

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Pacific Century Motors, Inc.</td> <td>01/26/2012</td> </tr> <tr> <td>Nexteer (Beijing) Technology Co., Ltd.</td> <td>01/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	Pacific Century Motors, Inc.	01/26/2012	Nexteer (Beijing) Technology Co., Ltd.	01/26/2012				
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Pacific Century Motors, Inc.	01/26/2012										
Nexteer (Beijing) Technology Co., Ltd.	01/26/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Steering Solutions IP Holding Corporation</td> </tr> <tr> <td>Street Address:</td> <td>3900 Holland Road</td> </tr> <tr> <td>City:</td> <td>Saginaw</td> </tr> <tr> <td>State/Country:</td> <td>MICHIGAN</td> </tr> <tr> <td>Postal Code:</td> <td>48601</td> </tr> </table>		Name:	Steering Solutions IP Holding Corporation	Street Address:	3900 Holland Road	City:	Saginaw	State/Country:	MICHIGAN	Postal Code:	48601
Name:	Steering Solutions IP Holding Corporation										
Street Address:	3900 Holland Road										
City:	Saginaw										
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Postal Code:	48601										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12650661</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12650661						
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Application Number:	12650661										
CORRESPONDENCE DATA											
Fax Number: 8602860115 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 8602862929 Email: b davidson@cantorcolburn.com Correspondent Name: Cantor Colburn LLP Address Line 1: 20 Church Street Address Line 2: 22nd Floor Address Line 4: Hartford, CONNECTICUT 06103											
ATTORNEY DOCKET NUMBER:	MO50108US2										
NAME OF SUBMITTER:	Scott A. McBain										
Signature:	/SCOTTAMcBAIN/										
Date:	04/04/2013										

OP \$40.00 12650661

[illegible]

ASSIGNMENT

转让

This ASSIGNMENT AGREEMENT (this "Agreement"), is entered into as of the last date signed, by and among Pacific Century Motors, Inc., a corporation organized under the laws of China ("PCM"), Nexteer (Beijing) Technology Co. Ltd., a company organized under the laws of China ("Nexteer"), and Steering Solutions IP Holding Company, a Delaware corporation, having a place of business at 3900 Holland Drive, Saginaw, MI ("Steering Solutions"), the above collectively referred to herein as the "Parties".

这份转让协议（简称“协议”）是由根据中国法律组织的太平洋世纪（北京）汽车零部件有限公司（简称“PCM”），根据中国法律组织的耐世特北京技术有限公司（简称“耐世特”），以及一家被称作转向解决方案知识产权控股公司，并在密西根州沙基诺市荷兰路 3900 号营业的美国特拉华州公司（简称“转向解决方案”）等几家在最新的签署日缔结的。以上几家公司在这里将被合称为“各方”。

WITNESSETH:

阐明

WHEREAS, PCM and GM Global Technology Operations, Inc. ("GMGTO") are parties to (i) an Intellectual Property Joint Ownership Agreement dated November 30, 2010, (the "IP Agreement") in which GMGTO assigned all right, title and interest to GMGTO and PCM jointly, as a joint and undivided interest, in the Steering Technology Patents set forth in Schedule 1; and

鉴于，PCM 和通用汽车全球科技运营公司（简称“通用科技”）双方：(i) 在 2010 年 11 月 30 日缔结了知识产权共同所有协议（简称“知识产权协议”），在该协议中，通用科技把在明细表 1 中列举的转向技术专利的全部权利、所有权和利益转让给通用科技和 PCM，让其共同拥有不可分割的利益；而且

WHEREAS, PCM and Nexteer are parties to an Assignment and Assumption Agreement dated December 1, 2010 in which PCM assigned all of its right, title and interest in, and to the Steering Technology Patents, to Nexteer;

鉴于，PCM 和耐世特是在 2010 年 12 月 1 日签署的委任协议中的签约方，在该协议中 PCM 把转向技术专利的全部权利、所有权和利益转让给耐世特；

WHEREAS, Nexteer, is the owner of an undivided joint interest in and to the Steering Technology Patents; and

鉴于，耐世特是转向技术专利不可分割的共同利益的所有者；而且

WHEREAS, Steering Solutions is desirous of acquiring the entirety of PCM and Nexteer's, right, title and interest in and to the Steering Technology Patents.

鉴于，转向解决方案希望完整地获得 PCM 和耐世特在转向技术专利方面的权利、所有权和利益。

NOW, THEREFORE, in consideration of the mutual covenants contained herein and other valuable consideration, the receipt and sufficiency which is expressly acknowledged, the Parties agree as follows:

因此，基于本协议所包含的相互承诺及双方在此确认收讫并确认充分的，有效且有价值的对价，各方达成协议如下，以资信守：

PCM and Nexteer hereby assign, transfer and convey to Steering Solutions all of PCM and Nexteer's right, title and interest in, and to each and all of the Steering Technology Patents set forth in Schedule 1.

PCM 和耐世特特此向转向解决方案转让，过户和移交在明细表 1 中列举的每项和全部转向技术专利的全部权利、所有权和利益。

Steering Solutions hereby accepts the foregoing assignment and hereby agrees to perform all of the terms and conditions of the IP Agreement to be performed on the part of PCM and Nexteer and assumes all of the liabilities and obligations of PCM and Nexteer under the IP Agreement, including, without limitation, due performance of all the terms, covenants and conditions of PCM and Nexteer under the IP Agreement.

转向解决方案特此接受如上所述的转让，并且特此同意履行知识产权协议中应由 PCM 和耐世特履行的全部条款和条件，并且承担在知识产权协议中应由 PCM 和耐世特承担的全部责任和义务，包括但不限于，尽职尽责地履行在知识产权协议中应由 PCM 和耐世特履行的全部条款，契约和条件。

NOW, THEREFORE, pursuant to this Agreement, PCM and Nexteer and Steering Solutions hereby execute this document for the purpose of recording Steering Solution's above referenced joint and undivided interest in and to the Steering Technology Patents in the respective national patent offices of the Steering Technology Patents.

因此，依照本协议，PCM 和耐世特和转向解决方案以记录如上所指的由转向解决方案在各国转向技术专利所属专利局中备案的转向技术专利的共同拥有不可分割利益为目的而特此签署本文件

[SIGNATURES APPEAR ON FOLLOWING PAGES]

签名在下页

IN WITNESS WHEREOF, Pacific Century Motors, Inc. has hereunto executed this Assignment this ____ day of January, 2012.

特立此证, 太平洋世纪(北京)汽车零部件有限公司于2012年1月 日签署此转让协议

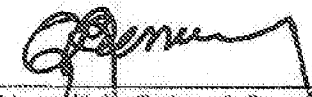
PACIFIC CENTURY MOTORS, INC.
太平洋世纪(北京)汽车零部件有限公司

By 由: 
Name 姓名: Yi Fan 樊毅
Title 头衔: Director 董事

IN WITNESS WHEREOF, NEXTEER (BEIJING) TECHNOLOGY CO., LTD. has hereunto executed this Assignment this ____ day of January, 2012.

特立此证, 耐世特北京技术有限公司于2012年1月 日签署此转让协议

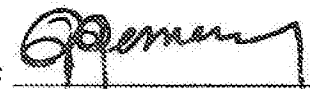
NEXTEER (BEIJING) TECHNOLOGY CO., LTD. 耐世特北京技术有限公司

By 由: 
Name 姓名: Robert J. Remenar
罗伯特-雷梅纳尔
Title 头衔: Director 董事

RR CORPORATION IN WITNESS WHEREOF, STEERING SOLUTIONS IP HOLDING COMPANY has hereunto executed this Assignment this ____ day of January, 2012.

特立此证, 转向解决方案知识产权控股公司于2012年1月 日签署此转让协议

RR CORPORATION STEERING SOLUTIONS IP HOLDING COMPANY 转向解决方案知识产权控股公司

By 由: 
Name 姓名: Robert J. Remenar
罗伯特-雷梅纳尔
Title 头衔: _____

Schedule 1

Client Ref.	Matter Code	Country	Title	App Serial No.	Filing Date	Patent No.	Date Issued
DP 300213	MO50327US	US	GEARING WITHOUT BACKLASH FOR ELECTRIC POWER STEERING	09/836874	4/17/2001	6454044	9/24/2002
DP 300214	MO50525US	US	CROSS LINK INTRA-VEHICULAR DATA COMMUNICATION USING A FIELD COUPLED TRANSMISSION LINE	10/004691	12/5/2001	7230954	6/12/2007
DP 300390	MO50585US	US	Rotary Actuator Assembly	09/677143	10/2/2000	6561304	5/13/2003
DP 300416	MO50328US	US	Electric Power Steering Assist Mechanism	09/414239	10/7/1999	6523431	2/25/2003
DP 300491	MO50329US	US	AUTOMATIC COMPENSATION FOR ELECTRIC POWER STEERING HYSTERESIS	09/657200	9/7/2000	6408234	6/18/2002
DP 300493	MO50330US	US	Electric Power Steering Assist Mechanism	09/414237	10/7/1999	6520042	2/18/2003
DP 300784	MO50332US2	US	Rack Ball Nut Interface	09/657918	9/8/2000	6499369	12/31/2002
DP 300792	MO50666US	US	Piezoresistive Torque Sensor	09/663030	9/15/2000	7011326	3/14/2006
DP 301063	MO50333US	US	TORQUE CURRENT COMPARISON FOR CURRENT REASONABLENESS DIAGNOSTICS IN A PERMANENT MAGNET ELECTRIC MACHINE	09/663448	9/15/2000	6392418	5/21/2002
DP 301063	MO50333USD	US	Current Determination in a Permanent Magnet Electric Machine	10/056634	1/23/2002	7042227	5/9/2006
DP 301065	MO50334US	US	MINIMIZATION OF MOTOR TORQUE RIPPLE DUE TO UNBALANCED CONDITIONS	09/659244	9/11/2000	6426602	7/30/2002
DP 301067	MO50335JP	JP	DP-301067 Tachometer Apparatus and Method for Motor Velocity	20010523877	9/14/2000	4750990	5/27/2011
DP 301067	MO50335US2	US	Tachometer Apparatus and Method for Motor Velocity Measurement	09/661657	9/14/2000	6498409	12/24/2002
DP 301067	MO50335USD	US	Method and System for Motor Velocity Measurement	10/116284	4/4/2002	6791217	9/14/2004
DP 301067	MO50335EP	EP	DP-301067 Tachometer Apparatus and Method for Motor Velocity	00964996.3	9/14/2000		
DP 301070	MO50337US2	US	Enhanced Motor Velocity Measurement Using a Blend of Fixed Period and Fixed Distance Techniques	09/659245	9/11/2000	6530269	3/11/2003
DP 301436	MO50272DE	DE	Double Flank Worm Gear Mech.....	00992594.2	12/1/2000	60034590	4/25/2007
DP 301436	MO50272EP	EP	electric power steering	00992594.2	12/1/2000	1238208	4/25/2007
DP 301436	MO50272FR	FR	Double Flank Worm Gear Mech.....	00992594.2	12/1/2000	1238208	4/25/2007
DP 301436	MO50272GB	GB	Double Flank Worm Gear Mech.....	00992594.2	12/1/2000	1238208	4/25/2007
DP 301436	MO50272IT	IT	Double Flank Worm Gear Mech.....	00992594.2	12/1/2000	1238208	4/25/2007
DP 301436	MO50272US2	US	Double Flank Worm Gear Mechanism	09/728244	12/1/2000	6776064	8/17/2004
DP 302442	MO50233US	US	Column Electronics Control Assembly	09/794854	2/27/2001	6731020	5/4/2004
DP-300132	MO50614USP	US	THERMAL CURRENT LIMITING APPARATUS AND METHOD FOR VEHICLE SYSTEM WITH ELECTRIC MOTOR ACTUATOR	09/329874	6/11/1999	6166502	12/26/2000
DP-300181	MO50475USD	US	MOUNTING APPARATUS FOR MOTOR VEHICLE STEERING COLUMN	10/655925	9/5/2003	6799780	10/5/2004

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DP-300280	MO50179DE	DE	HYDRAULICALLY BALANCED MULTI-VANE HYDRAULIC MOTOR	02075841.3	3/5/2002	1243794	8/8/2007
DP-300280	MO50179FR	FR	HYDRAULICALLY BALANCED MULTI-VANE HYDRAULIC MOTOR	02075841.3	3/5/2002	1243794	8/8/2007
DP-300280	MO50179US	US	HYDRAULICALLY BALANCED MULTI-VANE HYDRAULIC MOTOR	09/814677	3/21/2001	6481990	11/19/2002
DP-300280	MO50179EP	EP	HYDRAULICALLY BALANCED MULTI-VANE HYDRAULIC MOTOR	02075841.3	3/5/2002	1243794	8/8/2007
DP-300283	MO50142DE	DE	ENERGY ABSORBING COLUMN FOR MOTOR VEHICLE	00938265.6	6/12/2000	60006815	11/26/2003
DP-300283	MO50142EP	EP	ENERGY ABSORBING COLUMN FOR MOTOR VEHICLE	00938265.6	6/12/2000	1192072	11/26/2003
DP-300283	MO50142US2	US	ENERGY ABSORBING COLUMN FOR MOTOR VEHICLE	09/591977	6/12/2000	6322103	11/27/2001
DP-300283	MO50142USC	US	ENERGY ABSORBING COLUMN FOR MOTOR VEHICLE	09/970735	10/4/2001	6454302	9/24/2002
DP-300546	MO50378US	US	Sliding Vane Pump	09/748486	12/27/2000	6497557	12/24/2002
DP-300613	MO50296US	US	ENERGY ABSORBER FOR MOTOR VEHICLE STEERING COLUMN	09/723477	11/28/2000	6450532	9/17/2002
DP-300613	MO50296DE	DE	ENERGY ABSORBER FOR MOTOR VEHICLE STEERING COLUMN	1058314	11/28/2001		
DP-300614	MO50196US2	US	WEDGE TOOTH LOCKING MECHANISM	09/664032	9/18/2000	6419269	7/16/2002
DP-300614	MO50196USC	US	LOCKING SYSTEM FOR ADJUSTABLE POSITION STEERING COLUMN	10/177182	6/21/2002	6616185	9/9/2003
DP-300615	MO50197US2	US	CRASH RESPONSIVE ENERGY ABSORBING DEVICE FOR A STEERING COLUMN	10/272637	10/17/2002	6652002	11/25/2003
DP-300629	MO50526US	US	DEVICE FOR DISCONNECTING A NEUTRAL POINT IN A MOTOR	09/811935	3/19/2001	6577086	6/10/2003
DP-300635	MO50486US	US	UNIFORM COMPRESSION SEAL ADAPTOR	09/817556	3/26/2001	6672596	1/6/2004
DP-300640	MO50198US2	US	Fine increment tilt mechanism	09/824545	4/2/2001	6481310	11/19/2002
DP-300783	MO50199US	US	STEERING COLUMN TILT ASSEMBLY	09/824525	4/2/2001	6557434	5/6/2003
DP-300798	MO50487US	US	CONSTANT VELOCITY STROKING JOINT HAVING RECIRCULATING SPLINE BALLS	09/747785	12/22/2000	6582313	6/24/2003
DP-301043	MO50456US	US	CONSTANT VELOCITY STROKING JOINT	09/730485	12/5/2000	6443844	9/3/2002
DP-301064	MO50284DE	DE	METHOD AND APPARATUS FOR TORQUE LINEARIZATION IN AN ELECTRIC POWER STEERING SYSTEM	00959691.7	8/31/2000	60043893.7	2/24/2010
DP-301064	MO50284FR	FR	METHOD AND APPARATUS FOR TORQUE LINEARIZATION IN AN ELECTRIC POWER STEERING SYSTEM	00959691.7	8/31/2000	1216437	2/24/2010
DP-301064	MO50284US2	US	Method and Apparatus for Torque Linearization in an Electric Power Steering System	09/652237	8/31/2000	6441578	8/27/2002

