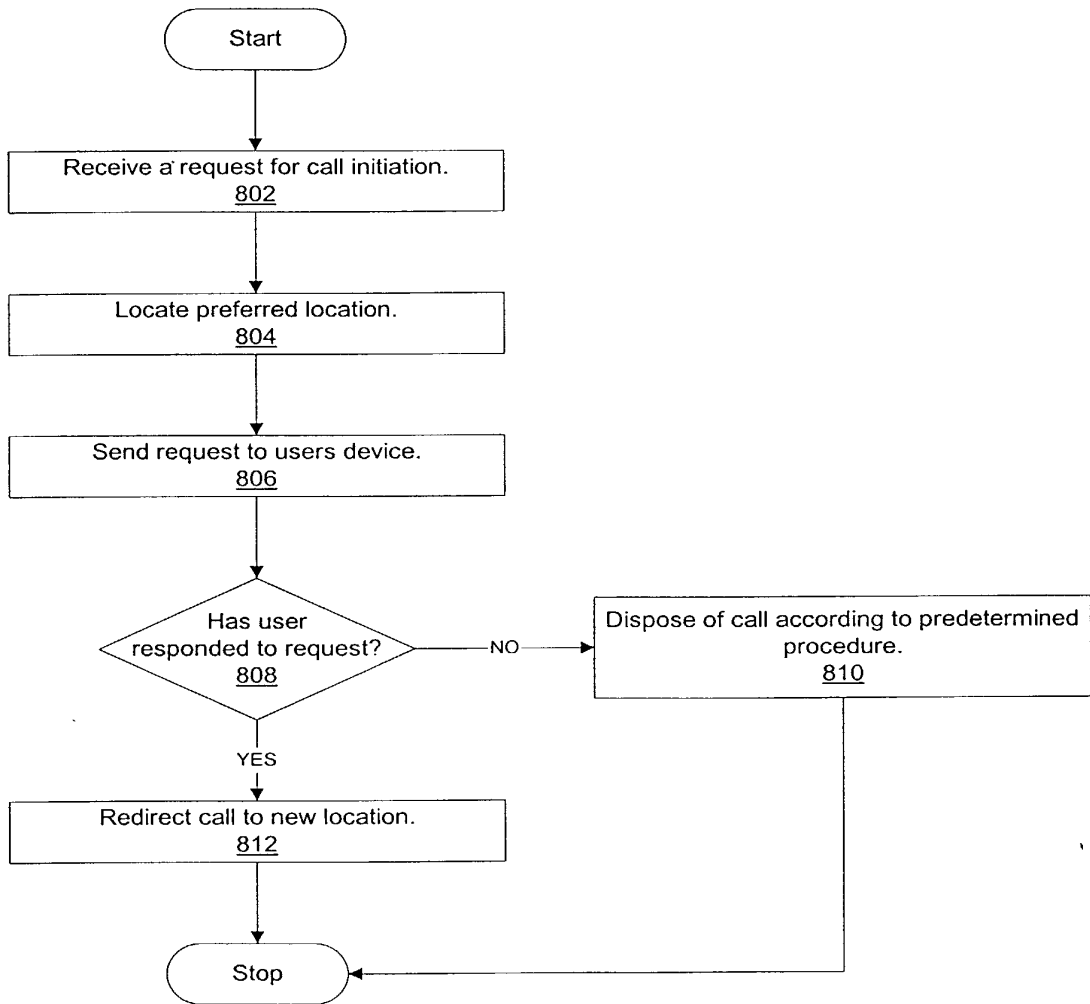


Figure 8

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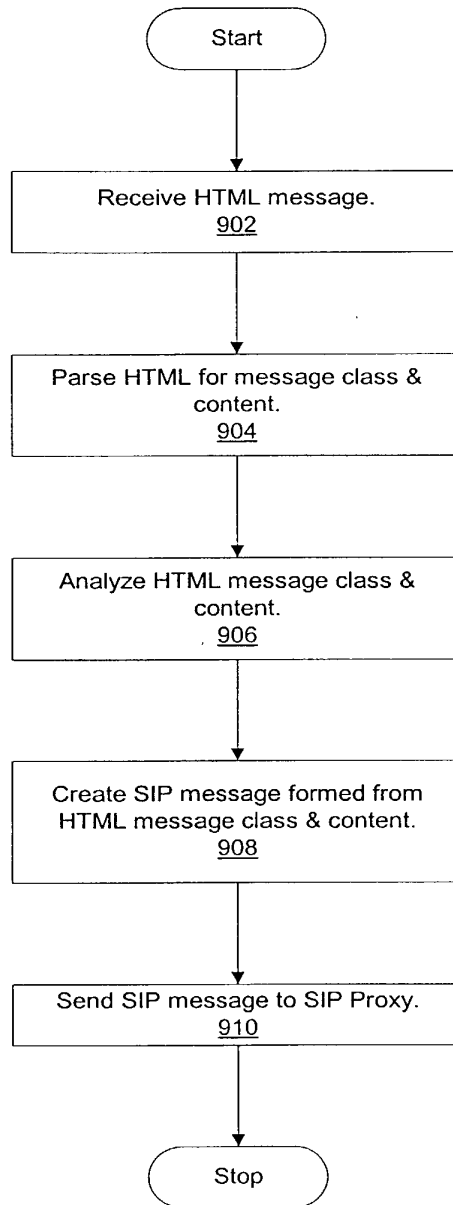


Figure 9

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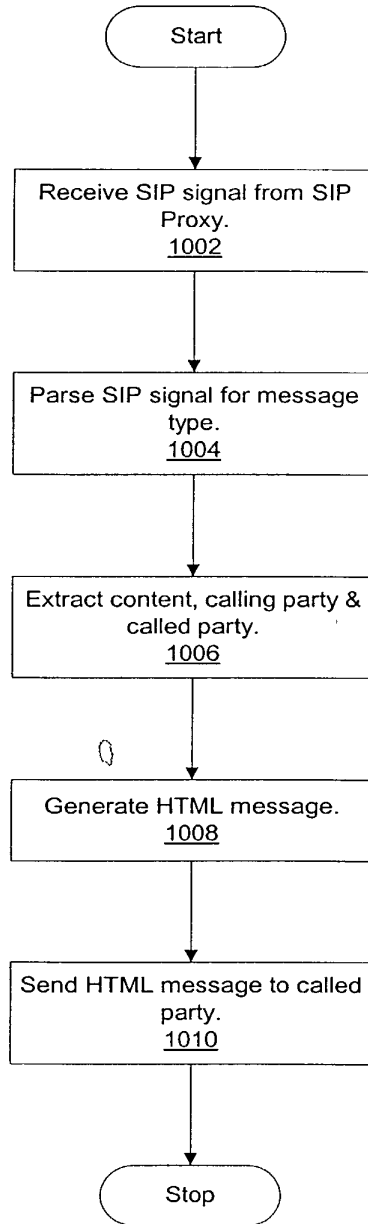


Figure 10

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**DECLARATION AND POWER OF ATTORNEY FOR
PATENT APPLICATION**

As below named inventor, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my name;

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled as set forth below, which is described in the specification of which: (check one)

filed herewith under Attorney's Docket Number 11032RR

PORTABLE CALL MANAGEMENT SYSTEM

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 CFR 1.56.

I hereby claim the benefit under Title 35 United States Code section 120 of the provisional application filed under 111b of this title as listed below:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine of imprisonment, or both, under 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

3 1 3 4 0 5 2 5 2 7 4 1 2 1 1 4 5 6 2

Docket Number: **11032RR**

Page 2 of 3

POWER OF ATTORNEY. As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

John D. Crane, Reg. No. 25,231;
Christopher O. Edwards, Reg. No. 36,127; Robert C. Klinger, Reg. No. 34,365;
James A. Harrison, Reg. No. 40,401; W. Glen Johnson, Reg. No. 39,525; Duke W. Yee, Reg. No. 34,285;
Rudolph J. Buchel, Reg. No. 43,448. Joseph R. Burwell, Reg. No. 44,468, Stephen R. Loe, Reg. No. 43,757.

Send correspondence to John D. Crane, Nortel Networks Corporation, Patent Department; P.O. Box 833858, Mail Stop 488/05/B10; Richardson, Texas 75083-3858 and direct all telephone calls to John D. Crane, telephone. (972) 695-8442.

=====

(1) FULL NAME OF INVENTOR: Gregory T. Osterhout

INVENTOR'S SIGNATURE: *Gregory T. Osterhout*

DATE: 10/15/99

RESIDENCE: 313 Falcon Court, Coppell, TX 75019

COUNTY: Dallas

CITIZENSHIP: United States

POST OFFICE ADDRESS: Same As Above

(2) FULL NAME OF INVENTOR: Kim B. Holmes

INVENTOR'S SIGNATURE: _____

DATE:

RESIDENCE: 5408 Scenic Drive, Rowlett, TX 75086

COUNTY: Dallas

CITIZENSHIP: Canada

POST OFFICE ADDRESS: Same As Above

(3) FULL NAME OF INVENTOR: Mark Sosebee

INVENTOR'S SIGNATURE: _____

DATE:

RESIDENCE: 920 Goodwin Drive, Plano, TX 75023

COUNTY: Collin

CITIZENSHIP: United States

POST OFFICE ADDRESS: Same As Above

**DECLARATION AND POWER OF ATTORNEY FOR
PATENT APPLICATION**

As below named inventor, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my name;

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled as set forth below, which is described in the specification of which: (check one)

was filed on October 15, 1999, under Attorney's Docket Number 11032RR as Application No. 09/419,175

PORTABLE CALL MANAGEMENT SYSTEM

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

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Docket Number: **11032RR**
Page 2 of 3

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=====

(1) FULL NAME OF INVENTOR: **Gregory T. Osterhout**

INVENTOR'S SIGNATURE: _____

DATE:

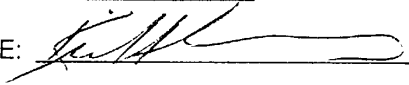
RESIDENCE: 313 Falcon Court, Coppell, TX 75019

COUNTY: Dallas

CITIZENSHIP: United States

POST OFFICE ADDRESS: Same As Above

(2) FULL NAME OF INVENTOR: **Kim B. Holmes**

INVENTOR'S SIGNATURE: 

DATE: 11/17/99.

RESIDENCE: 5409 Scenic Drive, Rowlett, TX 75088

COUNTY: Rockwall

CITIZENSHIP: Canada

POST OFFICE ADDRESS: Same As Above



(3) FULL NAME OF INVENTOR: Mark Sosebee

INVENTOR'S SIGNATURE: Mark Sosebee

DATE: 11/17/99

RESIDENCE: 920 Goodwin Drive, Plano, TX 75023

COUNTY: Collin

CITIZENSHIP: United States

POST OFFICE ADDRESS: Same As Above

10/1999
07/19/02

P

PATENT NUMBER and
ISSUE DATE

U.S. UTILITY Patent Application

T-5/53

APPL NUM	FILING DATE	CLASS	SUBCLASS	GAU	EXAMINER
10199797	07/19/2002	455	417	2625	Nguyen, T

****APPLICANTS:** Osterhout Gregory; Holmes Kim; Gosabee Mark;

****CONTINUING DATA VERIFIED:**
This application is a DIV of 09/419,175 10/15/1999
T. Nguyen

**** FOREIGN APPLICATIONS VERIFIED:**

PG-PUB	DO NOT PUBLISH <input type="checkbox"/>	RESCIND <input type="checkbox"/>	
Foreign priority claimed	<input type="checkbox"/> yes <input type="checkbox"/> no	ATTORNEY DOCKET NO	
35 USC 119 conditions met	<input type="checkbox"/> yes <input type="checkbox"/> no	11032RRUS04D	
Verified and Acknowledged Examiners's initials			
TITLE: Portable coil management system			

U.S. DEPT. OF COMM. / PAT. & TM. PTO 4351 (Rev. 12-94)

NOTICE OF ALLOWANCE MAILED		CLAIMS ALLOWED		
		Assistant Examiner		Total Claims
				Print Claim for O.G.
ISSUE FEE		DRAWING		
Amount Due	Date Paid	Sheet Drawg.	Figs. Drawg.	Print Fig.
		Application Examiner		
<input type="checkbox"/> TERMINAL DISCLAIMER		PREPARED FOR ISSUE		
<p>WARNING: The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and 368, Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.</p>				

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(Attached in pocket on right inside flap)

SEARCH

Class	Sub.	Date	Exmr.
455	417	9/2/03	805
	412.1		
	412.2		
	414.1		
	415		
	425		
	458		
	459		
	463		
	466		
	556.1		
	556.2		
	(IDA)		
709	217	9/3/03	875
	219		
	220		
	227		
340	3.52		
	3.53		
	3.54		
	825.29		
	7.46		
	7.47		
	7.52		
	Updated since 10/4/04		876

INTERFERENCE SEARCHED

Class	Sub.	Date	Exmr.

SEARCH NOTES

(List databases searched. Attach search strategy inside.)

