

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3098915

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
WILMINGTON TRUST COMPANY	10/17/2014

RECEIVING PARTY DATA

Name:	GM GLOBAL TECHNOLOGY OPERATIONS LLC
Street Address:	300 RENAISSANCE CENTER
City:	DETROIT
State/Country:	MICHIGAN
Postal Code:	48265-3000

PROPERTY NUMBERS Total: 1000

Property Type	Number
Application Number:	13624031
Application Number:	13624034
Application Number:	13624045
Application Number:	13624233
Application Number:	13625444
Application Number:	13625892
Application Number:	13626694
Application Number:	13626695
Application Number:	13627055
Application Number:	13627532
Application Number:	13627897
Application Number:	13627932
Application Number:	13628149
Application Number:	13628266
Application Number:	13628490
Application Number:	13628657
Application Number:	13628703
Application Number:	13628766
Application Number:	13628875
Application Number:	13630030
Application Number:	13630150

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Property Type	Number
Application Number:	13630172
Application Number:	13630300
Application Number:	13631515
Application Number:	13631655
Application Number:	13632670
Application Number:	13633161
Application Number:	13633185
Application Number:	13633188
Application Number:	13633936
Application Number:	13633938
Application Number:	13633941
Application Number:	13644554
Application Number:	13644777
Application Number:	13645042
Application Number:	13645545
Application Number:	13645638
Application Number:	13645731
Application Number:	13645742
Application Number:	13645749
Application Number:	13645753
Application Number:	13645798
Application Number:	13646774
Application Number:	13647471
Application Number:	13647473
Application Number:	13647477
Application Number:	13647478
Application Number:	13647586
Application Number:	13648293
Application Number:	13648307
Application Number:	13648387
Application Number:	13648395
Application Number:	13648870
Application Number:	13649201
Application Number:	13649227
Application Number:	13649388
Application Number:	13649614
Application Number:	13650519
Application Number:	13650536
Application Number:	13650540

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Property Type	Number
Application Number:	13650541
Application Number:	13650641
Application Number:	13650732
Application Number:	13651503
Application Number:	13651507
Application Number:	13651508
Application Number:	13651533
Application Number:	13652116
Application Number:	13652134
Application Number:	13652549
Application Number:	13653003
Application Number:	13653586
Application Number:	13653594
Application Number:	13653596
Application Number:	13653599
Application Number:	13653627
Application Number:	13653688
Application Number:	13653769
Application Number:	13654466
Application Number:	13654469
Application Number:	13654471
Application Number:	13654472
Application Number:	13654848
Application Number:	13654896
Application Number:	13654905
Application Number:	13655361
Application Number:	13655915
Application Number:	13655944
Application Number:	13656399
Application Number:	13656410
Application Number:	13656416
Application Number:	13657051
Application Number:	13657118
Application Number:	13657127
Application Number:	13657245
Application Number:	13657668
Application Number:	13658262
Application Number:	13658274
Application Number:	13658333

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Property Type	Number
Application Number:	13659197
Application Number:	13659279
Application Number:	13659581
Application Number:	13659611
Application Number:	13659976
Application Number:	13659984
Application Number:	13659985
Application Number:	13659988
Application Number:	13660001
Application Number:	13660020
Application Number:	13660073
Application Number:	13660075
Application Number:	13660083
Application Number:	13660089
Application Number:	13660178
Application Number:	13660541
Application Number:	13660588
Application Number:	13661063
Application Number:	13661660
Application Number:	13662301
Application Number:	13663324
Application Number:	13663834
Application Number:	13663937
Application Number:	13664459
Application Number:	13664461
Application Number:	13664476
Application Number:	13664481
Application Number:	13664485
Application Number:	13664486
Application Number:	13664681
Application Number:	13664749
Application Number:	13664798
Application Number:	13664890
Application Number:	13664936
Application Number:	13665018
Application Number:	13665127
Application Number:	13665187
Application Number:	13665809
Application Number:	13665964

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Property Type	Number
Application Number:	13665966
Application Number:	13665968
Application Number:	13666066
Application Number:	13666656
Application Number:	13667387
Application Number:	13668118
Application Number:	13668123
Application Number:	13668139
Application Number:	13669503
Application Number:	13669504
Application Number:	13669507
Application Number:	13669791
Application Number:	13669931
Application Number:	13669936
Application Number:	13669939
Application Number:	13669950
Application Number:	13670028
Application Number:	13670507
Application Number:	13670509
Application Number:	13670514
Application Number:	13670518
Application Number:	13670521
Application Number:	13670560
Application Number:	13670840
Application Number:	13670853
Application Number:	13670893
Application Number:	13670895
Application Number:	13670903
Application Number:	13670913
Application Number:	13670948
Application Number:	13670955
Application Number:	13670987
Application Number:	13671784
Application Number:	13671790
Application Number:	13671795
Application Number:	13671800
Application Number:	13671840
Application Number:	13671889
Application Number:	13671918

