

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3100268

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PANASONIC CORPORATION	11/10/2014
RECEIVING PARTY DATA	
Name:	PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.
Street Address:	1-61, SHIROMI 2-CHOME, CHUO-KU, OSAKA-SHI
City:	OSAKA
State/Country:	JAPAN
Postal Code:	540-6207
PROPERTY NUMBERS Total: 3804	
Property Type	Number
Application Number:	08249157
Application Number:	09831830
Application Number:	09843962
Application Number:	09959429
Application Number:	10002621
Application Number:	10048546
Application Number:	10088468
Application Number:	10173316
Application Number:	10238814
Application Number:	10473534
Application Number:	10515175
Application Number:	10544876
Application Number:	10552920
Application Number:	10553385
Application Number:	10561706
Application Number:	10571846
Application Number:	10573211
Application Number:	10578443
Application Number:	10580177
Application Number:	10585729
Application Number:	10585846

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Property Type	Number
Application Number:	10585947
Application Number:	10586173
Application Number:	10586598
Application Number:	10588537
Application Number:	10593561
Application Number:	10910748
Application Number:	11315189
Application Number:	11356112
Application Number:	11371286
Application Number:	11393426
Application Number:	11473327
Application Number:	11473334
Application Number:	11510668
Application Number:	11513234
Application Number:	11566997
Application Number:	11567036
Application Number:	11567076
Application Number:	11568073
Application Number:	11574177
Application Number:	11577733
Application Number:	11579168
Application Number:	11596925
Application Number:	11612607
Application Number:	11633065
Application Number:	11660327
Application Number:	11675942
Application Number:	11713099
Application Number:	11722721
Application Number:	11751190
Application Number:	11793826
Application Number:	11795265
Application Number:	11813872
Application Number:	11814346
Application Number:	11817522
Application Number:	11817594
Application Number:	11884382
Application Number:	11884386
Application Number:	11909038
Application Number:	11911697

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Property Type	Number
Application Number:	11917247
Application Number:	11919236
Application Number:	11995600
Application Number:	11996698
Application Number:	11996804
Application Number:	11997389
Application Number:	12064799
Application Number:	12064911
Application Number:	12085371
Application Number:	12088765
Application Number:	12089498
Application Number:	12090214
Application Number:	12090704
Application Number:	12092757
Application Number:	12093271
Application Number:	12094095
Application Number:	12095422
Application Number:	12095818
Application Number:	12096278
Application Number:	12096941
Application Number:	12097198
Application Number:	12097821
Application Number:	12100535
Application Number:	12135157
Application Number:	12144908
Application Number:	12159458
Application Number:	12160237
Application Number:	12161746
Application Number:	12162636
Application Number:	12175878
Application Number:	12182200
Application Number:	12232202
Application Number:	12239186
Application Number:	12255981
Application Number:	12261362
Application Number:	12274957
Application Number:	12278360
Application Number:	12295041
Application Number:	12300603

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REEL. 034194 FRAME. 0145

Property Type	Number
Application Number:	12301264
Application Number:	12301630
Application Number:	12301870
Application Number:	12302940
Application Number:	12305093
Application Number:	12305758
Application Number:	12306854
Application Number:	12307032
Application Number:	12307182
Application Number:	12365344
Application Number:	12370027
Application Number:	12374671
Application Number:	12374725
Application Number:	12376844
Application Number:	12395903
Application Number:	12396677
Application Number:	12400192
Application Number:	12429787
Application Number:	12438219
Application Number:	12438996
Application Number:	12439280
Application Number:	12439602
Application Number:	12443534
Application Number:	12444055
Application Number:	12444832
Application Number:	12446811
Application Number:	12461176
Application Number:	12491994
Application Number:	12492013
Application Number:	12496681
Application Number:	12496757
Application Number:	12501894
Application Number:	12503369
Application Number:	12504806
Application Number:	12507408
Application Number:	12508207
Application Number:	12513145
Application Number:	12513797
Application Number:	12513909

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REEL. 034194 FRAME. 0146

Property Type	Number
Application Number:	12514343
Application Number:	12515622
Application Number:	12517135
Application Number:	12517311
Application Number:	12517460
Application Number:	12519006
Application Number:	12519586
Application Number:	12519645
Application Number:	12521820
Application Number:	12521957
Application Number:	12522271
Application Number:	12522869
Application Number:	12523201
Application Number:	12524604
Application Number:	12524656
Application Number:	12526510
Application Number:	12529094
Application Number:	12529146
Application Number:	12529894
Application Number:	12532552
Application Number:	12544521
Application Number:	12544535
Application Number:	12547588
Application Number:	12557859
Application Number:	12557905
Application Number:	12557966
Application Number:	12558012
Application Number:	12566989
Application Number:	12568347
Application Number:	12574252
Application Number:	12580890
Application Number:	12594246
Application Number:	12594385
Application Number:	12594454
Application Number:	12596762
Application Number:	12599727
Application Number:	12601349
Application Number:	12602017
Application Number:	12602325

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Property Type	Number
Application Number:	12602934
Application Number:	12604213
Application Number:	12604238
Application Number:	12605750
Application Number:	12606594
Application Number:	12623716
Application Number:	12631051
Application Number:	12641732
Application Number:	12649447
Application Number:	12657000
Application Number:	12663401
Application Number:	12664265
Application Number:	12666198
Application Number:	12669591
Application Number:	12671358
Application Number:	12671766
Application Number:	12672373
Application Number:	12673408
Application Number:	12673870
Application Number:	12675856
Application Number:	12675871
Application Number:	12676403
Application Number:	12677379
Application Number:	12677977
Application Number:	12679412
Application Number:	12679773
Application Number:	12680764
Application Number:	12680817
Application Number:	12681004
Application Number:	12681445
Application Number:	12681500
Application Number:	12685069
Application Number:	12693688
Application Number:	12693724
Application Number:	12695088
Application Number:	12701682
Application Number:	12708132
Application Number:	12709192
Application Number:	12710610

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REEL. 034194 FRAME. 0148

Property Type	Number
Application Number:	12736318
Application Number:	12738656
Application Number:	12739299
Application Number:	12739980
Application Number:	12740401
Application Number:	12741400
Application Number:	12744437
Application Number:	12745391
Application Number:	12747808
Application Number:	12767528
Application Number:	12767540
Application Number:	12789977
Application Number:	12801228
Application Number:	12808287
Application Number:	12810075
Application Number:	12812313
Application Number:	12814734
Application Number:	12853351
Application Number:	12853807
Application Number:	12860586
Application Number:	12863202
Application Number:	12863259
Application Number:	12863546
Application Number:	12863736
Application Number:	12865799
Application Number:	12866785
Application Number:	12866928
Application Number:	12869250
Application Number:	12878168
Application Number:	12882959
Application Number:	12892095
Application Number:	12903592
Application Number:	12907323
Application Number:	12917192
Application Number:	12918618
Application Number:	12918957
Application Number:	12919174
Application Number:	12919884
Application Number:	12919886

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REEL. 034194 FRAME. 0149

Property Type	Number
Application Number:	12921321
Application Number:	12921368
Application Number:	12921667
Application Number:	12922977
Application Number:	12933064
Application Number:	12935120
Application Number:	12935189
Application Number:	12936588
Application Number:	12936960
Application Number:	12937756
Application Number:	12951188
Application Number:	12952573
Application Number:	12955016
Application Number:	12959513
Application Number:	12971150
Application Number:	12975605
Application Number:	12976307
Application Number:	12979790
Application Number:	12983039
Application Number:	12983973
Application Number:	12989780
Application Number:	12992240
Application Number:	12992245
Application Number:	12992703
Application Number:	12992976
Application Number:	12993889
Application Number:	12994188
Application Number:	12994741
Application Number:	12994743
Application Number:	12997085
Application Number:	12998019
Application Number:	12999107
Application Number:	13000177
Application Number:	13000500
Application Number:	13000682
Application Number:	13000755
Application Number:	13000784
Application Number:	13001626
Application Number:	13002691

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REEL. 034194 FRAME. 0150

Property Type	Number
Application Number:	13003391
Application Number:	13003673
Application Number:	13003996
Application Number:	13009217
Application Number:	13009226
Application Number:	13016049
Application Number:	13019426
Application Number:	13024074
Application Number:	13025666
Application Number:	13026681
Application Number:	13031679
Application Number:	13033677
Application Number:	13034882
Application Number:	13036871
Application Number:	13037479
Application Number:	13037683
Application Number:	13038075
Application Number:	13038824
Application Number:	13044061
Application Number:	13049138
Application Number:	13049369
Application Number:	13050272
Application Number:	13054946
Application Number:	13055315
Application Number:	13055954
Application Number:	13056033
Application Number:	13056143
Application Number:	13056702
Application Number:	13057081
Application Number:	13057610
Application Number:	13057663
Application Number:	13059284
Application Number:	13059785
Application Number:	13060609
Application Number:	13061762
Application Number:	13062050
Application Number:	13062302
Application Number:	13062361
Application Number:	13062405

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REEL. 034194 FRAME. 0151

Property Type	Number
Application Number:	13062440
Application Number:	13062774
Application Number:	13071263
Application Number:	13073335
Application Number:	13075265
Application Number:	13075560
Application Number:	13082371
Application Number:	13082415
Application Number:	13083127
Application Number:	13085560
Application Number:	13085806
Application Number:	13089315
Application Number:	13110664
Application Number:	13110961
Application Number:	13117145
Application Number:	13119117
Application Number:	13119535
Application Number:	13119640
Application Number:	13119908
Application Number:	13120284
Application Number:	13121991
Application Number:	13123339
Application Number:	13123788
Application Number:	13124158
Application Number:	13124580
Application Number:	13124720
Application Number:	13124926
Application Number:	13125108
Application Number:	13126591
Application Number:	13128503
Application Number:	13130068
Application Number:	13130877
Application Number:	13131755
Application Number:	13132023
Application Number:	13132219
Application Number:	13133037
Application Number:	13133766
Application Number:	13139106
Application Number:	13139115

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REEL. 034194 FRAME. 0152

Property Type	Number
Application Number:	13140391
Application Number:	13140889
Application Number:	13142003
Application Number:	13142135
Application Number:	13142205
Application Number:	13142460
Application Number:	13142525
Application Number:	13143099
Application Number:	13143273
Application Number:	13143570
Application Number:	13143882
Application Number:	13144181
Application Number:	13144183
Application Number:	13144842
Application Number:	13145006
Application Number:	13145686
Application Number:	13145941
Application Number:	13146300
Application Number:	13146499
Application Number:	13147539
Application Number:	13147743
Application Number:	13147998
Application Number:	13148111
Application Number:	13148229
Application Number:	13164011
Application Number:	13165437
Application Number:	13166025
Application Number:	13166822
Application Number:	13170355
Application Number:	13170441
Application Number:	13170517
Application Number:	13171205
Application Number:	13181805
Application Number:	13183072
Application Number:	13186075
Application Number:	13191156
Application Number:	13192818
Application Number:	13193962
Application Number:	13194010

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REEL. 034194 FRAME. 0153

Property Type	Number
Application Number:	13201015
Application Number:	13201176
Application Number:	13201180
Application Number:	13201890
Application Number:	13202174
Application Number:	13202539
Application Number:	13202740
Application Number:	13202899
Application Number:	13202942
Application Number:	13203477
Application Number:	13203733
Application Number:	13203776
Application Number:	13203778
Application Number:	13203808
Application Number:	13203841
Application Number:	13203893
Application Number:	13204096
Application Number:	13209678
Application Number:	13213136
Application Number:	13215165
Application Number:	13216826
Application Number:	13220079
Application Number:	13222657
Application Number:	13224452
Application Number:	13224632
Application Number:	13227663
Application Number:	13233063
Application Number:	13234450
Application Number:	13234867
Application Number:	13237226
Application Number:	13239905
Application Number:	13240043
Application Number:	13242596
Application Number:	13246503
Application Number:	13251383
Application Number:	13253591
Application Number:	13254021
Application Number:	13254114
Application Number:	13254244

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REEL. 034194 FRAME. 0154

Property Type	Number
Application Number:	13254311
Application Number:	13254388
Application Number:	13254433
Application Number:	13254506
Application Number:	13254906
Application Number:	13254911
Application Number:	13254954
Application Number:	13255267
Application Number:	13255378
Application Number:	13255386
Application Number:	13255388
Application Number:	13255393
Application Number:	13256154
Application Number:	13256527
Application Number:	13257205
Application Number:	13257210
Application Number:	13257636
Application Number:	13257783
Application Number:	13257805
Application Number:	13258128
Application Number:	13258171
Application Number:	13258402
Application Number:	13258598
Application Number:	13258978
Application Number:	13259022
Application Number:	13259119
Application Number:	13259411
Application Number:	13259531
Application Number:	13260434
Application Number:	13260444
Application Number:	13260738
Application Number:	13260844
Application Number:	13260898
Application Number:	13262131
Application Number:	13262669
Application Number:	13262744
Application Number:	13262775
Application Number:	13262999
Application Number:	13263013

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REEL. 034194 FRAME. 0155

Property Type	Number
Application Number:	13263355
Application Number:	13264019
Application Number:	13264061
Application Number:	13264128
Application Number:	13264466
Application Number:	13264689
Application Number:	13265298
Application Number:	13265763
Application Number:	13265821
Application Number:	13265951
Application Number:	13266271
Application Number:	13266335
Application Number:	13266749
Application Number:	13266867
Application Number:	13266956
Application Number:	13267090
Application Number:	13269671
Application Number:	13271405
Application Number:	13272925
Application Number:	13274039
Application Number:	13277468
Application Number:	13277598
Application Number:	13280393
Application Number:	13280764
Application Number:	13280944
Application Number:	13283942
Application Number:	13286291
Application Number:	13296706
Application Number:	13299737
Application Number:	13301229
Application Number:	13301484
Application Number:	13304789
Application Number:	13305775
Application Number:	13305916
Application Number:	13308893
Application Number:	13311744
Application Number:	13314902
Application Number:	13314971
Application Number:	13318648

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REEL. 034194 FRAME. 0156

Property Type	Number
Application Number:	13318930
Application Number:	13319188
Application Number:	13319348
Application Number:	13319406
Application Number:	13319595
Application Number:	13319622
Application Number:	13320147
Application Number:	13320413
Application Number:	13320464
Application Number:	13320626
Application Number:	13320964
Application Number:	13321127
Application Number:	13321502
Application Number:	13321639
Application Number:	13321930
Application Number:	13322109
Application Number:	13322288
Application Number:	13322488
Application Number:	13322608
Application Number:	13322659
Application Number:	13322878
Application Number:	13322953
Application Number:	13329457
Application Number:	13329680
Application Number:	13331701
Application Number:	13335260
Application Number:	13337326
Application Number:	13340250
Application Number:	13346795
Application Number:	13349574
Application Number:	13352457
Application Number:	13354399
Application Number:	13354905
Application Number:	13355796
Application Number:	13355865
Application Number:	13355920
Application Number:	13358300
Application Number:	13358459
Application Number:	13361648