	Date	Exmr.
Fast Search	9/2/03	806
"	9/3/03	876
Wynne No	9/3/03	878
Fast Search	10/4/04	876
"	12/04	876

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07/19/02

1901 U.S. P.

07-22-02

PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0654-0032

U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

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A

UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No.	11032RRUS04D
First Inventor	Osterhout et al.
Title	Portable Call Management System
Express Mail Label No.	EV082028113US

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
- Applicant claims small entity status.
See 37 CFR 1.27.
- Specification [Total Pages]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [Total Sheets]
- Oath or Declaration [Total Pages]
 - Newly executed (original or copy)
 - Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

- CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - Computer Readable Form (CRF)
 - Specification Sequence Listing on:
 - CD-ROM or CD-R (2 copies); or
 - paper
 - Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- Assignment Papers (cover sheet & document(s))
- 37 CFR 3.73(b) Statement of Power of Attorney
(when there is an assignee)
- English Translation Document (if applicable)
- Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
- Preliminary Amendment
- Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
- Certified Copy of Priority Document(s)
(if foreign priority is claimed)
- Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-part (CIP) of prior application No.: 09 / 419,175

Prior application information: Examiner: Nguyen, Thuan T. Group Art Unit: 2684

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label or Correspondence address below
(Insert Customer No. or Attach bar code label here)

Name					
Address					
City	State	Zip Code			
Country	Telephone	Fax			

Name (Print/Type)	Duke W. Yee	Registration No. (Attorney/Agent)	34,285
Signature	<i>Dubell...</i>	Date	07/19/2002

Burden Hour Statement: This form is estimated to take 0.5 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

10/19/99 PTO
07/19/02

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

Complete if Known

Application Number	Not Assigned
Filing Date	07/19/2002
First Named Inventor	Osterhout et al.
Examiner Name	Nguyen, Thuan T.
Group Art Unit	2684
Attorney Docket No.	11032RRUS04D

TOTAL AMOUNT OF PAYMENT (\$) 740.00

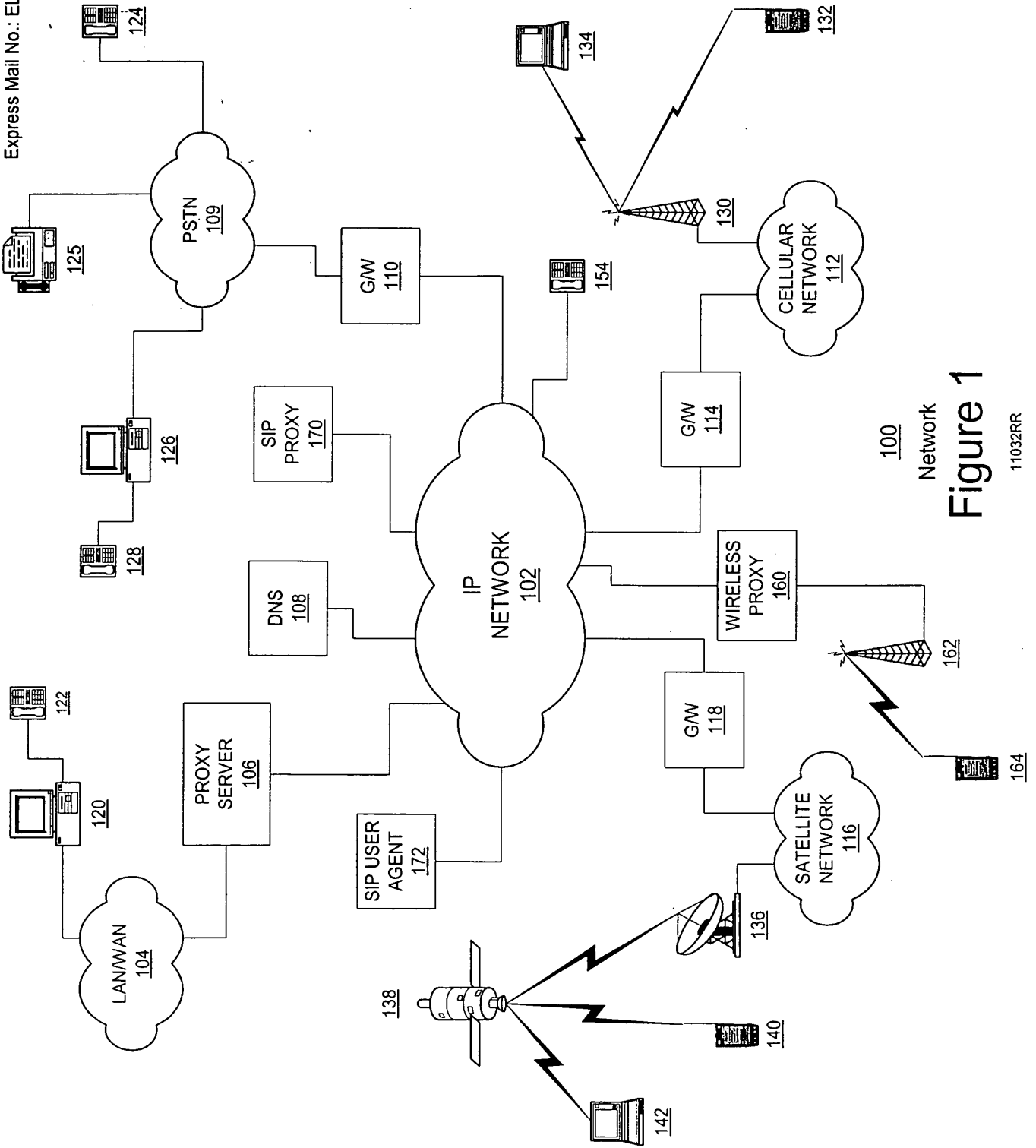
METHOD OF PAYMENT		FEE CALCULATION (continued)																																																																																																																																																																															
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number: 50-0392</p> <p>Deposit Account Name: Carstens, Yee & Cahoon</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p>		<p>3. ADDITIONAL FEES</p> <table border="1"> <thead> <tr> <th>Fee Code</th> <th>Large Entity (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>720</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,960</td><td>228</td><td>980</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>320</td><td>220</td><td>160</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>280</td><td>221</td><td>140</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - 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late filing fee or oath		127	50	227	25	Surcharge - late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	400	216	200	Extension for reply within second month		117	920	217	460	Extension for reply within third month		118	1,440	218	720	Extension for reply within fourth month		128	1,960	228	980	Extension for reply within fifth month		119	320	219	160	Notice of Appeal		120	320	220	160	Filing a brief in support of an appeal		121	280	221	140	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive - unavoidable		141	1,280	241	640	Petition to revive - unintentional		142	1,280	242	640	Utility issue fee (or reissue)		143	460	243	230	Design issue fee		144	620	244	310	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Processing fee under 37 CFR 1.17(q)		126	180	126	180	Submission of Information Disclosure Stmt		581	40	581	40	Recording each patent assignment per property (times number of properties)		146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))		149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))		179	740	279	370	Request for Continued Examination (RCE)		169	900	169	900	Request for expedited examination of a design application	
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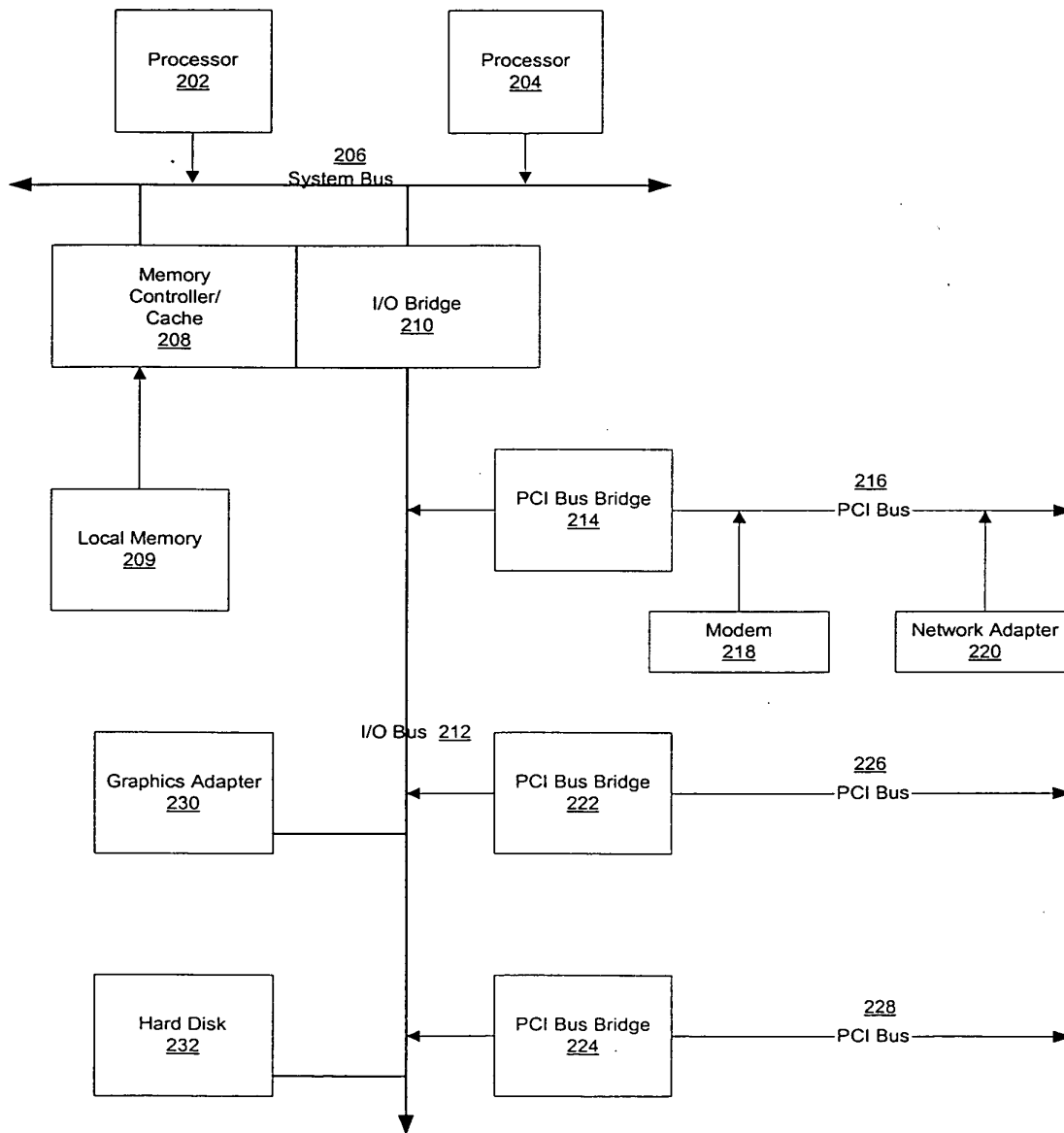
SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Duke W. Yee	Registration No. (Attorney/Agent)	34,285
Signature		Telephone	(972) 367-2001
		Date	07/19/2002