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Property Type	Number
Application Number:	13672046
Application Number:	13672080
Application Number:	13672126
Application Number:	13672135
Application Number:	13672231
Application Number:	13672271
Application Number:	13672276
Application Number:	13672281
Application Number:	13672866
Application Number:	13672895
Application Number:	13672920
Application Number:	13673181
Application Number:	13673269
Application Number:	13673283
Application Number:	13673325
Application Number:	13673539
Application Number:	13674518
Application Number:	13674993
Application Number:	13675010
Application Number:	13675363
Application Number:	13675667
Application Number:	13675964
Application Number:	13676150
Application Number:	13676154
Application Number:	13676157
Application Number:	13676164
Application Number:	13676794
Application Number:	13676896
Application Number:	13676900
Application Number:	13676906
Application Number:	13677978
Application Number:	13678063
Application Number:	13678191
Application Number:	13678622
Application Number:	13678642
Application Number:	13678652
Application Number:	13678758
Application Number:	13679118
Application Number:	13679352

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Property Type	Number
Application Number:	13679460
Application Number:	13679601
Application Number:	13679821
Application Number:	13679849
Application Number:	13680563
Application Number:	13680848
Application Number:	13680881
Application Number:	13680911
Application Number:	13681466
Application Number:	13681475
Application Number:	13681507
Application Number:	13681724
Application Number:	13681941
Application Number:	13681943
Application Number:	13681992
Application Number:	13683100
Application Number:	13683112
Application Number:	13683843
Application Number:	13685474
Application Number:	13685514
Application Number:	13685533
Application Number:	13685547
Application Number:	13685814
Application Number:	13686069
Application Number:	13686142
Application Number:	13686224
Application Number:	13686361
Application Number:	13686449
Application Number:	13686764
Application Number:	13686769
Application Number:	13686847
Application Number:	13687748
Application Number:	13687767
Application Number:	13687788
Application Number:	13687946
Application Number:	13688297
Application Number:	13688300
Application Number:	13688331
Application Number:	13688342

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Property Type	Number
Application Number:	13688347
Application Number:	13688355
Application Number:	13688364
Application Number:	13688847
Application Number:	13688863
Application Number:	13689009
Application Number:	13689840
Application Number:	13689854
Application Number:	13689862
Application Number:	13690270
Application Number:	13690886
Application Number:	13692762
Application Number:	13692796
Application Number:	13692923
Application Number:	13693140
Application Number:	13693166
Application Number:	13693185
Application Number:	13693410
Application Number:	13693728
Application Number:	13693953
Application Number:	13705398
Application Number:	13705526
Application Number:	13705753
Application Number:	13705775
Application Number:	13705938
Application Number:	13706211
Application Number:	13706392
Application Number:	13706396
Application Number:	13706400
Application Number:	13706781
Application Number:	13708563
Application Number:	13708752
Application Number:	13708762
Application Number:	13709137
Application Number:	13709801
Application Number:	13709807
Application Number:	13711337
Application Number:	13711347
Application Number:	13712016

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Property Type	Number
Application Number:	13712134
Application Number:	13712148
Application Number:	13712160
Application Number:	13712178
Application Number:	13712267
Application Number:	13712338
Application Number:	13712454
Application Number:	13712469
Application Number:	13712778
Application Number:	13712801
Application Number:	13713387
Application Number:	13713446
Application Number:	13713805
Application Number:	13714723
Application Number:	13715047
Application Number:	13715301
Application Number:	13715353
Application Number:	13715656
Application Number:	13715837
Application Number:	13716042
Application Number:	13716046
Application Number:	13716048
Application Number:	13716843
Application Number:	13716857
Application Number:	13716904
Application Number:	13716921
Application Number:	13716955
Application Number:	13717102
Application Number:	13717119
Application Number:	13717434
Application Number:	13717534
Application Number:	13717958
Application Number:	13719308
Application Number:	13719465
Application Number:	13720200
Application Number:	13720718
Application Number:	13720758
Application Number:	13721434
Application Number:	13722404