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DP-301064	MO50284IT	IT	DP-301064 Voltage Torque Linerization....	00959691.7		1216437	2/24/2010
DP-301064	MO50284EP	EP	DP-301064 Voltage Torque Linerization....	00959691.7	8/31/2000	1216437	2/24/2010
DP-301088	MO50488US	US	CONSTANT VELOCITY JOINT	10/015874	12/13/2001	6692364	2/17/2004
DP-301173-P	MO50338US2	US	Gear Production Process	09/729385	12/4/2000	6638390	10/28/2003
DP-301310	MO50400US	US	LASH-FREE CABLE DRIVE	10/002571	11/1/2001	6612198	9/2/2003
DP-301331	MO50485US2	US	Fluid connection assembly	09/747784	12/22/2000	6776421	8/17/2004
DP-301374	MO50476US	US	STEERING COLUMN FOR MOTOR VEHICLE	09/730228	12/5/2000	6389924	5/21/2002
DP-301377	MO50339US	US	TRANSIENT COMPENSATION VOLTAGE ESTIMATION FOR FEEDFORWARD SINUSOIDAL BRUSHLESS MOTOR CONTROL	10/300146	11/19/2002	7157878	1/2/2007
DP-301385	MO50213US2	US	Method and Apparatus for Calibrating and Initializing an Electronically Commutated Motor	10/232356	8/30/2002	6826499	11/30/2004
DP-301385	MO50213EP	EP	Method and App aratus for Calibrating and intializing an Ele LEAN MANUFACTURING PROCESS FOR MAKING BALL- SCREW RACKS	02757505.9	8/30/2002		
DP-301495	MO50507US	US	SCREW RACKS	10/325210	12/19/2002	6706127	3/16/2004
DP-301594	MO50340US	US	Current Estimation for an Electric Machine	09/848643	5/3/2001	6549871	4/15/2003
DP-301821	MO50341US	US	Linear Differential Assisted Controlled Steering	09/812240	3/19/2001	6575265	6/10/2003
DP-301826	MO50587US	US	Drive-By-Wire Steering Systems Having a Stop Mechanism	10/060575	1/30/2002	6598695	7/29/2003
DP-301830	MO50288US	US	Automated Horizontally Structured Manufacturing Process Design Modeling	10/075804	10/24/2001	7099804	8/29/2006
DP-301830	MO50288US2	US	Automated Manufacturing Process Design	10/074753	2/12/2002		
DP-301831	MO50401US2	US	COLLAPSIBLE STEERING COLUMN AND METHOD	09/781540	2/8/2001	6435555	8/20/2002
DP-301951	MO50402US2	US	Responsive E/A system for steering columns	10/266666	10/8/2002	6641167	11/4/2003
DP-301953	MO50510US	US	HYDRAULIC PUMP RESERVOIR HAVING DEAERATION DIFFUSER	10/159053	5/31/2002	6783334	8/31/2004
DP-302033	MO50184US	US	SNAP-ON STEERING COLUMN SHROUD	10/078290	2/18/2002	6578449	6/17/2003
DP-302033	MO50184EP	EP	SNAP-ON STEERING COLUMN SHROUD	03075247.1	1/27/2003	1340654	7/20/2005
DP-302033-REI	MO50184USR	US	SNAP-ON STEERING COLUMN SHROUD	10/767959	1/29/2004	RE39440	12/26/2006
DP-302055	MO50306USC	US	Feedforward Parameter Estimation for Electric Machines control of independent steering actuators to improve vehicle stability and stopping	11/615232	12/22/2006	7576506	8/18/2009
DP-302178	MO50527US3	US		09/781678	2/12/2001	6719087	4/13/2004
DP-302191	MO50243DE	DE	Column Assist Isolation System	02076714.1	5/1/2002	60223622	11/27/2007
DP-302191	MO50243FR	FR	Column Assist Isolation System	02076714.1	5/1/2002	1262392	11/27/2007
DP-302191	MO50243US	US	Column Assist Isolation System	09/867298	5/29/2001	6550568	4/22/2003
DP-302191	MO50243EP	EP	Column Assist Isolation System	02076714.1	5/1/2002	1262392	11/27/2007

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DP-302248	MO50615USP	US	MOTOR VEHICLE WITH SUPPLEMENTAL REAR STEERING HAVING OPEN AND CLOSED LOOP MODES	09/921634	8/3/2001	6640171	10/28/2003
DP-302252	MO50455US2	US	VEHICLE RACK AND PINION STEERING Drive-By-Wire Steering Systems Having a Center Feel	09/802483	3/9/2001	6499753	12/31/2002
DP-302258	MO50589US	US	Mechanism and Methods of Providing	10/060528	1/30/2002	6705419	3/16/2004
DP-302279	MO50590US	US	Multi-module Control-by-wire Architecture	09/775143	2/1/2001	6424900	7/23/2002
DP-302333	MO50511US	US	VANE PUMP	09/781539	2/8/2001	6481992	11/19/2002
DP-302493	MO50591US	US	Drive-By-Wire Steering Systems Having Steering Wheel Return Mechanism	10/060689	1/30/2002	6708794	3/23/2004
DP-302499	MO50528US2	US	Method for Conforming a Signal to a Fault Requirement Using a Command Limiting Scheme	10/376843	2/28/2003	6738700	5/18/2004
DP-302501	MO50106EP	EP	Constant Velocity Joint	03705984.7	1/30/2003		
DP-302501	MO50106US2	US	CONSTANT VELOCITY JOINT	10/354702	1/30/2003	6688987	2/10/2004
DP-302506	MO50676US	US	two-stage switched reluctance motor drives for emi reduction and efficiency improvement	10/283880	10/30/2002	6987375	1/17/2006
DP-302613	MO50244DE	DE	Dual Triangle Wave (DTW) Revolution Offset Algorithm Improve	01964331.1	8/22/2001	60132903	2/20/2008
DP-302613	MO50244FR	FR	Dual Triangle Wave (DTW) Revolution Offset Algorithm Improve	01964331.1	8/22/2001	1313637	2/20/2008
DP-302613	MO50244US	US	Method And System For Applying Return Torque In A Vehicle Power Steering System	09/648815	8/25/2000	6367576	4/9/2002
DP-302613	MO50244GB	GB	Dual Triangle Wave (DTW) Revolution Offset Algorithm Improve	01964331.1		1313637	2/20/2008
DP-302613	MO50244IT	IT	Dual Triangle Wave (DTW) Revolution Offset Algorithm Improve	01964331.1		1313637	2/20/2008
DP-302613	MO50244EP	EP	Dual Triangle Wave (DTW) Revolution Offset Algorithm Improve	01964331.1	8/22/2001	1313637	2/20/2008
DP-302631	MO50215DE	DE	A Fractional Slot Winding Motor (6 Poles 27 Slots) for Sinus	02076492.4	4/15/2002	60238460.5	12/1/2010
DP-302631	MO50215FR	FR	A Fractional Slot Winding Motor (6 Poles 27 Slots) for Sinus	02076492.4	4/15/2002	1257040	12/1/2010
DP-302631	MO50215IT	IT	A Fractional Slot Winding Motor (6 Poles 27 Slots) for Sinus	02076492.4	4/15/2002	1257040	12/1/2010
DP-302631	MO50215US	US	Fractional-slot Winding Motor	09/850758	5/8/2001	6759780	7/6/2004
DP-302631	MO50215EP	EP	A Fractional Slot Winding Motor (6 Poles 27 Slots) for Sinus	02076492.4	4/15/2002	1257040	12/1/2010
DP-302635	MO50365US	US	Method and Apparatus for a Limit Switch	09/874608	6/5/2001	6469265	10/22/2002
DP-302794	MO50245DE	DE	Robust Fault Detection Method To Meet Vehicle Safety	01959644.4	8/8/2001	60131415	11/14/2007
DP-302794	MO50245FR	FR	Robust Fault Detection Method To Meet Vehicle Safety	01959644.4	8/8/2001	1311421	11/14/2007

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DP-302794	MO50245US	US	robust fault detection method	09/634439	8/8/2000	6389338	5/14/2002
DP-302794	MO50245GB	GB	Robust Fault Detection Method To Meet Vehicle Safety	01959644.4		1311421	11/14/2007
DP-302794	MO50245EP	EP	Robust Fault Detection Method To Meet Vehicle Safety	01959644.4	8/8/2001	1311421	11/14/2007
DP-302805	MO50675EP	EP	Automotive steering gear	00203261.3	9/20/2000	1086880	12/3/2008
						6020040075	
DP-302811	MO50185DE	DE	CONSTANT VELOCITY UNIVERSAL JOINT	04076563.8	5/27/2004	84	7/18/2007
DP-302811	MO50185FR	FR	CONSTANT VELOCITY UNIVERSAL JOINT	04076563.8	5/27/2004	1486692	7/18/2007
DP-302811	MO50185US	US	CONSTANT VELOCITY UNIVERSAL JOINT	10/457622	6/9/2003	7008326	3/7/2006
DP-302811	MO50185EP	EP	CONSTANT VELOCITY UNIVERSAL JOINT	04076563.8	5/27/2004	1486692	7/18/2007
DP-302818	MO50529US	US	Robust Steering-Pull Torque Compensation	09/954886	9/18/2001	6965820	11/15/2005
			Permanent Magnet Structure for Brushless Motor And Power Assist Actuator Using The Same				
DP-302819	MO50530US	US	Permanent Magnet Structure for Brushless Motor And Power Assist Actuator Using The Same	09/850753	5/8/2001	6713921	3/30/2004
DP-302820	MO50218EP	EP	Robust Sensor Offset Learning Algorithm	02078138.1	7/30/2002	1288629	12/28/2011
			Method for Updating a Sensor Using a Robust Offset Learning Algorithm				
DP-302820	MO50218US	US	Method for Updating a Sensor Using a Robust Offset Learning Algorithm	09/940111	8/27/2001	6564125	5/13/2003
			Enhanced Damping Algorithm for a Voltage Mode Controlled Bru				
DP-302843	MO50219DE	DE	Enhanced Damping Algorithm for a Voltage Mode Controlled Bru	01928427.2	4/9/2001	1277107	11/4/2009
			Enhanced Damping Algorithm for a Voltage Mode Controlled Bru				
DP-302843	MO50219FR	FR	Enhanced Damping Algorithm for a Voltage Mode Controlled Bru	01928427.2	4/9/2001	1277107	11/4/2009
			Damping of Voltage-Controlled Brushless Motors for Electric Power Steering Systems				
DP-302843	MO50219US	US	Damping of Voltage-Controlled Brushless Motors for Electric Power Steering Systems	09/829311	4/9/2001	6647329	11/11/2003
			Enhanced Damping Algorithm for a Voltage Mode Controlled Bru				
DP-302843	MO50219EP	EP	Enhanced Damping Algorithm for a Voltage Mode Controlled Bru	01928427.2	4/9/2001	1277107	11/4/2009
DP-302955	MO50403US	US	STEERING COLUMN LOWER BRACKET	09/898947	7/3/2001	6592148	7/15/2003
DP-303049	MO50592US	US	Steer-by-wire Redundant HandWheel Control	09/915887	7/26/2001	6588540	7/8/2003
DP-303057	MO50246DE	DE	Motor Temperature Estimation Initialization for Electric Pow	02078019.3	7/24/2002	60223466	11/14/2007
DP-303057	MO50246FR	FR	Motor Temperature Estimation Initialization for Electric Pow	02078019.3	7/24/2002	1285841	11/14/2007
DP-303057	MO50246US	US	active temperature estimation for electric machines	10/013914	12/11/2001	7071649	7/4/2006
DP-303057	MO50246GB	GB	Motor Temperature Estimation Initialization for Electric Pow	02078019.3		1285841	11/14/2007
DP-303057	MO50246EP	EP	Motor Temperature Estimation Initialization for Electric Pow	02078019.3	7/24/2002	1285841	11/14/2007
DP-303058	MO50593US	US	Steering Input Devices for Steer-by-Wire Sytems	10/143182	5/9/2002	6938720	9/6/2005
			combined feedforward and feedback parameter estimation for electric machines				
DP-303075	MO50342US	US	combined feedforward and feedback parameter estimation for electric machines	10/013933	12/11/2001	6900607	5/31/2005
DP-303108	MO50220DE	DE	Ball-screw assembly isolator	02077178.8	6/3/2002	60225628	3/19/2008