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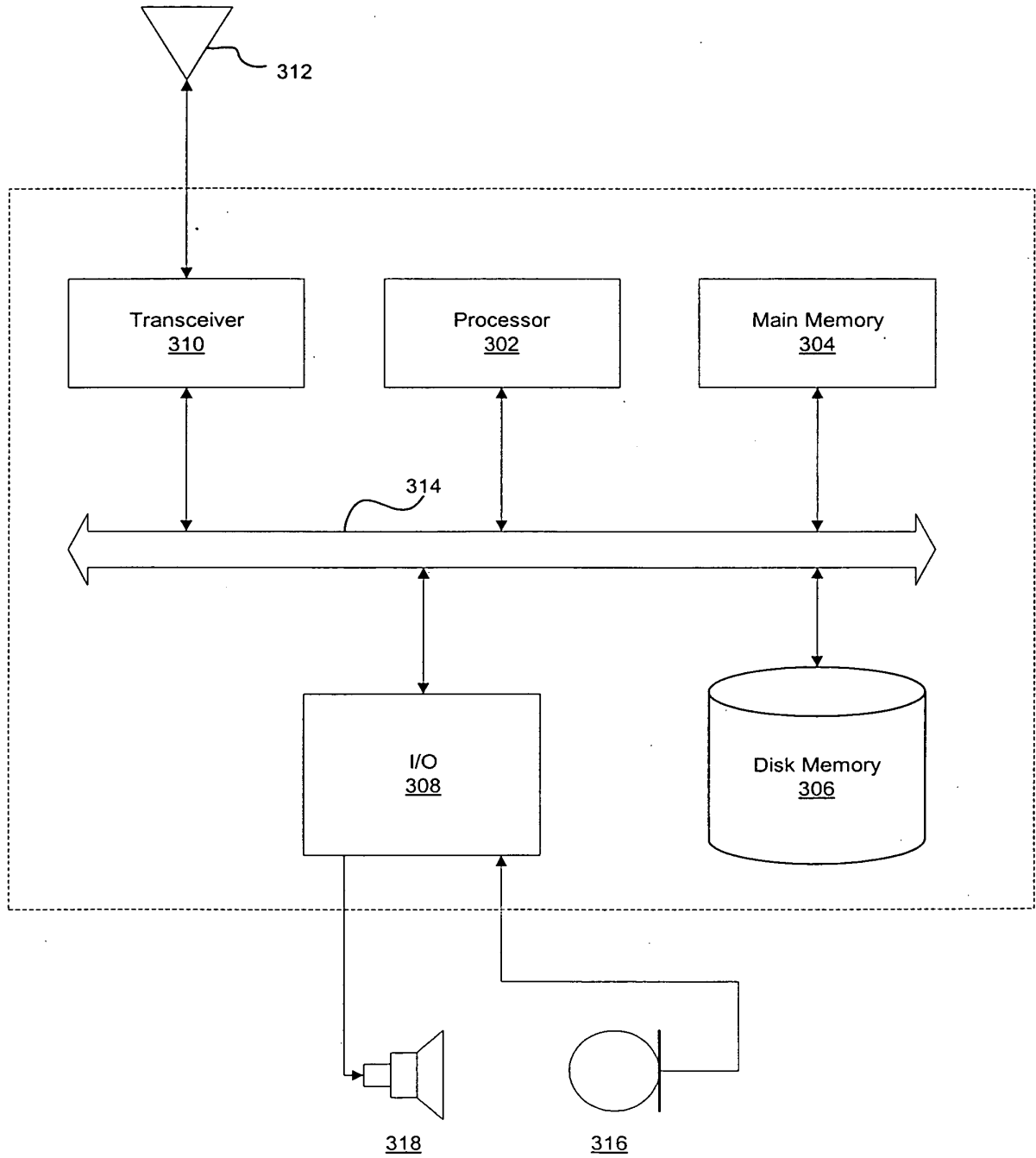
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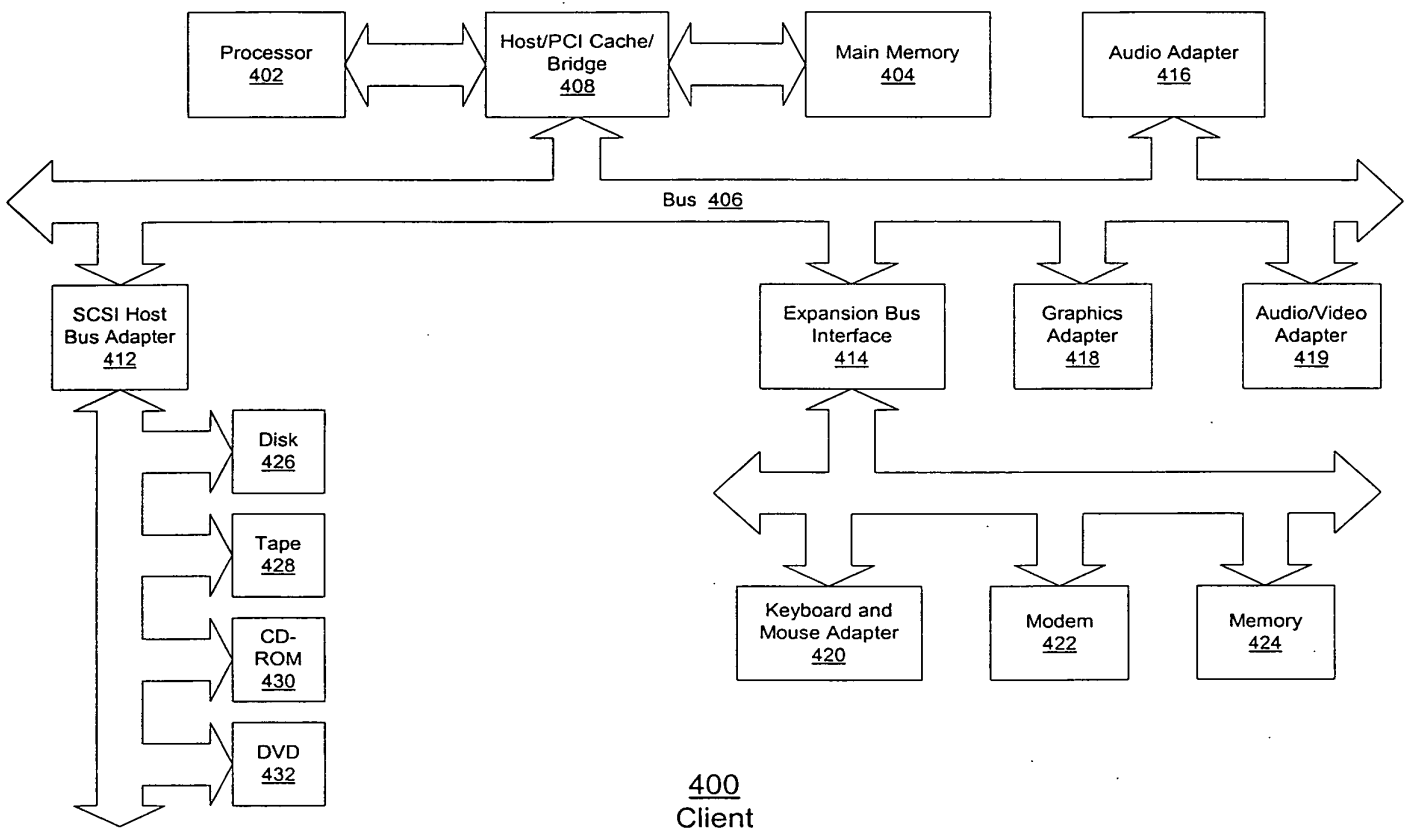
100 Network
Figure 1
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200
Server
Figure 2
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300
Figure 3
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400
Client
Figure 4
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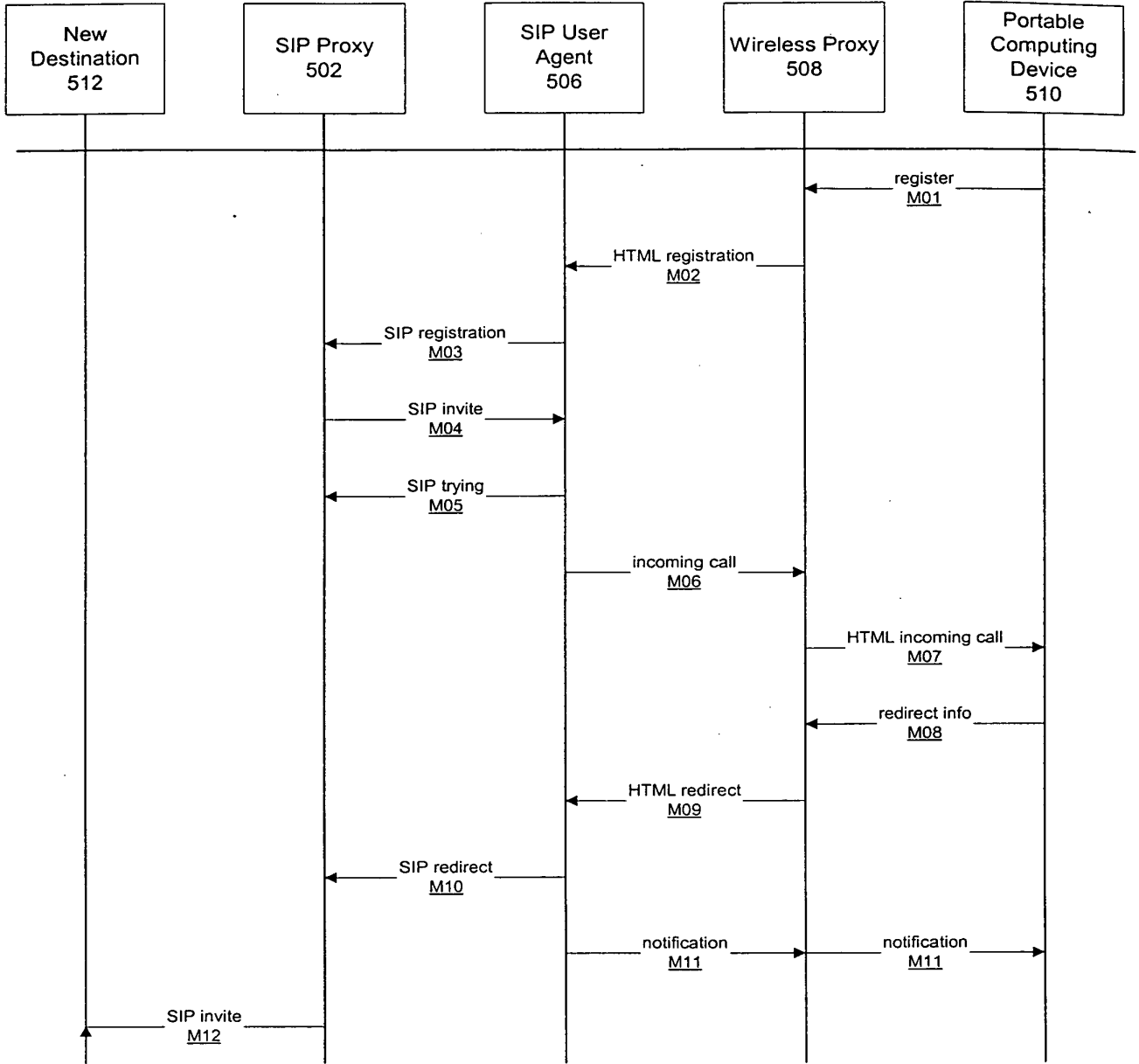


Figure 5

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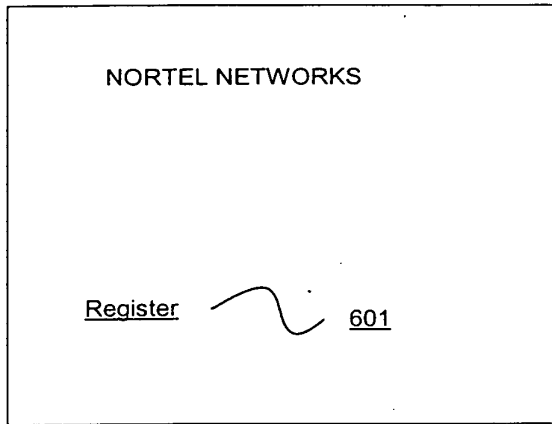


Figure 6A

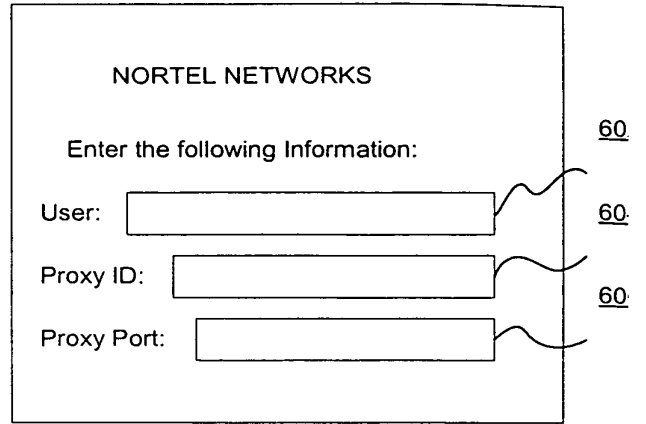


Figure 6B

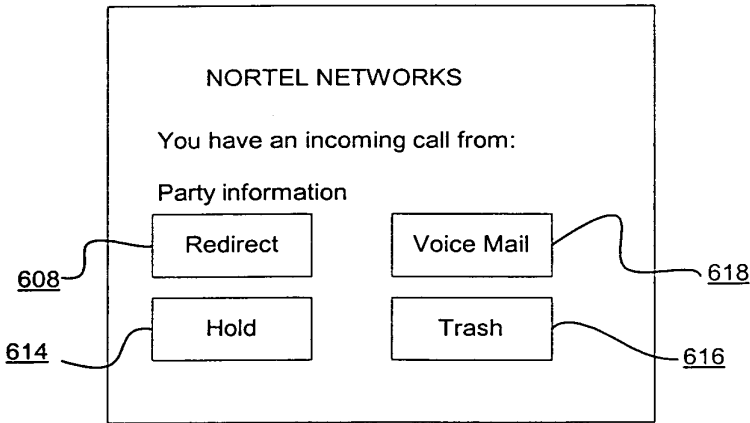


Figure 6C

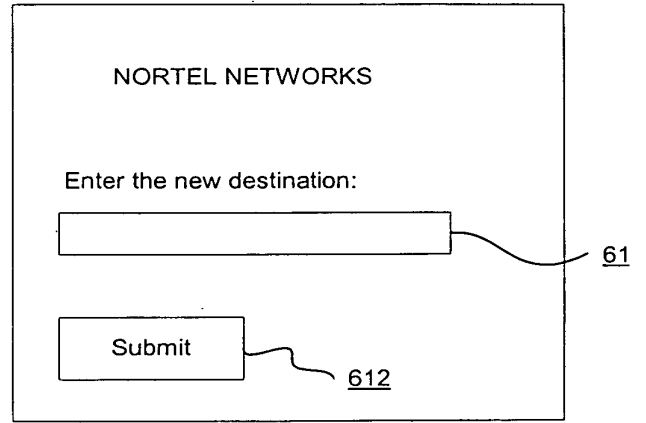


Figure 6D

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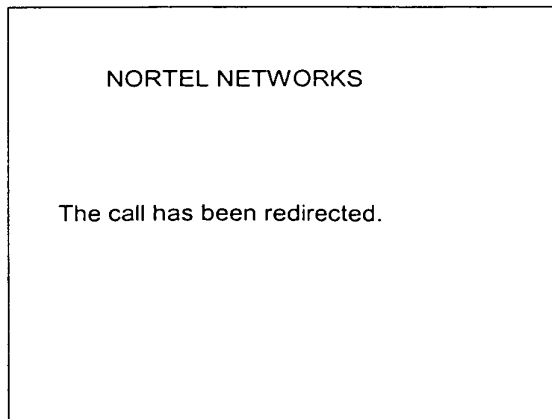