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Property Type	Number
Application Number:	13722810
Application Number:	13723546
Application Number:	13724268
Application Number:	13724328
Application Number:	13724505
Application Number:	13724943
Application Number:	13725111
Application Number:	13728882
Application Number:	13730375
Application Number:	13731247
Application Number:	13733373
Application Number:	13733377
Application Number:	13733401
Application Number:	13733414
Application Number:	13733475
Application Number:	13733940
Application Number:	13733945
Application Number:	13734408
Application Number:	13734488
Application Number:	13734544
Application Number:	13735144
Application Number:	13735331
Application Number:	13735429
Application Number:	13735576
Application Number:	13736181
Application Number:	13736186
Application Number:	13736190
Application Number:	13736197
Application Number:	13736200
Application Number:	13736350
Application Number:	13736803
Application Number:	13736977
Application Number:	13737074
Application Number:	13737227
Application Number:	13737237
Application Number:	13737299
Application Number:	13737315
Application Number:	13737319
Application Number:	13737336

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Property Type	Number
Application Number:	13737830
Application Number:	13738123
Application Number:	13739200
Application Number:	13739309
Application Number:	13739726
Application Number:	13739735
Application Number:	13739969
Application Number:	13740703
Application Number:	13740922
Application Number:	13740935
Application Number:	13740965
Application Number:	13741415
Application Number:	13741417
Application Number:	13741418
Application Number:	13741420
Application Number:	13741505
Application Number:	13741570
Application Number:	13741615
Application Number:	13741618
Application Number:	13741803
Application Number:	13741889
Application Number:	13742412
Application Number:	13742722
Application Number:	13742726
Application Number:	13742735
Application Number:	13742758
Application Number:	13742954
Application Number:	13742965
Application Number:	13743393
Application Number:	13743716
Application Number:	13743725
Application Number:	13743994
Application Number:	13744117
Application Number:	13744148
Application Number:	13744706
Application Number:	13744712
Application Number:	13744720
Application Number:	13744727
Application Number:	13744974

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Property Type	Number
Application Number:	13744990
Application Number:	13745006
Application Number:	13745016
Application Number:	13745025
Application Number:	13745039
Application Number:	13745201
Application Number:	13745209
Application Number:	13746065
Application Number:	13746071
Application Number:	13746156
Application Number:	13746164
Application Number:	13746177
Application Number:	13746183
Application Number:	13746227
Application Number:	13746243
Application Number:	13746339
Application Number:	13746537
Application Number:	13746558
Application Number:	13746785
Application Number:	13746861
Application Number:	13746863
Application Number:	13747048
Application Number:	13747275
Application Number:	13747512
Application Number:	13747518
Application Number:	13747690
Application Number:	13747922
Application Number:	13748137
Application Number:	13748192
Application Number:	13748202
Application Number:	13748711
Application Number:	13748846
Application Number:	13749195
Application Number:	13749220
Application Number:	13749380
Application Number:	13750291
Application Number:	13750408
Application Number:	13750421
Application Number:	13750426

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Property Type	Number
Application Number:	13750438
Application Number:	13750441
Application Number:	13750668
Application Number:	13750678
Application Number:	13750687
Application Number:	13751626
Application Number:	13751791
Application Number:	13751958
Application Number:	13752449
Application Number:	13752673
Application Number:	13754066
Application Number:	13754480
Application Number:	13755294
Application Number:	13755696
Application Number:	13755704
Application Number:	13755713
Application Number:	13755725
Application Number:	13755735
Application Number:	13755759
Application Number:	13756295
Application Number:	13756327
Application Number:	13756350
Application Number:	13756455
Application Number:	13756576
Application Number:	13756582
Application Number:	13756606
Application Number:	13756641
Application Number:	13756645
Application Number:	13756682
Application Number:	13756733
Application Number:	13756869
Application Number:	13757071
Application Number:	13757235
Application Number:	13757260
Application Number:	13757278
Application Number:	13757280
Application Number:	13757310
Application Number:	13757332
Application Number:	13757396

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Property Type	Number
Application Number:	13757914
Application Number:	13757989
Application Number:	13757994
Application Number:	13757996
Application Number:	13758004
Application Number:	13759114
Application Number:	13759128
Application Number:	13759380
Application Number:	13759389
Application Number:	13759603
Application Number:	13759606
Application Number:	13760357
Application Number:	13760550
Application Number:	13760558
Application Number:	13760611
Application Number:	13760805
Application Number:	13761424
Application Number:	13761435
Application Number:	13761440
Application Number:	13761445
Application Number:	13761471
Application Number:	13761535
Application Number:	13761541
Application Number:	13761888
Application Number:	13762549
Application Number:	13763207
Application Number:	13763272
Application Number:	13763281
Application Number:	13764224
Application Number:	13764280
Application Number:	13765028
Application Number:	13765122
Application Number:	13765420
Application Number:	13766252
Application Number:	13767320
Application Number:	13767384
Application Number:	13767550
Application Number:	13767633
Application Number:	13767909