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REEL. 034194 FRAME. 0157

Property Type	Number
Application Number:	13363335
Application Number:	13365637
Application Number:	13365858
Application Number:	13366417
Application Number:	13367921
Application Number:	13368722
Application Number:	13371009
Application Number:	13371032
Application Number:	13371730
Application Number:	13372711
Application Number:	13375086
Application Number:	13375265
Application Number:	13375672
Application Number:	13375929
Application Number:	13376369
Application Number:	13376538
Application Number:	13376779
Application Number:	13377332
Application Number:	13377596
Application Number:	13378138
Application Number:	13378475
Application Number:	13378609
Application Number:	13378843
Application Number:	13378863
Application Number:	13378979
Application Number:	13379282
Application Number:	13379358
Application Number:	13379442
Application Number:	13379477
Application Number:	13379587
Application Number:	13379818
Application Number:	13379983
Application Number:	13380153
Application Number:	13380230
Application Number:	13380907
Application Number:	13381168
Application Number:	13381223
Application Number:	13381492
Application Number:	13381858

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REEL. 034194 FRAME. 0158

Property Type	Number
Application Number:	13381861
Application Number:	13382083
Application Number:	13382260
Application Number:	13382318
Application Number:	13382321
Application Number:	13382385
Application Number:	13382410
Application Number:	13382760
Application Number:	13383073
Application Number:	13383370
Application Number:	13383694
Application Number:	13383726
Application Number:	13383791
Application Number:	13384239
Application Number:	13384502
Application Number:	13384684
Application Number:	13384928
Application Number:	13386269
Application Number:	13386939
Application Number:	13386951
Application Number:	13386957
Application Number:	13387136
Application Number:	13387198
Application Number:	13387548
Application Number:	13387818
Application Number:	13388180
Application Number:	13388344
Application Number:	13388494
Application Number:	13388533
Application Number:	13388825
Application Number:	13389377
Application Number:	13389390
Application Number:	13389535
Application Number:	13389555
Application Number:	13389915
Application Number:	13390246
Application Number:	13390287
Application Number:	13390663
Application Number:	13390720

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REEL. 034194 FRAME. 0159

Property Type	Number
Application Number:	13390805
Application Number:	13391061
Application Number:	13391089
Application Number:	13391416
Application Number:	13392183
Application Number:	13392219
Application Number:	13392248
Application Number:	13392352
Application Number:	13392555
Application Number:	13392683
Application Number:	13392708
Application Number:	13392898
Application Number:	13392956
Application Number:	13392992
Application Number:	13393107
Application Number:	13393349
Application Number:	13393483
Application Number:	13393489
Application Number:	13393516
Application Number:	13393607
Application Number:	13393617
Application Number:	13393707
Application Number:	13393868
Application Number:	13393870
Application Number:	13393932
Application Number:	13393955
Application Number:	13394175
Application Number:	13394205
Application Number:	13394272
Application Number:	13394280
Application Number:	13394365
Application Number:	13394366
Application Number:	13394668
Application Number:	13394943
Application Number:	13395200
Application Number:	13395280
Application Number:	13395387
Application Number:	13395452
Application Number:	13395585

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REEL. 034194 FRAME. 0160

Property Type	Number
Application Number:	13395593
Application Number:	13395842
Application Number:	13395985
Application Number:	13396693
Application Number:	13396833
Application Number:	13397675
Application Number:	13397677
Application Number:	13397965
Application Number:	13398023
Application Number:	13398089
Application Number:	13398138
Application Number:	13399004
Application Number:	13400779
Application Number:	13400806
Application Number:	13406964
Application Number:	13408091
Application Number:	13408241
Application Number:	13409794
Application Number:	13410313
Application Number:	13412618
Application Number:	13413673
Application Number:	13413675
Application Number:	13414724
Application Number:	13416072
Application Number:	13419735
Application Number:	13419974
Application Number:	13420611
Application Number:	13425442
Application Number:	13426325
Application Number:	13426671
Application Number:	13426807
Application Number:	13431299
Application Number:	13433365
Application Number:	13433800
Application Number:	13434138
Application Number:	13434369
Application Number:	13434853
Application Number:	13435314
Application Number:	13435454

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REEL. 034194 FRAME. 0161

Property Type	Number
Application Number:	13440998
Application Number:	13443563
Application Number:	13444131
Application Number:	13444147
Application Number:	13444923
Application Number:	13444978
Application Number:	13445762
Application Number:	13448457
Application Number:	13449597
Application Number:	13450155
Application Number:	13451319
Application Number:	13452059
Application Number:	13453045
Application Number:	13454222
Application Number:	13455138
Application Number:	13456672
Application Number:	13457040
Application Number:	13457585
Application Number:	13459493
Application Number:	13460141
Application Number:	13465171
Application Number:	13465183
Application Number:	13466759
Application Number:	13467958
Application Number:	13468650
Application Number:	13471585
Application Number:	13472656
Application Number:	13472787
Application Number:	13473024
Application Number:	13475561
Application Number:	13477352
Application Number:	13477803
Application Number:	13477844
Application Number:	13478079
Application Number:	13478282
Application Number:	13480478
Application Number:	13482188
Application Number:	13484424
Application Number:	13487505

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REEL. 034194 FRAME. 0162

Property Type	Number
Application Number:	13493547
Application Number:	13495060
Application Number:	13495861
Application Number:	13496045
Application Number:	13496167
Application Number:	13496280
Application Number:	13496283
Application Number:	13496341
Application Number:	13496348
Application Number:	13496376
Application Number:	13496516
Application Number:	13496775
Application Number:	13496907
Application Number:	13497431
Application Number:	13497462
Application Number:	13497620
Application Number:	13497730
Application Number:	13497752
Application Number:	13498210
Application Number:	13498331
Application Number:	13498452
Application Number:	13498462
Application Number:	13498472
Application Number:	13498516
Application Number:	13498685
Application Number:	13498692
Application Number:	13498734
Application Number:	13498735
Application Number:	13498755
Application Number:	13498791
Application Number:	13498958
Application Number:	13499258
Application Number:	13499298
Application Number:	13499371
Application Number:	13499555
Application Number:	13499564
Application Number:	13499578
Application Number:	13499791
Application Number:	13499852

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REEL. 034194 FRAME. 0163

Property Type	Number
Application Number:	13500120
Application Number:	13500147
Application Number:	13500230
Application Number:	13500387
Application Number:	13500458
Application Number:	13500732
Application Number:	13500984
Application Number:	13501624
Application Number:	13502073
Application Number:	13502308
Application Number:	13502626
Application Number:	13503059
Application Number:	13503066
Application Number:	13503217
Application Number:	13503434
Application Number:	13503606
Application Number:	13503695
Application Number:	13503763
Application Number:	13503972
Application Number:	13504095
Application Number:	13504131
Application Number:	13504217
Application Number:	13504316
Application Number:	13504362
Application Number:	13504372
Application Number:	13504668
Application Number:	13504859
Application Number:	13504862
Application Number:	13505200
Application Number:	13505303
Application Number:	13505339
Application Number:	13505353
Application Number:	13505554
Application Number:	13505619
Application Number:	13505775
Application Number:	13505846
Application Number:	13505875
Application Number:	13508122
Application Number:	13508173

PATENT

REEL. 034194 FRAME. 0164

Property Type	Number
Application Number:	13508413
Application Number:	13508521
Application Number:	13508926
Application Number:	13510876
Application Number:	13511024
Application Number:	13511029
Application Number:	13511178
Application Number:	13511228
Application Number:	13511290
Application Number:	13511437
Application Number:	13511466
Application Number:	13512175
Application Number:	13512499
Application Number:	13512531
Application Number:	13512806
Application Number:	13512955
Application Number:	13512994
Application Number:	13513923
Application Number:	13514098
Application Number:	13514131
Application Number:	13514157
Application Number:	13514318
Application Number:	13514470
Application Number:	13514542
Application Number:	13514566
Application Number:	13514631
Application Number:	13514658
Application Number:	13515076
Application Number:	13515165
Application Number:	13515232
Application Number:	13515293
Application Number:	13515384
Application Number:	13515672
Application Number:	13516408
Application Number:	13516766
Application Number:	13516843
Application Number:	13516869
Application Number:	13517066
Application Number:	13517085

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REEL. 034194 FRAME. 0165

Property Type	Number
Application Number:	13517117
Application Number:	13517152
Application Number:	13517227
Application Number:	13517360
Application Number:	13518044
Application Number:	13518085
Application Number:	13518137
Application Number:	13518280
Application Number:	13518384
Application Number:	13518715
Application Number:	13518982
Application Number:	13519203
Application Number:	13519417
Application Number:	13519453
Application Number:	13519466
Application Number:	13520257
Application Number:	13520340
Application Number:	13520654
Application Number:	13520760
Application Number:	13520847
Application Number:	13520920
Application Number:	13521783
Application Number:	13521784
Application Number:	13521931
Application Number:	13522182
Application Number:	13522397
Application Number:	13522415
Application Number:	13524470
Application Number:	13525365
Application Number:	13525635
Application Number:	13529347
Application Number:	13530222
Application Number:	13531929
Application Number:	13533101
Application Number:	13535287
Application Number:	13535351
Application Number:	13537881
Application Number:	13539636
Application Number:	13540649

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REEL. 034194 FRAME. 0166

Property Type	Number
Application Number:	13540978
Application Number:	13541779
Application Number:	13542109
Application Number:	13542287
Application Number:	13543406
Application Number:	13544305
Application Number:	13546707
Application Number:	13549640
Application Number:	13551958
Application Number:	13552995
Application Number:	13553497
Application Number:	13553601
Application Number:	13555487
Application Number:	13556215
Application Number:	13556848
Application Number:	13557387
Application Number:	13558609
Application Number:	13560108
Application Number:	13560167
Application Number:	13561336
Application Number:	13561475
Application Number:	13562042
Application Number:	13562446
Application Number:	13564390
Application Number:	13565836
Application Number:	13566172
Application Number:	13569885
Application Number:	13570935
Application Number:	13571998
Application Number:	13574390
Application Number:	13574880
Application Number:	13574966
Application Number:	13575033
Application Number:	13575089
Application Number:	13575244
Application Number:	13575430
Application Number:	13575761
Application Number:	13575781
Application Number:	13575813

PATENT

REEL. 034194 FRAME. 0167

Property Type	Number
Application Number:	13576019
Application Number:	13576047
Application Number:	13576342
Application Number:	13576413
Application Number:	13576527
Application Number:	13576871
Application Number:	13576977
Application Number:	13577146
Application Number:	13577377
Application Number:	13577558
Application Number:	13577588
Application Number:	13577699
Application Number:	13577732
Application Number:	13578007
Application Number:	13578060
Application Number:	13578082
Application Number:	13578091
Application Number:	13578154
Application Number:	13578166
Application Number:	13578364
Application Number:	13578441
Application Number:	13578966
Application Number:	13579076
Application Number:	13579115
Application Number:	13579193
Application Number:	13579245
Application Number:	13579346
Application Number:	13579393
Application Number:	13579474
Application Number:	13579661
Application Number:	13579717
Application Number:	13579729
Application Number:	13579752
Application Number:	13579767
Application Number:	13580027
Application Number:	13580054
Application Number:	13580203
Application Number:	13580214
Application Number:	13580310

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REEL. 034194 FRAME. 0166

Property Type	Number
Application Number:	13580572
Application Number:	13580590
Application Number:	13580637
Application Number:	13580809
Application Number:	13581416
Application Number:	13581419
Application Number:	13581425
Application Number:	13581443
Application Number:	13581553
Application Number:	13581586
Application Number:	13581630
Application Number:	13581654
Application Number:	13581695
Application Number:	13581740
Application Number:	13581845
Application Number:	13581925
Application Number:	13582050
Application Number:	13582051
Application Number:	13582052
Application Number:	13582208
Application Number:	13582599
Application Number:	13582668
Application Number:	13582850
Application Number:	13582852
Application Number:	13582881
Application Number:	13583102
Application Number:	13583646
Application Number:	13583647
Application Number:	13583786
Application Number:	13583895
Application Number:	13583957
Application Number:	13585098
Application Number:	13585154
Application Number:	13586106
Application Number:	13586880
Application Number:	13586978
Application Number:	13589425
Application Number:	13589762
Application Number:	13589782

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REEL. 034194 FRAME. 0169

Property Type	Number
Application Number:	13590234
Application Number:	13591918
Application Number:	13592943
Application Number:	13596535
Application Number:	13596762
Application Number:	13598145
Application Number:	13598886
Application Number:	13598923
Application Number:	13600227
Application Number:	13600510
Application Number:	13600542
Application Number:	13601032
Application Number:	13601523
Application Number:	13603917
Application Number:	13604175
Application Number:	13605232
Application Number:	13605842
Application Number:	13606524
Application Number:	13607805
Application Number:	13608429
Application Number:	13609403
Application Number:	13609960
Application Number:	13610029
Application Number:	13611147
Application Number:	13611527
Application Number:	13611564
Application Number:	13611586
Application Number:	13611838
Application Number:	13612344
Application Number:	13613556
Application Number:	13613837
Application Number:	13613968
Application Number:	13615298
Application Number:	13615644
Application Number:	13615647
Application Number:	13617353
Application Number:	13618007
Application Number:	13618541
Application Number:	13620493

PATENT

REEL. 034194 FRAME. 0170

Property Type	Number
Application Number:	13621104
Application Number:	13622557
Application Number:	13623327
Application Number:	13623881
Application Number:	13624526
Application Number:	13626669
Application Number:	13627235
Application Number:	13627491
Application Number:	13628142
Application Number:	13628159
Application Number:	13628845
Application Number:	13628863
Application Number:	13629037
Application Number:	13629106
Application Number:	13630113
Application Number:	13632261
Application Number:	13632425
Application Number:	13634153
Application Number:	13634361
Application Number:	13634433
Application Number:	13634435
Application Number:	13634989
Application Number:	13635121
Application Number:	13635807
Application Number:	13635817
Application Number:	13635834
Application Number:	13635864
Application Number:	13635962
Application Number:	13635986
Application Number:	13636029
Application Number:	13636084
Application Number:	13636102
Application Number:	13636169
Application Number:	13636300
Application Number:	13636303
Application Number:	13636429
Application Number:	13636434
Application Number:	13636437
Application Number:	13636844

PATENT

REEL. 034194 FRAME. 0171

Property Type	Number
Application Number:	13636915
Application Number:	13636926
Application Number:	13637062
Application Number:	13637258
Application Number:	13637294
Application Number:	13637428
Application Number:	13637491
Application Number:	13637528
Application Number:	13637618
Application Number:	13637629
Application Number:	13637693
Application Number:	13637765
Application Number:	13637784
Application Number:	13637922
Application Number:	13638136
Application Number:	13638194
Application Number:	13638205
Application Number:	13638251
Application Number:	13638708
Application Number:	13638761
Application Number:	13638868
Application Number:	13639027
Application Number:	13639585
Application Number:	13639720
Application Number:	13639832
Application Number:	13639925
Application Number:	13640603
Application Number:	13640776
Application Number:	13640854
Application Number:	13640998
Application Number:	13641250
Application Number:	13641266
Application Number:	13641303
Application Number:	13641312
Application Number:	13641483
Application Number:	13641761
Application Number:	13641986
Application Number:	13642208
Application Number:	13642297