Figure 6E

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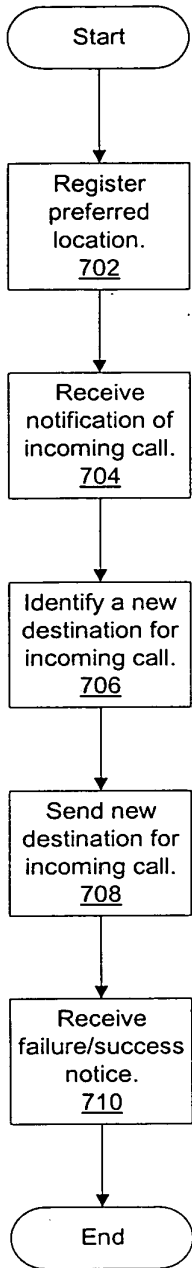


Figure 7
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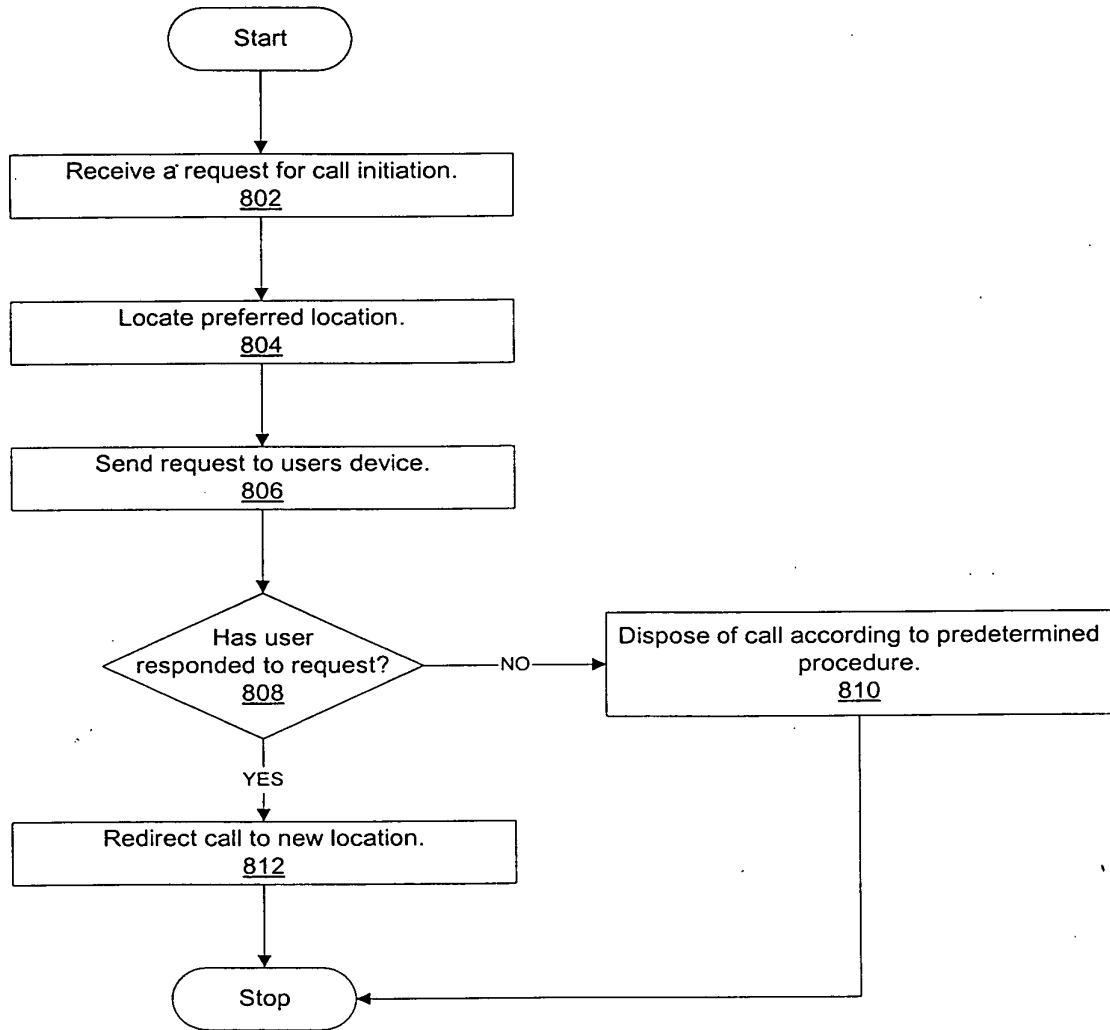


Figure 8

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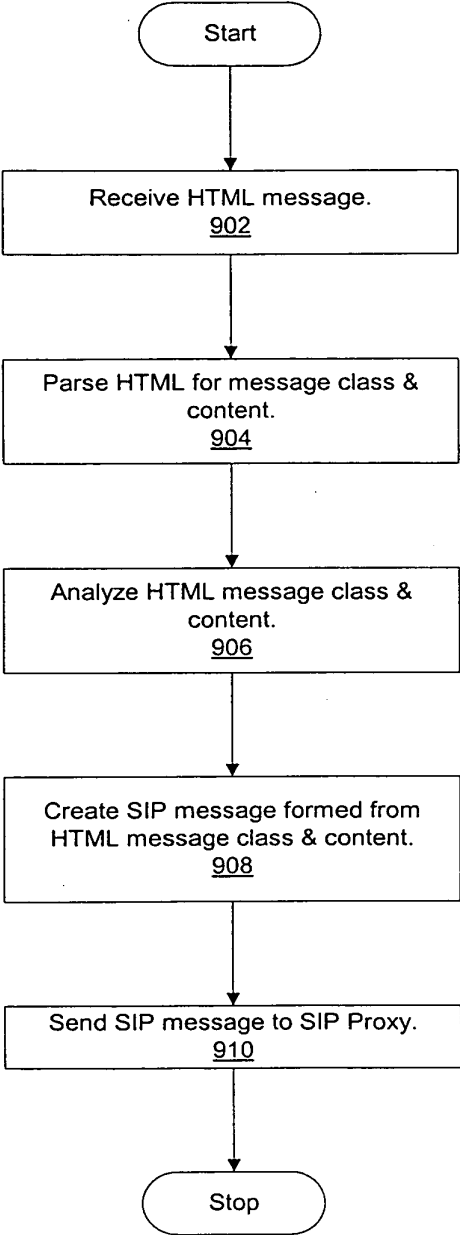


Figure 9

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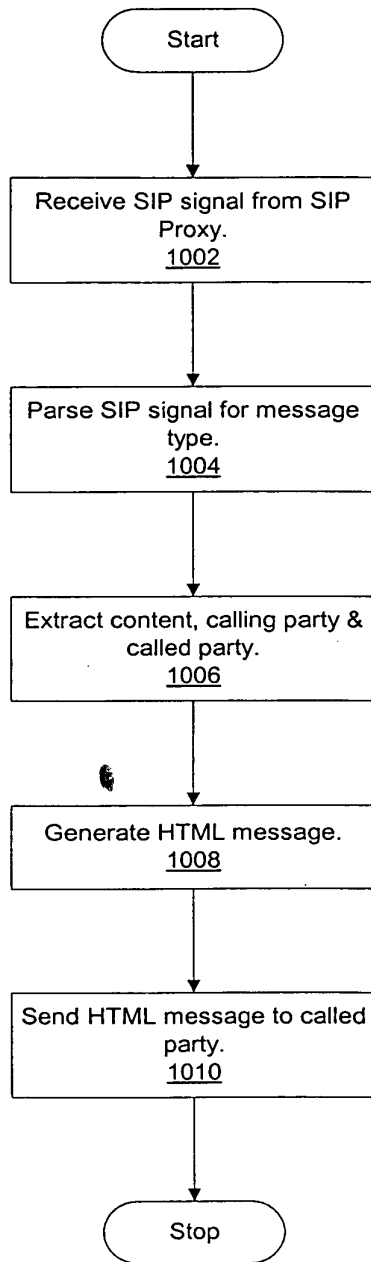


Figure 10

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PORTABLE CALL MANAGEMENT SYSTEM

5 **1. Field of the Invention:**

The present invention relates to telecommunications systems and, more specifically, to methods of transferring calls real time from one device to another.

IFS
AI

A>

2. Background of the Invention:

10 Historically, when a caller telephoned a party, if the party to which the caller wished to speak with did not answer the phone or if the line was busy, the caller had to hang up and redial at a later time hoping that the second call would reach the intended party. Often times, the caller would need to attempt to contact the party multiple times in order to reach that party. If the caller had urgent
15 information in which time was of the essence, this method was unsatisfactory and often resulted in the intended party missing important business or other opportunities.

Some of these problems were alleviated with the introduction of answering machines and voice mail systems. However, even these solutions were not
20 completely satisfactory. For instance, utilizing answering machines and voice mail systems required the called party to actively retrieve their messages. Thus, either many important messages were still not received in a timely manner if the called party did not retrieve their messages frequently or the called party was required to check their voice mail or answering machine quite frequently when the
25 party was out of the office or home in order to insure that messages were retrieved quickly. Thus, this results in the same problem as having the caller repeatedly call the intended party, except that in this case it is the called party that must waste its time insuring that no messages are missed.

A more recent solution to this problem is the introduction of subscriber's
30 static reach list. A static reach list enabled a subscriber (i.e., called party) to enter a list of telephone numbers (or IP addresses, etc.) where the subscriber might be reached. The subscriber would enter these numbers in the order of preference in

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which the subscriber wished the telecommunications system to try to reach the subscriber. Therefore, if the subscriber were going to be away from the location of the subscriber's normal telephone number, if a call were received for the subscriber, the telecommunications system would redirect the subscriber's calls to
5 the next number on the static reach list until the subscriber were reached or until the list of numbers was exhausted.

However, this method required the subscriber to know in advance the telephone number or other communications address at which the subscriber would be while traveling. Many times such information is unknowable either because
10 the person does not know a number at the location to which they are travelling or because the person does not know sufficiently in advance where they will be in order to update the static reach list with the appropriate number. Therefore, it would be beneficial to have a method of to prevent a called party from missing calls without being required to know the number of a phone at which they will be
15 in advance.

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SUMMARY OF THE INVENTION

The present invention solves the problem of preventing a called party from
5 missing calls without having to know in advance the number at which they will be
by providing a method and apparatus for redirecting a call from a data processing
system to another address. In a preferred embodiment, a notice of an incoming
call received from a server at a data processing system. This notice may include
10 caller identification information as well. The user of the data processing system is
prompted for an address to which the user wishes the call to be redirected. The
user then identifies and sends to the server a new address to which the incoming
call is to be redirected.

In another aspect of the present invention, an SIP server receives a notice
of a call and forwards the notice to a SIP user agent. The SIP proxy server then
15 identifies the address to which the called party wishes the call sent from a
database of preferred locations. The called party has previously registered their
preferred location to this database. The SIP user agent then sends a message to
the called party that they have an incoming call. The called party then identifies a
20 phone number or IP address to which the called party wishes the call to be
redirected. Thus, the called party can have their calls originally directed to their
handheld personal digital assistant or other data processing device. Thus, when a
call is received, the called party can determine at that time how to dispose of the
call.

Other aspects and features of the present invention will become apparent
25 to those ordinarily skilled in the art upon review of the following description of
specific embodiments of the invention in conjunction with the accompanying
figures.

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BRIEF DESCRIPTION OF THE DRAWINGS

5 The novel features believed characteristic of the invention are set forth in the appended claims. The invention itself, however, as well as a preferred mode of use, further objectives and advantages thereof, will best be understood by reference to the following detailed description of an illustrative embodiment when read in conjunction with the accompanying drawings, wherein:

10 **Figure 1** depicts a block diagram illustrating a communications network in which the present invention may be implemented;

Figure 2 depicts a block diagram of a data processing system which may be implemented as a server in accordance with the present invention;

15 **Figure 3** depicts a block diagram of a portable device such as a personal digital assistant (PDA) in which the present invention may be implemented;

Figure 4 depicts a block diagram of a data processing system in which the present invention may be implemented;

Figure 5 depicts a message flow chart illustrating the processes of redirecting a call in real time from according to the present invention;

20 **Figures 6A-6E** illustrate examples of sample HTML or web pages displayed to a user of a portable computing device;

Figure 7 depicts a flowchart illustrating the methods executed on a portable computing device in accordance with a preferred embodiment of the present invention;

25 **Figure 8** depicts a flowchart illustrating the processes of redirecting a call which are implemented on a server within the communications network in accordance with the present invention;

Figure 9 depicts a flowchart illustrating a method of converting HTML to SIP as performed by a SIP User Agent in accordance with the present invention;

30 and

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Figure 10 depicts a flowchart illustrating a method of converting an SIP signal into an HTML message in accordance with the present invention.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

5

With-reference now to the figures, and in particular with reference to **Figure 1**, a system diagram illustrating a plurality of interconnected heterogeneous networks in which a the present invention may be implemented is depicted. As illustrated, an Internet Protocol (IP) network **102**, a Local Area Network (LAN) / Wide Area Network (WAN) **104**, the Public Switched Telephone Network (PSTN) **109**, a cellular wireless network **112**, and a satellite communication network **116** make up the plurality of heterogeneous networks serviced by the personal mobility system of the present invention.