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DP-303108	MO50220DED	DE	Ball-screw assembly isolator	06018842.2	6/3/2002	60235587.7	3/3/2010
DP-303108	MO50220EPD	EP	Ball-screw assembly isolator	06018842.2	6/3/2002	1726509	3/3/2010
DP-303108	MO50220FR	FR	Ball-screw assembly isolator	02077178.8	6/3/2002	1270369	3/19/2008
DP-303108	MO50220FRD	FR	Ball-screw assembly isolator	06018842.2	6/3/2002	1726509	3/3/2010
DP-303108	MO50220JP	JP	Ball-screw Assembly Isolator	169905	6/29/2001	4159808	7/25/2008
DP-303108	MO50220US	US	Ball-screw Assembly Isolator	09/895821	6/29/2001	6883635	4/26/2005
DP-303108	MO50220EP	EP	Ball-screw assembly isolator	02077178.8	6/3/2002	1270369	3/19/2008
DP-303287	MO50143DE	DE	POSITION DEPEND TILT AND TELESCOPING STEERING COLUMN	03075891.6	3/27/2003	60308744	10/4/2006
DP-303287	MO50143US	US	POSITION DEPEND TILT AND TELESCOPING STEERING COLUMN	10/124446	4/16/2002	6637284	10/28/2003
DP-303477	MO50304US2	US	Steer-by wire Hand Wheel Actuator	10/163927	6/6/2002	6817437	11/16/2004
DP-303557	MO50594US	US	User-Configurable Steering Control for Steer-by-wire Systems	09/775880	2/2/2001	6678594	1/13/2004
DP-303751	MO50595US	US	Feed Forward-Feed Back Control For Steer-By-Wire System	09/707243	11/6/2000	6625530	9/23/2003
DP-303753	MO50380US	US	Static Steering Angle Reducing Algorithm for Four Wheel Steering Systems	10/067641	2/4/2002	6658334	12/2/2003
DP-303754	MO50596US2	US	distributed control architecture for mechatronic Automotive Systems	09/858236	5/15/2001	6522962	2/18/2003
DP-303756CIP	MO50531USP	US	Method for Controlling an Electric Power Assists Steering System with Low Hysteresis and Torque Ripple	10/369071	2/19/2003	6817439	11/16/2004
DP-303823	MO50532US2	US	Apparatus and Method for Steering a Vehicle	09/920181	8/1/2001	6488115	12/3/2002
DP-303823	MO50532USD	US	Apparatus and Method for Steering a Vehicle	10/262751	10/1/2002	6705423	3/16/2004
DP-303823	MO50532USD2	US	Apparatus and Method for Steering a Vehicle	10/262730	10/1/2002	6615947	9/9/2003
DP-303823 CIP	MO50532USP	US	Apparatus and Method for Steering a Vehicle	11/016039	12/17/2004	7293626	11/13/2007
DP-303823-D3	MO50532USD3	US	Apparatus and Method for Steering a Vehicle	11/863061	9/27/2007	7591342	9/22/2009
DP-303879	MO50597US	US	Power Failure Tolerance Motor Drives for Dual Voltage Systems	10/068524	2/5/2002	6693403	2/17/2004
DP-303958	MO50598US	US	oversteer control for a motor vehicle	09/783682	2/14/2001	6637543	10/28/2003
DP-304036	MO50297US	US	Enhancement to Horizontally-structured Cad/Cam Modeling	10/032960	10/24/2001	7308386	12/11/2007
DP-304036	MO50297EP	EP	Enhancement to Horizontally Structured CAD CAM Modeling	02075776.1	2/27/2002		
DP-304136	MO50290US	US	Horizontally-Structured CAD/CAM Modeling for Virtual Fixture and Tooling Processes	10/033333	10/24/2001	7110849	9/19/2006
DP-304140	MO50298US	US	Horizontally Structured Cad/Cam Modeling for Virtual Concurrent Product and Process Design	10/001748	10/24/2001	6775581	8/10/2004

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DP-304163	MO50599US	US	Hand Wheel Actuator with Steering-feel Enhancement	10/198339	7/17/2002	6820713	11/23/2004
DP-304336	MO50381US	US	modular motor and controller assembly for rear-wheel steering system	09/860148	5/17/2001	6499558	12/31/2002
DP-304359	MO50254DE	DE	Quadrasteer Compensation for Low Coefficient of Friction Sur	02079005.1	9/27/2002	60210726	4/19/2006
DP-304359	MO50254FR	FR	Quadrasteer Compensation for Low Coefficient of Friction Sur	02079005.1	9/27/2002	1304278	4/19/2006
DP-304359	MO50254US	US	Four Wheel Steering Compensation for Low Coefficient of Friction Surface	09/982217	10/18/2001	6804592	10/12/2004
DP-304359	MO50254GB	GB	Quadrasteer Compensation for Low Coefficient of Friction Sur	02079005.1		1304278	4/19/2006
DP-304359	MO50254IT	IT	Quadrasteer Compensation for Low Coefficient of Friction Sur	02079005.1		1304278	4/19/2006
DP-304359	MO50254EP	EP	Quadrasteer Compensation for Low Coefficient of Friction Sur	02079005.1	9/27/2002	1304278	4/19/2006
DP-304360	MO50517US	US	Rear Wheel Steering Swingout Compensation	09/887513	6/22/2001	6640170	10/28/2003
DP-304395	MO50221DE	DE	Stall Detection and Thermal Protection for an Electric Power	02077179.6	6/3/2002	1271762	10/5/2011
DP-304395	MO50221FR	FR	Stall Detection and Thermal Protection for an Electric Power	02077179.6	6/3/2002	1271762	10/5/2011
DP-304395	MO50221IT	IT	Stall Detection and Thermal Protection for an Electric Power	02077179.6	6/3/2002	1271762	10/5/2011
DP-304395	MO50221US	US	Stall Detection and Thermal Protection of Vehicular Systems Having an Electric Motor	09/896704	6/29/2001	6548975	4/15/2003
DP-304395	MO50221EP	EP	Stall Detection and Thermal Protection for an Electric Power	02077179.6	6/3/2002	1271762	10/5/2011
DP-304411	MO50222US	US	Phase Angle Diagnostics for Sinusoidal Controlled Electric Machine	09/943260	8/30/2001	6694287	2/17/2004
DP-304411	MO50222EP	EP	Phase Reasonableness Diagnostic for Sine Motor Assisted EPS	02078137.3	7/30/2002		
DP-304414	MO50255DE	DE	Dual Gain Algorithm for Quadrasteer	02077809.8	7/12/2002	60224618	1/16/2008
DP-304414	MO50255US2	US	Dual Gain Algorithm for Four Wheel Steering System	09/966722	9/28/2001	6640172	10/28/2003
DP-304414	MO50255GB	GB	Dual Gain Algorithm for Quadrasteer	02077809.8		1281600	1/16/2008
DP-304414	MO50255EP	EP	Dual Gain Algorithm for Quadrasteer	02077809.8	7/12/2002	1281600	1/16/2008
DP-304416	MO50518US	US	Vehicle Speed Diagnostic Algorithm for Four-Wheel Steering Systems	10/076359	2/15/2002	6701237	3/2/2004
DP-304417	MO50519US	US	Four Wheel Steering Alignment Process	09/966219	9/28/2001	6721629	4/13/2004
DP-304429	MO50663US	US	Actuator Synchronization and Locking Concept for Steer by Wire Applications	10/008344	11/6/2001	6922620	7/26/2005
DP-304592	MO50214US	US	Rear Steering Sensor Diagnostic Algorithm for Four-Wheel Steering Systems	09/989486	11/20/2001	8024088	9/20/2011

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DP-304594	MO50520US	US	Four-wheel Steering Algorithm with Functional and Diagnostic States and Modes	09/995074	11/27/2001	6564131	5/13/2003
DP-304779	MO50207DE	DE	TACHOMETER APPARATUS AND METHOD FOR MOTOR VELOCITY MEASUREMENT	02752587.2	7/26/2002	1417496	10/13/2010
DP-304779	MO50207EP	EP	TACHOMETER APPARATUS AND METHOD FOR MOTOR VELOCITY MEASUREMENT	02752587.2	7/26/2002	1417496	10/13/2010
DP-304779	MO50207FR	FR	TACHOMETER APPARATUS AND METHOD FOR MOTOR VELOCITY MEASUREMENT	02752587.2	7/26/2002	1417496	10/13/2010
DP-304779	MO50207GB	GB	TACHOMETER APPARATUS AND METHOD FOR MOTOR VELOCITY MEASUREMENT	02752587.2	7/26/2002	1417496	10/13/2010
DP-304779	MO50207IT	IT	TACHOMETER APPARATUS AND METHOD FOR MOTOR VELOCITY MEASUREMENT	02752587.2	7/26/2002	1417496	10/13/2010
DP-304779/DP-304784	MO50207US2	US	Tachometer Apparatus and Method for Motor Velocity Measurement	10/205848	7/26/2002	7075290	7/11/2006
DP-304785	MO50600US	US	Tactile Feedback Control for Steer-by-wire Systems	09/960552	9/21/2001	6535806	3/18/2003
DP-304788/DP-304789	MO50533US	US	Actuator for Active Front Wheel Steering System	09/953929	9/17/2001	6691819	2/17/2004
DP-304796	MO50344US	US	Feedback parameter estimation for electric machines	10/013932	12/11/2001	7199549	4/3/2007
DP-305018	MO50182EP	EP	STEERING ACTUATOR SYSTEM	03075526.8	2/24/2003	1342643	11/26/2008
DP-305023	MO50234US	US	Kinetic Energy Absorber	09/941277	8/28/2001	6655716	12/2/2003
DP-305025	MO50144DE	DE	Steering column for a vehicle	02739304.0	5/16/2002	60217961	1/31/2007
DP-305025	MO50144US2	US	Steering column for a vehicle	10/133819	4/25/2002	6659504	12/9/2003
DP-305025	MO50144USD	US	Steering column for a vehicle	10/445664	5/27/2003	6761376	7/13/2004
DP-305025	MO50144EP	EP	Steering column for a vehicle	02739304.0	5/16/2002	1395479	1/31/2007
DP-305066	MO50174US	US	BACK-DRIVABLE STEER-BY-WIRE SYSTEM WITH POSITIVE SCRUB RADIUS	10/157021	5/30/2002	6786296	9/7/2004
DP-305160	MO50247DE	DE	Soft-Disable Damping for Electric Power Steering	02076717.4	5/1/2002	60212500	6/21/2006
DP-305160	MO50247FR	FR	Soft-Disable Damping for Electric Power Steering	02076717.4	5/1/2002	1262394	6/21/2006
DP-305160	MO50247JP	JP	Soft-Disable Damping for Electric Power Steering	2002-147270	5/31/2002	3842172	8/18/2006
DP-305160	MO50247JPD	JP	Soft-Disable Damping for Electric Power Steering	2005-108941	4/5/2005	4351184	7/31/2009
DP-305160	MO50247US	US	Soft-Disable Damping for Electric Power Steering	09/870042	5/30/2001	6588541	7/8/2003
DP-305160	MO50247USD	US	Soft-Disable Damping for Electric Power Steering	10/404811	4/1/2003	6745866	6/8/2004
DP-305160	MO50247EP	EP	Soft-Disable Damping for Electric Power Steering	02076717.4	5/1/2002	1262394	6/21/2006
DP-305173	MO50186DE	DE	CONSTANT VELOCITY JOINT	02078490.6	8/23/2002	60224907	2/6/2008
DP-305173	MO50186FR	FR	CONSTANT VELOCITY JOINT	02078490.6	8/23/2002	1296078	2/6/2008
DP-305173	MO50186GB	GB	CONSTANT VELOCITY JOINT	02078490.6	8/23/2002	1296078	2/6/2008
DP-305173	MO50186JP	JP	CONSTANT VELOCITY JOINT	2002-266582	9/12/2002	3847688	9/1/2006
DP-305173	MO50186US	US	CONSTANT VELOCITY JOINT	09/960091	9/20/2001	6616537	9/9/2003

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DP-305173	MO50186EP	EP	CONSTANT VELOCITY JOINT	02078490.6	8/23/2002	1296078	2/6/2008
DP-305174	MO50181DE	DE	CONSTANT VELOCITY JOINT	03075608.4	3/3/2003	1347191	6/28/2006
DP-305174	MO50181FR	FR	CONSTANT VELOCITY JOINT	03075608.4	3/3/2003	1347191	6/28/2006
DP-305174	MO50181JP	JP	CONSTANT VELOCITY JOINT	2003-080958	3/24/2003	4086692	2/29/2008
DP-305174	MO50181US	US	CONSTANT VELOCITY JOINT	10/104387	3/22/2002	6733395	5/11/2004
DP-305174	MO50181EP	EP	CONSTANT VELOCITY JOINT	03075608.4	3/3/2003	1347191	6/28/2006
DP-305175	MO50180DE	DE	CONSTANT VELOCITY JOINT	03075607.6	3/3/2003	1347190	11/2/2005
DP-305175	MO50180FR	FR	CONSTANT VELOCITY JOINT	03075607.6	3/3/2003	1347190	11/2/2005
DP-305175	MO50180GB	GB	CONSTANT VELOCITY JOINT	03075607.6	3/3/2003	1347190	11/2/2005
DP-305175	MO50180US	US	CONSTANT VELOCITY JOINT	10/104542	3/22/2002	6733396	5/11/2004
DP-305175	MO50180EP	EP	CONSTANT VELOCITY JOINT	03075607.6	3/3/2003	1347190	11/2/2005
DP-305231	MO50188DE	DE	Hydraulic pump nozzle and method of use	02729177.2	5/9/2002	60215485	10/18/2006
DP-305231	MO50188FR	FR	Hydraulic pump nozzle and method of use	02729177.2	5/9/2002	1387963	10/18/2006
DP-305231	MO50188US2	US	Hydraulic pump nozzle and method of use	10/126595	4/19/2002	6666655	12/23/2003
DP-305231	MO50188EP	EP	Hydraulic pump nozzle and method of use	02729177.2	5/9/2002	1387963	10/18/2006
DP-305251	MO50248DE	DE	Robust Determination of Hand Wheel Position	02077918.7	7/18/2002	60231941	4/15/2009
DP-305251	MO50248FR	FR	Robust Determination of Hand Wheel Position	02077918.7	7/18/2002	1283148	4/15/2009
DP-305251	MO50248GB	GB	Robust Determination of Hand Wheel Position	02077918.7	7/18/2002	1283148	4/15/2009
DP-305251	MO50248US	US	Robust determination of hand-wheel position	09/927610	8/10/2001	6535805	3/18/2003
DP-305251	MO50248EP	EP	Robust Determination of Hand Wheel Position	02077918.7	7/18/2002	1283148	4/15/2009
DP-305265	MO50512US	US	CHECK BALL FILTER FOR TRANSMISSIONS	09/934336	8/21/2001	6637551	10/28/2003
DP-305270	MO50146DE	DE	STEERING COLUMN WITH TUBULAR STRUCTURE	03077483.0	8/8/2003	60310826	1/3/2007
DP-305270	MO50146US	US	STEERING COLUMN WITH TUBULAR STRUCTURE	10/235409	9/5/2002	7048306	5/23/2006
DP-305270	MO50146EP	EP	STEERING COLUMN WITH TUBULAR STRUCTURE	03077483.0	8/8/2003	1396415	1/3/2007
DP-305272	MO50260DE	DE	Handwheel Actuator with Unlimited Stopper	03075162.2	1/17/2003	60303081	1/4/2006
DP-305272	MO50260FR	FR	Handwheel Actuator with Unlimited Stopper	03075162.2	1/17/2003	1332946	1/4/2006
DP-305272	MO50260US	US	Hand Wheel Actuator	10/068703	2/5/2002	6799654	10/5/2004
DP-305272	MO50260EP	EP	Handwheel Actuator with Unlimited Stopper	03075162.2	1/17/2003	1332946	1/4/2006
DP-305424	MO50534US	US	Method and Apparatus for Determining Phase Current of Switched Reluctance Electric Machines	10/280836	10/25/2002	6803740	10/12/2004
DP-305517	MO50549JP	JP	TRIPOD TYPE CONSTANT VELOCITY JOINT	20000303687	10/3/2001	4446581	1/29/2010
DP-305538	MO50548DE	DE	TRIPOD TYPE CONSTANT VELOCITY JOINT	01983963.8	10/12/2001	60116130	12/21/2005
DP-305538	MO50548FR	FR	TRIPOD TYPE CONSTANT VELOCITY JOINT	01983963.8	10/12/2001	1327083	12/21/2005
DP-305538	MO50548GB	GB	TRIPOD TYPE CONSTANT VELOCITY JOINT	01983963.8	10/12/2001	1327083	12/21/2005