PATENT

REEL. 034194 FRAME. 0172

Property Type	Number
Application Number:	13642331
Application Number:	13642447
Application Number:	13642450
Application Number:	13642673
Application Number:	13642688
Application Number:	13642706
Application Number:	13642970
Application Number:	13643051
Application Number:	13643316
Application Number:	13643644
Application Number:	13643830
Application Number:	13644002
Application Number:	13644636
Application Number:	13645012
Application Number:	13645602
Application Number:	13645655
Application Number:	13646784
Application Number:	13648630
Application Number:	13649164
Application Number:	13649178
Application Number:	13649656
Application Number:	13650231
Application Number:	13652868
Application Number:	13653487
Application Number:	13653499
Application Number:	13653512
Application Number:	13653513
Application Number:	13653555
Application Number:	13654375
Application Number:	13654738
Application Number:	13656071
Application Number:	13657240
Application Number:	13657267
Application Number:	13658056
Application Number:	13658853
Application Number:	13659386
Application Number:	13660904
Application Number:	13661115
Application Number:	13661118

PATENT

REEL. 034194 FRAME. 0173

Property Type	Number
Application Number:	13661166
Application Number:	13662238
Application Number:	13665327
Application Number:	13666180
Application Number:	13666301
Application Number:	13666617
Application Number:	13666695
Application Number:	13667253
Application Number:	13667395
Application Number:	13668394
Application Number:	13668436
Application Number:	13669545
Application Number:	13669829
Application Number:	13670551
Application Number:	13670567
Application Number:	13670670
Application Number:	13670800
Application Number:	13671757
Application Number:	13671932
Application Number:	13672002
Application Number:	13672826
Application Number:	13675000
Application Number:	13675378
Application Number:	13675426
Application Number:	13675929
Application Number:	13676500
Application Number:	13676529
Application Number:	13676558
Application Number:	13676671
Application Number:	13676691
Application Number:	13677533
Application Number:	13677689
Application Number:	13677975
Application Number:	13678669
Application Number:	13680268
Application Number:	13681519
Application Number:	13681537
Application Number:	13681894
Application Number:	13681972

PATENT

REEL. 034194 FRAME. 0174

Property Type	Number
Application Number:	13682992
Application Number:	13683233
Application Number:	13683773
Application Number:	13685407
Application Number:	13685762
Application Number:	13686064
Application Number:	13686076
Application Number:	13686103
Application Number:	13686104
Application Number:	13686112
Application Number:	13686242
Application Number:	13687277
Application Number:	13687793
Application Number:	13688316
Application Number:	13688633
Application Number:	13688651
Application Number:	13688764
Application Number:	13689491
Application Number:	13689762
Application Number:	13690422
Application Number:	13690995
Application Number:	13695194
Application Number:	13695442
Application Number:	13695753
Application Number:	13695779
Application Number:	13695939
Application Number:	13696037
Application Number:	13696099
Application Number:	13696143
Application Number:	13696146
Application Number:	13696163
Application Number:	13696202
Application Number:	13696343
Application Number:	13696819
Application Number:	13696990
Application Number:	13696992
Application Number:	13697635
Application Number:	13697636
Application Number:	13697850

PATENT

REEL. 034194 FRAME. 0175

Property Type	Number
Application Number:	13697886
Application Number:	13698181
Application Number:	13698327
Application Number:	13698328
Application Number:	13698727
Application Number:	13698923
Application Number:	13699078
Application Number:	13699157
Application Number:	13699211
Application Number:	13699385
Application Number:	13699811
Application Number:	13699920
Application Number:	13700016
Application Number:	13700036
Application Number:	13700143
Application Number:	13700145
Application Number:	13700174
Application Number:	13700261
Application Number:	13700329
Application Number:	13700385
Application Number:	13700584
Application Number:	13700675
Application Number:	13700676
Application Number:	13700886
Application Number:	13700964
Application Number:	13701103
Application Number:	13701141
Application Number:	13701532
Application Number:	13701554
Application Number:	13701796
Application Number:	13701864
Application Number:	13701867
Application Number:	13701924
Application Number:	13702139
Application Number:	13702168
Application Number:	13702216
Application Number:	13702443
Application Number:	13702611
Application Number:	13702939

PATENT

REEL. 034194 FRAME. 0176

Property Type	Number
Application Number:	13703304
Application Number:	13703305
Application Number:	13703533
Application Number:	13703652
Application Number:	13703788
Application Number:	13703996
Application Number:	13704028
Application Number:	13704430
Application Number:	13704679
Application Number:	13704758
Application Number:	13705292
Application Number:	13705459
Application Number:	13705540
Application Number:	13707157
Application Number:	13707483
Application Number:	13708026
Application Number:	13709123
Application Number:	13709997
Application Number:	13710040
Application Number:	13711045
Application Number:	13712604
Application Number:	13713094
Application Number:	13713105
Application Number:	13713125
Application Number:	13714688
Application Number:	13714736
Application Number:	13714766
Application Number:	13716964
Application Number:	13717936
Application Number:	13718667
Application Number:	13718670
Application Number:	13719394
Application Number:	13719554
Application Number:	13721056
Application Number:	13721815
Application Number:	13721889
Application Number:	13722115
Application Number:	13722135
Application Number:	13722860

PATENT

REEL. 034194 FRAME. 0177

Property Type	Number
Application Number:	13723201
Application Number:	13724467
Application Number:	13727477
Application Number:	13728561
Application Number:	13728585
Application Number:	13728599
Application Number:	13728632
Application Number:	13728675
Application Number:	13730414
Application Number:	13731158
Application Number:	13731221
Application Number:	13732106
Application Number:	13733314
Application Number:	13733661
Application Number:	13736370
Application Number:	13738042
Application Number:	13738069
Application Number:	13738280
Application Number:	13738439
Application Number:	13738448
Application Number:	13738670
Application Number:	13738691
Application Number:	13739867
Application Number:	13740374
Application Number:	13740768
Application Number:	13740797
Application Number:	13741451
Application Number:	13742366
Application Number:	13742444
Application Number:	13742484
Application Number:	13743073
Application Number:	13744070
Application Number:	13744742
Application Number:	13745986
Application Number:	13745992
Application Number:	13746041
Application Number:	13746509
Application Number:	13747560
Application Number:	13747569

PATENT

REEL. 034194 FRAME. 0178

Property Type	Number
Application Number:	13747910
Application Number:	13748060
Application Number:	13748924
Application Number:	13749447
Application Number:	13749708
Application Number:	13749711
Application Number:	13749767
Application Number:	13749801
Application Number:	13750589
Application Number:	13751527
Application Number:	13752452
Application Number:	13752462
Application Number:	13752508
Application Number:	13752817
Application Number:	13752900
Application Number:	13753173
Application Number:	13753688
Application Number:	13754184
Application Number:	13756093
Application Number:	13756164
Application Number:	13757365
Application Number:	13758547
Application Number:	13759332
Application Number:	13759833
Application Number:	13760205
Application Number:	13760211
Application Number:	13762483
Application Number:	13762768
Application Number:	13762886
Application Number:	13763103
Application Number:	13764385
Application Number:	13765111
Application Number:	13765450
Application Number:	13765457
Application Number:	13765734
Application Number:	13766295
Application Number:	13768339
Application Number:	13768927
Application Number:	13771152

PATENT

REEL. 034194 FRAME. 0179

Property Type	Number
Application Number:	13771406
Application Number:	13771416
Application Number:	13771420
Application Number:	13772198
Application Number:	13772643
Application Number:	13772719
Application Number:	13773021
Application Number:	13773175
Application Number:	13773652
Application Number:	13773657
Application Number:	13773659
Application Number:	13776043
Application Number:	13777596
Application Number:	13778639
Application Number:	13778663
Application Number:	13778727
Application Number:	13779243
Application Number:	13779366
Application Number:	13780483
Application Number:	13780575
Application Number:	13782101
Application Number:	13782173
Application Number:	13782625
Application Number:	13782777
Application Number:	13783464
Application Number:	13783731
Application Number:	13783748
Application Number:	13783774
Application Number:	13783819
Application Number:	13783834
Application Number:	13783964
Application Number:	13784196
Application Number:	13784409
Application Number:	13784473
Application Number:	13784518
Application Number:	13784608
Application Number:	13785364
Application Number:	13785449
Application Number:	13786601

PATENT

REEL. 034194 FRAME. 0180

Property Type	Number
Application Number:	13786862
Application Number:	13787158
Application Number:	13787656
Application Number:	13788282
Application Number:	13788345
Application Number:	13788806
Application Number:	13788837
Application Number:	13789689
Application Number:	13792561
Application Number:	13792594
Application Number:	13792938
Application Number:	13793333
Application Number:	13793379
Application Number:	13793484
Application Number:	13794835
Application Number:	13794884
Application Number:	13794889
Application Number:	13794932
Application Number:	13794944
Application Number:	13795475
Application Number:	13798115
Application Number:	13798128
Application Number:	13798247
Application Number:	13798433
Application Number:	13798500
Application Number:	13798655
Application Number:	13798889
Application Number:	13799065
Application Number:	13799511
Application Number:	13800800
Application Number:	13803304
Application Number:	13803425
Application Number:	13804605
Application Number:	13805015
Application Number:	13805171
Application Number:	13805221
Application Number:	13805376
Application Number:	13805379
Application Number:	13805482

PATENT

REEL. 034194 FRAME. 0181

Property Type	Number
Application Number:	13805579
Application Number:	13805704
Application Number:	13805906
Application Number:	13806111
Application Number:	13806285
Application Number:	13806799
Application Number:	13806809
Application Number:	13806921
Application Number:	13807059
Application Number:	13807069
Application Number:	13807105
Application Number:	13807176
Application Number:	13807189
Application Number:	13807194
Application Number:	13807338
Application Number:	13807509
Application Number:	13807621
Application Number:	13807671
Application Number:	13807672
Application Number:	13808030
Application Number:	13808123
Application Number:	13808178
Application Number:	13808191
Application Number:	13808193
Application Number:	13808200
Application Number:	13808234
Application Number:	13808244
Application Number:	13808246
Application Number:	13808361
Application Number:	13808388
Application Number:	13808407
Application Number:	13808420
Application Number:	13808509
Application Number:	13808537
Application Number:	13808874
Application Number:	13808917
Application Number:	13808927
Application Number:	13809035
Application Number:	13809175

PATENT

REEL. 034194 FRAME. 0182

Property Type	Number
Application Number:	13809186
Application Number:	13809343
Application Number:	13809415
Application Number:	13809446
Application Number:	13809458
Application Number:	13809466
Application Number:	13809473
Application Number:	13809702
Application Number:	13809865
Application Number:	13809961
Application Number:	13809976
Application Number:	13810245
Application Number:	13810252
Application Number:	13810395
Application Number:	13810465
Application Number:	13810708
Application Number:	13810724
Application Number:	13810766
Application Number:	13810776
Application Number:	13810800
Application Number:	13810840
Application Number:	13811057
Application Number:	13811285
Application Number:	13811515
Application Number:	13811641
Application Number:	13811680
Application Number:	13811766
Application Number:	13811796
Application Number:	13811913
Application Number:	13811953
Application Number:	13812013
Application Number:	13812036
Application Number:	13812038
Application Number:	13812124
Application Number:	13812161
Application Number:	13812172
Application Number:	13812227
Application Number:	13812233
Application Number:	13812316

PATENT

REEL. 034194 FRAME. 0183

Property Type	Number
Application Number:	13812347
Application Number:	13812569
Application Number:	13812609
Application Number:	13812878
Application Number:	13812906
Application Number:	13812909
Application Number:	13812912
Application Number:	13812966
Application Number:	13813188
Application Number:	13813199
Application Number:	13813307
Application Number:	13813503
Application Number:	13813535
Application Number:	13813693
Application Number:	13813733
Application Number:	13813777
Application Number:	13813792
Application Number:	13813793
Application Number:	13813794
Application Number:	13813802
Application Number:	13813822
Application Number:	13813836
Application Number:	13813901
Application Number:	13813972
Application Number:	13814032
Application Number:	13814219
Application Number:	13814250
Application Number:	13814259
Application Number:	13814308
Application Number:	13814367
Application Number:	13814382
Application Number:	13814407
Application Number:	13814433
Application Number:	13814438
Application Number:	13814514
Application Number:	13814540
Application Number:	13814557
Application Number:	13814587
Application Number:	13814712

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REEL. 034194 FRAME. 0184

Property Type	Number
Application Number:	13814762
Application Number:	13814773
Application Number:	13814901
Application Number:	13816045
Application Number:	13816092
Application Number:	13816373
Application Number:	13816501
Application Number:	13816502
Application Number:	13816577
Application Number:	13816582
Application Number:	13816602
Application Number:	13816752
Application Number:	13816783
Application Number:	13816810
Application Number:	13816947
Application Number:	13816979
Application Number:	13817018
Application Number:	13817020
Application Number:	13817149
Application Number:	13817395
Application Number:	13817488
Application Number:	13817650
Application Number:	13817704
Application Number:	13817787
Application Number:	13817856
Application Number:	13817905
Application Number:	13817952
Application Number:	13818020
Application Number:	13818160
Application Number:	13818167
Application Number:	13818194
Application Number:	13818198
Application Number:	13818286
Application Number:	13818376
Application Number:	13818435
Application Number:	13818445
Application Number:	13818463
Application Number:	13818473
Application Number:	13818483

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REEL. 034194 FRAME. 0185

Property Type	Number
Application Number:	13818594
Application Number:	13818700
Application Number:	13818706
Application Number:	13818707
Application Number:	13818863
Application Number:	13819069
Application Number:	13819349
Application Number:	13819370
Application Number:	13819508
Application Number:	13819663
Application Number:	13819756
Application Number:	13819770
Application Number:	13819772
Application Number:	13819778
Application Number:	13819782
Application Number:	13819840
Application Number:	13819896
Application Number:	13820004
Application Number:	13820141
Application Number:	13820439
Application Number:	13820441
Application Number:	13820557
Application Number:	13820635
Application Number:	13820652
Application Number:	13820735
Application Number:	13820758
Application Number:	13820842
Application Number:	13820849
Application Number:	13820859
Application Number:	13820870
Application Number:	13821052
Application Number:	13821152
Application Number:	13821262
Application Number:	13821280
Application Number:	13821336
Application Number:	13821352
Application Number:	13821368
Application Number:	13821379
Application Number:	13821392