IP network **102** may be the publicly available IP network, a private IP network, or a combination of public and private IP networks. In any case, IP network **102** operates according to the Internet Protocol and routes packets among its many switches and through its many transmission paths. IP networks are generally known in the art to be expandable, fairly easy to use and heavily supported. Coupled to IP network **102** is a Domain Name Server (DNS) **108** to which queries may be sent, such queries each requesting an IP address based upon a Uniform Resource Locator (URL). IP network **102** supports 32 bit IP addresses as well as 128 bit IP addresses, which are currently in the planning stage.

LAN/WAN **104** couples to IP network **102** via a proxy server **106** (or another connection). LAN/WAN **104** may operate according to various communication protocols, such as the Internet Protocol, the Asynchronous Transfer Mode (ATM) protocol, or other known packet switched protocols. Proxy server **106** serves to route data between IP network **102** and LAN/WAN **104**. A firewall that precludes unwanted communications from entering LAN/WAN **104** may also be located at the location of proxy server **106**.

Computer **120** couples to LAN/WAN **104** and supports communications with LAN/WAN **104**. Computer **120** may employ the LAN/WAN and proxy

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server 106 to communicate with other devices across IP network 102. Such communications are generally known in the art and will not be further described herein except to expand upon the teachings of the present invention. As is also shown, phone 122 couples to computer 120 and may be employed to initiate IP
5 Telephony communications with another phone or voice terminal using IP Telephony. In such an IP telephony system, a gatekeeper 152 is deployed by a service provider to manage IP telephony for its users. An IP phone 154 connected to IP network 102 (or other phone, e.g., phone 124) may communicate with phone 122 using IP telephony.

10 PSTN 109 is a circuit switched network that is primarily employed for voice communications, such as those enabled by a standard phone 124. However, PSTN 109 also supports the transmission of data. Data transmissions may be supported to a tone based terminal, such as a FAX machine 125, to a tone based modem contained in computer 126, or to another device that couples to PSTN 109
15 via a digital connection, such as an Integrated Services Digital Network (ISDN) line, an Asynchronous Digital Subscriber Line (ADSL), or another digital connection to a terminal that supports such a connection. As illustrated, a voice terminal, such as phone 128, may couple to PSTN 109 via computer 126 rather than being supported directly by PSTN 109, as is the case with phone 124. Thus,
20 computer 126 may support IP telephony with voice terminal 128, for example.

Cellular network 112 supports wireless communications with terminals operating in its service area (which may cover a city, county, state, country, etc.). As is known, cellular network 112 includes a plurality of towers, e.g., 130, that each service communications within a respective cell. Wireless terminals that
25 may operate in conjunction with cellular network 112 include wireless handsets 132 and wirelessly enabled laptop computers 134, for example. Wireless handsets 132 could be, for example, personal digital assistants, wireless or cellular telephones, or two-way pagers. Cellular network 112 couples to IP network 102 via gateway 114.

30 Wireless handsets 132 and wirelessly enabled laptop computers 134 may communicate with cellular network 112 using a wireless application protocol

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(WAP). WAP is an open, global specification that allows mobile users with wireless devices, such as, for example, mobile phones, pagers, two-way radios, smartphones, communicators, personal digital assistants, and portable laptop computers, to easily access and interact with information and services almost
5 instantly. WAP is a communications protocol and application environment and can be built on any operating system including, for example, Palm OS, EPOC, Windows CE, FLEXOS, OS/9, and JavaOS. WAP provides interoperability even between different device families.

WAP is the wireless equivalent of Hypertext Transfer Protocol (HTTP)
10 and Hypertext Markup Language (HTML). The HTTP-like component defines the communication protocol between the handheld device and a server or gateway. This component addresses characteristics that are unique to wireless devices, such as data rate and round-trip response time. The HTML-like component, Wireless Markup Language (WML), defines new markup and scripting languages for
15 displaying information to and interacting with the user. This component is highly focused on the limited display size and limited input devices available on small, handheld devices. For example, a typical cell phone may have only a 4x10-character display with 16-gray levels and only a numeric keypad plus up/down volume keys.

20 Cellular network 112 operates according to an operating standard, which may be the Advanced Mobile Phone System (AMPS) standard, the Code Division Multiple Access (CDMA) standard, the Time Division Multiple Access (TDMA) standard, or the Global System for Mobile Communications or Groupe Speciale Mobile (GSM), for example. Independent of the standard(s) supported by cellular
25 network 112, cellular network 112 supports voice and data communications with terminal units, e.g., 132 and 134.

Satellite network 116 includes at least one satellite dish 136 that operates in conjunction with a satellite 138 to provide satellite communications with a plurality of terminals, e.g., laptop computer 142 and satellite handset 140.
30 Satellite handset 140 could also be a two-way pager. Satellite network 116 may be serviced by one or more geosynchronous orbiting satellites, a plurality of

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medium earth orbit satellites, or a plurality of low earth orbit satellites. In any case, satellite network **116** services voice and data communications and couples to IP network **102** via gateway **118**.

Wireless Proxy **160** is coupled to IP network **102** and is coupled to a
5 plurality of towers, e.g., **162**, which each provide wireless communications with wireless devices such as wireless device **164**. Wireless Proxy **160** provides access to IP network **102** to wireless device **164**, such as personal digital assistants (PDAs), that may require proprietary or other special protocols in order to communicate with IP network **102**. For example, wireless proxy server **160** may
10 be a 3Com server utilizing 3Com protocols for communicating with a Palm VII, a handheld portable computing device available from 3Com Corporation in Santa Clara, California.

In a preferred embodiment of the present invention, wireless proxy **160** is a 3Com proxy server supporting communications with Palm VII personal
15 organizer and portable computing device **164** is a Palm VII personal organizer. In this embodiment, communications between wireless proxy server **160** and portable computing device **164** is facilitated by the use of Palm Query Applications (PQAs). A PQA is like a mini-Web site that resides on portable computing device **164**. That is, a PQA is a special kind of record database. A
20 typical PQA contains an HTML form or a list of hyperlinks that request additional information either locally — on personal computing device **164** — or remotely — on the Internet.

Much of the content on the Internet is designed to take advantage of the power of Pentium/RISC-class computers with large, high resolution color
25 monitors and fast and cheap Internet access. In these circumstances, there is little reason to economize on the abundant connect time and large file size that make Web browsing such a rich, multimedia experience from a desktop or notebook computer.

However, this model is not the best model for a small, low-power
30 computer like the Palm VII organizer with its tiny screen, battery powered operation, and relatively slow and expensive wireless connection to the Internet.

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Rather than duplicate the Web browsing model on a handheld computer, PQAs are developed that access targeted bits of Internet information — like clippings from a newspaper. Typically, a handheld computer user does not focus on following hyperlinks to the Internet (although this is available), but instead, they
5 compose a simple query in the PQA (for example a request for a stock quote) and then send that query over the air.

Also included in network 100 is a Session Initiation Protocol (SIP) proxy 170. SIP proxy 170 is connected to IP network 102 and provides switching and routing for communication over IP network 102. SIP proxy 170 also maintains a
10 static list of preferred locations to which a user wishes telephone calls or other communication types sent. When a request to initiate a communications session is received, SIP proxy 170 retrieves the static list of the called party and routes the call to the top address in the static list. If the communications session is not established with the top address in the static list, then SIP proxy 170 may attempt
15 to access the next address in the list and so on until the called party is reached or until the addresses in the static list are exhausted.

SIP is a textual based signaling protocol for creating, modifying and terminating sessions. These sessions can be multimedia conferences, Internet telephone calls and similar applications consisting of one or more media types
20 such as, for example, audio, video, or whiteboard. SIP invitations are used to create sessions and carry session descriptions, which allow participants to agree on a set of compatible media types. SIP requests can be sent either over TCP or UDP.

SIP User Agent 172 is also connected with IP Network 102. SIP User
25 Agent 172 translates between SIP communications and Hypertext Transfer Protocol (HTTP) and other extensible markup language (XML) based protocols such as Voice XML (VOXML) and Wireless Application Protocol (WAP).

Figure 1 is intended as an example and not as an architectural limitation for the processes of the present invention.

30 In a preferred embodiment, a user registers an address to which they wish their voice calls or other communications to be sent. The address can be an IP

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address, a PSTN address or other type of address for locating an electronic device such as a data processing system or telephone. As an example, consider a user of portable device 164 wishing to have all of their calls routed to the portable device. The user of portable device 164 sends an HTML registration request to Wireless
5 Proxy 160, which then forwards the HTML registration request to SIP User Agent 172. SIP User Agent SIP 172 translates the HTML registration request from HTML into an SIP registration statement and sends the SIP registration statement to SIP Proxy 170. SIP Proxy 170 then updates the user's static list and inserts the newly received address into the top of the static list as the first address to attempt
10 to establish a connection with if a request to initiate communications with that user is received. If the user does not have a static list, SIP Proxy 170 can create one and then place the received address in the newly created static list. The registration request does not have to initiate from a portable wireless device such as portable device 164 but may initiate with a LAN based data processing system
15 such as client 120 or with some other type of wireless device.

When SIP Proxy 170 receives a request to initiate communications, such as a voice telephone call, with a user, SIP Proxy 170 retrieves the static list for the called party and determines the first address to contact. SIP Proxy 170 then sends an SIP Invite message to SIP User Agent 172. SIP User Agent 172 translates the
20 SIP Invite message into an HTML message and sends the HTML message to Wireless Proxy 160 which then forwards the HTML message to portable device 164.

Once the HTML invite message is received at portable device 164, the user may then determine how to dispose of the call. If portable device 164 is a
25 telephone (or supports voice communications), the user may choose to take the call if it is someone to which the user wishes to speak. The user may also redirect the call elsewhere to a nearby PSTN address, to a voice mailbox, or to an IP address. Portable device 164 may even suggest options as to disposal of the incoming communication. For example, if the incoming communication is video,
30 rather than a voice call, portable device 164 may suggest routing the

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communication to client **120** on LAN/WAN **104**, which may be the nearest device capable of receiving such communication.

If the user decides to redirect the call to some other device, then redirection information in HTML format indicating the address of the new device is sent from portable device **164** to wireless proxy **160**. Wireless proxy **160** then forwards the HTML redirect information to SIP User Agent **172**, which converts the HTML redirect information into an SIP redirect and send the SIP redirect to SIP proxy **170**. SIP User Agent **172** also sends an HTML notification to portable device **164** via wireless proxy **160** indicating that the communication is being redirected. SIP proxy **170** then redirects the communication to the new address and takes down the connection with portable device **164**. If SIP proxy **170** is unable to make a connection with the new address (e.g., incorrect address, device off-line, etc.), then the communication must be terminated or the next address in the user's static list contacted. This is because the connection to portable device **164** has already been taken down thus preventing an attempt to request a new address to which to redirect the communication.

As an example of uses of such redirection methods and systems according to the present invention, consider a family consisting of a husband, wife, and children. Perhaps the husband has registered his wireless telephone as the device to which incoming calls to his home telephone should be delivered. If notification of an incoming call is received by the husband on his wireless telephone, he can look at the display to see who the caller is. If the husband determines that the call is for his wife, he can redirect the call to her work phone or to her wireless phone. If the call is for one of the children, the call can be redirected to the home phone. However, if the call is for the husband, he can choose to take the call on his wireless telephone. Alternatively, if the call is for the husband, but he does not wish to speak with the caller, the call can be forwarded to his voice mailbox.

As another example of the use of redirection methods and systems according to the present invention, consider a person travelling on business and away from the office. The business person can register a personal digital assistant (PDA) as the device to which incoming calls are directed. Thus, wherever the

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business person is, no calls will be misses because of being away from the office. If notification of a call is received, the business person can have the call redirected to a phone near where the business person is presently located. Such phone could be the room phone of the hotel where the person is currently staying or it could be
5 the office phone of the person with which the business person is meeting.

Referring now to **Figure 2**, a block diagram of a data processing system which may be implemented as a server, such as server **106**, **108**, **160**, or **170** in **Figure 1**, is depicted in accordance with the present invention. Data processing system **200** may be a symmetric multiprocessor (SMP) system including a
10 plurality of processors **202** and **204** connected to system bus **206**. Alternatively, a single processor system may be employed. Also connected to system bus **206** is memory controller/cache **208**, which provides an interface to local memory **209**. I/O bus bridge **210** is connected to system bus **206** and provides an interface to I/O bus **212**. Memory controller/cache **208** and I/O bus bridge **210** may be
15 integrated as depicted.