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Property Type	Number
Application Number:	13767912
Application Number:	13767917
Application Number:	13767918
Application Number:	13768010
Application Number:	13768272
Application Number:	13768283
Application Number:	13768301
Application Number:	13768454
Application Number:	13768515
Application Number:	13768623
Application Number:	13769072
Application Number:	13769445
Application Number:	13769457
Application Number:	13769649
Application Number:	13769652
Application Number:	13770296
Application Number:	13770340
Application Number:	13770391
Application Number:	13771230
Application Number:	13771234
Application Number:	13771598
Application Number:	13772667
Application Number:	13772981
Application Number:	13773153
Application Number:	13773386
Application Number:	13773772
Application Number:	13773889
Application Number:	13773935
Application Number:	13773953
Application Number:	13773967
Application Number:	13773979
Application Number:	13773988
Application Number:	13773998
Application Number:	13774672
Application Number:	13775531
Application Number:	13775628
Application Number:	13775673
Application Number:	13775790
Application Number:	13776130

PATENT

REEL. 034287 FRAME. 0015

Property Type	Number
Application Number:	13776766
Application Number:	13776768
Application Number:	13776770
Application Number:	13776773
Application Number:	13776776
Application Number:	13777116
Application Number:	13777143
Application Number:	13777148
Application Number:	13777151
Application Number:	13777157
Application Number:	13777223
Application Number:	13777242
Application Number:	13777262
Application Number:	13777345
Application Number:	13777439
Application Number:	13777469
Application Number:	13777492
Application Number:	13777572
Application Number:	13778297
Application Number:	13778968
Application Number:	13779044
Application Number:	13779229
Application Number:	13779244
Application Number:	13779276
Application Number:	13779283
Application Number:	13779287
Application Number:	13780667
Application Number:	13780768
Application Number:	13780792
Application Number:	13780799
Application Number:	13780870
Application Number:	13780905
Application Number:	13782243
Application Number:	13782288
Application Number:	13782301
Application Number:	13782320
Application Number:	13782456
Application Number:	13782633
Application Number:	13782663

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Property Type	Number
Application Number:	13782669
Application Number:	13782683
Application Number:	13782691
Application Number:	13782705
Application Number:	13783343
Application Number:	13784171
Application Number:	13784375
Application Number:	13784885
Application Number:	13785413
Application Number:	13785431
Application Number:	13785440
Application Number:	13785450
Application Number:	13785571
Application Number:	13785663
Application Number:	13785716
Application Number:	13785783
Application Number:	13785909
Application Number:	13786807
Application Number:	13786861
Application Number:	13786944
Application Number:	13787078
Application Number:	13787318
Application Number:	13788317
Application Number:	13788448
Application Number:	13788564
Application Number:	13788678
Application Number:	13788787
Application Number:	13789379
Application Number:	13789412
Application Number:	13789725
Application Number:	13789767
Application Number:	13789804
Application Number:	13789880
Application Number:	13789883
Application Number:	13789888
Application Number:	13791884
Application Number:	13792913
Application Number:	13793192
Application Number:	13793243

PATENT

Property Type	Number
Application Number:	13793596
Application Number:	13794216
Application Number:	13794915
Application Number:	13794926
Application Number:	13794928
Application Number:	13794933
Application Number:	13794941
Application Number:	13794947
Application Number:	13795813
Application Number:	13796649
Application Number:	13796758
Application Number:	13797406
Application Number:	13797424
Application Number:	13797441
Application Number:	13797450
Application Number:	13797604
Application Number:	13798292
Application Number:	13798351
Application Number:	13798362
Application Number:	13798384
Application Number:	13798400
Application Number:	13798435
Application Number:	13798451
Application Number:	13798471
Application Number:	13798518
Application Number:	13798536
Application Number:	13798540
Application Number:	13798574
Application Number:	13798586
Application Number:	13798590
Application Number:	13798624
Application Number:	13798701
Application Number:	13798737
Application Number:	13798775
Application Number:	13798893
Application Number:	13799016
Application Number:	13799040
Application Number:	13799116
Application Number:	13799129

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Property Type	Number
Application Number:	13799181
Application Number:	13799340
Application Number:	13799459
Application Number:	13799771
Application Number:	13800427
Application Number:	13800541
Application Number:	13800621
Application Number:	13801187
Application Number:	13801629
Application Number:	13801987
Application Number:	13802972
Application Number:	13802981
Application Number:	13803000
Application Number:	13803031
Application Number:	13803040
Application Number:	13803098
Application Number:	13803290
Application Number:	13803475
Application Number:	13803683
Application Number:	13804151
Application Number:	13804349
Application Number:	13804497
Application Number:	13804548
Application Number:	13804620
Application Number:	13805425
Application Number:	13805445
Application Number:	13826122
Application Number:	13826168
Application Number:	13826206
Application Number:	13826242
Application Number:	13826290
Application Number:	13826324
Application Number:	13826506
Application Number:	13827745
Application Number:	13828321
Application Number:	13828352
Application Number:	13828753
Application Number:	13828755
Application Number:	13828838