PATENT

REEL. 034194 FRAME. 0186

Property Type	Number
Application Number:	13821584
Application Number:	13821879
Application Number:	13821880
Application Number:	13821915
Application Number:	13822167
Application Number:	13822213
Application Number:	13822244
Application Number:	13822489
Application Number:	13822570
Application Number:	13822580
Application Number:	13822708
Application Number:	13822737
Application Number:	13822768
Application Number:	13822804
Application Number:	13822816
Application Number:	13822828
Application Number:	13822874
Application Number:	13823129
Application Number:	13823339
Application Number:	13823382
Application Number:	13823388
Application Number:	13823428
Application Number:	13823478
Application Number:	13823484
Application Number:	13823756
Application Number:	13823776
Application Number:	13823825
Application Number:	13823885
Application Number:	13823949
Application Number:	13823955
Application Number:	13823974
Application Number:	13823975
Application Number:	13824001
Application Number:	13824011
Application Number:	13824047
Application Number:	13824152
Application Number:	13824242
Application Number:	13824322
Application Number:	13824425

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REEL. 034194 FRAME. 0167

Property Type	Number
Application Number:	13824516
Application Number:	13824585
Application Number:	13824694
Application Number:	13824716
Application Number:	13824744
Application Number:	13824811
Application Number:	13824865
Application Number:	13824900
Application Number:	13824910
Application Number:	13825194
Application Number:	13825206
Application Number:	13825251
Application Number:	13826099
Application Number:	13826132
Application Number:	13826897
Application Number:	13827680
Application Number:	13830000
Application Number:	13831741
Application Number:	13831906
Application Number:	13831930
Application Number:	13832369
Application Number:	13832506
Application Number:	13835289
Application Number:	13835732
Application Number:	13836293
Application Number:	13836664
Application Number:	13836920
Application Number:	13838368
Application Number:	13838672
Application Number:	13847128
Application Number:	13847145
Application Number:	13848114
Application Number:	13848158
Application Number:	13848159
Application Number:	13848760
Application Number:	13849602
Application Number:	13851201
Application Number:	13852667
Application Number:	13853347

PATENT

REEL. 034194 FRAME. 0188

Property Type	Number
Application Number:	13853767
Application Number:	13855350
Application Number:	13856445
Application Number:	13856836
Application Number:	13858329
Application Number:	13858981
Application Number:	13860142
Application Number:	13860693
Application Number:	13861288
Application Number:	13861773
Application Number:	13862509
Application Number:	13863330
Application Number:	13863641
Application Number:	13863660
Application Number:	13865615
Application Number:	13865684
Application Number:	13866590
Application Number:	13866708
Application Number:	13866813
Application Number:	13867164
Application Number:	13867254
Application Number:	13868152
Application Number:	13868183
Application Number:	13868195
Application Number:	13869122
Application Number:	13869203
Application Number:	13869636
Application Number:	13870310
Application Number:	13870499
Application Number:	13872183
Application Number:	13872213
Application Number:	13872227
Application Number:	13873435
Application Number:	13875850
Application Number:	13876028
Application Number:	13876362
Application Number:	13876509
Application Number:	13876625
Application Number:	13876650

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REEL. 034194 FRAME. 0189

Property Type	Number
Application Number:	13876684
Application Number:	13876919
Application Number:	13876925
Application Number:	13877341
Application Number:	13877362
Application Number:	13877389
Application Number:	13877392
Application Number:	13877535
Application Number:	13877732
Application Number:	13877746
Application Number:	13877833
Application Number:	13878641
Application Number:	13878791
Application Number:	13878851
Application Number:	13879139
Application Number:	13879252
Application Number:	13879618
Application Number:	13879710
Application Number:	13879765
Application Number:	13879775
Application Number:	13879835
Application Number:	13879913
Application Number:	13880282
Application Number:	13880378
Application Number:	13880450
Application Number:	13880523
Application Number:	13880633
Application Number:	13880671
Application Number:	13880901
Application Number:	13881292
Application Number:	13881335
Application Number:	13881528
Application Number:	13881596
Application Number:	13881822
Application Number:	13881881
Application Number:	13882126
Application Number:	13882204
Application Number:	13882436
Application Number:	13882523

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REEL. 034194 FRAME. 0190

Property Type	Number
Application Number:	13882548
Application Number:	13882776
Application Number:	13882863
Application Number:	13882900
Application Number:	13883075
Application Number:	13883141
Application Number:	13883506
Application Number:	13883785
Application Number:	13883786
Application Number:	13883940
Application Number:	13884014
Application Number:	13884143
Application Number:	13884361
Application Number:	13884466
Application Number:	13885240
Application Number:	13885422
Application Number:	13885510
Application Number:	13885529
Application Number:	13885608
Application Number:	13885650
Application Number:	13885703
Application Number:	13885742
Application Number:	13885848
Application Number:	13885893
Application Number:	13887698
Application Number:	13887731
Application Number:	13887899
Application Number:	13889897
Application Number:	13889900
Application Number:	13890384
Application Number:	13890605
Application Number:	13891620
Application Number:	13892364
Application Number:	13892464
Application Number:	13892553
Application Number:	13893505
Application Number:	13893796
Application Number:	13895204
Application Number:	13895449

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REEL. 034194 FRAME. 0191

Property Type	Number
Application Number:	13896324
Application Number:	13896444
Application Number:	13896743
Application Number:	13896815
Application Number:	13898489
Application Number:	13898577
Application Number:	13899200
Application Number:	13899653
Application Number:	13899737
Application Number:	13900615
Application Number:	13900908
Application Number:	13902261
Application Number:	13902569
Application Number:	13903270
Application Number:	13903604
Application Number:	13904172
Application Number:	13904366
Application Number:	13904454
Application Number:	13904511
Application Number:	13905130
Application Number:	13905272
Application Number:	13905300
Application Number:	13905485
Application Number:	13905519
Application Number:	13905841
Application Number:	13907671
Application Number:	13908056
Application Number:	13908476
Application Number:	13908564
Application Number:	13909173
Application Number:	13909421
Application Number:	13910601
Application Number:	13910604
Application Number:	13911097
Application Number:	13911404
Application Number:	13911416
Application Number:	13911656
Application Number:	13912632
Application Number:	13913197

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REEL. 034194 FRAME. 0192

Property Type	Number
Application Number:	13915868
Application Number:	13916931
Application Number:	13916953
Application Number:	13917290
Application Number:	13919053
Application Number:	13919061
Application Number:	13919329
Application Number:	13919493
Application Number:	13920156
Application Number:	13920170
Application Number:	13921853
Application Number:	13923535
Application Number:	13923805
Application Number:	13926794
Application Number:	13927542
Application Number:	13928620
Application Number:	13928777
Application Number:	13928957
Application Number:	13929625
Application Number:	13929693
Application Number:	13929793
Application Number:	13929798
Application Number:	13932006
Application Number:	13932248
Application Number:	13932505
Application Number:	13933204
Application Number:	13933283
Application Number:	13933301
Application Number:	13933331
Application Number:	13933941
Application Number:	13933955
Application Number:	13935280
Application Number:	13935292
Application Number:	13935322
Application Number:	13935448
Application Number:	13935544
Application Number:	13935671
Application Number:	13935716
Application Number:	13936232

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REEL. 034194 FRAME. 0193

Property Type	Number
Application Number:	13936235
Application Number:	13936822
Application Number:	13937131
Application Number:	13937246
Application Number:	13937556
Application Number:	13937824
Application Number:	13937851
Application Number:	13937950
Application Number:	13938274
Application Number:	13939501
Application Number:	13939680
Application Number:	13940204
Application Number:	13940285
Application Number:	13940286
Application Number:	13940473
Application Number:	13940605
Application Number:	13940613
Application Number:	13940618
Application Number:	13942478
Application Number:	13942535
Application Number:	13943898
Application Number:	13944124
Application Number:	13944150
Application Number:	13944182
Application Number:	13944648
Application Number:	13944759
Application Number:	13945578
Application Number:	13945712
Application Number:	13945963
Application Number:	13946152
Application Number:	13947541
Application Number:	13947727
Application Number:	13948302
Application Number:	13948310
Application Number:	13948462
Application Number:	13948740
Application Number:	13948825
Application Number:	13949138
Application Number:	13949154

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REEL. 034194 FRAME. 0194

Property Type	Number
Application Number:	13949545
Application Number:	13950114
Application Number:	13950438
Application Number:	13950531
Application Number:	13950677
Application Number:	13950751
Application Number:	13950837
Application Number:	13950905
Application Number:	13950961
Application Number:	13950979
Application Number:	13951027
Application Number:	13951443
Application Number:	13951448
Application Number:	13951828
Application Number:	13952097
Application Number:	13952791
Application Number:	13952914
Application Number:	13953817
Application Number:	13954085
Application Number:	13954102
Application Number:	13954196
Application Number:	13955510
Application Number:	13955601
Application Number:	13956579
Application Number:	13956784
Application Number:	13957169
Application Number:	13957435
Application Number:	13957742
Application Number:	13957780
Application Number:	13958719
Application Number:	13958863
Application Number:	13959101
Application Number:	13959744
Application Number:	13960019
Application Number:	13960486
Application Number:	13960749
Application Number:	13961064
Application Number:	13961235
Application Number:	13961523

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REEL. 034194 FRAME. 0195

Property Type	Number
Application Number:	13961743
Application Number:	13962356
Application Number:	13962418
Application Number:	13962448
Application Number:	13962507
Application Number:	13963804
Application Number:	13964422
Application Number:	13966015
Application Number:	13967489
Application Number:	13969728
Application Number:	13969745
Application Number:	13969933
Application Number:	13969971
Application Number:	13971432
Application Number:	13972334
Application Number:	13972468
Application Number:	13973232
Application Number:	13973837
Application Number:	13974211
Application Number:	13974533
Application Number:	13974610
Application Number:	13975041
Application Number:	13975984
Application Number:	13976269
Application Number:	13976392
Application Number:	13976746
Application Number:	13977080
Application Number:	13977360
Application Number:	13977910
Application Number:	13977967
Application Number:	13978093
Application Number:	13978221
Application Number:	13978255
Application Number:	13978277
Application Number:	13978380
Application Number:	13978386
Application Number:	13978443
Application Number:	13978458
Application Number:	13978551

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REEL. 034194 FRAME. 0196

Property Type	Number
Application Number:	13978712
Application Number:	13978739
Application Number:	13978832
Application Number:	13978852
Application Number:	13978860
Application Number:	13978890
Application Number:	13979115
Application Number:	13979220
Application Number:	13979244
Application Number:	13979316
Application Number:	13979367
Application Number:	13979442
Application Number:	13979484
Application Number:	13979708
Application Number:	13979864
Application Number:	13979891
Application Number:	13979893
Application Number:	13979945
Application Number:	13980006
Application Number:	13980026
Application Number:	13980140
Application Number:	13980149
Application Number:	13980207
Application Number:	13980263
Application Number:	13980296
Application Number:	13980336
Application Number:	13980422
Application Number:	13980591
Application Number:	13980690
Application Number:	13980817
Application Number:	13980960
Application Number:	13980966
Application Number:	13981066
Application Number:	13981084
Application Number:	13981280
Application Number:	13981282
Application Number:	13981290
Application Number:	13981296
Application Number:	13981518

PATENT

REEL. 034194 FRAME. 0197

Property Type	Number
Application Number:	13981555
Application Number:	13981565
Application Number:	13981580
Application Number:	13981623
Application Number:	13981710
Application Number:	13981722
Application Number:	13981849
Application Number:	13981877
Application Number:	13981906
Application Number:	13982044
Application Number:	13982189
Application Number:	13982280
Application Number:	13982720
Application Number:	13982737
Application Number:	13983017
Application Number:	13983030
Application Number:	13983071
Application Number:	13983255
Application Number:	13983262
Application Number:	13983266
Application Number:	13983274
Application Number:	13983305
Application Number:	13983507
Application Number:	13983549
Application Number:	13983551
Application Number:	13983617
Application Number:	13983657
Application Number:	13983664
Application Number:	13983729
Application Number:	13983743
Application Number:	13983770
Application Number:	13983772
Application Number:	13983773
Application Number:	13983855
Application Number:	13983871
Application Number:	13983895
Application Number:	13983904
Application Number:	13984149
Application Number:	13984368

PATENT

REEL. 034194 FRAME. 0198

Property Type	Number
Application Number:	13984413
Application Number:	13984611
Application Number:	13984633
Application Number:	13984638
Application Number:	13984779
Application Number:	13984986
Application Number:	13984992
Application Number:	13985014
Application Number:	13985297
Application Number:	13985353
Application Number:	13985435
Application Number:	13985473
Application Number:	13985502
Application Number:	13985615
Application Number:	13985634
Application Number:	13985645
Application Number:	13985794
Application Number:	13985833
Application Number:	13985935
Application Number:	13988197
Application Number:	13988752
Application Number:	13988896
Application Number:	13989035
Application Number:	13989061
Application Number:	13989075
Application Number:	13989282
Application Number:	13989325
Application Number:	13989637
Application Number:	13989644
Application Number:	13989715
Application Number:	13990079
Application Number:	13990112
Application Number:	13990138
Application Number:	13990209
Application Number:	13990327
Application Number:	13990597
Application Number:	13990660
Application Number:	13990733
Application Number:	13990741

PATENT

REEL. 034194 FRAME. 0199

Property Type	Number
Application Number:	13990810
Application Number:	13990827
Application Number:	13991119
Application Number:	13991144
Application Number:	13991290
Application Number:	13991455
Application Number:	13991503
Application Number:	13991700
Application Number:	13991784
Application Number:	13991787
Application Number:	13991964
Application Number:	13992008
Application Number:	13992060
Application Number:	13992090
Application Number:	13992189
Application Number:	13992462
Application Number:	13992671
Application Number:	13992673
Application Number:	13992807
Application Number:	13992947
Application Number:	13993075
Application Number:	13993298
Application Number:	13993373
Application Number:	13993406
Application Number:	13993619
Application Number:	13993626
Application Number:	13993714
Application Number:	13994253
Application Number:	13994907
Application Number:	13995053
Application Number:	13995201
Application Number:	13995208
Application Number:	13995252
Application Number:	13995257
Application Number:	13995278
Application Number:	13995354
Application Number:	13995383
Application Number:	13995582
Application Number:	13996160

PATENT

REEL. 034194 FRAME. 0200

Property Type	Number
Application Number:	13996203
Application Number:	13996327
Application Number:	13996743
Application Number:	13996876
Application Number:	13996914
Application Number:	13996954
Application Number:	13997284
Application Number:	13997293
Application Number:	13997299
Application Number:	13997454
Application Number:	14000237
Application Number:	14000316
Application Number:	14000346
Application Number:	14000447
Application Number:	14000499
Application Number:	14000551
Application Number:	14000644
Application Number:	14000650
Application Number:	14000737
Application Number:	14000742
Application Number:	14000756
Application Number:	14000825
Application Number:	14000826
Application Number:	14000834
Application Number:	14000925
Application Number:	14000963
Application Number:	14001264
Application Number:	14001345
Application Number:	14001430
Application Number:	14001517
Application Number:	14001519
Application Number:	14001573
Application Number:	14001631
Application Number:	14001664
Application Number:	14001725
Application Number:	14001822
Application Number:	14001834
Application Number:	14001913
Application Number:	14001978