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DP-305538	MO50548US	US	TRIPOD TYPE CONSTANT VELOCITY JOINT	09/976345	10/12/2001	6764406	7/20/2004
DP-305538	MO50548JP	JP	TRIPOD TYPE CONSTANT VELOCITY JOINT	20000314305	10/13/2000		
DP-305538	MO50548EP	EP	TRIPOD TYPE CONSTANT VELOCITY JOINT	01983963.8	10/12/2001	1327083	12/21/2005
DP-305539	MO50175JP	JP	CONSTANT VELOCITY JOINT OF TRIPOD TYPE	2000-315523	10/16/2000		
DP-305539	MO50175DE	DE	CONSTANT VELOCITY JOINT OF TRIPOD TYPE	01983129.6	10/15/2001	60144099.4	2/23/2011
DP-305539	MO50175FR	FR	CONSTANT VELOCITY JOINT OF TRIPOD TYPE	01983129.6	10/15/2001	1328736	2/23/2011
DP-305539	MO50175GB	GB	CONSTANT VELOCITY JOINT OF TRIPOD TYPE	01983129.6	10/15/2001	1328736	2/23/2011
DP-305539	MO50175US	US	CONSTANT VELOCITY JOINT OF TRIPOD TYPE	09/977778	10/15/2001	6533668	3/18/2003
DP-305539	MO50175EP	EP	CONSTANT VELOCITY JOINT OF TRIPOD TYPE	01983129.6	10/15/2001	1328736	2/23/2011
DP-305580	MO50235DE	DE	Vehicle Locator	03076970.7	6/25/2003	60304773	4/26/2006
DP-305580	MO50235US	US	Vehicle Locating System	10/190245	7/3/2002	6909964	6/21/2005
DP-305580	MO50235EP	EP	Vehicle Locator	03076970.7	6/25/2003	1378878	4/26/2006
DP-305590	MO50257EP	EP	method for synchronizing data utilized in redundant, closed loop control systems	02080607.1	12/30/2002	1327920	9/27/2006
DP-305590	MO50257US	US	Method for synchronizing data utilized in redundant, closed loop control systems	10/043930	1/11/2002	7181644	2/20/2007
DP-305619	MO50554FR	FR	Intermediate fork shaft for automobile steering column comprises rod and fork connected by balls held between longitudinal grooves in rod and cage surrounding rod	0204123	4/3/2002		
DP-305667	MO50536US2	US	Enhanced Yaw Rate Estimation and Diagnosis for Vehicular Applications	10/232087	8/28/2002	6623089	9/23/2003
DP-305668	MO50537US	US	Feel Control for Active Steering	09/990741	11/21/2001	6942057	9/13/2005
DP-305676	MO50615USP2	US	MOTOR VEHICLE WITH SUPPLEMENTAL REAR STEERING HAVING OPEN AND CLOSED LOOP MODES	10/164321	6/4/2002	6681167	1/20/2004
DP-305678	MO50231US	US	VEHICLE POWER STEERING ASSEMBLY AND METHOD FOR ASSEMBLING THE VEHICLE POWER STEERING ASSEMBLY	11/188425	7/25/2005	7484759	2/3/2009
DP-305678	MO50231EP	EP	Double Splined Shaft Assembly	06076286.1	6/23/2006		
DP-305713	MO50513US2	US	Hydraulic brake and steering assist system	10/156628	5/28/2002	6814413	11/9/2004
DP-305756	MO50366US	US	Feature Operability	10/355763	1/31/2003	6950719	9/27/2005
DP-305781	MO50538US	US	method for automatically adjusting reference models in vehicle stability enhancement (vse) systems	10/080015	2/19/2002	6862506	3/1/2005
DP-305789	MO50489US	US	TRIPOD JOINT	10/283811	10/30/2002	6776721	8/17/2004
DP-305791	MO50490US	US	TRIPOD UNIVERSAL JOINT	10/172689	6/14/2002	6776719	8/17/2004
DP-305792-RE	MO50654USR	US	TRIPOD UNIVERSAL JOINT	11/175105	7/5/2005	RE39715	7/3/2007

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DP-305828	MO50023DE	DE	Velocity Compensation for Voltage Mode Control Electric...	02778951.0	6/7/2002	1399348	8/19/2008
DP-305828	MO50223DE	DE	Velocity Compensation for Voltage Mode Control Electric...	02778951.0	6/7/2002	60233404	8/19/2009
DP-305828	MO50223FR	FR	Velocity Compensation for Voltage Mode Control Electric...	02778951.0	6/7/2002	1399348	8/19/2009
DP-305828	MO50223JP	JP	velocity compensation voltage mode control electric steering systems	2003-503486	6/7/2002	4009589	9/7/2007
DP-305828	MO50223US2	US	Velocity Compensation Control for Electric Steering Systems	10/165037	6/7/2002	7188701	3/13/2007
DP-305828	MO50223EP	EP	Velocity Compensation for Voltage Mode Control Electric...	02778951.0	6/7/2002	1399348	8/19/2009
DP-305877	MO50404US	US	FORWARD FIRING SHAFT LOCK MECHANISM	10/272055	10/15/2002	6748774	6/15/2004
DP-306003	MO50539US	US	System and Method for Using Vehicle Operator Intent to Adjust Vehicle Control System Response	10/122604	4/11/2002	6879896	4/12/2005
DP-306062	MO50303US	US	Method for Compensating for Dead Time Non-linearities in a Pulse Width Modulation Controlled Switching Scheme	10/056329	1/24/2002	6690135	2/10/2004
DP-306062	MO50303EP	EP	Compensation of Dead Time Nonlinearities in PWM Controlled S	03075035.0	1/8/2003		
DP-306067	MO50650US2	US	Compensation Using Position for Improved Feel and Stability in a Steering System	10/231892	8/30/2002	6687588	2/3/2004
DP-306068	MO50540US	US	Complementary Force and Position Control for an Automotive Steering System	10/233185	8/30/2002	6678597	1/13/2004
DP-306081	MO50616US	US	REAR STEERING CONTROL FOR VEHICLES WITH FRONT AND REAR STEERING	10/042377	1/3/2002	6553293	4/22/2003
DP-306094	MO50491US2	US	Wobble joint	10/255358	9/26/2002	6604389	8/12/2003
DP-306109	MO50258DE	DE	Active Front Steering System with Hydraulic System Power Ste	03075917.9	3/31/2003	60307161	8/2/2006
DP-306109	MO50258FR	FR	Active Front Steering System with Hydraulic System Power Ste	03075917.9	3/31/2003	1354787	8/2/2006
DP-306109	MO50258US	US	Active Front Steering Actuator and Method for Controlling a Vehicle	10/125844	4/19/2002	6655494	12/2/2003
DP-306109	MO50258EP	EP	Active Front Steering System with Hydraulic System Power Ste	03075917.9	3/31/2003	1354787	8/2/2006
DP-306146	MO50521US2	US	Method for detecting motor control loss in a power steering system	10/002324	11/1/2001	6519518	2/11/2003
DP-306264	MO50293IN	IN	Horizontally Structured Manufacturing Process Modeling: Enhancement to Multiple Master Process Models and Across File Feature Operability	40/CHE/2004	1/20/2004	201509	2/9/2007
DP-306264	MO50293US	US	Horizontally Structured Manufacturing Process Modeling: Enhancement to Multiple Master Process Models and Across File Feature Operability	10/355310	1/31/2003	6754556	6/22/2004

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DP-306265	MO50147DE	DE	ELECTRICALLY ACTUATED STEERING COLUMN MECHANISM	03076818.8	6/12/2003	60305795	6/7/2006
DP-306265	MO50147US	US	ELECTRICALLY ACTUATED STEERING COLUMN MECHANISM	10/184695	6/27/2002	7055860	6/6/2006
DP-306265	MO50147USP	US	ELECTRICALLY ACTUATED STEERING COLUMN MECHANISM	10/882585	7/1/2004	7331608	2/19/2008
DP-306265	MO50147EP	EP	ELECTRICALLY ACTUATED STEERING COLUMN MECHANISM	03076818.8	6/12/2003	1375296	6/7/2006
DP-306326	MO50449US2	US	Constant velocity joint	10/310077	12/4/2002	7094156	8/22/2006
DP-306387	MO50492US2	US	Wobble joint	10/254135	9/25/2002	7216516	5/15/2007
DP-306431	MO50541US2	US	Bearing Configuration and Method for Reducing Noise in a Bearing	10/305445	11/26/2002	6868749	3/22/2005
DP-306449	MO50493US	US	CONSTANT VELOCITY JOINT	10/308539	12/3/2002	6808456	10/26/2004
DP-306450	MO50405US2	US	RESPONSIVE ENERGY ABSORBING DEVICE FOR A STEERING COLUMN	10/264963	10/3/2002	6769715	8/3/2004
DP-306451	MO50305US	US	Hand Wheel Actuator Having Stationary Hub	10/091079	3/4/2002	6892605	5/17/2005
DP-306452	MO50148DE	DE	INTERACTIVE ENERGY ABSORBING SYSTEM	03076615.8	5/26/2003	60313246	4/18/2007
DP-306452	MO50148US	US	INTERACTIVE ENERGY ABSORBING SYSTEM	10/165115	6/7/2002	6799486	10/5/2004
DP-306452	MO50148EP	EP	INTERACTIVE ENERGY ABSORBING SYSTEM	03076615.8	5/26/2003	1369336	4/18/2007
DP-306512	MO50625DEP	DE	Steer-By- Brake: Providing Emergency Directional Control...	03077068.9	7/2/2003	60315766	8/22/2007
DP-306512	MO50625FRP	FR	Steer-By- Brake: Providing Emergency Directional Control...	03077068.9	7/2/2003	1384636	8/22/2007
DP-306512	MO50625USP	US	Method and System for Providing Secondary Vehicle Directional Control Through Braking	10/202760	7/25/2002	6808041	10/26/2004
DP-306512	MO50625EPP	EP	Steer-By- Brake: Providing Emergency Directional Control...	03077068.9	7/2/2003	1384636	8/22/2007
DP-306553	MO50289US	US	Horizontally Structured Manufacturing Process Modeling for Fixtures and Tooling	10/002678	10/24/2001	6839606	1/4/2005
DP-306556	MO50162US	US	VANE PUMP HAVING AN ABRADABLE COATING ON THE ROTOR	10/349945	1/23/2003	7086845	8/8/2006
DP-306556	MO50162EP	EP	VANE PUMP HAVING AN ABRADABLE COATING ON THE ROTOR	04075066.3	1/9/2004		
DP-306609	MO50406US2	US	RESPONSIVE ENERGY ABSORBING DEVICE FOR STEERING COLUMNS	10/268330	10/10/2002	6749222	6/15/2004
DP-306613	MO50249DE	DE	Multidimensional Damping for E-Steer	02078839.4	9/17/2002	60224908	2/6/2008
DP-306613	MO50249DE2	DE	Method for generating a damping torque signal for an electric power steering motor	06077132.6	9/17/2002	60229013	9/17/2008
DP-306613	MO50249DE3	DE	Method and apparatus for generating a compensated motor velocity output value for an electric power steering motor	06077133.4	9/17/2002	60231264	2/18/2009
DP-306613	MO50249FR	FR	Multidimensional Damping for E-Steer	02078839.4	9/17/2002	1302385	2/6/2008