PATENT

Property Type	Number
Application Number:	13828915
Application Number:	13828957
Application Number:	13832135
Application Number:	13832148
Application Number:	13832154
Application Number:	13832263
Application Number:	13832297
Application Number:	13832558
Application Number:	13832766
Application Number:	13832902
Application Number:	13832984
Application Number:	13833005
Application Number:	13833269
Application Number:	13833304
Application Number:	13833368
Application Number:	13833397
Application Number:	13833496
Application Number:	13833749
Application Number:	13834411
Application Number:	13834709
Application Number:	13835484
Application Number:	13835741
Application Number:	13835858
Application Number:	13835931
Application Number:	13836101
Application Number:	13836129
Application Number:	13836157
Application Number:	13836252
Application Number:	13836289
Application Number:	13836296
Application Number:	13836557
Application Number:	13836632
Application Number:	13836894
Application Number:	13837605
Application Number:	13837713
Application Number:	13837898
Application Number:	13838190
Application Number:	13838401
Application Number:	13838888

PATENT

Property Type	Number
Application Number:	13839085
Application Number:	13839124
Application Number:	13839261
Application Number:	13839425
Application Number:	13840030
Application Number:	13840230
Application Number:	13840458
Application Number:	13841031
Application Number:	13841397
Application Number:	13842823
Application Number:	13843978
Application Number:	13844102
Application Number:	13844205
Application Number:	13846075
Application Number:	13846967
Application Number:	13847187
Application Number:	13847190
Application Number:	13847774
Application Number:	13847780
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Application Number:	13848109
Application Number:	13848912
Application Number:	13849091
Application Number:	13849567
Application Number:	13849601
Application Number:	13850576
Application Number:	13850590
Application Number:	13850593
Application Number:	13850682
Application Number:	13851150
Application Number:	13851222
Application Number:	13852305
Application Number:	13852674
Application Number:	13853098
Application Number:	13853101
Application Number:	13853103
Application Number:	13853105
Application Number:	13853106
Application Number:	13854821

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Property Type	Number
Application Number:	13855928
Application Number:	13856107
Application Number:	13856553
Application Number:	13856622
Application Number:	13856676
Application Number:	13856736
Application Number:	13856888
Application Number:	13856927
Application Number:	13856956
Application Number:	13856973
Application Number:	13857011
Application Number:	13857429
Application Number:	13858151
Application Number:	13858152
Application Number:	13858153
Application Number:	13858155
Application Number:	13858157
Application Number:	13858478
Application Number:	13858769
Application Number:	13858998
Application Number:	13859001
Application Number:	13859003
Application Number:	13859109
Application Number:	13859628
Application Number:	13859641
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CORRESPONDENCE DATA

Fax Number: (248)267-4471

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ATTORNEY DOCKET NUMBER:	WT SI RELEASE-GMGTO 11
NAME OF SUBMITTER:	PATRICE UCHNO LELAND
SIGNATURE:	/Patrice Uchno Leland/
DATE SIGNED:	11/07/2014

Total Attachments: 112

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TERMINATION AND RELEASE OF SECURITY INTEREST IN PATENT RIGHTS

TERMINATION AND RELEASE dated as of October 17, 2014 from Wilmington Trust Company, a Delaware corporation, to General Motors LLC, a Delaware limited liability company ("GM LLC"), and GM Global Technology Operations LLC, a Delaware limited liability company, ("GMGTO") and, together with GM LLC, the "Releasees" and each a "Releasee").

WITNESSETH:

WHEREAS, in connection with the Security Agreement, dated as of October 27, 2010, GM LLC and GMGTO were required to execute and deliver that certain Patent Security Agreement, dated October 27, 2010 (the "Patent Security Agreement"), and certain supplements thereto from time to time (the "Supplements"), in the cases of the Patent Security Agreement and the Supplements, recorded in the United States Patent and Trademark Office;

WHEREAS, pursuant to the Patent Security Agreement or Supplement, as applicable, the Releasees granted to Wilmington Trust Company ("Releasor"), as agent for itself and various other financial institutions, a security interest in all right, title and interest in and to Patent Collateral (as such term is defined in the Patent Security Agreement) including, but not limited to, those Patent registrations and applications listed on Schedule A attached hereto (the "Patents"); and

WHEREAS, Releasor wishes to provide a document suitable for recording in the United States Patent and Trademark Office for purposes of recording the release, relinquishment and discharge of its security interest in the Patents.