Peripheral component interconnect (PCI) bus bridge **214** connected to I/O bus **212** provides an interface to PCI local bus **216**. A number of modems **218-220** may be connected to PCI bus **216**. Typical PCI bus implementations will support four PCI expansion slots or add-in connectors. Communications links to
20 network computers **120**, **126**, **134**, and **142** in **Figure 1** may be provided through modem **218** and network adapter **220** connected to PCI local bus **216** through add-in boards.

Additional PCI bus bridges **222** and **224** provide interfaces for additional PCI buses **226** and **228**, from which additional modems or network adapters may
25 be supported. In this manner, server **200** allows connections to multiple network computers. A memory mapped graphics adapter **230** and hard disk **232** may also be connected to I/O bus **212** as depicted, either directly or indirectly.

Those of ordinary skill in the art will appreciate that the hardware depicted in **Figure 2** may vary. For example, other peripheral devices, such as optical disk
30 drives and the like, also may be used in addition to or in place of the hardware

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depicted. The depicted example is not meant to imply architectural limitations with respect to the present invention.

The data processing system depicted in **Figure 2** may be, for example, an IBM RS/6000, a product of International Business Machines Corporation in Armonk, New York, running the Advanced Interactive Executive (AIX) operating system.

Turning now to **Figure 3**, a block diagram of a personal digital assistant (PDA), such as portable device 164 in **Figure 1**, is illustrated in which the present invention may be implemented. The PDA is typically a palmtop computer, such as, for example, a Palm VII, a product of 3Com Corporation in Santa Clara, California, connected to a wireless communications network and which may provide voice, fax, e-mail, and/or other types of communication. The PDA 300 may have one or more processors 302, such as a microprocessor, a main memory 304, a disk memory 306, and an I/O 308 such as a mouse, keyboard, or pen-type input, and a screen or monitor. The PDA 300 may also have a wireless transceiver 310 connected to an antenna 312 configured to transmit and receive wireless communications. The processor 302, memories 304, 306, I/O 308, and transceiver are connected to a bus 304. The bus transfers data, i.e., instructions and information, between each of the devices connected to it. The I/O 308 may permit faxes, e-mail, or optical images to be displayed on a monitor or printed out by a printer. The I/O 308 may be connected to a microphone 316 and a speaker 318 so that voice or sound information may be sent and received.

With reference now to **Figure 4**, a block diagram of a data processing system in which the present invention may be implemented is illustrated. Data processing system 400 is an example of a client computer such as client 120, 126, 134, or 142 in **Figure 1**. Data processing system 400 employs a peripheral component interconnect (PCI) local bus architecture. Although the depicted example employs a PCI bus, other bus architectures, such as Micro Channel and ISA, may be used. Processor 402 and main memory 404 are connected to PCI local bus 406 through PCI bridge 408. PCI bridge 408 may also include an integrated memory controller and cache memory for processor 402. Additional

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connections to PCI local bus 406 may be made through direct component interconnection or through add-in boards. In the depicted example, SCSI host bus adapter 412 and expansion bus interface 414 are connected to PCI local bus 406 by direct component connection. In contrast, audio adapter 416, graphics adapter 418, and audio/video adapter (A/V) 419 are connected to PCI local bus 406 by add-in boards inserted into expansion slots. Expansion bus interface 414 provides a connection for a keyboard and mouse adapter 420, modem 422, and additional memory 424. In the depicted example, SCSI host bus adapter 412 provides a connection for hard disk drive 426, tape drive 428, CD-ROM drive 430, and digital video disc read only memory drive (DVD-ROM) 432. Typical PCI local bus implementations will support three or four PCI expansion slots or add-in connectors.

An operating system runs on processor 402 and is used to coordinate and provide control of various components within data processing system 400 in **Figure 4**. The operating system may be a commercially available operating system, such as OS/2, which is available from International Business Machines Corporation. "OS/2" is a trademark of International Business Machines Corporation. An object oriented programming system, such as Java, may run in conjunction with the operating system, providing calls to the operating system from Java programs or applications executing on data processing system 400. Instructions for the operating system, the object-oriented operating system, and applications or programs are located on a storage device, such as hard disk drive 426, and may be loaded into main memory 404 for execution by processor 402.

Those of ordinary skill in the art will appreciate that the hardware in **Figure 4** may vary depending on the implementation. For example, other peripheral devices, such as optical disk drives and the like, may be used in addition to or in place of the hardware depicted in **Figure 4**. The depicted example is not meant to imply architectural limitations with respect to the present invention. For example, the processes of the present invention may be applied to multiprocessor data processing systems.

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Turning now to **Figure 5**, a message flow chart is depicted illustrating the processes of redirecting a call in real time from a wireless device according to the present invention. In this example, a redirect from a wireless device utilizing a wireless proxy is illustrated. A similar flow would result if the redirect were being sent from a LAN/WAN connected device except for the omission of wireless proxy 508.

A user of a portable computing device such as a PDA or laptop computer initiates a registration by entering a proxy ID, a proxy port, and an address, such as, for example, a PSTN number or an IP address, and sending this information to wireless proxy 508 (step M01). **Figures 6A** illustrates an example of a sample HTML screen displayed to a user to initiate registration. The user may pull up the registration page by selecting the word "register" 601 on the page. **Figure 6B** illustrates an example of a sample HTML screen allowing a user to register by providing prompts to enter an user name 602, a proxy identification 604, and a proxy port 606.

Wireless Proxy 508 receives the HTML registration web page and forwards it to SIP user agent 506 (step M02). User agent 506 receives the HTML page and sends a SIP registration to SIP proxy 502 (step M03). SIP proxy 502 updates its destination list for the user with the address for portable computing device 510. Next, an SIP invite signal is sent to user agent 506 (step M04).

User agent 506 then sends an SIP 100-trying signal back to SIP proxy 502 (step M05). When a call for the user at portable computing device 510 is received by user agent 506, user agent 506 sends an HTML page to 3Com proxy 508 to indicate an incoming call for the user at portable computing device 510 (step M06). 3Com proxy 508 forwards the HTML page to portable computing device 510 (step M07). The HTML page is displayed the user of portable computing device 510 to indicate that the user has an incoming call. An example of such an HTML page is illustrated in **Figure 6C**. A hot button 608 is supplied which the user may select to redirect the incoming call. Other hot buttons 614, 616, and 618 allow the user to place the call on hold, terminate the call without answering, or send the call to voice mail respectively. If redirection is chosen, the user of the

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portable computing device **510** then redirects the call to another destination by entering and sending a PSTN, IP, or other address as the new destination (step **M08**). **Figure 6D** illustrates an example of a sample HTML page in which the user may enter the new destination for the incoming phone call in destination box **610** and then send the new destination by selecting the “submit” hot button **612**.

Wireless proxy **508** receives the HTML page containing the new destination and this page is forwarded to user agent **506** (step **M09**). User agent **506** sends a SIP 300 signal to SIP proxy **502** containing the new destination (step **M10**). User agent **506** also sends an HTML page to portable computing device **510** via 3Com proxy **508** indicating that the call was redirected (step **M11**). A message is displayed to the user of portable computing device **510** indicating that the call was redirected. An example of such a HTML page is illustrated in **Figure 6E**. SIP proxy **502** receives the 300 signal and sends out an invite to the new destination (step **M12**).

If portable computing device **510** does not respond to the message indicating that the user has an incoming call (step **M07**), then a SIP 480 Temporarily not available signal is sent from user agent **506** back to SIP proxy server **502**. SIP proxy **502** can then decide how to process the call. For example, for calls to which the portable computing device does not respond, SIP proxy **502** could forward the call to a predefined destination or take the call down.

Turning now to **Figure 7**, a flowchart illustrating the methods executed on a portable computing device in accordance with a preferred embodiment of the present invention is depicted. To start, a user of a data processing device registers the address of their data processing device that they wish their calls to be delivered to (step **702**). Typically, when the data processing device is activated, it performs an SIP registration with a SIP registration server, effectively causing all future calls to route to this device as the first selection. On deactivation of the device, the shutdown processing unregisters with the SIP registration server thereby restoring the defaults on how the called party is to be reached (i.e., the subscriber’s static reach list). Next, when a call is made to the user, a notification of the incoming call is received at their data processing device (step **704**).

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Included in the notification may be caller identification information such as PSTN or IP address from where the call originated. The user then identifies a new destination for the incoming call to be sent (step 706). For example, if the user has traveled to a hotel, the user may enter the phone number of the room at the hotel. As another example, if the user is near a pay phone, the user may enter the phone number of the pay phone. Once the user has identified a new destination for the incoming call to be redirected to, this new destination is sent back to a SIP proxy via a SIP User Agent (step 708). Once the SIP User Agent receives the redirect request, the user will receive a notice indicating the call is being redirected (step 710).

Turning now to **Figure 8**, a flowchart illustrating the processes of redirecting a call which are implemented on a server within the communications network is depicted in accordance with the present invention. To start, a server within the communications network receives a request for call initiation from a PSTN (step 802). The server accesses a database to which the called party has registered the current device to which they wish their calls directed (step 804). The current device is registered at the top of a static reach list of numbers to try in order to reach the called party. Once the current device is identified, a notice is sent to the called parties current location indicating that the party has an incoming call and requesting information about where to direct the call (step 806). Next, a determination is made as to whether the user has responded to the request (step 808). If the user does not respond after a given period of time, then the call is disposed of according to a predetermined procedure (step 810). For example, if the user does not respond to the request, then the server may redirect the call to the next address in the called party's static reach list of preferred locations or if there are no more preferred locations stored in a database, the server may end the call. If the user does respond to the request, then the call is redirected to the new location and a confirmation is sent to the user indicating such (step 812). The call may be redirected to a cell phone, to a nearby wire-line device, to the called party's voice mailbox, or the party initiating the call may be placed on temporary hold. If the party initiating the call is placed on hold, a standard greeting will be

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sent to the calling party to make them aware that the called party is attempting to find an appropriate method to receive the call or is on another call and to stay on the call because the called party will answer momentarily.

Turning now to **Figure 9**, a flowchart illustrating a method of converting HTML to SIP as performed by a SIP User Agent is depicted in accordance with
5 the present invention. To start, a SIP User Agent receives an HTML message (step **902**). The SIP User Agent then parses the HTML message for class and content (step **904**). The SIP User Agent then analyzes the message class and content (step **906**) to create an SIP signal from the HTML message (step **908**).
10 The newly formed SIP signal is then sent to an SIP Proxy (step **910**) and the process stops.

Turning now to **Figure 10**, a flowchart illustrating a method of converting an SIP signal into an HTML message is depicted in accordance with the present invention. First, the SIP User Agent receives an SIP signal from the SIP Proxy
15 (step **1002**). The SIP signal is then parsed for message type (step **1004**) and the content, calling party, and called party are extracted from the SIP signal (step **1006**). Using the extracted information, the SIP User Agent generates an appropriate HTML page (step **1008**) and sends the HTML message to the called party (step **1010**) ending the process.

20 Although the present invention has been described primarily with reference to redirecting telephony communications. Other forms of media streams may be redirected as well. For example, a client such as client **120** or portable device **164**, that has previously performed an SIP registration, receives a notification of incoming data streams. The notification will include information
25 about what types of data streams are included. This will be encoded into the notification at either SIP Proxy **170** or at User Agent **172**. The notice displayed to the user will inform the user of whether there are multiple types of data streams and what types of data streams are in the incoming communication. Once the notification is displayed to the user of the client, the client may then decide how to
30 dispose of the incoming data streams. If the user selects one device, such as telephone **124** to send the data stream to, then the name or address of telephone

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124 will be sent back to SIP Proxy 170, which will then redirect the call to telephone 124. The user may select more than one device to send the data streams to as well. If the data stream consists of multiple data types, the user may instruct SIP Proxy 170 to send each data stream to a different type of device.

5 Furthermore, the user may instruct SIP Proxy 170 to send all of the data streams to several locations (forking) such that multiple parties may be connected (such as for a conference call) or to several locations, but have only the first to “pick up” or “answer” be connected. This last alternative might be useful if the user wished to redirect the data stream to another person, but was unsure of that person’s location
10 but did know of several possible locations of that person.

To help illustrate the present invention, consider the following example of a user’s device receiving multiple types of data streams at a single device. For example, a user might have registered their personal digital assistant as the device to which to have incoming data streams routed. The SIP Proxy 170 receives an
15 incoming data stream intended for this user and generates and routes a message to the user indicating the types of message streams and from what party. The types of message streams include audio, video (in MPEG format), text and a JPEG picture. The user of the personal digital assistant might decide to route the audio to speakers or to a telephone such as telephone 124, route the video to a desktop
20 computer such as client 120 or to a television attached to a set top box, the text routed to a printer (perhaps connected to client 120), and the JPEG picture routed to a second computer such as client 126 or to a device dedicated to generating and displaying still pictures. Thus, each of the data streams were directed to a device which was best able to utilize and present the information to the user.