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DP-306613	MO50249FR2	FR	Method for generating a damping torque signal for an electric power steering motor	06077132.6	9/17/2002	1759956	9/17/2008
DP-306613	MO50249FR3	FR	Method and apparatus for generating a compensated motor velocity output value for an electric power steering motor	06077133.4	9/17/2002	1759957	2/18/2009
DP-306613	MO50249JP	JP	Method and Apparatus for Motor Velocity Measurement	2002-278897	9/25/2002	3893096	12/15/2006
DP-306613	MO50249JP3	JP	Compensa	2006-245797	9/11/2006	4604137	10/15/2010
DP-306613	MO50249US2	US	Multidimensional Damping for E-Steer	10/075407	2/13/2002	6658335	12/2/2003
DP-306613	MO50249JP2	JP	Method and Apparatus for Motor Velocity Measurement	2005-235418	8/15/2005		
DP-306613	MO50249IT	IT	Compensation in Electric Power Steering Damping	02078839.4		1302385	2/6/2008
DP-306613	MO50249EP	EP	Multidimensional Damping for E-Steer	02078839.4	9/17/2002	1302385	2/6/2008
DP-306613	MO50249EP2	EP	Multidimensional Damping for E-Steer	06077132.6	9/17/2002	1759956	9/17/2008
DP-306613	MO50249EP3	EP	Method for generating a damping torque signal for an electric power steering motor	06077133.4	9/17/2002	1759957	2/18/2009
DP-306670	MO50149DE	DE	Method and apparatus for generating a compensated motor velocity output value for an electric power steering motor	03076852.7	6/16/2003	60311357	1/24/2007
DP-306670	MO50149US	US	ACTIVE STEERING COLUMN ENERGY ABSORBING DEVICE	10/184456	6/28/2002	6749221	6/15/2004
DP-306670	MO50149EP	EP	ACTIVE STEERING COLUMN ENERGY ABSORBING DEVICE	03076852.7	6/16/2003	1375297	1/24/2007
DP-306671	MO50624US	US	ACTIVE STEERING COLUMN ENERGY ABSORBING DEVICE	10/178869	6/24/2002	6955623	10/18/2005
DP-306725	MO50211US2	US	SINGLE PLANET STEERING POSITION PLANETARY DIFFERENTIAL	10/358873	2/5/2003	7421363	9/2/2008
DP-306756	MO50407US2	US	Method for Virtual Inspection of Virtually Machined Parts	10/384111	3/7/2003	6923473	8/2/2005
DP-306759	MO50408US	US	Telescoping column having rake spring assist	10/356847	2/3/2003	6857660	2/22/2005
DP-306853	MO50131DE	DE	RADIAL SPRING LOCK-TILT HEAD	03077517.5	8/11/2003	1400711	5/26/2010
DP-306853	MO50131US	US	SHAFT ASSEMBLY WITH RECIRCULATING BALL ROLLER JOINT UNIT	10/251228	9/20/2002	6805637	10/19/2004
DP-306853	MO50131EP	EP	SHAFT ASSEMBLY WITH RECIRCULATING BALL ROLLER JOINT UNIT	03077517.5	8/11/2003	1400711	5/26/2010
DP-306896	MO50409US	US	SHAFT ASSEMBLY WITH RECIRCULATING BALL ROLLER JOINT UNIT	10/325209	12/19/2002	6925714	8/9/2005
DP-306905	MO50089US	US	UPPER STEERING SHAFT ASSEMBLY	10/729240	12/5/2003	7093855	8/22/2006
DP-306986	MO50410US2	US	STEERING COLUMN ASSEMBLY HAVING CLAMPING MECHANISM	10/304978	11/26/2002	6575497	6/10/2003
DP-306989	MO50124US	US	Reactive energy absorbing system	10/375509	2/26/2003	6938902	9/6/2005
			BOOT WITH O-RING SEAL				

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DP-306989	MO50124EP	EP	BOOT WITH O-RING SEAL	04714128.8	2/24/2004		
DP-307037	MO50411US2	US	Programmable energy absorbing system	10/401939	3/27/2003	6908110	6/21/2005
DP-307052	MO50542US	US	DSP Based Algorithm for Non-Contacting Torque Sensor	10/320328	12/16/2002	6851325	2/8/2005
DP-307091	MO50212US	US	Virtual Design, Inspect and Grind Optimization Process	10/358870	2/5/2003	7024272	4/4/2006
DP-307108	MO50412US	US	STEERING COLUMN MOUNTED POWER TRANSMISSION SHIFTER	10/887410	7/8/2004	7137499	11/21/2006
DP-307140	MO50413US	US	STEERING COLUMN WITH FOAMED IN-PLACE STRUCTURE	10/184464	6/28/2002	6814374	11/9/2004
DP-307155	MO50661US	US	Rocker Return Liner for Ball Nut	10/186491	7/1/2002	6813969	11/9/2004
DP-307250	MO50414US2	US	Integrated position switch/brake transmission shift interlock component	10/394073	3/21/2003	6945377	9/20/2005
DP-307257	MO50150DE	DE	ADAPTIVE RELEASE CAPSULE FOR STEERING COLUMN	05076001.6	4/27/2005	6020050126 12	2/4/2009
DP-307257	MO50150US	US	ADAPTIVE RELEASE CAPSULE FOR STEERING COLUMN	10/840692	5/6/2004	7178834	2/20/2007
DP-307257	MO50150EP	EP	ADAPTIVE RELEASE CAPSULE FOR STEERING COLUMN	05076001.6	4/27/2005	1593579	2/4/2009
DP-307304	MO50415US	US	ALGORITHM FOR ELECTRIC COLUMN LOCK	10/356911	2/3/2003	7088013	8/8/2006
DP-307337	MO50363US	US	Needle Roller Retention Design for Tripot Joint	10/157330	5/29/2002	6840863	1/11/2005
DP-307339	MO50494US	US	UNIVERSAL JOINT ROLLER ASSEMBLY	10/277301	10/22/2002	7022021	4/4/2006
DP-307371	MO50522US2	US	Four Wheel Steering System and Method for Trailing	10/454447	6/4/2003	6735507	5/11/2004
DP-307433	MO50543USP	US	Watercraft Steer-by-Wire System	10/643512	8/19/2003	7036445	5/2/2006
DP-307618	MO50416US	US	ELECTRICAL TILT AND TELESCOPE LOCKING MECHANISM	10/884238	7/2/2004	7178422	2/20/2007
DP-307748	MO50417US	US	ANGULAR POSITION SENSOR ASSEMBLY FOR USE WITH STEERING COLUMN	10/636948	8/7/2003	6829055	12/7/2004
DP-307749	MO50090US	US	SWITCH SYSTEM CAPABLE OF AUTOMATIC CONFIGURATION	10/428876	5/2/2003	7119456	10/10/2006
DP-307749	MO50090EP	EP	SWITCH SYSTEM CAPABLE OF AUTOMATIC CONFIGURATION	04760521.7	4/7/2004		
DP-307752	MO50544US	US	Non-Contacting Compliant Torque Sensor	10/319952	12/16/2002	6851324	2/8/2005
DP-307798	MO50001USP	US	Multi piece bearing for telescoping steering column assembly	11/133079	5/19/2005	7516985	4/14/2009
DP-307798	MO50001USD	US	Method of making a telescoping steering column assembly	12/396538	3/3/2009		
DP-307818	MO50091DE	DE	ADAPTIVE ENERGY ABSORPTION SYSTEM	03724512.3	5/9/2003	60337974.5	8/10/2011
DP-307818	MO50091US	US	ADAPTIVE ENERGY ABSORPTION SYSTEM	10/431824	5/8/2003	6877775	4/12/2005
DP-307818	MO50091EPD	EP	ADAPTIVE ENERGY ABSORPTION SYSTEM	07076014.5	5/9/2003		

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DP-307818	MO50091EP	EP	ADAPTIVE ENERGY ABSORPTION SYSTEM	03724512.3	5/9/2003	1506111	8/10/2011
DP-307924	MO50368US2	US	Staked Retention for Pinion Ball Bearing	10/191008	7/8/2002	6920804	7/26/2005
DP-308018	MO50151DE	DE	ADAPTIVE ENERGY ABSORBING DEVICE FOR A STEERING COLUMN	04075409.5	2/10/2004	6020040026 02	10/4/2006
DP-308018	MO50151US	US	ADAPTIVE ENERGY ABSORBING DEVICE FOR A STEERING COLUMN	10/373402	2/24/2003	6802536	10/12/2004
DP-308018	MO50151EP	EP	ADAPTIVE ENERGY ABSORBING DEVICE FOR A STEERING COLUMN	04075409.5	2/10/2004	1449741	10/4/2006
DP-308019	MO50418US	US	THREE STAGE ROTARY STRAP EXTRUDER	10/791406	3/2/2004	7077433	7/18/2006
DP-308074	MO50152DE	DE	STEERING COLUMN ASSEMBLY AND METHOD OF FABRICATING THE SAME	05075402.7	2/18/2005	6020050011 19	5/16/2007
DP-308074	MO50152US	US	STEERING COLUMN ASSEMBLY AND METHOD OF FABRICATING THE SAME	10/788150	2/26/2004	7188866	3/13/2007
DP-308074	MO50152EP	EP	STEERING COLUMN ASSEMBLY AND METHOD OF FABRICATING THE SAME	05075402.7	2/18/2005	1568567	5/16/2007
DP-308085	MO50153DE	DE	Reduced friction telescope bushing	03736576.4	5/9/2003	1506110	1/24/2007
DP-308085	MO50153US2	US	Reduced friction telescope bushing	10/428535	5/2/2003	6948741	9/27/2005
DP-308085	MO50153EP	EP	Reduced friction telescope bushing	03736576.4	5/9/2003	1506110	1/24/2007
DP-308143	MO50369US	US	horizontally structured modeling for analysis	10/355326	1/31/2003	7079908	7/18/2006
DP-308199	MO50546US2	US	Method for Implementing Vehicle Stability Enhancement Reference Models for Active Steerer Systems	10/426302	4/30/2003	7083025	8/1/2006
DP-308200	MO50547US2	US	Assist Modification in Active Front Steering	10/426758	4/30/2003	6926114	8/9/2005
DP-308245/DP-308587	MO50665US	US	Gear Backlash Elimination and Adjustable Gear Backlash Mechanism	10/364021	2/10/2003	6997076	2/14/2006
DP-308248	MO50302US	US	Vehicle Steering Device and Method	10/879599	6/29/2004	7306535	12/11/2007
DP-308248	MO50302JP	JP	Controllable Ratio Actuator with Zero Lash	2007-0519419	6/29/2005		
DP-308259	MO50523US	US	Rear Steering Hitch/Docking Mode	10/392101	3/19/2003	6801125	10/5/2004
DP-308270	MO50224US2	US	Method of Inverter Linearization in Electric Machines Through Secondary Modulation	10/458091	6/10/2003	7190135	3/13/2007
DP-308270	MO50224EP	EP	Method of Inverter Linearization In Electric Machines Throug	03741972.8	6/11/2003		
DP-308297	MO50154US	US	TELESCOPING STEERING COLUMN ASSEMBLY WITH BRAKE	10/751866	1/6/2004	7178832	2/20/2007
DP-308331	MO50092US	US	ENERGY ABSORBER FOR MOTOR VEHICLE STEERING COLUMN	10/428560	5/2/2003	6942250	9/13/2005
DP-308331	MO50092EP	EP	ENERGY ABSORBER FOR MOTOR VEHICLE STEERING COLUMN	04760524.1	4/7/2004		
DP-308346	MO50345US2	US	Fault Tolerant Torque Sensor Signal Processing	10/232015	8/28/2002	7254470	8/7/2007
DP-308351	MO50567US	US	Identification of Parameters for Switched Reluctance Electric Machines	10/404420	3/31/2003	6982537	1/3/2006

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DP-308384	MO50568US	US	Sensorless Control of Switched Reluctance Electric Machines	10/404421	3/31/2003	6801012	10/5/2004
DP-308437	MO50346US2	US	Active Deadtime Control for Improved Torque Ripple Performance in Electric Machines	10/269740	10/14/2002	6914399	7/5/2005
DP-308457	MO50569US	US	integrating fluxgate for magnetostrictive torque sensors	10/402620	3/28/2003	6871553	3/29/2005
DP-308498	MO50316US	US	Horizontally Structured CAD/CAM Coordinate System for Manufacturing Design	10/355662	1/31/2003	6985793	1/10/2006
DP-308792	MO50420US	US	STEERING COLUMN ASSEMBLY HAVING BREAK-AWAY DEVICE	10/674620	9/30/2003	7077432	7/18/2006
DP-308874	MO50570US	US	Permanent Magnet Electric Motor and Method of Making Same	10/361971	2/10/2003	6788013	9/7/2004
DP-309061	MO50571US	US	Active Steering For Handling/Stability Enhancement	10/402570	3/28/2003	6804594	10/12/2004
DP-309066	MO50002USP	US	Vehicle information system with Steering Wheel Controller	11/239876	9/30/2005	7680574	3/16/2010
DP-309068	MO50155EP3	EP	LINEAR TRACKING KNEE BOLSTER ASSEMBLY	05075130.4	1/19/2005	1566323	3/25/2009
DP-309068-1	MO50155US2	US	LINEAR TRACKING COLUMN MODULE	10/767988	1/29/2004	7063354	6/20/2006
DP-309068-2	MO50155DE	DE	LINEAR TRACKING KNEE BOLSTER ASSEMBLY	05075129.6	1/19/2005	6020050017 77	8/1/2007
DP-309068-2	MO50155US3	US	LINEAR TRACKING KNEE BOLSTER ASSEMBLY	10/768533	1/30/2004	7128342	10/31/2006
DP-309068-2	MO50155EP	EP	LINEAR TRACKING KNEE BOLSTER ASSEMBLY	05075129.6	1/19/2005	1559618	8/1/2007
DP-309165-CIP	MO50421USP	US	DUAL TAPER STEERING COLUMN LOCK BOLT	11/138046	5/26/2005	7062944	6/20/2006
DP-309180/DP-311094	MO50572US3	US	Double Flank Delash Gear Mechanism Shaft Delashing Method and Assembly with Wireless Interface	10/868612	6/15/2004	7383750	6/10/2008
DP-309225	MO50664US	US	Torque Sensor	10/648115	8/26/2003	6941817	9/13/2005
DP-309328	MO50347US	US	BALL SCREW MECHANISM	10/431026	5/6/2003	6857500	2/22/2005
DP-309338	MO50076US	US	Electronic driver oriented command center	11/258500	10/25/2005	7677126	3/16/2010
DP-309447	MO50022US2	US	Sealing system for high speed applications	10/767683	1/29/2004	7255366	8/14/2007
DP-309588	MO50105DE	DE	Sealing system for high speed applications	04779724.6	7/30/2004	6020040319 51.1	3/23/2011
DP-309588	MO50105FR	FR	Sealing system for high speed applications	04779724.6	7/30/2004	1654468	3/23/2011
DP-309588	MO50105GB	GB	Sealing system for high speed applications	04779724.6	7/30/2004	1654468	3/23/2011
DP-309588	MO50105US2	US	Sealing system for high speed applications	10/901710	7/29/2004	7371181	5/13/2008
DP-309588	MO50105USD	US	Method for Providing an Improved Sealing system for high speed applications	12/080111	3/31/2008	7950669	5/31/2011
DP-309588	MO50105EP	EP	Sealing system for high speed applications	04779724.6	7/30/2004	1654468	3/23/2011
DP-309666	MO50450US	US	METHOD AND APPARATUS FOR MANEUVERING A WATERCRAFT	10/803571	3/17/2004	7150240	12/19/2006
DP-309688	MO50093US	US	FAULT TOLERANT OPTOELECTRONIC POSITION SENSOR	10/794954	3/5/2004	6927704	8/9/2005