NOW, THEREFORE, in consideration of and in exchange for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, Releasor hereby relinquishes, releases and discharges its security interest in the Patents.

IN WITNESS WHEREOF, the parties have caused this Termination and Release of Security Interest in Patents Rights to be duly executed as of the date first set forth above.

WILMINGTON TRUST COMPANY

By: *J. B. Feil*
Its: *Vice President*

[SIGNATURE PAGE TO GM PATENT RELEASE]

PATENT
REEL: 034287 FRAME: 0631

SCHEDULE A

[Insert Patent schedules]

CLINCHING METHOD AND TOOL FOR PERFORMING THE SAME
 BATTERY PACK THERMAL MANAGEMENT SYSTEM AND METHOD
 RECOVERABLE AND RECHARGEABLE BATTERY PACK
 SYSTEM AND METHOD FOR MANUFACTURING BATTERY BODY PANELS WITH IMPROVED COPPOUS RESISTANCE
 METHOD FOR MANUFACTURING LOW DISTORTION CARBURIZED GEAR
 THE KEY OF A MOTOR VEHICLE
 METHOD FOR CONTROLLING MOBILE COMMUNICATIONS
 SYSTEM AND METHOD FOR VEHICLE DRIVING STATE DETERMINATION
 MULTIMEDIA DEVICE FOR OPERATING AND CONTROLLING WITH A REMOTE CONTROL
 METHOD FOR CONTROLLING INJECTION OF DIESEL EXHAUST FLUID INTO AN EXHAUST PIPE OF AN INTERNAL COMBUSTION ENGINE
 METHOD AND APPARATUS FOR MEASURING A CONTROL SIGNAL IN A HYBRID VEHICLE
 SYSTEM AND METHOD FOR BALANCED STEERING OVERSTEER DETECTION DURING AUTOWATER LANE CENTERING
 METHOD AND APPARATUS FOR EFFECTING A DUTY OF A CATALYTIC CONVERTER IN A HYBRID POWERTRAIN SYSTEM
 SYSTEM AND METHOD FOR DETERMINING A POSITION OF A CATALYTIC CONVERTER IN A HYBRID POWERTRAIN SYSTEM
 EFFICIENT DETERMINATION FOR A SELECTIVE CATALYTIC REDUCTION CATALYST ACTUATION ARRANGEMENT FOR A VEHICLE POWERTRAIN
 DYNAMIC STEERING REGULATION SYSTEM AND METHOD FOR POWERTRAIN CONTROL
 SYSTEM AND METHOD FOR MODEL-BASED ALTRIMAL DUE TO CLUTCH CONTROL
 SYSTEM AND METHOD FOR ESTABLISHING A MASS FLOW RATE OF AIR ENTERING AN ENGINE
 SELECTABLE WINDOW SHADING SYSTEM FOR A MOTOR VEHICLE
 OPERATIONAL AND AIR FLOW OPTIMIZATION IN AN INTERNAL COMBUSTION ENGINE
 METHOD FOR THE DETECTION OF A COMPONENT MALFUNCTION ALONG THE LIFE OF AN INTERNAL COMBUSTION ENGINE
 FRONT HOOK FOR A MOTOR VEHICLE
 STABLE ELECTRICAL CONTACT FOR REPAIR BRUSH PLATE WATER MANAGEMENT
 METHOD FOR DETERMINING CLUTCH INTERFACE TEMPERATURES IN DRIVETRAIL CLUTCH TRANSMISSIONS
 ENGINE ASSEMBLY INCLUDING CAMSHAFT ACTUATION
 THERMAL MODEL FOR PIVOTAL CLUTCH TRANSMISSIONS
 METHOD OF TESTING AND TROUBLESHOOTING SOFT VEHICLE
 HYBRID VEHICLE WITH DUAL CLUTCH TRANSMISSION
 SYSTEM AND METHOD FOR PERFORMING SIGNAL TRANSMISSION ON FLUID USING ENGINE EXHAUST GAS FLOW STREAM
 COMPRESSION RATIO DETERMINATION AND CONTROL SYSTEMS AND METHODS