PATENT

REEL. 034194 FRAME. 0201

Property Type	Number
Application Number:	14001985
Application Number:	14002126
Application Number:	14002224
Application Number:	14002229
Application Number:	14002293
Application Number:	14002302
Application Number:	14002331
Application Number:	14002337
Application Number:	14002423
Application Number:	14002495
Application Number:	14002508
Application Number:	14002613
Application Number:	14002651
Application Number:	14002868
Application Number:	14002958
Application Number:	14002973
Application Number:	14002979
Application Number:	14003059
Application Number:	14003071
Application Number:	14003122
Application Number:	14003182
Application Number:	14003256
Application Number:	14003269
Application Number:	14003466
Application Number:	14003491
Application Number:	14003545
Application Number:	14003892
Application Number:	14003984
Application Number:	14004033
Application Number:	14004041
Application Number:	14004192
Application Number:	14004205
Application Number:	14004346
Application Number:	14004447
Application Number:	14004465
Application Number:	14004531
Application Number:	14004662
Application Number:	14004698
Application Number:	14004842

PATENT

REEL. 034194 FRAME. 0202

Property Type	Number
Application Number:	14004865
Application Number:	14004886
Application Number:	14004892
Application Number:	14004895
Application Number:	14005026
Application Number:	14005031
Application Number:	14005156
Application Number:	14005159
Application Number:	14005242
Application Number:	14005406
Application Number:	14005491
Application Number:	14005513
Application Number:	14005535
Application Number:	14005860
Application Number:	14005864
Application Number:	14005869
Application Number:	14005874
Application Number:	14005881
Application Number:	14006112
Application Number:	14006318
Application Number:	14006357
Application Number:	14006415
Application Number:	14006418
Application Number:	14006421
Application Number:	14006422
Application Number:	14006437
Application Number:	14006442
Application Number:	14006445
Application Number:	14006447
Application Number:	14006509
Application Number:	14006556
Application Number:	14006568
Application Number:	14006698
Application Number:	14006731
Application Number:	14006967
Application Number:	14007091
Application Number:	14007216
Application Number:	14007297
Application Number:	14007440

PATENT

REEL. 034194 FRAME. 0203

Property Type	Number
Application Number:	14007619
Application Number:	14007681
Application Number:	14007701
Application Number:	14007713
Application Number:	14007733
Application Number:	14007735
Application Number:	14007758
Application Number:	14007769
Application Number:	14007808
Application Number:	14007896
Application Number:	14008097
Application Number:	14008129
Application Number:	14008158
Application Number:	14008220
Application Number:	14008225
Application Number:	14008233
Application Number:	14008512
Application Number:	14008750
Application Number:	14008783
Application Number:	14008799
Application Number:	14009104
Application Number:	14009105
Application Number:	14009107
Application Number:	14009131
Application Number:	14009184
Application Number:	14009200
Application Number:	14009251
Application Number:	14009527
Application Number:	14009629
Application Number:	14009958
Application Number:	14010091
Application Number:	14011386
Application Number:	14011450
Application Number:	14013259
Application Number:	14013727
Application Number:	14013939
Application Number:	14014779
Application Number:	14015142
Application Number:	14015735

PATENT

REEL. 034194 FRAME. 0204

Property Type	Number
Application Number:	14016465
Application Number:	14016623
Application Number:	14017650
Application Number:	14019195
Application Number:	14021003
Application Number:	14021082
Application Number:	14021253
Application Number:	14022344
Application Number:	14022655
Application Number:	14022680
Application Number:	14023389
Application Number:	14023407
Application Number:	14023511
Application Number:	14023648
Application Number:	14023658
Application Number:	14023860
Application Number:	14024588
Application Number:	14025718
Application Number:	14025829
Application Number:	14025830
Application Number:	14026585
Application Number:	14026991
Application Number:	14027303
Application Number:	14027638
Application Number:	14027905
Application Number:	14027985
Application Number:	14029039
Application Number:	14029137
Application Number:	14029301
Application Number:	14029514
Application Number:	14029638
Application Number:	14029842
Application Number:	14029946
Application Number:	14030578
Application Number:	14030978
Application Number:	14032477
Application Number:	14032660
Application Number:	14033623
Application Number:	14033665

PATENT

REEL. 034194 FRAME. 0205

Property Type	Number
Application Number:	14035722
Application Number:	14036066
Application Number:	14036164
Application Number:	14037443
Application Number:	14037451
Application Number:	14037585
Application Number:	14038143
Application Number:	14038624
Application Number:	14038667
Application Number:	14038681
Application Number:	14038690
Application Number:	14039198
Application Number:	14040807
Application Number:	14041286
Application Number:	14042664
Application Number:	14043719
Application Number:	14043899
Application Number:	14044859
Application Number:	14045015
Application Number:	14045237
Application Number:	14045694
Application Number:	14046266
Application Number:	14047202
Application Number:	14047427
Application Number:	14048228
Application Number:	14048435
Application Number:	14048870
Application Number:	14049009
Application Number:	14049343
Application Number:	14049884
Application Number:	14051167
Application Number:	14051181
Application Number:	14051241
Application Number:	14051279
Application Number:	14051296
Application Number:	14052518
Application Number:	14053206
Application Number:	14053473
Application Number:	14053484

PATENT

REEL. 034194 FRAME. 0206

Property Type	Number
Application Number:	14054538
Application Number:	14054828
Application Number:	14054829
Application Number:	14054890
Application Number:	14054948
Application Number:	14055002
Application Number:	14055435
Application Number:	14055438
Application Number:	14056266
Application Number:	14056865
Application Number:	14057738
Application Number:	14057845
Application Number:	14058620
Application Number:	14058869
Application Number:	14058903
Application Number:	14059281
Application Number:	14059379
Application Number:	14061588
Application Number:	14061843
Application Number:	14061883
Application Number:	14062008
Application Number:	14062077
Application Number:	14062517
Application Number:	14062937
Application Number:	14063399
Application Number:	14064253
Application Number:	14064688
Application Number:	14064729
Application Number:	14065519
Application Number:	14066770
Application Number:	14067221
Application Number:	14067883
Application Number:	14068087
Application Number:	14068364
Application Number:	14068384
Application Number:	14068453
Application Number:	14068850
Application Number:	14070199
Application Number:	14071195

PATENT

REEL. 034194 FRAME. 0207

Property Type	Number
Application Number:	14071994
Application Number:	14072062
Application Number:	14072107
Application Number:	14073559
Application Number:	14073834
Application Number:	14073870
Application Number:	14074418
Application Number:	14075297
Application Number:	14075506
Application Number:	14075859
Application Number:	14078022
Application Number:	14079529
Application Number:	14079717
Application Number:	14081248
Application Number:	14081392
Application Number:	14081958
Application Number:	14082237
Application Number:	14083288
Application Number:	14083519
Application Number:	14083680
Application Number:	14084344
Application Number:	14084381
Application Number:	14084709
Application Number:	14084994
Application Number:	14085523
Application Number:	14086193
Application Number:	14086262
Application Number:	14086763
Application Number:	14088514
Application Number:	14089429
Application Number:	14089736
Application Number:	14090198
Application Number:	14090399
Application Number:	14091122
Application Number:	14093199
Application Number:	14093704
Application Number:	14094024
Application Number:	14094171
Application Number:	14095473

PATENT

REEL. 034194 FRAME. 0208

Property Type	Number
Application Number:	14095946
Application Number:	14096779
Application Number:	14097353
Application Number:	14098115
Application Number:	14098546
Application Number:	14099165
Application Number:	14099256
Application Number:	14101223
Application Number:	14101775
Application Number:	14102007
Application Number:	14102168
Application Number:	14102435
Application Number:	14103083
Application Number:	14103155
Application Number:	14103201
Application Number:	14103675
Application Number:	14103690
Application Number:	14104119
Application Number:	14104710
Application Number:	14104763
Application Number:	14104774
Application Number:	14105356
Application Number:	14106965
Application Number:	14107418
Application Number:	14107595
Application Number:	14107758
Application Number:	14108195
Application Number:	14108439
Application Number:	14108805
Application Number:	14109286
Application Number:	14109378
Application Number:	14109411
Application Number:	14109514
Application Number:	14109644
Application Number:	14110210
Application Number:	14110419
Application Number:	14110462
Application Number:	14110826
Application Number:	14110893

PATENT

REEL. 034194 FRAME. 0209

Property Type	Number
Application Number:	14110938
Application Number:	14110968
Application Number:	14111033
Application Number:	14111831
Application Number:	14111835
Application Number:	14111846
Application Number:	14111848
Application Number:	14111890
Application Number:	14111917
Application Number:	14111988
Application Number:	14111995
Application Number:	14112079
Application Number:	14112268
Application Number:	14112352
Application Number:	14112396
Application Number:	14112799
Application Number:	14112995
Application Number:	14113054
Application Number:	14113059
Application Number:	14113114
Application Number:	14113229
Application Number:	14113258
Application Number:	14113283
Application Number:	14113370
Application Number:	14113695
Application Number:	14113697
Application Number:	14113814
Application Number:	14113935
Application Number:	14113975
Application Number:	14114030
Application Number:	14114186
Application Number:	14114231
Application Number:	14114290
Application Number:	14114337
Application Number:	14114348
Application Number:	14114403
Application Number:	14114417
Application Number:	14114585
Application Number:	14114604

PATENT

REEL. 034194 FRAME. 0210

Property Type	Number
Application Number:	14114655
Application Number:	14114834
Application Number:	14115029
Application Number:	14115157
Application Number:	14115199
Application Number:	14115306
Application Number:	14115464
Application Number:	14115563
Application Number:	14115647
Application Number:	14115658
Application Number:	14115777
Application Number:	14115910
Application Number:	14115967
Application Number:	14116065
Application Number:	14116206
Application Number:	14116249
Application Number:	14116303
Application Number:	14116305
Application Number:	14116473
Application Number:	14116482
Application Number:	14116681
Application Number:	14116950
Application Number:	14116953
Application Number:	14117059
Application Number:	14117186
Application Number:	14117264
Application Number:	14117298
Application Number:	14117327
Application Number:	14117337
Application Number:	14117401
Application Number:	14117463
Application Number:	14117475
Application Number:	14117491
Application Number:	14117624
Application Number:	14117641
Application Number:	14117645
Application Number:	14117656
Application Number:	14117676
Application Number:	14117852

PATENT

REEL. 034194 FRAME. 0211

Property Type	Number
Application Number:	14117979
Application Number:	14118154
Application Number:	14118185
Application Number:	14118595
Application Number:	14118635
Application Number:	14118644
Application Number:	14118930
Application Number:	14119053
Application Number:	14119142
Application Number:	14119148
Application Number:	14119224
Application Number:	14119229
Application Number:	14119472
Application Number:	14119650
Application Number:	14119684
Application Number:	14119704
Application Number:	14119832
Application Number:	14119936
Application Number:	14122103
Application Number:	14122122
Application Number:	14122151
Application Number:	14122175
Application Number:	14122196
Application Number:	14122247
Application Number:	14122323
Application Number:	14122452
Application Number:	14122708
Application Number:	14122714
Application Number:	14122811
Application Number:	14122889
Application Number:	14122962
Application Number:	14123357
Application Number:	14123458
Application Number:	14123610
Application Number:	14123657
Application Number:	14123769
Application Number:	14123771
Application Number:	14123778
Application Number:	14123787

PATENT

REEL. 034194 FRAME. 0212

Property Type	Number
Application Number:	14123946
Application Number:	14124219
Application Number:	14124494
Application Number:	14124495
Application Number:	14124518
Application Number:	14124553
Application Number:	14125126
Application Number:	14125283
Application Number:	14125294
Application Number:	14125369
Application Number:	14125438
Application Number:	14125510
Application Number:	14125701
Application Number:	14126176
Application Number:	14126298
Application Number:	14126311
Application Number:	14126837
Application Number:	14126936
Application Number:	14126984
Application Number:	14127022
Application Number:	14127139
Application Number:	14127330
Application Number:	14127376
Application Number:	14127408
Application Number:	14127618
Application Number:	14127635
Application Number:	14127750
Application Number:	14127787
Application Number:	14127808
Application Number:	14127823
Application Number:	14127956
Application Number:	14128410
Application Number:	14128418
Application Number:	14128674
Application Number:	14128696
Application Number:	14128720
Application Number:	14128745
Application Number:	14128866
Application Number:	14128872

PATENT

REEL. 034194 FRAME. 0213

Property Type	Number
Application Number:	14128875
Application Number:	14128954
Application Number:	14129203
Application Number:	14129254
Application Number:	14129285
Application Number:	14129674
Application Number:	14129899
Application Number:	14130092
Application Number:	14130279
Application Number:	14130502
Application Number:	14130658
Application Number:	14130659
Application Number:	14130737
Application Number:	14130794
Application Number:	14130902
Application Number:	14130990
Application Number:	14131045
Application Number:	14131064
Application Number:	14131079
Application Number:	14131197
Application Number:	14131277
Application Number:	14131315
Application Number:	14131400
Application Number:	14131441
Application Number:	14131459
Application Number:	14131522
Application Number:	14131539
Application Number:	14131542
Application Number:	14131548
Application Number:	14131551
Application Number:	14131673
Application Number:	14131745
Application Number:	14131807
Application Number:	14131847
Application Number:	14131881
Application Number:	14131895
Application Number:	14131959
Application Number:	14132837
Application Number:	14133070

PATENT

REEL. 034194 FRAME. 0214

Property Type	Number
Application Number:	14133087
Application Number:	14133102
Application Number:	14133118
Application Number:	14133785
Application Number:	14134470
Application Number:	14134964
Application Number:	14135535
Application Number:	14135938
Application Number:	14136757
Application Number:	14137276
Application Number:	14137802
Application Number:	14139104
Application Number:	14139146
Application Number:	14139505
Application Number:	14139587
Application Number:	14139618
Application Number:	14140325
Application Number:	14140332
Application Number:	14140365
Application Number:	14140543
Application Number:	14140969
Application Number:	14141296
Application Number:	14141658
Application Number:	14141666
Application Number:	14142627
Application Number:	14142632
Application Number:	14142634
Application Number:	14142646
Application Number:	14143294
Application Number:	14143544
Application Number:	14143961
Application Number:	14144969
Application Number:	14146076
Application Number:	14146215
Application Number:	14147426
Application Number:	14148271
Application Number:	14149481
Application Number:	14150310
Application Number:	14151508