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DP-309688	MO50093EP	EP	FAULT TOLERANT OPTOELECTRONIC POSITION SENSOR	05075528.9	3/3/2005		
DP-309689	MO50422US2	US	Frequency and stiffness enhancement mechanization	11/078215	3/11/2005	7267370	9/11/2007
DP-309801	MO50617US2	US	Apparatus for Sensing Position and/or Torque	10/864231	6/9/2004	7210360 6020040076	5/1/2007
DP-309838	MO50294DE	DE	CROSS-STRAIGHT GROOVE JOINT	04078228.6	11/29/2004	03	7/18/2007
DP-309838	MO50294EP	EP	CROSS-STRAIGHT GROOVE JOINT	04078228.6	11/29/2004	1541885	7/18/2007
DP-309838	MO50294ES	ES	CROSS-STRAIGHT GROOVE JOINT	04078228.6	11/29/2004	2287637	7/18/2007
DP-309838	MO50294FR	FR	CROSS-STRAIGHT GROOVE JOINT	04078228.6	11/29/2004	1541885	7/18/2007
DP-309838	MO50294IT	IT	CROSS-STRAIGHT GROOVE JOINT	04078228.6	11/29/2004	1541885	7/18/2007
DP-309838	MO50294US	US	CROSS-STRAIGHT GROOVE JOINT	10/730309	12/8/2003	7347786	3/25/2008
DP-309906	MO50225USC	US	Vehicle Speed Dependent Compensator for Electric Steering Systems	11/390330	3/27/2006	7132811	11/7/2006
DP-309906	MO50225EP	EP	Vehicle Speed Dependent Compensator for Electric Steering Sy	04758288.7	3/25/2004		
DP-309932	MO50573US	US	Current Limit for an Electric Machine	10/645118	8/21/2003	7065437	6/20/2006
DP-309972	MO50209US2	US	System, Method, and Article of Manufacture for Determining a Process Plan for Forming Features in a Part	11/302533	12/13/2005	7424334	9/9/2008
DP-309981/DP-309982	MO50348US	US	Wheel End Steering Sensor System	10/902365	7/29/2004	7347433	3/25/2008
DP-310072	MO50574US2	US	System, Method, and Article of Manufacture for Determining a Productivity Rate of a Manufacturing System	11/301629	12/13/2005	7505829	3/17/2009
DP-310233	MO50423US	US	ADAPTIVE ENERGY ABSORBING SYSTEM USING PIN PULLERS	10/840087	5/6/2004	7229096 6020050007	6/12/2007
DP-310234	MO50156DE	DE	COLLAPSIBLE STEERING COLUMN ASSEMBLY	05075403.5	2/18/2005	86	4/4/2007
DP-310234	MO50156US	US	COLLAPSIBLE STEERING COLUMN ASSEMBLY	10/787426	2/26/2004	7226083	6/5/2007
DP-310234	MO50156EP	EP	COLLAPSIBLE STEERING COLUMN ASSEMBLY	05075403.5	2/18/2005	1568568	4/4/2007
DP-310238	MO50424US	US	STEERING COLUMN ASSEMBLY WITH VERTICAL CAPSULES	10/800922	3/15/2004	7178833	2/20/2007
DP-310305	MO50155US	US	Linear tracking column module	10/767916	1/29/2004	7185918	3/6/2007
DP-310326	MO50287JP2	JP	Integrated non-contacting torque and absolute position sensor for steering applications	2006-0549715	2/1/2005	4625027	11/12/2010
DP-310326	MO50287US3	US	APPARATUS FOR SENSING POSITION AND/OR TORQUE	10/795908	3/8/2004	7021160	4/4/2006
DP-310326	MO50287USC	US	APPARATUS FOR SENSING POSITION AND/OR TORQUE	11/102096	4/8/2005	7188533	3/13/2007
DP-310326	MO50287EP	EP	Integrated non-contacting torque and absolute position sensor for steering applications	04778176.0	7/13/2004		

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DP-310401	MO50261US2	US	Force and Position Control for Active Front Steering	11/204706	8/16/2005	7530422	5/12/2009
DP-310401	MO50261JP	JP	Independent Force and Position Control for an Active Front..	2005-271462	9/20/2005		
DP-310459	MO50425US	US	ONE-TOUCH MANUAL TELESCOPE AND TILT STEERING COLUMN	10/803337	3/18/2004	7281448	10/16/2007
DP-310460	MO50426US	US	SINGLE-MOTOR POWER TELESCOPE AND TILT STEERING COLUMN	10/798763	3/11/2004	7293481	11/13/2007
DP-310461	MO50418USP	US	ADAPTIVE ENERGY ABSORBER	10/881755	6/30/2004	7118131	10/10/2006
DP-310533	MO50317US2	US	Steering System with Lane Keeping Integration	10/865208	6/10/2004	7510038	3/31/2009
DP-310533-CIP	MO50317USP	US	Steering System With Lane Keeping Integration	12/020102	1/25/2008	7711464	5/4/2010
DP-310573	MO50427US2	US	Snap on lower bracket and bearing support	11/012605	12/15/2004	7469615	12/30/2008
DP-310576	MO50428US2	US	Tilt control lever assembly for steering column	11/007519	12/8/2004	7263910	9/4/2007
DP-310580	MO50094DE	DE	ADAPTIVE ENERGY ABSORBER	05076002.4	4/27/2005	6020050160 41	8/19/2009
DP-310580	MO50094US	US	ADAPTIVE ENERGY ABSORBER	10/839828	5/6/2004	7124866	10/24/2006
DP-310580	MO50094EP	EP	ADAPTIVE ENERGY ABSORBER	05076002.4	4/27/2005	1593580	8/19/2009
DP-310582	MO50429US	US	ADAPTIVE STRAP ENERGY ABSORBER WITH PIN PULLER	10/914930	8/10/2004	7325834	2/5/2008
DP-310658	MO50430US	US	TELESCOPE WEDGE LOCKING MECHANISM	10/859273	6/2/2004	7204516	4/17/2007
DP-310746	MO50577US	US	Method and System for Electric Power Steering	10/816404	4/1/2004	6978860	12/27/2005
DP-310767	MO50267US	US	Method and System for Program Execution Integrity for Communication-Based Angle Sensor	10/910954	8/4/2004	7884715	2/8/2011
DP-310767	MO50267EP	EP	Strategy for Redundant Program Execution Integrity (PEI) for Horizontally Structured CAD/CAM Modeling-Vertical to Horizontal Conversion	05076587.4	7/12/2005		
DP-310838	MO50300US	US	Horizontal Conversion	10/805925	3/22/2004	7472044	12/30/2008
DP-310884	MO50431US	US	KNEE BOLSTER	10/965537	10/14/2004	7331606	2/19/2008
DP-310966	MO50432US2	US	Steering column assembly having single lever tilt and telescope adjustment	10/961558	10/8/2004	7509887	3/31/2009
DP-311084	MO50157DE	DE	TELESCOPE FEATURE USED FOR ENERGY ABSORPTION	05076554.4	7/7/2005	6020050046 32	2/6/2008
DP-311084	MO50157FR	FR	TELESCOPE FEATURE USED FOR ENERGY ABSORPTION	05076554.4	7/7/2005	1621443	2/6/2008
DP-311084	MO50157GB	GB	TELESCOPE FEATURE USED FOR ENERGY ABSORPTION	05076554.4	7/7/2005	1621443	2/6/2008
DP-311084	MO50157US	US	TELESCOPE FEATURE USED FOR ENERGY ABSORPTION	10/899811	7/27/2004	7484430	2/3/2009
DP-311084	MO50157EP	EP	TELESCOPE FEATURE USED FOR ENERGY ABSORPTION	05076554.4	7/7/2005	1621443	2/6/2008
DP-311138	MO50004US	US	Sleeve bearing for collapsible steering column	11/204505	8/16/2005		

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DP-311138	MO50004EP	EP	Sleeve bearing for collapsible steering column	06076362.0	7/5/2006		
DP-311250	MO50435US	US	ENERGY ABSORBING STRAP WITH VARIABLE PULL LOADS	10/914833	8/10/2004	7322609	1/29/2008
DP-311360	MO50158DE	DE	RAKE DESIGN FOR STEERING COLUMN RAKE ADJUSTMENT	05077980.0	12/22/2005	6020050141 94	4/29/2009
DP-311360	MO50158US	US	RAKE DESIGN FOR STEERING COLUMN RAKE ADJUSTMENT	11/032925	1/11/2005	7422238	9/9/2008
DP-311360	MO50158EP	EP	RAKE DESIGN FOR STEERING COLUMN RAKE ADJUSTMENT	05077980.0	12/22/2005	1679244	4/29/2009
DP-311361	MO50095DE	DE	Synchronized screw driven power telescoping and tilt mechanism for steering column	06076168.1	6/6/2006	1736395	11/25/2009
DP-311361	MO50095EP	EP	Synchronized screw driven power telescoping and tilt mechanism for steering column	06076168.1	6/6/2006	1736395 6020050134	11/25/2009
DP-311522	MO50256DE	DE	Sine Algorithm for Quadrasteer System	05076934.8	8/23/2005	57	3/25/2009
DP-311522	MO50256FR	FR	Sine Algorithm for Quadrasteer System	05076934.8	8/23/2005	1630072	3/25/2009
DP-311522	MO50256US	US	SYSTEM AND METHOD FOR CONTROLLING A STEERING POSITION OF REAR VEHICLE WHEELS	10/929603	8/30/2004	6949901	9/27/2005
DP-311522	MO50256EP	EP	Sine Algorithm for Quadrasteer System	05076934.8	8/23/2005	1630072	3/25/2009
DP-311653	MO50436US	US	CLAMP FOR FRICTION LOCK MECHANISM ON STEERING COLUMN	11/138191	5/26/2005	7516682	4/14/2009
DP-311667	MO50273EP	EP	Apparatus for Steering a Vehicle	05075115.5	1/17/2005		
DP-311697	MO50578US2	US	Active Front Steering Actuator	11/219499	9/2/2005	7322898	1/29/2008
DP-311735	MO50287US4	US	INTEGRATED NON-CONTACTING TORQUE AND ABSOLUTE POSITION SENSOR FOR STEERING APPLICATIONS	11/036806	1/14/2005	7174795	2/13/2007
DP-311735	MO50287EP2	EP	Integrated non-contacting torque and absolute position sensor for steering applications	05712560.1	2/1/2005		
DP-311735	MO50287JP	JP	Integrated non-contacting torque and absolute position sensor for steering applications	2006-552091	7/13/2004		
DP-311772	MO50437US	US	LOW-MOUNTED COLUMN RAKE SPRING	10/914834	8/10/2004	7475907	1/13/2009
DP-311779	MO50005US	US	Raking gage cluster mount	11/047894	2/1/2005		
DP-311826	MO50618US	US	STATIONARY WHEEL HUB	11/076222	3/9/2005	7380828	6/3/2008
DP-311829	MO50579US	US	Simple and Low-Cost Motor Position Sensor	10/971440	10/22/2004	7307416	12/11/2007
DP-311829	MO50579USD	US	Position Sensor and Assembly	11/877291	10/23/2007	7474090	1/6/2009
DP-311896	MO50096US	US	ACTIVE ENERGY ABSORPTION METHOD USING TILT AND TELESCOPE POSITIONS	10/932833	9/2/2004	7334817	2/26/2008
DP-311896	MO50096EP	EP	ACTIVE ENERGY ABSORPTION METHOD USING TILT AND TELESCOPE POSITIONS	05076978.5	8/30/2005		

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DP-311897	MO50097EP	EP	METHOD OF SUPPORTING A BUSHING AGAINST RADIAL MOVEMENT RELATIVE TO A STEERING COLUMN JACKET WITH A FILLER MATERIAL	05077725.9	11/24/2005		
DP-311897	MO50097US	US	METHOD OF SUPPORTING A BUSHING AGAINST RADIAL MOVEMENT RELATIVE TO A STEERING COLUMN JACKET WITH A FILLER MATERIAL	11/007544	12/8/2004	7534383 6020050048	5/19/2009
DP-311910	MO50006DE	DE	Horizontal hybrid collapsing steering column	05075913.3	4/19/2005	25	2/20/2008
DP-311910	MO50006US	US	Horizontal hybrid collapsing steering column	11/101953	4/8/2005	7942446	5/17/2011
DP-311910	MO50006USD	US	HORIZONTAL HYBRID COLLAPSING STEERING COLUMN	13/079496	4/4/2011		
DP-311910	MO50006EP	EP	Horizontal hybrid collapsing steering column	05075913.3	4/19/2005	1591342	2/20/2008
DP-311957	MO50438US	US	LOCK FOR TILTING AND TELESCOPING STEERING COLUMN	10/965539	10/14/2004	7306259	12/11/2007
DP-311968	MO50439US	US	TELLTALE INDICATOR FOR ADAPTIVE ENERGY ABSORBING SYSTEM	11/141893	6/1/2005	7434840	10/14/2008
DP-311990	MO50440US	US	NON-REVERSING SHORT TAPE COIL DEVICE	10/966860	10/15/2004	7192293	3/20/2007
DP-312157	MO50107DE	DE	Electronic preload for variable efforts steering system	06075183.1	1/30/2006	1695893	11/18/2009
DP-312157	MO50107FR	FR	Electronic preload for variable efforts steering system	06075183.1	1/30/2006	1695893	11/18/2009
DP-312157	MO50107GB	GB	Electronic preload for variable efforts steering system	06075183.1	1/30/2006	1695893	11/18/2009
DP-312157	MO50107IT	IT	Electronic preload for variable efforts steering system	06075183.1	1/30/2006	1695893	11/18/2009
DP-312157	MO50107US	US	Electric preload for variable effort steering system	11/092641	3/29/2005	7264080	9/4/2007
DP-312157	MO50107EP	EP	Electronic preload for variable efforts steering system	06075183.1	1/30/2006	1695893	11/18/2009
DP-312157-DIV	MO50107USD	US	Electric preload for variable effort steering system	11/846713	8/29/2007	7434654	10/14/2008
DP-312168	MO50441US2	US	Integrated position switch/brake transmission shift interlock for electronic gear indication	11/112037	4/22/2005	7278526	10/9/2007
DP-312171	MO50442US	US	RAKE AND TELESCOPE COLUMN LOCK SAFETY FUNCTION	10/960824	10/7/2004	7278660	10/9/2007
DP-312267	MO50007DE	DE	STEERING COLUMN ASSEMBLY WITH A QUICK RELEASE BOLT	06075561.8	3/9/2006	6020060171 32.3	9/29/2010
DP-312267	MO50007US	US	STEERING COLUMN ASSEMBLY WITH A QUICK RELEASE BOLT	11/085380	3/21/2005	7827880	11/9/2010
DP-312267	MO50007EP	EP	STEERING COLUMN ASSEMBLY WITH A QUICK RELEASE BOLT	06075561.8	3/9/2006	1705098	9/29/2010
DP-312268	MO50098US	US	SNAP-IN CAPSULE FOR STEERING COLUMNS	11/037313	1/18/2005	7229097	6/12/2007
DP-312268	MO50098EP	EP	SNAP-IN CAPSULE FOR STEERING COLUMNS	06075007.2	1/4/2006		
DP-312292	MO50301US	US	METHOD AND SYSTEM FOR ANTI-STATIC STEERING FOR VEHICLE STEERING SYSTEMS	10/953000	9/29/2004	7213675	5/8/2007