25 To illustrate “forking”, consider a person receiving a data stream (perhaps a phone call, but not necessarily). The person after determining what the data stream is and/or who it is from, decides that other people within an organization should participate as well. The person would then enter several names or addresses for the SIP Proxy 170 to use to redirect the data stream. This list of
30 several names could include the user originally receiving the notification. In that way several people could participate, such as on a conference call.

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In yet another example of forking, the user could receive notification of an incoming call and determine that that call was for another person. However, the user does not know the exact location of the other person, but does know of several locations where that person might be. The user in this case would enter
5 several location names and instruct the proxy to redirect the call to each of them and connect the location which "picked up" first. In that manner the call is forwarded to the correct party even though the user receiving the notification knew no more than several possibilities of locations.

Although the present invention has been described primarily with
10 reference to presenting call notification information to the called party through means of a display, other methods are also possible. Such methods include, but are not limited to, notifying the called party of an incoming call through the use of sounds or through a voice synthesizer if the portable device supported such options. Furthermore, as another option, the portable computing device could
15 vibrate to indicate that the user had an incoming call. The use of sounds and vibrations could also be used to alert the called party of an incoming call such that they could direct their attention to a visual display which would indicate the nature and origin of the call.

Although described primarily with reference to SIP, an SIP proxy and an
20 SIP user agent, other communications initiation and routing protocols, such as H.323 Protocol, can be utilized as well. Furthermore, other text based or XML based protocols may be utilized rather than HTTP and HTML. Examples of other protocols include, but are not limited to, Voice XML (VOXML), Speech Markup Language (SML), WAP, and XHTML. In such cases the SIP user agent would be
25 replaced with a user agent which translated between the appropriate protocols.

It should be noted that although the present invention has been described with reference to utilizing a SIP proxy, a proxy of any kind is not necessary if the complete IP address of the device to which the call is to be directed is known and used. Furthermore, the SIP user agent is not necessary if all of the terminal
30 devices (e.g., portable data processing systems, personal digital assistants, phones, desk top computers, cell phones) involved in a calling process utilize SIP such that

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communications with the SIP proxy does not need to be facilitated with a translating user agent. In this case, the SIP proxy becomes the agent. Furthermore, the SIP proxy does not have to be a proxy. Any device or software which can perform the functionality of the SIP proxy will suffice, wherein the
5 primary functions performed by the SIP proxy are address lookup (determining the IP or other type address based on information received, i.e., converting john@nortel.com into an IP address) and redirecting calls.

It should also be noted that although the present invention has been described primarily with reference to voice calls, it applies to other types of
10 communication as well, including, but not limited to for example, video conferencing or text messages. For example, a portable computing device could receive a notification of an incoming video call or video message and a user could redirect that incoming video message to a laptop or desktop computer, a television, or other video display terminal such that the video could be viewed by
15 the called party. The device receiving the request could even suggest alternative destinations to redirect the call to based on the type of call (e.g. video, voice, text) the request corresponds to.

It is important to note that while the present invention has been described in the context of a fully functioning data processing system, those of ordinary skill
20 in the art will appreciate that the processes of the present invention are capable of being distributed in the form of a computer readable medium of instructions and a variety of forms and that the present invention applies equally regardless of the particular type of signal bearing media actually used to carry out the distribution. Examples of computer readable media include recordable-type media such a
25 floppy disc, a hard disk drive, a RAM, and CD-ROMs and transmission-type media such as digital and analog communications links.

The description of the present invention has been presented for purposes of illustration and description, but is not intended to be exhaustive or limited to the invention in the form disclosed. Many modifications and variations will be
30 apparent to those of ordinary skill in the art. For example, the present invention is not limited to SIP and Palm VII's. Other types of call initiation protocols other

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than SIP may be utilized. Furthermore, other types of portable devices other than Palm VII's may be utilized including, but not limited to, portable computers, laptop computers, other types of personal digital assistants (PDAs), and other handheld data processing systems. The embodiment was chosen and described in order to best explain the principles of the invention, the practical application, and to enable others of ordinary skill in the art to understand the invention for various embodiments with various modifications as are suited to the particular use contemplated.

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2 **CLAIMS:**

3 What is claimed is:

1 1. A method of redirecting a call from a data processing system to another
 2 address, comprising the steps of:
 3 receiving at a data processing system a registration notice of an incoming call
 4 from a server; and
 5 responsive to determination of a new address; transmitting a new address to
 6 which the incoming call is to be redirected.

1 2. The method as recited in claim 1, wherein said data processing system is a
 2 personal digital assistant.

1 3. The method as recited in claim 1, wherein said data processing system is a
 2 laptop computer.

1 4. The method as recited in claim 1, wherein said data processing system is a
 2 portable computing device.

1 5. The method as recited in claim 1, wherein said data processing system is a
 2 wireless device.

1 6. The method as recited in claim 1, wherein the registration notice is a session
 2 initiation protocol registration notice.

1 7. The method as recited in claim 1, wherein the incoming call comprises video
 2 and the new address corresponds to a video display terminal.

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- 1 8. The method as recited in claim 1, wherein said data processing system is a
- 2 wire-line connected device.

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- 1 9. A computer program product in computer readable media for use in a data
2 processing system for redirecting a call from a data processing system to another
3 address, the computer program product comprising:
4 first instructions for receiving at a data processing system a registration notice
5 of an incoming call from a server; and
6 second instructions, responsive to determination of a new address; for
7 transmitting a new address to which the incoming call is to be redirected.
- 1 10. The computer program product as recited in claim 9, wherein said data
2 processing system is a personal digital assistant.
- 1 11. The computer program product as recited in claim 9, wherein said data
2 processing system is a laptop computer.
- 1 12. The computer program product as recited in claim 9, wherein said data
2 processing system is a portable computing device.
- 1 13. The computer program product as recited in claim 9, wherein said data
2 processing system is a wireless device.
- 1 14. The computer program product as recited in claim 9, wherein the registration
2 notice is a session initiation protocol registration notice.
- 1 15. The computer program product as recited in claim 9, wherein the incoming
2 call comprises video and the new address corresponds to a video display terminal.
- 1 16. The computer program product as recited in claim 9, wherein said data
2 processing system is a wire-line connected device.

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- 1 17. A system of redirecting a call from a data processing system to another
2 address, comprising:
3 means for receiving at a data processing system a registration notice of an
4 incoming call from a server; and
5 means, responsive to determination of a new address; for transmitting a new
6 address to which the incoming call is to be redirected.
- 1 18. The system as recited in claim 17, wherein said data processing system is a
2 personal digital assistant.
- 1 19. The system as recited in claim 17, wherein said data processing system is a
2 laptop computer.
- 1 20. The system as recited in claim 17, wherein said data processing system is a
2 portable computing device.
- 1 21. The system as recited in claim 17, wherein said data processing system is a
2 wireless device.
- 1 22. The system as recited in claim 17, wherein the registration notice is a session
2 initiation protocol registration notice.
- 1 23. The system as recited in claim 17, wherein the incoming call comprises video
2 and the new address corresponds to a video display terminal.
- 1 24. The system as recited in claim 17, wherein said data processing system is a
2 wire-line connected device.

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- 1 25. A method for redirecting calls to a data processing system to a second
2 location; comprising the steps of:
3 sending a registration notification to a called party's preferred location; and
4 responsive to receipt of a new address from the called party, redirecting the
5 incoming call to the new address.
- 1 26. The method as recited in claim 25, further comprising:
2 prior to said sending step, receiving a request to initiate a call with a called
3 party; and
4 determining a preferred location of the called party.
- 1 27. The method as recited in claim 25, wherein the registration notification is a
2 session initiation protocol registration.
- 1 28. The method as recited in claim 25, wherein the preferred location is a personal
2 digital assistant.
- 1 29. The method as recited in claim 28, wherein the personal digital assistant is a
2 Palm VII utilizing a Palm Query Application to provide a user interface.
- 1 30. The method as recited in claim 25, wherein the new address corresponds to a
2 voice mailbox.
- 1 31. The method as recited in claim 25, wherein the new address corresponds to
2 placing the incoming call on hold.
- 1 32. The method as recited in claim 25, wherein communication with the preferred
2 device is provided utilizing a wireless application protocol.

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- 1 33. The method as recited in claim 25, wherein the new address corresponds to a
- 2 wire-line device.

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- 1 34. A computer program product in computer readable media for use in a data
2 processing system for redirecting calls to a data processing system to a second
3 location; the computer program product comprising:
4 first instructions for sending a registration notification to a called party's
5 preferred location; and
6 second instructions, responsive to receipt of a new address from the called
7 party, for redirecting the incoming call to the new address.
- 1 35. The computer program product as recited in claim 34, further comprising:
2 prior to said sending step, third instructions for receiving a request to initiate a
3 call with a called party; and
4 fourth instructions for determining a preferred location of the called party.
- 1 36. The computer program product as recited in claim 34, wherein the registration
2 notification is a session initiation protocol registration.
- 1 37. The computer program product as recited in claim 34, wherein the preferred
2 location is a personal digital assistant.
- 1 38. The computer program product as recited in claim 37, wherein the personal
2 digital assistant is a Palm VII utilizing a Palm Query Application to provide a user
3 interface.
- 1 39. The computer program product as recited in claim 34, wherein the new
2 address corresponds to a voice mailbox.
- 1 40. The computer program product as recited in claim 34, wherein the new
2 address corresponds to placing the incoming call on hold.

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1 41. The computer program product as recited in claim 34, wherein
2 communication with the preferred device is provided utilizing a wireless application
3 protocol.

1 42. The computer program product as recited in claim 34, wherein the new
2 address corresponds to a wire-line device.

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- 1 43. A system for redirecting calls to a data processing system to a second
2 location; comprising:
3 means for sending a registration notification to a called party's preferred
4 location; and
5 means; responsive to receipt of a new address from the called party, for
6 redirecting the incoming call to the new address.
- 1 44. The system as recited in claim 43, further comprising:
2 prior to said sending step, means for receiving a request to initiate a call with a
3 called party; and
4 means for determining a preferred location of the called party.
- 1 45. The system as recited in claim 43, wherein the registration notification is a
2 session initiation protocol registration.
- 1 46. The system as recited in claim 43, wherein the preferred location is a personal
2 digital assistant.
- 1 47. The system as recited in claim 46, wherein the personal digital assistant is a
2 Palm VII utilizing a Palm Query Application to provide a user interface.
- 1 48. The system as recited in claim 43, wherein the new address corresponds to a
2 voice mailbox.
- 1 49. The system as recited in claim 43, wherein the new address corresponds to
2 placing the incoming call on hold.
- 1 50. The system as recited in claim 43, wherein communication with the preferred
2 device is provided utilizing a wireless application protocol.

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- 1 51. The system as recited in claim 43, wherein the new address corresponds to a
- 2 ~~wire-line device.~~

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- 1 52. A method in a communications system for processing a call, the method
- 2 comprising:
- 3 receiving at a mobile data processing system a call for a user;
- 4 sending a first request to setup the call to the mobile data processing system
- 5 associated with a user, wherein the mobile data processing system has a wireless
- 6 communications capability;
- 7 receiving a response to the request, wherein the response includes an address
- 8 for the call; and
- 9 sending a second request to setup the call to the user using the address.

- 1 53. The method as recited in claim 52, wherein the data processing system is a
- 2 personal digital assistant.

- 1 54. The method as recited in claim 52, wherein the personal digital assistant is a
- 2 Palm VII.

- 1 55. The method as recited in claim 52, wherein the request and the response are
- 2 session initiation protocol messages.

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- 1 56. A method for processing a call at a data processing system the method
2 comprising:
3 receiving a request to establish a call;
4 presenting caller information at the data processing system; and
5 responsive to an identification of an address for the call, returning a response
6 including the address.
- 1 57. The method as recited in claim 56, wherein the step of presenting caller
2 information comprises displaying the caller information.
- 1 58. The method as recited in claim 56, wherein the step of presenting caller
2 information comprises presenting the caller information audibly.
- 1 59. The method as recited in claim 56, wherein the request and the response are
2 session initiation protocol messages.
- 1 60. The method as recited in claim 56, wherein the data processing system is a
2 wireless device.
- 1 61. The method as recited in claim 56, wherein the step of presenting caller
2 information comprises a vibrating alert.
- 1 62. The method as recited in claim 56, wherein the data processing system is a
2 two-way pager.

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63. A communications network for redirecting communications; comprising:
a proxy server for performing address lookup and directing calls;
a user agent functionally connected to the aid proxy server to provide protocol
translation between a protocol recognized by the proxy server and a protocol
5 recognized by a terminal unit and to provide a communication link between the proxy
server and the terminal unit; wherein
the proxy server, responsive to an indication from the terminal unit to redirect
a call, redirects calls to a new location.
64. The network as recited in claim 63, wherein the proxy server is a session
10 initiation protocol proxy server and the user agent is a session initiation protocol user
agent for translating between session initiation protocol and a second protocol.
65. The network as recited in claim 64, wherein the second protocol is HTML.