PATENT

REEL. 034194 FRAME. 0215

Property Type	Number
Application Number:	14152359
Application Number:	14152409
Application Number:	14153337
Application Number:	14155660
Application Number:	14155820
Application Number:	14156465
Application Number:	14156506
Application Number:	14156507
Application Number:	14156508
Application Number:	14156721
Application Number:	14156790
Application Number:	14156801
Application Number:	14156912
Application Number:	14157206
Application Number:	14157320
Application Number:	14157535
Application Number:	14157562
Application Number:	14157676
Application Number:	14157900
Application Number:	14158086
Application Number:	14158578
Application Number:	14158597
Application Number:	14159845
Application Number:	14160819
Application Number:	14160885
Application Number:	14160984
Application Number:	14161166
Application Number:	14161409
Application Number:	14162134
Application Number:	14162369
Application Number:	14162736
Application Number:	14162752
Application Number:	14162848
Application Number:	14164030
Application Number:	14164262
Application Number:	14164404
Application Number:	14164493
Application Number:	14164615
Application Number:	14164649

PATENT

REEL. 034194 FRAME. 0216

Property Type	Number
Application Number:	14164658
Application Number:	14164710
Application Number:	14165195
Application Number:	14165383
Application Number:	14165405
Application Number:	14165744
Application Number:	14165926
Application Number:	14165989
Application Number:	14166015
Application Number:	14166785
Application Number:	14167746
Application Number:	14168453
Application Number:	14169583
Application Number:	14170649
Application Number:	14170748
Application Number:	14170919
Application Number:	14170938
Application Number:	14171176
Application Number:	14171953
Application Number:	14172584
Application Number:	14172588
Application Number:	14172609
Application Number:	14172624
Application Number:	14172659
Application Number:	14172718
Application Number:	14173057
Application Number:	14173148
Application Number:	14173773
Application Number:	14174731
Application Number:	14175764
Application Number:	14176205
Application Number:	14176217
Application Number:	14176229
Application Number:	14176911
Application Number:	14177301
Application Number:	14177317
Application Number:	14177360
Application Number:	14177478
Application Number:	14177651

PATENT

REEL. 034194 FRAME. 0217

Property Type	Number
Application Number:	14178544
Application Number:	14178576
Application Number:	14178736
Application Number:	14179873
Application Number:	14180502
Application Number:	14182638
Application Number:	14182725
Application Number:	14182730
Application Number:	14183734
Application Number:	14183825
Application Number:	14184039
Application Number:	14184233
Application Number:	14184878
Application Number:	14185049
Application Number:	14185659
Application Number:	14186182
Application Number:	14186230
Application Number:	14186254
Application Number:	14187576
Application Number:	14187593
Application Number:	14188262
Application Number:	14189725
Application Number:	14189744
Application Number:	14190668
Application Number:	14190993
Application Number:	14191253
Application Number:	14191436
Application Number:	14191866
Application Number:	14191911
Application Number:	14192528
Application Number:	14192563
Application Number:	14192803
Application Number:	14193582
Application Number:	14193624
Application Number:	14193648
Application Number:	14193690
Application Number:	14193856
Application Number:	14193955
Application Number:	14193965

PATENT

REEL. 034194 FRAME. 0218

Property Type	Number
Application Number:	14196632
Application Number:	14197041
Application Number:	14197045
Application Number:	14197084
Application Number:	14197100
Application Number:	14197822
Application Number:	14197984
Application Number:	14198006
Application Number:	14198036
Application Number:	14198758
Application Number:	14198848
Application Number:	14198944
Application Number:	14198952
Application Number:	14198984
Application Number:	14199037
Application Number:	14199153
Application Number:	14199180
Application Number:	14199203
Application Number:	14199283
Application Number:	14200237
Application Number:	14200260
Application Number:	14201251
Application Number:	14202107
Application Number:	14202138
Application Number:	14202464
Application Number:	14203076
Application Number:	14203293
Application Number:	14203443
Application Number:	14203618
Application Number:	14204097
Application Number:	14204469
Application Number:	14206770
Application Number:	14207208
Application Number:	14207668
Application Number:	14207763
Application Number:	14208378
Application Number:	14208392
Application Number:	14209196
Application Number:	14210133

PATENT

REEL. 034194 FRAME. 0219

Property Type	Number
Application Number:	14210606
Application Number:	14212108
Application Number:	14215327
Application Number:	14218022
Application Number:	14218056
Application Number:	14218282
Application Number:	14218980
Application Number:	14219955
Application Number:	14220011
Application Number:	14220039
Application Number:	14220133
Application Number:	14220414
Application Number:	14220501
Application Number:	14220597
Application Number:	14220599
Application Number:	14220771
Application Number:	14221619
Application Number:	14221737
Application Number:	14222767
Application Number:	14223309
Application Number:	14224194
Application Number:	14224898
Application Number:	14224975
Application Number:	14225119
Application Number:	14225207
Application Number:	14225426
Application Number:	14225445
Application Number:	14226444
Application Number:	14227257
Application Number:	14227379
Application Number:	14227786
Application Number:	14228511
Application Number:	14228716
Application Number:	14228738
Application Number:	14229258
Application Number:	14229365
Application Number:	14231755
Application Number:	14231801
Application Number:	14232024

PATENT

REEL. 034194 FRAME. 0220

Property Type	Number
Application Number:	14232028
Application Number:	14232070
Application Number:	14232122
Application Number:	14232162
Application Number:	14232319
Application Number:	14232389
Application Number:	14232505
Application Number:	14232595
Application Number:	14232670
Application Number:	14232716
Application Number:	14232731
Application Number:	14232862
Application Number:	14233141
Application Number:	14233144
Application Number:	14233149
Application Number:	14233242
Application Number:	14233276
Application Number:	14233515
Application Number:	14233974
Application Number:	14233981
Application Number:	14234095
Application Number:	14234187
Application Number:	14234283
Application Number:	14234471
Application Number:	14234573
Application Number:	14234606
Application Number:	14234677
Application Number:	14234685
Application Number:	14234792
Application Number:	14234956
Application Number:	14235178
Application Number:	14235411
Application Number:	14235432
Application Number:	14235503
Application Number:	14235722
Application Number:	14235789
Application Number:	14236002
Application Number:	14236025
Application Number:	14236107

PATENT

REEL. 034194 FRAME. 0221

Property Type	Number
Application Number:	14236129
Application Number:	14236211
Application Number:	14236227
Application Number:	14236241
Application Number:	14236429
Application Number:	14236488
Application Number:	14236924
Application Number:	14237094
Application Number:	14237105
Application Number:	14237178
Application Number:	14237315
Application Number:	14237318
Application Number:	14237481
Application Number:	14237591
Application Number:	14237646
Application Number:	14237666
Application Number:	14237729
Application Number:	14237804
Application Number:	14238164
Application Number:	14238181
Application Number:	14238311
Application Number:	14238395
Application Number:	14238505
Application Number:	14238514
Application Number:	14238612
Application Number:	14238783
Application Number:	14238971
Application Number:	14239637
Application Number:	14239678
Application Number:	14239923
Application Number:	14239947
Application Number:	14239949
Application Number:	14239973
Application Number:	14239986
Application Number:	14240027
Application Number:	14240037
Application Number:	14240074
Application Number:	14240194
Application Number:	14240245

PATENT

REEL. 034194 FRAME. 0222

Property Type	Number
Application Number:	14240254
Application Number:	14240303
Application Number:	14240557
Application Number:	14240708
Application Number:	14240777
Application Number:	14240784
Application Number:	14240812
Application Number:	14241033
Application Number:	14241117
Application Number:	14241181
Application Number:	14241204
Application Number:	14241258
Application Number:	14241353
Application Number:	14241433
Application Number:	14241541
Application Number:	14241639
Application Number:	14241701
Application Number:	14241735
Application Number:	14241791
Application Number:	14241800
Application Number:	14242027
Application Number:	14242160
Application Number:	14242301
Application Number:	14243906
Application Number:	14243913
Application Number:	14244139
Application Number:	14244593
Application Number:	14244612
Application Number:	14246468
Application Number:	14246620
Application Number:	14247656
Application Number:	14249697
Application Number:	14249838
Application Number:	14249881
Application Number:	14250488
Application Number:	14250859
Application Number:	14250882
Application Number:	14250888
Application Number:	14250900

PATENT

REEL. 034194 FRAME. 0223

Property Type	Number
Application Number:	14250908
Application Number:	14251646
Application Number:	14251722
Application Number:	14252017
Application Number:	14254049
Application Number:	14254520
Application Number:	14254919
Application Number:	14256017
Application Number:	14256114
Application Number:	14256701
Application Number:	14257099
Application Number:	14257525
Application Number:	14257546
Application Number:	14257924
Application Number:	14259354
Application Number:	14259450
Application Number:	14259559
Application Number:	14259664
Application Number:	14259951
Application Number:	14259968
Application Number:	14260244
Application Number:	14262174
Application Number:	14262256
Application Number:	14262412
Application Number:	14264257
Application Number:	14264748
Application Number:	14264752
Application Number:	14264950
Application Number:	14265222
Application Number:	14265613
Application Number:	14267073
Application Number:	14267680
Application Number:	14269500
Application Number:	14269596
Application Number:	14269605
Application Number:	14271874
Application Number:	14272695
Application Number:	14273496
Application Number:	14273800

PATENT

REEL. 034194 FRAME. 0224

Property Type	Number
Application Number:	14275348
Application Number:	14275482
Application Number:	14275584
Application Number:	14275769
Application Number:	14276208
Application Number:	14276828
Application Number:	14276962
Application Number:	14277268
Application Number:	14277278
Application Number:	14277377
Application Number:	14277387
Application Number:	14278269
Application Number:	14279120
Application Number:	14279129
Application Number:	14279303
Application Number:	14279941
Application Number:	14280904
Application Number:	14280917
Application Number:	14281322
Application Number:	14281507
Application Number:	14281943
Application Number:	14282851
Application Number:	14284141
Application Number:	14284554
Application Number:	14284580
Application Number:	14284982
Application Number:	14285310
Application Number:	14285360
Application Number:	14285886
Application Number:	14287750
Application Number:	14287777
Application Number:	14290159
Application Number:	14290311
Application Number:	14290366
Application Number:	14292251
Application Number:	14292410
Application Number:	14292942
Application Number:	14293169
Application Number:	14293236

PATENT

REEL. 034194 FRAME. 0225

Property Type	Number
Application Number:	14293441
Application Number:	14293770
Application Number:	14295508
Application Number:	14295515
Application Number:	14295596
Application Number:	14295956
Application Number:	14296469
Application Number:	14296619
Application Number:	14296989
Application Number:	14297018
Application Number:	14297755
Application Number:	14298722
Application Number:	14299345
Application Number:	14299383
Application Number:	14299680
Application Number:	14300657
Application Number:	14300737
Application Number:	14301144
Application Number:	14301410
Application Number:	14301450
Application Number:	14301691
Application Number:	14303354
Application Number:	14303408
Application Number:	14303453
Application Number:	14303478
Application Number:	14303608
Application Number:	14303839
Application Number:	14305319
Application Number:	14306601
Application Number:	14306671
Application Number:	14306742
Application Number:	14306797
Application Number:	14306927
Application Number:	14306950
Application Number:	14307033
Application Number:	14307683
Application Number:	14308123
Application Number:	14309026
Application Number:	14309080

PATENT

REEL. 034194 FRAME. 0226

Property Type	Number
Application Number:	14309218
Application Number:	14309325
Application Number:	14309940
Application Number:	14310136
Application Number:	14311910
Application Number:	14312807
Application Number:	14313107
Application Number:	14313176
Application Number:	14313385
Application Number:	14313433
Application Number:	14313454
Application Number:	14313483
Application Number:	14314197
Application Number:	14314319
Application Number:	14314341
Application Number:	14316187
Application Number:	14316602
Application Number:	14316803
Application Number:	14317242
Application Number:	14317420
Application Number:	14318037
Application Number:	14319042
Application Number:	14320378
Application Number:	14320648
Application Number:	14320693
Application Number:	14321505
Application Number:	14321967
Application Number:	14322001
Application Number:	14322059
Application Number:	14322780
Application Number:	14323114
Application Number:	14324556
Application Number:	14324725
Application Number:	14325451
Application Number:	14325835
Application Number:	14326510
Application Number:	14326683
Application Number:	14326690
Application Number:	14327181

PATENT

REEL. 034194 FRAME. 0227

Property Type	Number
Application Number:	14327778
Application Number:	14327874
Application Number:	14328771
Application Number:	14328873
Application Number:	14329567
Application Number:	14330371
Application Number:	14331483
Application Number:	14331750
Application Number:	14333046
Application Number:	14333821
Application Number:	14334045
Application Number:	14334065
Application Number:	14334771
Application Number:	14335506
Application Number:	14337221
Application Number:	14337348
Application Number:	14337447
Application Number:	14338058
Application Number:	14338510
Application Number:	14338535
Application Number:	14338753
Application Number:	14339216
Application Number:	14339635
Application Number:	14339702
Application Number:	14340288
Application Number:	14340508
Application Number:	14340518
Application Number:	14340568
Application Number:	14341965
Application Number:	14342026
Application Number:	14342151
Application Number:	14342275
Application Number:	14342415
Application Number:	14342448
Application Number:	14342484
Application Number:	14342693
Application Number:	14342695
Application Number:	14342699
Application Number:	14342739

PATENT

REEL. 034194 FRAME. 0226

Property Type	Number
Application Number:	14342772
Application Number:	14342796
Application Number:	14342824
Application Number:	14342935
Application Number:	14342950
Application Number:	14343184
Application Number:	14343198
Application Number:	14343270
Application Number:	14343343
Application Number:	14343417
Application Number:	14343428
Application Number:	14343441
Application Number:	14343536
Application Number:	14343668
Application Number:	14343978
Application Number:	14344034
Application Number:	14344045
Application Number:	14344095
Application Number:	14344130
Application Number:	14344287
Application Number:	14344331
Application Number:	14344410
Application Number:	14344545
Application Number:	14344636
Application Number:	14344673
Application Number:	14344693
Application Number:	14344772
Application Number:	14344850
Application Number:	14344893
Application Number:	14344896
Application Number:	14344942
Application Number:	14344949
Application Number:	14345055
Application Number:	14345149
Application Number:	14345297
Application Number:	14345449
Application Number:	14345888
Application Number:	14346108
Application Number:	14346211

PATENT

REEL. 034194 FRAME. 0229

Property Type	Number
Application Number:	14346256
Application Number:	14346266
Application Number:	14346649
Application Number:	14346866
Application Number:	14347056
Application Number:	14347169
Application Number:	14347177
Application Number:	14347331
Application Number:	14347364
Application Number:	14347412
Application Number:	14347574
Application Number:	14347593
Application Number:	14347867
Application Number:	14347935
Application Number:	14347947
Application Number:	14348252
Application Number:	14348677
Application Number:	14348787
Application Number:	14348936
Application Number:	14349215
Application Number:	14349292
Application Number:	14349300
Application Number:	14349527
Application Number:	14349740
Application Number:	14349949
Application Number:	14350318
Application Number:	14350497
Application Number:	14350673
Application Number:	14350787
Application Number:	14350788
Application Number:	14350974
Application Number:	14351293
Application Number:	14351369
Application Number:	14351429
Application Number:	14351957
Application Number:	14352019
Application Number:	14352188
Application Number:	14352254
Application Number:	14352372