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DP-312324	MO50580US	US	Voltage Mode Control with Phase Advancing for Position Controlled Electric Machines	11/122687	5/5/2005	7323833	1/29/2008
DP-312325	MO50163US	US	NON-CONTACT POSITION SENSOR HOUSING USING EXISTING TORQUE SENSOR PROBE	11/053329	2/8/2005	7363825	4/29/2008
DP-312325	MO50163EP	EP	NON-CONTACT POSITION SENSOR HOUSING USING EXISTING TORQUE SENSOR PROBE	06075220.1	1/31/2006		
DP-312326	MO50581US	US	Motor Phase Current Measurement Using a Single DC Bus Shunt Sensor	11/052485	2/4/2005	7119530	10/10/2006
DP-312374	MO50444US	US	SNAP IN TILT BUMPER	11/003070	12/3/2004	7384068	6/10/2008
DP-312415	MO50205DE	DE	Elimination Of Periodic Sensor and Error Content	07075579.8	7/9/2007	1882624	11/18/2009
DP-312415	MO50205EP	EP	Elimination Of Periodic Sensor and Error Content	07075579.8	7/9/2007	1882624	11/18/2009
DP-312415	MO50205US	US	Compensation of Periodic Sensor Errors in Electric Power Steering Systems	11/495199	7/28/2006	7543679	6/9/2009
DP-312440	MO50651DE	DE	Ball-nut, ball-screw, method for making, and ball-screw-and-ball-nut assembly	05789834.8	8/23/2005	6020050141 18	4/22/2009
DP-312440	MO50651EP	EP	Ball-nut, ball-screw, method for making, and ball-screw-and-ball-nut assembly	05789834.8	8/23/2005	1784592	4/22/2009
DP-312440	MO50651FR	FR	Ball-nut, ball-screw, method for making, and ball-screw-and-ball-nut assembly	05789834.8	8/23/2005	1784592	4/22/2009
DP-312440	MO50651GB	GB	Ball-nut, ball-screw, method for making, and ball-screw-and-ball-nut assembly	05789834.8	8/23/2005	1784592	4/22/2009
DP-312450	MO50445US	US	PRE-CRASH COLUMN RELEASE	11/013585	12/16/2004	7347451	3/25/2008
DP-312501	MO50446US	US	ONE LEVER TILT AND TELESCOPE MECHANISM	11/138115	5/26/2005	7503234	3/17/2009
DP-312569	MO50447US	US	TILTABLE STEERING COLUMN	11/037676	1/18/2005	7475614	1/13/2009
DP-312643	MO50619US2	US	Fault detection and isolation system and method	10/039634	11/9/2001	6766230	7/20/2004
DP-312657	MO50210US2	US	Enhanced Digital Process Design Methodology for Process Centric CAD Systems	11/224405	9/12/2005	7526359	4/28/2009
DP-312664,DP-312665	MO50237US	US	Vehicle Stability Monitoring System and Method and Article of Manufacture for Determining Vehicle Stability	11/371058	3/8/2006	7610127 60 2008 010	10/27/2009
DP-312686	MO50083DE	DE	Self-retained constant velocity joint	08156552.5	7/10/2007	340.4	10/12/2011
DP-312686	MO50083GB	GB	Self-retained constant velocity joint	08156552.5	7/10/2007		
DP-312686	MO50083EP	EP	Self-retained constant velocity joint	08156552.5	5/20/2008	2014942	10/12/2011
DP-312687	MO50084US	US	Fixed-center constant velocity joint	11/827127	7/10/2007	7717793	5/18/2010
DP-312687	MO50084EP	EP	Fixed-center constant velocity joint	08156589.7	5/20/2008		
DP-312753	MO50192DE	DE	Mounting structure for steering column	06075530.3	3/7/2006	6020060035 80	11/12/2008
DP-312753	MO50192EP	EP	Mounting structure for steering column	06075530.3	3/7/2006	1702828	11/12/2008
DP-312831	MO50582US	US	CONTROL SYSTEM AND METHOD FOR VALIDATING OPERATION OF THE CONTROL SYSTEM	11/099871	4/6/2005	7424641	9/9/2008

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DP-312867	MO50448US	US	RELEASE CAPSULE FOR STEERING COLUMN	11/094868	3/31/2005	7228755	6/12/2007
DP-312897	MO50252CN	CN	Steering System with Leads and Pulls Compensation	200610081911.7	5/8/2006	2006100819	7/21/2010
DP-312897	MO50252DE	DE	Variable Effort Steering System with Leads and Pulls Compens	06075881.0	4/13/2006	6020060072	6/17/2009
DP-312897	MO50252US	US	STEERING SYSTEM WITH LEADS AND PULLS COMPENSATION	11/122337	5/5/2005	7364006	4/29/2008
DP-312897	MO50252HK	HK	Steering System with Leads and Pulls Compensation	07102874.0	5/8/2006		
DP-312897	MO50252KR	KR	Variable Effort Steering System with Leads and Pulls Compens	2006-40257	5/4/2006		
DP-312897	MO50252EP	EP	Variable Effort Steering System with Leads and Pulls Compens	06075881.0	4/13/2006	1719690	6/17/2009
DP-312993	MO50276US	US	System and Methods Involving Dynamic Closed Loop Motor Control and Flux Weakening	12/042786	3/6/2008	7839106	11/23/2010
DP-312993	MO50276EP	EP	DYNAMIC CLOSED LOOP CONTROL ALGORITHM FOR PM MACHINE USING A	09153918.9	2/27/2009		
DP-313024	MO50524US	US	Method and Apparatus for Diagnosing Motor Damping Network Integrity	11/137955	5/26/2005	7245130	7/17/2007
DP-313249	MO50008EP	EP	Steering column with rake and telescope adjustment	06075813.3	4/6/2006		
DP-313249DIV	MO50008USD	US	Steering column with rake and telescope adjustment	12/428841	4/23/2009		
DP-313286	MO50516DE	DE	JOINT ASSEMBLY WITH CENTERING FLANGE	06735325.0	2/17/2006	6020060149	6/16/2010
DP-313286	MO50516EP	EP	JOINT ASSEMBLY WITH CENTERING FLANGE	06735325.0	2/17/2006	1853832	6/16/2010
DP-313286CON	MO50516USC	US	JOINT ASSEMBLY WITH CENTERING FLANGE	12/491931	6/25/2009		
DP313325/DP30743 3CIP	MO50655USP	US	Watercraft Steer-by-Wireless System	11/349652	2/8/2006	7404369	
DP-313358	MO50021DEP	DE	Telescoping steering shaft	06075880.2	4/13/2006	6020060179	11/3/2010
DP-313358	MO50021EPP	EP	Telescoping steering shaft	06075880.2	4/13/2006	1717127	11/3/2010
DP-313358-CIP	MO50021USP	US	Telescoping steering shaft	11/325921	1/5/2006		
DP-313359	MO50022USP	US	Electronic driver oriented command center	11/109145	4/19/2005	7407190	8/5/2008
DP-313387	MO50208US	US	System and method for controlling contact between members in operable communication	11/489761	7/20/2006		
DP-313409	MO50457US	US	TUNEABLE ENERGY ABSORBING MOUNTING STRUCTURE FOR STEERING COLUMN	11/158406	6/22/2005	7264274	9/4/2007
DP-313421	MO50159DE	DE	STEERING SYSTEM WITH HAPTIC DRIVER WARNING	06076161.6	6/2/2006	6020060025	9/3/2008
DP-313421	MO50159US	US	STEERING SYSTEM WITH HAPTIC DRIVER WARNING	11/153096	6/15/2005	7280046	10/9/2007
DP-313421	MO50159EP	EP	STEERING SYSTEM WITH HAPTIC DRIVER WARNING	06076161.6	6/2/2006	1733950	9/3/2008

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DP-313422	MO50458US	US	ELECTRICAL CONNECTOR WITH INTEGRATED TERMINAL POSITION ASSURANCE AND WIRE COVER	11/334119	1/18/2006	7241183	7/10/2007
DP-313425	MO50023US	US	VEHICLE INFORMATION SYSTEM WITH REMOTE COMMUNICATORS IN A NETWORK ENVIRONMENT	11/330641	1/12/2006	7593792	9/22/2009
DP-313500	MO50024US	US	Infinitely adjustable steering column assembly	11/527039	9/26/2006	7823478	11/2/2010
DP-313500	MO50024EP	EP	Infinitely adjustable steering column assembly	07116562.5	9/17/2007	1905665	3/30/2011
DP-313527	MO50648EM	EM	SWITCH DESIGN	000425582-0001	10/24/2005	0001	10/24/2005
DP-313527	MO50648EM2	EM	SWITCH DESIGN	000425582-0002	10/24/2005	0002	10/24/2005
DP-313527	MO50648EM3	EM	SWITCH DESIGN	000425582-0003	10/24/2005	0003	10/24/2005
DP-313527	MO50648EM4	EM	SWITCH DESIGN	000425582-0004	10/24/2005	0004	10/24/2005
DP-313527	MO50648US	US	SWITCH DESIGN	29/231064	6/1/2005	D564974	3/25/2008
DP-313679	MO50200US	US	STEERING COLUMN ASSEMBLY WITH ACTIVE ENERGY ABSORPTION DEVICE	11/586806	10/26/2006	7661711	2/16/2010
DP-313679	MO50200EP	EP	STEERING COLUMN ASSEMBLY WITH ACTIVE ENERGY ABSORPTION DEVICE	07118880.9	10/19/2007		
DP-313732	MO50160DE	DE	TELESCOPING STEERING COLUMN ASSEMBLY AND METHOD OF MANUFACTURING THE ASSEMBLY	06076242.4	6/16/2006	6020060024 32	8/27/2008
DP-313732	MO50160US	US	TELESCOPING STEERING COLUMN ASSEMBLY AND METHOD OF MANUFACTURING THE ASSEMBLY	11/395346	3/31/2006	7556293	7/7/2009
DP-313732	MO50160EP	EP	TELESCOPING STEERING COLUMN ASSEMBLY AND METHOD OF MANUFACTURING THE ASSEMBLY	06076242.4	6/16/2006	1738987	8/27/2008
DP-313747	MO50459US	US	ENERGY ABSORBING APPARATUS	11/284713	11/21/2005	7497470	3/3/2009
DP-313815	MO50226US	US	Method and System for Improved Active Damping of Steering Systems	11/230889	9/20/2005	7523806	4/28/2009
DP-313815	MO50226EP	EP	Handwheel Velocity Dependent Scale for Electric Steering Act	06076652.4	8/31/2006		
DP-313842	MO50125US	US	TRIPOT BALL WITH TWO POINT CONTACT	11/257557	10/25/2005	7435181	10/14/2008
DP-313842	MO50125EP	EP	TRIPOT BALL WITH TWO POINT CONTACT	06076865.2	10/11/2006		
DP-313850	MO50025USD	US	Lock lever on steering column	12/429647	4/24/2009		
DP-313866	MO50322US	US	In an Active Front Steering System of a Vehicle	11/474756	6/26/2006		
DP-313879	MO50026US2	US	Steering column assembly having a dampener	11/431805	5/10/2006	7695017	4/13/2010
DP-313879	MO50026EP	EP	Steering column assembly having a dampener	06075979.2	5/1/2006		

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DP-313969	MO50081US3	US	Power Steering Apparatus with Adjustment Device	11/409111	4/21/2006		
DP-313969	MO50081JP	JP	Power Steering Apparatus with Adjustment Device	2006-282117	10/17/2006		
DP-313987	MO50126EP	EP	NEEDLE ROLLER RETAINER FOR TRIPOT JOINT	06076856.1	10/9/2006		
DP-313987	MO50126US	US	NEEDLE ROLLER RETAINER FOR TRIPOT JOINT	11/258495	10/25/2005	7396283	7/8/2008
DP-313987	MO50126EPD	EP	NEEDLE ROLLER RETAINER FOR TRIPOT JOINT	11004358.5	10/9/2006		
DP-313989	MO50100US	US	Adaptive energy absorber for steering column	11/430372	5/9/2006	7510213	3/31/2009
DP-313989	MO50100EP	EP	Adaptive energy absorber for steering column	06076093.1	5/23/2006		
DP-314029	MO50274US2	US	Sprung Gear Set and Method	11/556775	11/6/2006	7721616	5/25/2010
DP-314047	MO50104US	US	USER INTERFACE FOR COMPUTER DISPLAY	29/231063	6/1/2005	D585906	2/3/2009
DP-314047	MO50104USD	US	USER INTERFACE FOR COMPUTER DISPLAY	29/312261		D630642	1/11/2011
DP-314047	MO50668USP	US	DISPLAY PANEL WITH A COMPUTER ICON OF AN INSTRUMENT GAUGE OF A VEHICLE	29/298045	11/27/2007	D611952	3/16/2010
DP-314118	MO50165USD	US	BOOT FOR UNIVERSAL JOINT	12/258039	10/24/2008		
DP-314118	MO50165DE	DE	BOOT FOR UNIVERSAL JOINT	06077302.5	12/22/2006	6020060211 28.7	4/6/2011
DP-314118	MO50165FR	FR	BOOT FOR UNIVERSAL JOINT	06077302.5	12/22/2006	1808611	4/6/2011
DP-314118	MO50165GB	GB	BOOT FOR UNIVERSAL JOINT	06077302.5	12/22/2006	1808611	4/6/2011
DP-314118	MO50165IN	IN	BOOT FOR UNIVERSAL JOINT	61/CHE/2007	1/10/2007	241500	7/8/2010
DP-314118	MO50165US	US	BOOT FOR UNIVERSAL JOINT	11/330762	1/12/2006	7468000	12/23/2008
DP-314118	MO50165CN	CN	BOOT FOR UNIVERSAL JOINT	200710002321.5	1/11/2007		
DP-314118	MO50165KR	KR	BOOT FOR UNIVERSAL JOINT	2006-0131451	12/21/2006		
DP-314118	MO50165EP	EP	BOOT FOR UNIVERSAL JOINT	06077302.5	12/22/2006	1808611	4/6/2011
DP-314162	MO50099US	US	COMMUNICATIONS INTERFACE MODULE FOR VEHICLE	11/266975	11/4/2005	7498930	3/3/2009
DP-314186	MO50460US	US	DOUBLE PIVOTING TILT JOINT	11/339593	1/25/2006	7371180	5/13/2008
DP-314235	MO50085US	US	RESERVOIR ASSEMBLY	11/495798	7/28/2006	7779862	8/24/2010
DP-314235	MO50085EP	EP	RESERVOIR ASSEMBLY	06789381.8	8/2/2006		
DP-314583	MO50649US	US	VEHICLE GEAR SHIFTER	29/259470	5/9/2006	D576931	9/16/2008
DP-314605	MO50583US	US	System and Method for Determining Operational States of First and Second Electrical Contacts in a Motor	11/256466	10/21/2005	7095244	8/22/2006
DP-314648	MO50461US	US	STEERING COLUMN ASSEMBLY	11/448222	6/7/2006	7497472	3/3/2009
DP-314721	MO50027US	US	Collapsible steering column assembly	11/906428	10/2/2007	8033574	10/11/2011
DP-314721-2	MO50028US	US	COLLAPSIBLE STEERING COLUMN ASSEMBLY	12/236988	9/24/2008		
DP-314722	MO50462US2	US	CONNECTOR ASSEMBLY HAVING A SECURING MEMBER	11/704670	2/9/2007	7347709	3/25/2008