 BATTERY CELL WITH INTEGRATED LIQUID
 METHOD FOR CONTROLLING A MOTOR VEHICLE
 STATE ESTIMATION, DIAGNOSIS AND CONTROL USING ROAD SURFACE DRAINAGE
 MODEL-BASED ALTRIMAL PROCESSES AND TONS FOR IMPROVED SAFETY VEHICLE APPLICATIONS
 METHOD FOR MONITORING HYPERDRIVE SLIP FROM AN OXIDATION CATALYST
 APPROXIMATION AND METHOD FOR OPERATING A CLUTCH IN A TRANSMISSION
 SYSTEM AND METHOD FOR SOLAR-POWERED ENGINE THERMAL MANAGEMENT
 AUTOMATING AIR FILTERS TO FEEDBACK ON CELLULAR DEVICE
 MULTI-STEP TRANSMISSION
 METHOD FOR DETERMINING A POSITION OF A CATALYTIC CONVERTER DURING CATALYST LIGHT-ON
 FUEL INJECTION OF A DIESEL ENGINE
 VARIABLE TORQUE MOTOR SYSTEM
 SYSTEMS AND METHODS FOR DETERMINING DELTADENSITY VALUES IN A MULTI-CELL BATTERY
 SLOWING FLOW CONTROL SYSTEM FOR A TURBOCHARGED ENGINE
 CONTROLLED SUBMERSSION IN FUEL CONTROLLED VEHICLE CHASSIS
 SYSTEMS AND METHODS FOR DETERMINING A TARGET THERMAL CONDITIONING VALUE TO CONTROL A NON-RECHARGEABLE ENERGY STORAGE SYSTEM
 CONTROL OF AN INTERNAL FLOW RATE THROUGH A COVERED COMPONENT BY AN ADJUSTABLE SHUTTER
 LATCH OPERATING ON A VEHICLE
 SYSTEM FOR AN ELECTRIC MOTOR
 ENGINE ASSEMBLY AND METHOD OF MAKING
 METHOD COMPONENT IDENTIFICATION AND CORRELATION REGISTER REPORTING SYSTEM
 SYSTEM AND METHOD FOR CONTROLLING A DIESEL INJECTION
 VERIFICATION SOLUTION WARNING SYSTEM AND METHOD OF OPERATING THE SAME
 COORDINATION CHARTS FOR ENGINES INCLUDING LOW TEMPERATURE EXHAUST SYSTEMS
 PRESSURE SENSOR CONNECTION DETECTION SYSTEMS AND METHODS
 FORWARD LOOKING HYBRID VEHICLE CONTROL STRATEGY
 MULTI-STEP TRANSMISSION WITH AT LEAST ONE SELECTABLE ONE WAY CLUTCH
 APPROXIMATE ASSEMBLY IN AN ELECTRIC MOTOR
 HIGH EFFICIENCY DIRECT DRIVE ELECTRIC MOTOR
 FUEL CELL COMPRESSION ON REFLECTION SYSTEM USING DAMPING STRIPPING
 REAL TIME ESTIMATION OF CELL CORE TEMPERATURE CHANGE COMPONENT OF FIRST
 METHOD FOR USE WITH VEHICLE ELECTRICAL TRANSPORT CHARGERS CHANGE COMPRESSION IONIZATION RANGE
 SYSTEM AND METHOD FOR TONNAGE DENSITY IN A HYDROGEN CHARGE COMPRESSION IONIZATION RANGE
 ACTIVE MATERIAL, ACTIVATED MATERIAL ASSEMBLY
 COORDINABLE IONIZATION STATE REVERSIBLE TO METAL SURFACE, COMBUSTION
 METHOD AND APPARATUS TO OPERATE A WHEELER IN SYSTEM INCLUDING AN ELECTRIC MACHINE HAVING A DISCONNECTED HIGH-VOLTAGE BATTERY
 ADAPTATION OF TRAVEL AND VEHICLE RELATED DATA
 DUAL BATTERY MANAGEMENT FOR POWERTRAIN VOLTAGE CONTROL IN AUTOMOTIVE UTILIZATION BATTERY SYSTEMS
 METHOD OF CHARGING BATTERY PART WITH INSERT
 METHOD OF DETERMINING A STATE OF A VEHICLE ON A ROADWAY AND METHOD OF COMMUNICATING THE SAME
 FUSION OF STRUCTURAL AND OTHER FUNCTIONAL DEPENDENCIES FOR ROAD CLASSE ANALYSIS
 TRANSMISSION SYSTEM AND METHOD