PATENT

REEL. 034194 FRAME. 0230

Property Type	Number
Application Number:	14352577
Application Number:	14352637
Application Number:	14352657
Application Number:	14353113
Application Number:	14353291
Application Number:	14353340
Application Number:	14353345
Application Number:	14353385
Application Number:	14354077
Application Number:	14354104
Application Number:	14354105
Application Number:	14354108
Application Number:	14355022
Application Number:	14355059
Application Number:	14355141
Application Number:	14355343
Application Number:	14355604
Application Number:	14356070
Application Number:	14356272
Application Number:	14356426
Application Number:	14356453
Application Number:	14356476
Application Number:	14356485
Application Number:	14356651
Application Number:	14356658
Application Number:	14357033
Application Number:	14357252
Application Number:	14357491
Application Number:	14357543
Application Number:	14358028
Application Number:	14358071
Application Number:	14358173
Application Number:	14358409
Application Number:	14358545
Application Number:	14358706
Application Number:	14358826
Application Number:	14358969
Application Number:	14358978
Application Number:	14358996

PATENT

REEL. 034194 FRAME. 0231

Property Type	Number
Application Number:	14359094
Application Number:	14359260
Application Number:	14359322
Application Number:	14359406
Application Number:	14359464
Application Number:	14359469
Application Number:	14359547
Application Number:	14359564
Application Number:	14359582
Application Number:	14359785
Application Number:	14359843
Application Number:	14359844
Application Number:	14359892
Application Number:	14359899
Application Number:	14359909
Application Number:	14360100
Application Number:	14360228
Application Number:	14360400
Application Number:	14360428
Application Number:	14360476
Application Number:	14360770
Application Number:	14360812
Application Number:	14360834
Application Number:	14360872
Application Number:	14360953
Application Number:	14361160
Application Number:	14361201
Application Number:	14361228
Application Number:	14361237
Application Number:	14361253
Application Number:	14361266
Application Number:	14361508
Application Number:	14361570
Application Number:	14361687
Application Number:	14362009
Application Number:	14362141
Application Number:	14362473
Application Number:	14362574
Application Number:	14362628

PATENT

REEL. 034194 FRAME. 0232

Property Type	Number
Application Number:	14362855
Application Number:	14363136
Application Number:	14363173
Application Number:	14363359
Application Number:	14363705
Application Number:	14364034
Application Number:	14364368
Application Number:	14364508
Application Number:	14364527
Application Number:	14364537
Application Number:	14364575
Application Number:	14364823
Application Number:	14364911
Application Number:	14364914
Application Number:	14365323
Application Number:	14365349
Application Number:	14365463
Application Number:	14365534
Application Number:	14365639
Application Number:	14365674
Application Number:	14365706
Application Number:	14365845
Application Number:	14365972
Application Number:	14366019
Application Number:	14366643
Application Number:	14366702
Application Number:	14366970
Application Number:	14367124
Application Number:	14367626
Application Number:	14367810
Application Number:	14368048
Application Number:	14368061
Application Number:	14368319
Application Number:	14368375
Application Number:	14368411
Application Number:	14368414
Application Number:	14368520
Application Number:	14368612
Application Number:	14368716

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REEL. 034194 FRAME. 0233

Property Type	Number
Application Number:	14368740
Application Number:	14368947
Application Number:	14369140
Application Number:	14369169
Application Number:	14369830
Application Number:	14369895
Application Number:	14369940
Application Number:	14370125
Application Number:	14370172
Application Number:	14371129
Application Number:	14371331
Application Number:	14371417
Application Number:	14371723
Application Number:	14371750
Application Number:	14371865
Application Number:	14371968
Application Number:	14372122
Application Number:	14372142
Application Number:	14372420
Application Number:	14372645
Application Number:	14372700
Application Number:	14372825
Application Number:	14372907
Application Number:	14372952
Application Number:	14373033
Application Number:	14373086
Application Number:	14373171
Application Number:	14373335
Application Number:	14373559
Application Number:	14373820
Application Number:	14373827
Application Number:	14373959
Application Number:	14374138
Application Number:	14374198
Application Number:	14374373
Application Number:	14374379
Application Number:	14374528
Application Number:	14374544
Application Number:	14374659

PATENT

REEL. 034194 FRAME. 0234

Property Type	Number
Application Number:	14374669
Application Number:	14375010
Application Number:	14375106
Application Number:	14375118
Application Number:	14375149
Application Number:	14375156
Application Number:	14375303
Application Number:	14375367
Application Number:	14375397
Application Number:	14375596
Application Number:	14375685
Application Number:	14376013
Application Number:	14376034
Application Number:	14376083
Application Number:	14376335
Application Number:	14376571
Application Number:	14376574
Application Number:	14376575
Application Number:	14376694
Application Number:	14376811
Application Number:	14376900
Application Number:	14376984
Application Number:	14377379
Application Number:	14377425
Application Number:	14377430
Application Number:	14377832
Application Number:	14377965
Application Number:	14378095
Application Number:	14378191
Application Number:	14378240
Application Number:	14378313
Application Number:	14378317
Application Number:	14378435
Application Number:	14378439
Application Number:	14378602
Application Number:	14378603
Application Number:	14378844
Application Number:	14378930
Application Number:	14379154

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REEL. 034194 FRAME. 0235

Property Type	Number
Application Number:	14379167
Application Number:	14379323
Application Number:	14379394
Application Number:	14379487
Application Number:	14379535
Application Number:	14379637
Application Number:	14379714
Application Number:	14379759
Application Number:	14379838
Application Number:	14380046
Application Number:	14380308
Application Number:	14380324
Application Number:	14380326
Application Number:	14380644
Application Number:	14380654
Application Number:	14380769
Application Number:	14380979
Application Number:	14381061
Application Number:	14381298
Application Number:	14381340
Application Number:	14381657
Application Number:	14381684
Application Number:	14381931
Application Number:	14382239
Application Number:	14382249
Application Number:	14382648
Application Number:	14382749
Application Number:	14383075
Application Number:	14383151
Application Number:	14383280
Application Number:	14383373
Application Number:	14383413
Application Number:	14383960
Application Number:	14384052
Application Number:	14384214
Application Number:	14384376
Application Number:	14384679
Application Number:	14385773
Application Number:	14385863

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REEL. 034194 FRAME. 0236

Property Type	Number
Application Number:	14385971
Application Number:	14387385
Application Number:	14388349
Application Number:	14388734
Application Number:	14388993
Application Number:	14389044
Application Number:	14389053
Application Number:	14389525
Application Number:	14444017
Application Number:	14444207
Application Number:	14444275
Application Number:	14444302
Application Number:	14445553
Application Number:	14445588
Application Number:	14445811
Application Number:	14446514
Application Number:	14446650
Application Number:	14446660
Application Number:	14446945
Application Number:	14447147
Application Number:	14447315
Application Number:	14447631
Application Number:	14447744
Application Number:	14447791
Application Number:	14447843
Application Number:	14447871
Application Number:	14447907
Application Number:	14448069
Application Number:	14448112
Application Number:	14449879
Application Number:	14450044
Application Number:	14450293
Application Number:	14450576
Application Number:	14450999
Application Number:	14451588
Application Number:	14452065
Application Number:	14452629
Application Number:	14453614
Application Number:	14454067

PATENT

REEL. 034194 FRAME. 0237

Property Type	Number
Application Number:	14454970
Application Number:	14455446
Application Number:	14456443
Application Number:	14457334
Application Number:	14457413
Application Number:	14457564
Application Number:	14457665
Application Number:	14458182
Application Number:	14458402
Application Number:	14458493
Application Number:	14458511
Application Number:	14459837
Application Number:	14460125
Application Number:	14460372
Application Number:	14460602
Application Number:	14462503
Application Number:	14462509
Application Number:	14463381
Application Number:	14463439
Application Number:	14463671
Application Number:	14463927
Application Number:	14463989
Application Number:	14464545
Application Number:	14464921
Application Number:	14465288
Application Number:	14465298
Application Number:	14465416
Application Number:	14466120
Application Number:	14466165
Application Number:	14466389
Application Number:	14466397
Application Number:	14466413
Application Number:	14467063
Application Number:	14467103
Application Number:	14467279
Application Number:	14467316
Application Number:	14467377
Application Number:	14467389
Application Number:	14468311

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REEL. 034194 FRAME. 0236

Property Type	Number
Application Number:	14468324
Application Number:	14468571
Application Number:	14468653
Application Number:	14468718
Application Number:	14469165
Application Number:	14469316
Application Number:	14471407
Application Number:	14471431
Application Number:	14471469
Application Number:	14471538
Application Number:	14472614
Application Number:	14473171
Application Number:	14474186
Application Number:	14474189
Application Number:	14474286
Application Number:	14474473
Application Number:	14474613
Application Number:	14474634
Application Number:	14474920
Application Number:	14474938
Application Number:	14475338
Application Number:	14475807
Application Number:	14476046
Application Number:	14476736
Application Number:	14476739
Application Number:	14476742
Application Number:	14476755
Application Number:	14477409
Application Number:	14477625
Application Number:	14478369
Application Number:	14478415
Application Number:	14479003
Application Number:	14479739
Application Number:	14480947
Application Number:	14481604
Application Number:	14481955
Application Number:	14481960
Application Number:	14481965
Application Number:	14482165

PATENT

REEL. 034194 FRAME. 0239

Property Type	Number
Application Number:	14483010
Application Number:	14483141
Application Number:	14483149
Application Number:	14483161
Application Number:	14483734
Application Number:	14483770
Application Number:	14486084
Application Number:	14487099
Application Number:	14487440
Application Number:	14488088
Application Number:	14489496
Application Number:	14489520
Application Number:	14489534
Application Number:	14490030
Application Number:	14490045
Application Number:	14490843
Application Number:	14491030
Application Number:	14492084
Application Number:	14492087
Application Number:	14492181
Application Number:	14493481
Application Number:	14493558
Application Number:	14494599
Application Number:	14495904
Application Number:	14495912
Application Number:	14496214
Application Number:	14497622
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Application Number:	14499314
Application Number:	14499608
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Application Number:	14500163
Application Number:	14500210
Application Number:	14500566
Application Number:	14505751

PATENT

REEL. 034194 FRAME. 0240

CORRESPONDENCE DATA**Fax Number:**

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.

Email: epas.ipc@ml.jp.panasonic.com

Correspondent Name: PANASONIC CORPORATION

Address Line 1: 2-1-61, SHIROMI, CHUO-KU

Address Line 2: 7F OBP PANASONIC TOWER

Address Line 4: OSAKA, JAPAN 540-6207

ATTORNEY DOCKET NUMBER:	MEIGI-PIPM
--------------------------------	------------

NAME OF SUBMITTER:	CHIKA EDA
---------------------------	-----------

SIGNATURE:	/Chika EDA/
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DATE SIGNED:	11/10/2014
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Total Attachments: 27

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Assignment

Whereas, Panasonic Corporation of 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501, JAPAN, hereinafter referred to as "Assignor", is the owner of the entire right, title and interest in United States Patents mentioned in the attached schedule; and

Whereas, Panasonic Intellectual Property Management Co., Ltd., of 1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 540-6207 Japan, hereinafter referred to as "Assignee", desires to acquire the entire right, title and interest of the Assignor in the said U.S. Patents;

Now, therefore, for valuable consideration, receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to the above-named Assignee, its successors and assigns, the entire right, title and interest in the said U.S. Patents, and any reissues or re-examinations thereof, together with all claims for damages by reason of past infringement of the said U.S. Patents with the right to Assignee to sue for and collect the same for their own use and enjoyment.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Panasonic Corporation

Date: Nov. , 10, 2014

By: Koichi Nomura
Koichi Nomura
Authorized Signing Officer
Intellectual Property Center