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66. A method for initiating calls, comprising the steps of:
receiving registration notice of an incoming call, wherein said registration
notice is formatted in a first protocol;
translating said registration notice from the first protocol into a second
5 protocol; and
transmitting a modified registration notice to a terminating device; wherein
the modified registration notice is formatted in the second protocol.
67. The method as recited in claim 66, further comprising:
receiving a location data with which to redirect the incoming call from the
10 terminating device; wherein the location data is formatted in the second protocol; and
translating the location data to a second location data; and
transmitting the second location data, wherein the second location data is
formatted in the second protocol.
68. The method as recited in claim 66, wherein the first protocol is a session
15 initiation protocol.
69. The method as recited in claim 66, wherein the second protocol is a hypertext
markup language.

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ABSTRACT OF THE DISCLOSURE

PORTABLE CALL MANAGEMENT SYSTEM

5 A method of redirecting a call from a data processing system to another
address. In a preferred embodiment, a notice of an incoming call received from a
server at a data processing system. This notice may include caller identification
information as well. The user of the data processing system is prompted for an
address to which the user wishes the call to be redirected. The user then identifies
10 and sends to the server a new address to which the incoming call is to be redirected.
The server then redirects the call to the new address.

**DECLARATION AND POWER OF ATTORNEY FOR
PATENT APPLICATION**

As below named inventor, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my name;

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled as set forth below, which is described in the specification of which: (check one)

was filed on October 15, 1999, under Attorney's Docket Number 11032RR as Application No. 09/419,175

PORTABLE CALL MANAGEMENT SYSTEM

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 CFR 1.56.

I hereby claim the benefit under Title 35 United States Code section 120 of the provisional application filed under 111b of this title as listed below:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

John D. Crane, Reg. No. 25,231;
Christopher O. Edwards, Reg. No. 36,127; Robert C. Klinger, Reg. No. 34,365;
James A. Harrison, Reg. No. 40,401; W. Glen Johnson, Reg. No. 39,525; Duke W. Yee, Reg. No. 34,285;
Rudolph J. Buchel, Reg. No. 43,448, Joseph R. Burwell, Reg. No. 44,468, Stephen R. Loe, Reg. No. 43,757.

Send correspondence to John D. Crane, Nortel Networks Corporation, Patent Department; P.O. Box 833858, Mail Stop 468/05/B10; Richardson, Texas 75083-3858 and direct all telephone calls to John D. Crane, telephone: (972) 695-8442.

=====

(1) FULL NAME OF INVENTOR: **Gregory T. Osterhout**

INVENTOR'S SIGNATURE: _____

DATE:

RESIDENCE: 313 Falcon Court, Coppell, TX 75019

COUNTY: Dallas

CITIZENSHIP: United States

POST OFFICE ADDRESS: Same As Above

(2) FULL NAME OF INVENTOR: **Kim B. Holmes**

INVENTOR'S SIGNATURE: 

DATE: 11/17/99.

RESIDENCE: 5409 Scenic Drive, Rowlett, TX 75088

COUNTY: Rockwall

CITIZENSHIP: Canada

POST OFFICE ADDRESS: Same As Above

(3) FULL NAME OF INVENTOR: Mark Sosebee

INVENTOR'S SIGNATURE: Mark Sosebee

DATE: 11/17/99

RESIDENCE: 920 Goodwin Drive, Plano, TX 75023

COUNTY: Collin

CITIZENSHIP: United States

POST OFFICE ADDRESS: Same As Above

1032RR-071992

Docket Number: 11032RR
Page 1 of 3

**DECLARATION AND POWER OF ATTORNEY FOR
PATENT APPLICATION**

As below named inventor, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my name;

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled as set forth below, which is described in the specification of which: (check one)

filed herewith under Attorney's Docket Number 11032RR

PORTABLE CALL MANAGEMENT SYSTEM

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 CFR 1.56.

I hereby claim the benefit under Title 35 United States Code section 120 of the provisional application filed under 111b of this title as listed below:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine of imprisonment, or both, under 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

10119797-071902

Docket Number: **11032RR**
Page 2 of 3

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

John D. Crane, Reg. No. 25,231;
Christopher O. Edwards, Reg. No. 36,127; Robert C. Klinger, Reg. No. 34,365;
James A. Harrison, Reg. No. 40,401; W. Glen Johnson, Reg. No. 39,525; Duke W. Yee, Reg. No. 34,286;
Rudolph J. Buchel, Reg. No. 43,448. Joseph R. Burwell, Reg. No. 44,468, Stephen R. Loe, Reg. No. 43,757.

Send correspondence to John D. Crane, Nortel Networks Corporation, Patent Department; P.O. Box 833858, Mail Stop 488/05/B10; Richardson, Texas 75083-3858 and direct all telephone calls to John D. Crane, telephone: (972) 695-8442.

=====

(1) FULL NAME OF INVENTOR: Gregory T. Osterhout

INVENTOR'S SIGNATURE: Gregory T. Osterhout

DATE: 10/15/99

RESIDENCE: 313 Falcon Court, Coppell, TX 75019

COUNTY: Dallas

CITIZENSHIP: United States

POST OFFICE ADDRESS: Same As Above

(2) FULL NAME OF INVENTOR: Kim B. Holmes

INVENTOR'S SIGNATURE: _____

DATE:

RESIDENCE: 5409 Scenic Drive, Rowlett, TX 75088

COUNTY: Dallas

CITIZENSHIP: Canada

POST OFFICE ADDRESS: Same As Above

(3) FULL NAME OF INVENTOR: Mark Sosebee

INVENTOR'S SIGNATURE: _____

DATE:

RESIDENCE: 920 Goodwin Drive, Plano, TX 75023

COUNTY: Collin

CITIZENSHIP: United States

POST OFFICE ADDRESS: Same As Above



Commissioner for Patents
Washington, DC 20231
www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 1786

SERIAL NUMBER 10/199,797	FILING DATE 07/19/2002 RULE	CLASS 455	GROUP ART UNIT 2684 2685	ATTORNEY DOCKET NO. 11032RRUS04D
APPLICANTS Gregory T. Osterhout, Coppell, TX; Kim B. Holmes, Rowlett, TX; Mark Sosebee, Plano, TX;				
** CONTINUING DATA ***** This application is a DIV of 09/419,175 10/15/1999				
** FOREIGN APPLICATIONS ***** <i>No / 8/02</i>				
IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 09/03/2002				
Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	35 USC 119 (a-d) conditions met <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance	STATE OR COUNTRY TX	SHEETS DRAWING 10	TOTAL CLAIMS 24
Verified and Acknowledged Examiner's Signature: <i>[Signature]</i> Initials: <i>[Initials]</i>				INDEPENDENT CLAIMS 4
ADDRESS 021498				
TITLE Portable call management system				
FILING FEE RECEIVED 896	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit	

PATENT APPLICATION SERIAL NO. _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

07/25/2002 EHAILE1 0000064 500392 10199797

01 FC:101		740.00 OP
02 FC:102	84.00 CH	
03 FC:103	72.00 CH	

PTO-1556
(5/87)

PATENT APPLICATION FEE DETERMINATION RECORD
Effective October 1, 2001

Application or Docket Number
11032 R R V S O 4 D

CLAIMS AS FILED - PART I

	(Column 1)	(Column 2)
TOTAL CLAIMS	<i>24</i>	
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	<i>24</i> minus 20 =	* <i>4</i>
INDEPENDENT CLAIMS	<i>4</i> minus 3 =	* <i>1</i>
MULTIPLE DEPENDENT CLAIM PRESENT <input type="checkbox"/>		

* If the difference in column 1 is less than zero, enter "0" in column 2

SMALL ENTITY TYPE OR

OTHER THAN SMALL ENTITY

RATE	FEE	OR	RATE	FEE
BASIC FEE	370.00	OR	BASIC FEE	740.00
X\$ 9=		OR	X\$18=	<i>72</i>
X42=		OR	X84=	<i>84</i>
+140=		OR	+280=	
TOTAL		OR	TOTAL	<i>896</i>

CLAIMS AS AMENDED - PART II

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total	* <i>24</i> Minus ** <i>24</i>	=
	Independent	* <i>4</i> Minus *** <i>4</i>	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

SMALL ENTITY OR **OTHER THAN SMALL ENTITY**

RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
X\$ 9=		OR	X\$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total	* <i>15</i> Minus ** <i>24</i>	= <i>0</i>
	Independent	* <i>3</i> Minus *** <i>4</i>	= <i>0</i>
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
X\$ 9=		OR	X\$18=	<i>0</i>
X42=		OR	X84=	<i>0</i>
+140=		OR	+280=	<i>0</i>
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	<i>0</i>

	(Column 1)	(Column 2)	(Column 3)
AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total	* <i>15</i> Minus ** <i>24</i>	=
	Independent	* <i>3</i> Minus *** <i>4</i>	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM <input type="checkbox"/>			

RATE	ADDITIONAL FEE	OR	RATE	ADDITIONAL FEE
X\$ 9=		OR	X\$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
 ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."
 *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."
 The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

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CLAIMS ONLY

SERIAL NO. 10199797

FILING DATE

APPLICANT(S)

CLAIMS

	AS FILED		AFTER 1st AMENDMENT		AFTER 2nd AMENDMENT		*		*		*	
	IND.	DEP.	IND.	DEP.	IND.	DEP.	IND.	DEP.	IND.	DEP.	IND.	DEP.
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TOTAL IND.												
TOTAL DEP.												
TOTAL CLAIMS												

* MAY BE USED FOR ADDITIONAL CLAIMS OR AMENDMENTS

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

FORM PTO-6022 (1-95)

U.S. Government Printing Office: 1998 - 453-214/70303

Best Available Copy

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50
10/8/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Osterhout et al.**

§

Serial No.: **Not Assigned**

§

Group Art Unit: **2684**

§

Filed: **July 19, 2002**

§

Examiner: **Nguyen, Thuan T.**

§

For: **Portable Call Management System**

§

Attorney Docket No.: **11032RRUS04D**

§

1c715 U.S. PTO
10/199797
07/19/02

Certificate of Mailing Under 37 C.F.R. § 1.8(a)
I hereby certify this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231 on July 19, 2002.
By: Krista Douthitt
Krista Douthitt

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97

Hon. Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

Applicants request that the information listed on the attached Form PTO-1449 be considered by the Office during the pendency of the above entitled application, pursuant to 37 C.F.R. 1.97.

Please charge any fees necessary for prosecution of the present application to Deposit Account No. 50-0392. If any extension of time is required, such extension is hereby requested. Please charge any additional required fee for extension of time to Deposit Account No. 50-0392.


In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not constitute an admission that any information cited therein is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b). In the interest of full and complete disclosure to the Office, some or all of the art cited herein may not be considered by Applicant(s) or the Undersigned to be material under the new standards of materiality defined in 37 C.F.R. 1.56(b),

enacted March 16, 1992, but may be material under the old standard of materiality defined in 37 C.F.R. 1.56(a), last amended on November 28, 1988, or may merely be technical background which may be of interest to the Examiner. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) within three months of the filing date of the application, or before the mailing date of a first office action on the merits. No fee is required.

Respectfully submitted,

Date: 7/19/02



Duke W. Yee
Reg. No. 34,285
Carstens, Yee & Cahoon, LLP
P.O. Box 802334
Dallas, Texas 75380
(972) 367-2001
Attorney for Applicants

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#5/A
LB
10/18/02

In re application of: **Osterhout et al.**

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Group Art Unit: **2684**

Serial No.: **Not Assigned**

Examiner: **Nguyen, Thuan T.**

Filed: **July 19, 2002**

Attorney Docket No.: **11032RRUS04D**

For: **Portable Call Management System**

Certificate of Mailing Under 37 C.F.R. § 1.8(a)

I hereby certify this correspondence is being deposited with the United States Postal Service as Express mail in an envelope addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231 on July 19, 2002.

By: *Krista Douthitt*
Krista Douthitt

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

No fees are believed to be necessary. If, however, any fees are required, I authorize the Commissioner to charge these fees to Deposit Account No. 50-0392. No extension of time is believed to be necessary. If, however, an extension of time is necessary, the extension is requested and I authorize the Commissioner to charge the necessary extension fees to Deposit Account No. 50-0392.

Prior to examination of this application, please amend the above-identified application as follows:

IN THE SPECIFICATION:

On page one, before the **BACKGROUND OF THE INVENTION**, please insert the following paragraph:

A 1

This application is a divisional of application number 09/419,175,
filed October 15, 1999, status pending.

IN THE CLAIMS:

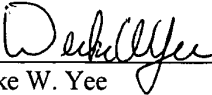
Please cancel claims 1-42 and 63-65.

REMARKS

Claims 1-42 and 63-65 have been canceled. Claims 52-62 and 66-69 remain in the application. These claims are believed to be in condition for allowance. The examiner is invited to call the undersigned at the below-listed telephone number if in the opinion of the examiner such a telephone conference would expedite or aid the prosecution and examination of this application.

Date: July 19, 2002

Respectfully submitted,



Duke W. Yee
Registration No. 34,285
CARSTENS YEE & CAHOON, LLP
P.O. Box 802334
Dallas, Texas 75380
(972) 367-2001
ATTORNEY FOR APPLICANT