Patent No.	Issue Date	Applicant	Inventor	Assignee
13109852	03 May 2011	Intellectual Ventures LLC	David A. Forster	Intellectual Ventures LLC
13109853	03 May 2011	Intellectual Ventures LLC	David A. Forster	Intellectual Ventures LLC
13109854	03 May 2011	Intellectual Ventures LLC	David A. Forster	Intellectual Ventures LLC
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13109861	03 May 2011	Intellectual Ventures LLC	David A. Forster	Intellectual Ventures LLC
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SHANGHAI JIAO TONG UNIVERSITY

130328156 METHOD AND SYSTEM FOR EVALUATING THE ROBERTS

130328157 CHANGING HAVING OPTIMIZED CRANKshaft LUBRICATION AND RELATED ENGINE AND METHOD FOR PRODUCING THE LUBRICATION SYSTEM

130328158 ELECTRIC MOTOR ASSEMBLY WITH ELECTRIC BRUSHING OF MOTOR BRUSHES TO REDUCE BACK ELECTROMOTIVE FORCE

130328159 METHOD FOR PRODUCING STEEL SHEET WITH HIGH STRENGTH AND DUCTILITY

130328160 ADAPTIVE HEAT EXCHANGE ARCHITECTURE FOR OPTIMAL ENERGY RECOVERY IN A WASTE HEAT RECOVERY ARCHITECTURE

130328161 ENHANCED BY THE CHANGE HEATER DIAGNOSTIC DETECTION SYSTEM FOR LIQUID COOLED HYBRID BATTERY MODE

130328162 DECELERATION BY THE BRIDGES OF TRANSMISSION SYSTEMS AND METHOD FOR CONTROLLING SAME

130328163 TROUBLE TRANSMISSION SYSTEM

130328164 METHOD FOR CONTROLLING OPERATION OF A VEHICLE SPEED ON PARAMETERS LEARNING DURING DRIVERS OPERATION OF ANOTHER VEHICLE

130328165 METHOD FOR CONTROLLING OPERATION OF A VEHICLE SPEED ON PARAMETERS LEARNING DURING DRIVERS OPERATION OF ANOTHER VEHICLE

130328166 MULTIPLE SPEED TRANSMISSION HAVING A BAND SHAVE

130328167 CLUTCH AND GEAR ARRANGEMENT FOR A FRONT WHEEL DRIVE VEHICLE

130328168 TRANSMISSION METHOD OF FORWARD SAME

130328169 VEHICLE DRIVE BELT INCLUDING

130328170 METHOD TO COMPLETE A LAMINATING CYCLE OF A RECOVERABLE ELASTIC SQUARES APPROPRIATION

130328171 SPECIAL PROCESSING RESPONSE TO A DETRIMED ACTIVE COMMAND ZONE IN A VEHICLE

130328172 SORT THROUGH ADAPTIVE CONTROL DUALITY CHECK

130328173 CONNECTION OF EXHAUST HEAT ENERGY RECOVERY THERMAL LOCALIZATION MODE (TLM)

130328174 CONTROL OF ENGINE WITH ACTIVE FUEL MANAGEMENT

130328175 FUEL INJECTION UNIT AND MOBILE DEVICE RUNNING WITH MISSING DEVICE NOTIFICATION

130328176 FUEL INJECTION UNIT AND MOBILE DEVICE RUNNING WITH MISSING DEVICE NOTIFICATION

130328177 Kettensysteme einstellbar durch ein Kettensystem

130328178 Method for determining the number of teeth of a gear based on the number of teeth of a gear and the number of teeth of a gear

130328179 SELECTING VISIBLE REGIONS IN NIGHTTIME IMAGES FOR REMOVING DARK SPOT DETECTION

130328180 MULTI-STEP TRANSMISSION

130328181 DATA USE AND REDUNDANT AND REDUNDANT DATA USE IN A MOTOR VEHICLE

130328182 METHOD FOR CONTROLLING OPERATION OF A VEHICLE SPEED ON PARAMETERS LEARNING DURING DRIVERS OPERATION OF ANOTHER VEHICLE

130328183 HEAT FLOW MANAGEMENT AND FUEL STRUCTURE OF A BELT-SUPPORTING AUTOMOTIVE BODY

130328184 INTERNAL COMBUSTION ENGINE UTILIZING DUAL COMPRESSION AND SINGLE EXPANSION PROCESS

130328185 DRIVE UNIT AND METHOD FOR CONTROLLING OPERATION OF A VEHICLE SPEED ON PARAMETERS LEARNING DURING DRIVERS OPERATION OF ANOTHER VEHICLE

130328186 COMPENSATE ADJUSTMENT

130328187 FUEL OIL FLOW CONTROL

130328188 SPECIAL SIGNAL PROCESSING RESPONSE TO LOW NOISE LEVELS

130328189 SELECTABLE AND CONTROLLABLE REMOTE SIGNAL MODULATED MAGNETIC FIELDS

130328190 VEHICLE FRONT FENDER

130328191 VEHICLE FRONT FENDER

130328192 MULTI-STEP TRANSMISSION

130328193 CAR ENGINE STARTING IN A MOTOR VEHICLE WITH A REMOTE STARTER

130328194 NINE-SPEED AUTOMATIC TRANSMISSION

130328195 TRANSMISSION CONTROL METHOD FOR A FUEL CELL SYSTEM IN A FUEL CELL

130328196 VEHICLE FRONT FENDER

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