<Schedule>**Patents**

Application Number	Application Number	Application Number	Application Number	Application Number
08/249157	11/393426	11/917247	12/182200	12/439602
09/831830	11/473327	11/919236	12/232202	12/443534
09/843962	11/473334	11/995600	12/239186	12/444055
09/959429	11/510668	11/996698	12/255981	12/444832
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10/048546	11/566997	11/997389	12/274957	12/461176
10/088468	11/567036	12/064799	12/278360	12/491994
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Application Number	Application Number	Application Number	Application Number	Application Number
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12/594246	12/677379	12/808287	12/933064	13/000682
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Application Number	Application Number	Application Number	Application Number	Application Number
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13/033677	13/071263	13/131755	13/148229	13/203841
13/034882	13/073335	13/132023	13/164011	13/203893
13/036871	13/075265	13/132219	13/165437	13/204096
13/037479	13/075560	13/133037	13/166025	13/209678
13/037683	13/082371	13/133766	13/166822	13/213136
13/038075	13/082415	13/139106	13/170355	13/215165
13/038824	13/083127	13/139115	13/170441	13/216826
13/044061	13/085560	13/140391	13/170517	13/220079
13/049138	13/085806	13/140889	13/171205	13/222657
13/049369	13/089315	13/142003	13/181805	13/224452
13/050272	13/110664	13/142135	13/183072	13/224632
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13/057610	13/121991	13/144181	13/201180	13/242596
13/057663	13/123339	13/144183	13/201890	13/246503
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13/254506	13/262131	13/280944	13/322109	13/371009
13/254906	13/262669	13/283942	13/322288	13/371032
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13/255378	13/263013	13/301229	13/322878	13/375265
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13/255393	13/264061	13/305775	13/329680	13/376369
13/256154	13/264128	13/305916	13/331701	13/376538
13/256527	13/264466	13/308893	13/335260	13/376779
13/257205	13/264689	13/311744	13/337326	13/377332
13/257210	13/265298	13/314902	13/340250	13/377596
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13/257805	13/265951	13/318930	13/352457	13/378609
13/258128	13/266271	13/319188	13/354399	13/378843
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13/381168	13/388344	13/393489	13/398023	13/435454
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13/381492	13/388533	13/393607	13/398138	13/443563
13/381858	13/388825	13/393617	13/399004	13/444131
13/381861	13/389377	13/393707	13/400779	13/444147
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13/382760	13/390663	13/394272	13/412618	13/451319
13/383073	13/390720	13/394280	13/413673	13/452059
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Application Number	Application Number	Application Number	Application Number	Application Number
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13/477352	13/498462	13/503066	13/510876	13/516408
13/477803	13/498472	13/503217	13/511024	13/516766
13/477844	13/498516	13/503434	13/511029	13/516843
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13/480478	13/498734	13/503763	13/511290	13/517085
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13/495060	13/499258	13/504316	13/512531	13/518044
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13/496045	13/499371	13/504372	13/512955	13/518137
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13/522397	13/558609	13/577146	13/580214	13/583786
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13/552995	13/576019	13/579717	13/582668	13/601523
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13/606524	13/628142	13/636844	13/640998	13/649656
13/607805	13/628159	13/636915	13/641250	13/650231
13/608429	13/628845	13/636926	13/641266	13/652868
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13/622557	13/636102	13/639585	13/645012	13/666301
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13/669545	13/683773	13/696343	13/700886	13/707483
13/669829	13/685407	13/696819	13/700964	13/708026
13/670551	13/685762	13/696990	13/701103	13/709123
13/670567	13/686064	13/696992	13/701141	13/709997
13/670670	13/686076	13/697635	13/701532	13/710040
13/670800	13/686103	13/697636	13/701554	13/711045
13/671757	13/686104	13/697850	13/701796	13/712604
13/671932	13/686112	13/697886	13/701864	13/713094
13/672002	13/686242	13/698181	13/701867	13/713105
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13/675378	13/688316	13/698727	13/702168	13/714736
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13/728599	13/746041	13/762483	13/779366	13/792561
13/728632	13/746509	13/762768	13/780483	13/792594
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13/731158	13/747910	13/764385	13/782173	13/793379
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13/732106	13/748924	13/765450	13/782777	13/794835
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13/806111	13/808537	13/811641	13/813777	13/816501
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13/807671	13/809865	13/812316	13/814367	13/817488
13/807672	13/809961	13/812347	13/814382	13/817650
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13/808193	13/810465	13/812909	13/814540	13/817952
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Application Number	Application Number	Application Number	Application Number	Application Number
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13/818286	13/820652	13/822816	13/824811	13/849602
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13/818706	13/821262	13/823484	13/826897	13/858981
13/818707	13/821280	13/823756	13/827680	13/860142
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13/935280	13/944150	13/951828	13/962507	13/978380
13/935292	13/944182	13/952097	13/963804	13/978386
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13/935671	13/945712	13/954085	13/969728	13/978712
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13/980026	13/982189	13/984611	13/990112	13/993373
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13/980207	13/982737	13/984779	13/990327	13/993626
13/980263	13/983017	13/984986	13/990597	13/993714
13/980296	13/983030	13/984992	13/990660	13/994253
13/980336	13/983071	13/985014	13/990733	13/994907
13/980422	13/983255	13/985297	13/990741	13/995053
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13/980690	13/983266	13/985435	13/990827	13/995208
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13/981084	13/983551	13/985645	13/991503	13/995383
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13/981518	13/983743	13/988752	13/992008	13/996743
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13/997299	14/001978	14/004041	14/006357	14/008129
13/997454	14/001985	14/004192	14/006415	14/008158
14/000237	14/002126	14/004205	14/006418	14/008220
14/000316	14/002224	14/004346	14/006421	14/008225
14/000346	14/002229	14/004447	14/006422	14/008233
14/000447	14/002293	14/004465	14/006437	14/008512
14/000499	14/002302	14/004531	14/006442	14/008750
14/000551	14/002331	14/004662	14/006445	14/008783
14/000644	14/002337	14/004698	14/006447	14/008799
14/000650	14/002423	14/004842	14/006509	14/009104
14/000737	14/002495	14/004865	14/006556	14/009105
14/000742	14/002508	14/004886	14/006568	14/009107
14/000756	14/002613	14/004892	14/006698	14/009131
14/000825	14/002651	14/004895	14/006731	14/009184
14/000826	14/002868	14/005026	14/006967	14/009200
14/000834	14/002958	14/005031	14/007091	14/009251
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14/001573	14/003269	14/005860	14/007733	14/013727
14/001631	14/003466	14/005864	14/007735	14/013939
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Application Number	Application Number	Application Number	Application Number	Application Number
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14/017650	14/029946	14/047427	14/058903	14/073870
14/019195	14/030578	14/048228	14/059281	14/074418
14/021003	14/030978	14/048435	14/059379	14/075297
14/021082	14/032477	14/048870	14/061588	14/075506
14/021253	14/032660	14/049009	14/061843	14/075859
14/022344	14/033623	14/049343	14/061883	14/078022
14/022655	14/033665	14/049884	14/062008	14/079529
14/022680	14/035722	14/051167	14/062077	14/079717
14/023389	14/036066	14/051181	14/062517	14/081248
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14/023511	14/037443	14/051279	14/063399	14/081958
14/023648	14/037451	14/051296	14/064253	14/082237
14/023658	14/037585	14/052518	14/064688	14/083288
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14/027638	14/042664	14/055002	14/068453	14/086262
14/027905	14/043719	14/055435	14/068850	14/086763
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14/094024	14/108439	14/113059	14/115658	14/117979
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14/095473	14/109286	14/113229	14/115910	14/118185
14/095946	14/109378	14/113258	14/115967	14/118595
14/096779	14/109411	14/113283	14/116065	14/118635
14/097353	14/109514	14/113370	14/116206	14/118644
14/098115	14/109644	14/113695	14/116249	14/118930
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14/126176	14/129285	14/131881	14/142632	14/157562
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14/160885	14/170919	14/182725	14/193856	14/203443
14/160984	14/170938	14/182730	14/193955	14/203618
14/161166	14/171176	14/183734	14/193965	14/204097
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14/162134	14/172584	14/184039	14/197041	14/206770
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14/164262	14/173057	14/186230	14/198006	14/209196
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14/165405	14/177301	14/191253	14/199180	14/219955
14/165744	14/177317	14/191436	14/199203	14/220011
14/165926	14/177360	14/191866	14/199283	14/220039
14/165989	14/177478	14/191911	14/200237	14/220133
14/166015	14/177651	14/192528	14/200260	14/220414
14/166785	14/178544	14/192563	14/201251	14/220501
14/167746	14/178576	14/192803	14/202107	14/220597
14/168453	14/178736	14/193582	14/202138	14/220599

Application Number	Application Number	Application Number	Application Number	Application Number
14/220771	14/232505	14/236002	14/239637	14/241791
14/221619	14/232595	14/236025	14/239678	14/241800
14/221737	14/232670	14/236107	14/239923	14/242027
14/222767	14/232716	14/236129	14/239947	14/242160
14/223309	14/232731	14/236211	14/239949	14/242301
14/224194	14/232862	14/236227	14/239973	14/243906
14/224898	14/233141	14/236241	14/239986	14/243913
14/224975	14/233144	14/236429	14/240027	14/244139
14/225119	14/233149	14/236488	14/240037	14/244593
14/225207	14/233242	14/236924	14/240074	14/244612
14/225426	14/233276	14/237094	14/240194	14/246468
14/225445	14/233515	14/237105	14/240245	14/246620
14/226444	14/233974	14/237178	14/240254	14/247656
14/227257	14/233981	14/237315	14/240303	14/249697
14/227379	14/234095	14/237318	14/240557	14/249838
14/227786	14/234187	14/237481	14/240708	14/249881
14/228511	14/234283	14/237591	14/240777	14/250488
14/228716	14/234471	14/237646	14/240784	14/250859
14/228738	14/234573	14/237666	14/240812	14/250882
14/229258	14/234606	14/237729	14/241033	14/250888
14/229365	14/234677	14/237804	14/241117	14/250900
14/231755	14/234685	14/238164	14/241181	14/250908
14/231801	14/234792	14/238181	14/241204	14/251646
14/232024	14/234956	14/238311	14/241258	14/251722
14/232028	14/235178	14/238395	14/241353	14/252017
14/232070	14/235411	14/238505	14/241433	14/254049
14/232122	14/235432	14/238514	14/241541	14/254520
14/232162	14/235503	14/238612	14/241639	14/254919
14/232319	14/235722	14/238783	14/241701	14/256017
14/232389	14/235789	14/238971	14/241735	14/256114

Application Number	Application Number	Application Number	Application Number	Application Number
14/256701	14/275348	14/287777	14/303354	14/314197
14/257099	14/275482	14/290159	14/303408	14/314319
14/257525	14/275584	14/290311	14/303453	14/314341
14/257546	14/275769	14/290366	14/303478	14/316187
14/257924	14/276208	14/292251	14/303608	14/316602
14/259354	14/276828	14/292410	14/303839	14/316803
14/259450	14/276962	14/292942	14/305319	14/317242
14/259559	14/277268	14/293169	14/306601	14/317420
14/259664	14/277278	14/293236	14/306671	14/318037
14/259951	14/277377	14/293441	14/306742	14/319042
14/259968	14/277387	14/293770	14/306797	14/320378
14/260244	14/278269	14/295508	14/306927	14/320648
14/262174	14/279120	14/295515	14/306950	14/320693
14/262256	14/279129	14/295596	14/307033	14/321505
14/262412	14/279303	14/295956	14/307683	14/321967
14/264257	14/279941	14/296469	14/308123	14/322001
14/264748	14/280904	14/296619	14/309026	14/322059
14/264752	14/280917	14/296989	14/309080	14/322780
14/264950	14/281322	14/297018	14/309218	14/323114
14/265222	14/281507	14/297755	14/309325	14/324556
14/265613	14/281943	14/298722	14/309940	14/324725
14/267073	14/282851	14/299345	14/310136	14/325451
14/267680	14/284141	14/299383	14/311910	14/325835
14/269500	14/284554	14/299680	14/312807	14/326510
14/269596	14/284580	14/300657	14/313107	14/326683
14/269605	14/284982	14/300737	14/313176	14/326690
14/271874	14/285310	14/301144	14/313385	14/327181
14/272695	14/285360	14/301410	14/313433	14/327778
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Application Number	Application Number	Application Number	Application Number	Application Number
14/328873	14/342448	14/344673	14/348252	14/353345
14/329567	14/342484	14/344693	14/348677	14/353385
14/330371	14/342693	14/344772	14/348787	14/354077
14/331483	14/342695	14/344850	14/348936	14/354104
14/331750	14/342699	14/344893	14/349215	14/354105
14/333046	14/342739	14/344896	14/349292	14/354108
14/333821	14/342772	14/344942	14/349300	14/355022
14/334045	14/342796	14/344949	14/349527	14/355059
14/334065	14/342824	14/345055	14/349740	14/355141
14/334771	14/342935	14/345149	14/349949	14/355343
14/335506	14/342950	14/345297	14/350318	14/355604
14/337221	14/343184	14/345449	14/350497	14/356070
14/337348	14/343198	14/345888	14/350673	14/356272
14/337447	14/343270	14/346108	14/350787	14/356426
14/338058	14/343343	14/346211	14/350788	14/356453
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14/338535	14/343428	14/346266	14/351293	14/356485
14/338753	14/343441	14/346649	14/351369	14/356651
14/339216	14/343536	14/346866	14/351429	14/356658
14/339635	14/343668	14/347056	14/351957	14/357033
14/339702	14/343978	14/347169	14/352019	14/357252
14/340288	14/344034	14/347177	14/352188	14/357491
14/340508	14/344045	14/347331	14/352254	14/357543
14/340518	14/344095	14/347364	14/352372	14/358028
14/340568	14/344130	14/347412	14/352577	14/358071
14/341965	14/344287	14/347574	14/352637	14/358173
14/342026	14/344331	14/347593	14/352657	14/358409
14/342151	14/344410	14/347867	14/353113	14/358545
14/342275	14/344545	14/347935	14/353291	14/358706
14/342415	14/344636	14/347947	14/353340	14/358826

Application Number	Application Number	Application Number	Application Number	Application Number
14/358969	14/361228	14/365639	14/371129	14/374669
14/358978	14/361237	14/365674	14/371331	14/375010
14/358996	14/361253	14/365706	14/371417	14/375106
14/359094	14/361266	14/365845	14/371723	14/375118
14/359260	14/361508	14/365972	14/371750	14/375149
14/359322	14/361570	14/366019	14/371865	14/375156
14/359406	14/361687	14/366643	14/371968	14/375303
14/359464	14/362009	14/366702	14/372122	14/375367
14/359469	14/362141	14/366970	14/372142	14/375397
14/359547	14/362473	14/367124	14/372420	14/375596
14/359564	14/362574	14/367626	14/372645	14/375685
14/359582	14/362628	14/367810	14/372700	14/376013
14/359785	14/362855	14/368048	14/372825	14/376034
14/359843	14/363136	14/368061	14/372907	14/376083
14/359844	14/363173	14/368319	14/372952	14/376335
14/359892	14/363359	14/368375	14/373033	14/376571
14/359899	14/363705	14/368411	14/373086	14/376574
14/359909	14/364034	14/368414	14/373171	14/376575
14/360100	14/364368	14/368520	14/373335	14/376694
14/360228	14/364508	14/368612	14/373559	14/376811
14/360400	14/364527	14/368716	14/373820	14/376900
14/360428	14/364537	14/368740	14/373827	14/376984
14/360476	14/364575	14/368947	14/373959	14/377379
14/360770	14/364823	14/369140	14/374138	14/377425
14/360812	14/364911	14/369169	14/374198	14/377430
14/360834	14/364914	14/369830	14/374373	14/377832
14/360872	14/365323	14/369895	14/374379	14/377965
14/360953	14/365349	14/369940	14/374528	14/378095
14/361160	14/365463	14/370125	14/374544	14/378191
14/361201	14/365534	14/370172	14/374659	14/378240

Application Number	Application Number	Application Number	Application Number	Application Number
14/378313	14/381684	14/445553	14/457334	14/467103
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14/378435	14/382239	14/445811	14/457564	14/467316
14/378439	14/382249	14/446514	14/457665	14/467377
14/378602	14/382648	14/446650	14/458182	14/467389
14/378603	14/382749	14/446660	14/458402	14/468311
14/378844	14/383075	14/446945	14/458493	14/468324
14/378930	14/383151	14/447147	14/458511	14/468571
14/379154	14/383280	14/447315	14/459837	14/468653
14/379167	14/383373	14/447631	14/460125	14/468718
14/379323	14/383413	14/447744	14/460372	14/469165
14/379394	14/383960	14/447791	14/460602	14/469316
14/379487	14/384052	14/447843	14/462503	14/471407
14/379535	14/384214	14/447871	14/462509	14/471431
14/379637	14/384376	14/447907	14/463381	14/471469
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14/379759	14/385773	14/448112	14/463671	14/472614
14/379838	14/385863	14/449879	14/463927	14/473171
14/380046	14/385971	14/450044	14/463989	14/474186
14/380308	14/387385	14/450293	14/464545	14/474189
14/380324	14/388349	14/450576	14/464921	14/474286
14/380326	14/388734	14/450999	14/465288	14/474473
14/380644	14/388993	14/451588	14/465298	14/474613
14/380654	14/389044	14/452065	14/465416	14/474634
14/380769	14/389053	14/452629	14/466120	14/474920
14/380979	14/389525	14/453614	14/466165	14/474938
14/381061	14/444017	14/454067	14/466389	14/475338
14/381298	14/444207	14/454970	14/466397	14/475807
14/381340	14/444275	14/455446	14/466413	14/476046
14/381657	14/444302	14/456443	14/467063	14/476736

Application Number	Application Number
14/476739	14/490843
14/476742	14/491030
14/476755	14/492084
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14/478369	14/493481
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14/479003	14/494599
14/479739	14/495904
14/480947	14/495912
14/481604	14/496214
14/481955	14/497622
14/481960	14/498022
14/481965	14/499314
14/482165	14/499608
14/483010	14/499803
14/483141	14/499817
14/483149	14/499940
14/483161	14/500043
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14/483770	14/500163
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