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DP-314726	MO50495US	US	SPLINE ARRANGEMENT FOR ROTATABLY COUPLING TWO MEMBERS	11/341766	1/27/2006	7478969	1/20/2009
DP-314727	MO50029US	US	STEERING COLUMN ASSEMBLY INCLUDING ANTI-ROTATION DEVICE	11/588932	10/27/2006	7574940	8/18/2009
DP-314868	MO50349US	US	Quadrant Dependent Active Damping for Electric Power Steering	11/495219	7/28/2006	7549504	6/23/2009
DP-314869	MO50206CZ	CZ	MAGNETIC AND ELECTRICAL PROCESSING OF METALS, METAL ALLOYS, METAL MATRIX COMPOSITE PARTS AND COMPONENTS	07121593.3	11/27/2007	1932745	7/20/2011
DP-314869	MO50206CZD	CZ	Enhanced Pull Compensation	09003760.7	11/27/2007	2070803	8/17/2011
DP-314869	MO50206DE	DE	MAGNETIC AND ELECTRICAL PROCESSING OF METALS, METAL ALLOYS, METAL MATRIX COMPOSITE PARTS AND COMPONENTS	07121593.3	11/27/2007	6020070158 89.3	7/20/2011
DP-314869	MO50206DED	DE	Enhanced Pull Compensation	09003760.7	11/27/2007	6020070166 53.5	8/17/2011
DP-314869	MO50206FR	FR	MAGNETIC AND ELECTRICAL PROCESSING OF METALS, METAL ALLOYS, METAL MATRIX COMPOSITE PARTS AND COMPONENTS	07121593.3	11/27/2007	1932745	7/20/2011
DP-314869	MO50206FRD	FR	Enhanced Pull Compensation	09003760.7	11/27/2007	2070803	8/17/2011
DP-314869	MO50206IT	IT	MAGNETIC AND ELECTRICAL PROCESSING OF METALS, METAL ALLOYS, METAL MATRIX COMPOSITE PARTS AND COMPONENTS	07121593.3	11/27/2007	1932745	7/20/2011
DP-314869	MO50206ITD	IT	Enhanced Pull Compensation	09003760.7	11/27/2007	2070803	8/17/2011
DP-314869	MO50206PL	PL	Method and Apparatus for Compensating Steering Pull	07121593.3	11/27/2007	1932745	7/20/2011
DP-314869	MO50206PLD	PL	"Method and apparatus for compensating steering pull"	09003760.7	11/27/2007	2070803	8/17/2011
DP-314869	MO50206US	US	METHOD, SYSTEM, AND APPARATUS FOR PROVIDING ENHANCED STEERING PULL COMPENSATION	11/611406	12/15/2006	7725227	5/25/2010
DP-314869	MO50206EP	EP	Enhanced Pull Compensation	07121593.3	11/27/2007	1932745	7/20/2011
DP-314869	MO50206EPD	EP	Enhanced Pull Compensation	09003760.7	11/27/2007	2070803	8/17/2011
DP-314869DIV	MO50206USD	US	Method, System, and Apparatus for Providing Enhanced Steering Pull Compensation	12/229694	8/26/2008		
DP-314874	MO50323US	US	System and Method for Detecting a Motor Shorting Relay Failure	11/591270	10/31/2006	7570004	8/4/2009
DP-314876	MO50620US2	US	Steering column energy absorption	11/709632	2/22/2007	7455321	11/25/2008
DP-314966	MO50238US	US	Methods, Systems, and Computer Program Products for Calculating a Torque Overlay Command in a Steering Control System	11/557673	11/8/2006	7835836	11/16/2010
DP-314977	MO50275US	US	Method, Systems, and Computer Program Products for Tire Slip Angle Limiting in a Steering Control System	11/556769	11/6/2006	7756620	7/13/2010
DP-314994	MO50030DE	DE	Energy absorbing steering column assembly	07117564.0	9/28/2007	6020070108 77.2	12/1/2010

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DP-314994	MO50030EP	EP	Energy absorbing steering column assembly	07117564.0	9/28/2007	1908663	12/1/2010
DP-314994	MO50030US	US	Energy absorbing steering column assembly	11/543564	10/5/2006	7780196	8/24/2010
DP-315044	MO50279US	US	ROCKER-ARM LOCK DEVICE OF AN ADJUSTABLE STEERING COLUMN ASSEMBLY	11/726209	3/21/2007	7635149	12/22/2009
DP-315045	MO50103US	US	POSITION CONTROL APPARATUS FOR STEERING COLUMN	11/638132	12/13/2006	7533594	5/19/2009
DP-315085	MO50031USP	US	CONTROL SYSTEM AND METHOD FOR A VEHICLE TRANSMISSION	12/120716	5/15/2008	7806015	10/5/2010
DP-315219	MO50164US	US	Steering column assembly having a stopping member for preventing rotation of a tilt mechanism	11/715638	3/8/2007	7779717	8/24/2010
DP-315276	MO50324US	US	System and Method for Adjusting a Dead-Time Interval in a Motor Control Circuit	11/622784	1/12/2007	7659679	2/9/2010
DP-315292	MO50032US2	US	Transmission shift mechanism having insert molded crank arm	11/788255	4/19/2007	7621047	11/24/2009
DP-315292	MO50032USD	US	Transmission shift mechanism having insert molded crank arm	12/462322	7/31/2009	7845252	12/7/2010
DP-315294	MO50033CN	CN	STEERING COLUMN ASSEMBLY	200820006063.8	2/13/2008	ZL200820006063.8	6/1/2011
DP-315294	MO50033DE	DE	STEERING COLUMN ASSEMBLY	08150827.7	1/30/2008	30.7	10/12/2011
DP-315294	MO50033US	US	STEERING COLUMN ASSEMBLY	11/704647	2/9/2007	7587959	9/15/2009
DP-315294	MO50033EP	EP	STEERING COLUMN ASSEMBLY	08150827.7	1/30/2008	1955922	10/12/2011
DP-315367	MO50621US	US	POWER STEERING ASSEMBLY	11/713141	3/2/2007	7477026	1/13/2009
DP-315475	MO50034US	US	Transmission shift control mechanism and method of installation	11/820220	6/18/2007	7913583	3/29/2011
DP-315493	MO50035US	US	Axial delash mechanism	11/607250	12/1/2006	7832936	11/16/2010
DP-315494	MO50036US	US	ADJUSTABLE STEERING COLUMN ASSEMBLY HAVING AN ATTACHED INSTRUMENT CLUSTER	11/728072	3/23/2007	7611165	11/3/2009
DP-315517	MO50037DE	DE	Clamp yoke and a method of forming a clamp yoke	07075475.9	6/15/2007	24.9	8/11/2010
DP-315517	MO50037US	US	Clamp yoke and a method of forming a clamp yoke	11/821098	6/21/2007		
DP-315517	MO50037GB	GB	Clamp yoke and a method of forming a clamp yoke	07075475.9		1870310	8/11/2010
DP-315517	MO50037EP	EP	Clamp yoke and a method of forming a clamp yoke	07075475.9	6/15/2007	1870310	8/11/2010
DP-315550	MO50266US2	US	SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR LANE CHANGE DETECTION AND HANDLING OF LANE KEEPING TORQUE	11/972230	1/10/2008	7885730	2/8/2011
DP-315550	MO50266EP	EP	Lane Change Detection and Handling of Lane Keeping Torque	08100747.8	1/11/2008		
DP-315551	MO50325EP	EP	Lane Keeping and Handling Non-Detected Lane Markers	07117247.2	9/26/2007		
DP-315555	MO50038US	US	Universal shifter system for a vehicle	11/810726	6/7/2007		

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DP-315576	MO50011US	US	Assembly with metal casting and polymeric member and transmission shift mechanism including same	11/586132	10/25/2006	7971502	7/5/2011
DP-315576	MO50011USD	US	Assembly With Metal Casting And Polymeric Member And Transmission Shift Mechanism	13/115592	5/25/2011		
DP-315577	MO50201CN	CN	COLLAPSIBLE STEERING COLUMN SUPPORT	200820006067.6	2/5/2008	2008200060 67.6	10/13/2010
DP-315577	MO50201DE	DE	COLLAPSIBLE STEERING COLUMN SUPPORT	08150711.3	1/28/2008	6020080075 55.9	6/15/2011
DP-315577	MO50201US	US	COLLAPSIBLE STEERING COLUMN SUPPORT	11/702885	2/6/2007	7625009	12/1/2009
DP-315577	MO50201EP	EP	COLLAPSIBLE STEERING COLUMN SUPPORT	08150711.3	1/28/2008	1955923	6/15/2011
DP-315580	MO50308US2	US	SYSTEM AND METHOD FOR DETERMINING AN ABSOLUTE ROTATIONAL POSITION OF A VEHICLE STEERING COLUMN	12/107809	4/23/2008	7950274	5/31/2011
DP-315580	MO50308EP	EP	System and Method for Determining an Absolute Rotational Position of a Vehical Steering Column	08154625.1	4/16/2008		
DP-315580	MO50308USD	US	METHOD FOR DETERMINING AN ABSOLUTE ROTATIONAL POSITION OF A VEHICLE STEERING COLUMN	13/111671	5/19/2011		
DP-315628	MO50039US	US	Adjustable steering column utilizing a sleeve and a method of forming a filler with a sleeve	11/726210	3/21/2007		
DP-315628	MO50039CN	CN	Adjustable steering column utilizing a sleeve and a method of forming a filler with a sleeve	200820008478.9	3/21/2008	2008200084 78.9	10/14/2009
DP-315628	MO50039CND	CN	Adjustable steering column utilizing a sleeve and a method of forming a filler with a sleeve	200920166797.7	3/21/2008	2009201667 97.7	
DP-315628	MO50039USD	US	Adjustable steering column utilizing a sleeve and a method of forming a filler with a sleeve	13/306425	11/29/2011		
DP-315628	MO50039EP	EP	Adjustable steering column utilizing a sleeve and a method of forming a filler with a sleeve	08152375.5	3/6/2008		
DP-315683	MO50040US	US	Method of preventing unauthorized movement of a transmission shift mechanism	11/893993	8/17/2007	8029409	10/4/2011
DP-315683	MO50040USD	US	METHOD OF PREVENTING UNAUTHORIZED MOVEMENT OF A TRANSMISSION SHIFT MECHANISM	13/168022	6/24/2011		
DP-315724	MO50014US2	US	Vehicular hydraulic system with dual relief valve	11/901864	9/19/2007	7765915	8/3/2010
DP-315725	MO50015US2	US	Vehicular Hydraulic System with Pressure Dump and Relief Valve Arrangement	11/901865	9/19/2007	7739943	6/22/2010
DP-315726	MO50016US	US	Vehicular Hydraulic System with Priority Valve and Relief Valve	11/901821	9/19/2007	7730825	6/8/2010
DP-315727	MO50017US	US	Vehicular Hydraulic system with priority valve	11/901822	9/19/2007	7779744	8/24/2010
DP-315731	MO50041US	US	Adjustable Steering Column Assembly for a Vehicle	11/704657	2/9/2007	7735868	6/15/2010
DP-315737	MO50042US	US	Steering column assembly having an actuation mechanism for telescoping and tilting movement	11/732641	4/4/2007	7743681	6/29/2010

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DP-315741	MO50018CN	CN	Vehicular hydraulic system with check valve	200820119116.7	4/29/2008	2008201191 16.7	4/29/2009
DP-315785	MO50020CZ	CZ	STEERING GEAR ASSEMBLY HAVING RACK BUSHING	07118149.9	10/9/2007	1911658 6020070078	7/21/2010
DP-315785	MO50020DE	DE	STEERING GEAR ASSEMBLY HAVING RACK BUSHING	07118149.9	10/9/2007	64.4	7/21/2010
DP-315785	MO50020FR	FR	STEERING GEAR ASSEMBLY HAVING RACK BUSHING	07118149.9	10/9/2007	1911658	7/21/2010
DP-315785	MO50020PL	PL	STEERING GEAR ASSEMBLY HAVING RACK BUSHING	07118149.9	10/9/2007	1911658	7/21/2010
DP-315785	MO50020US	US	STEERING GEAR ASSEMBLY HAVING RACK BUSHING	11/893945	8/17/2007	7665747	2/23/2010
DP-315785	MO50020EP	EP	STEERING GEAR ASSEMBLY HAVING RACK BUSHING	07118149.9	10/9/2007	1911658	7/21/2010
DP-315786	MO50252USP	US	METHOD OF DETERMINING BOOST DIRECTION IN A POWER STEERING SYSTEM	11/810572	6/6/2007	7793752	9/14/2010
DP-315786	MO50252EPP	EP	Variable Effort Steering System with Leads and Pulls Compens	08155692.0	5/6/2008		
DP-315801	MO50043US	US	Needle roller bearing	11/973775	10/9/2007	8033738	10/11/2011
DP-315814	MO50202DE	DE	CENTRAL LOCK DEVICE OF AN ADJUSTABLE STEERING COLUMN ASSEMBLY	07075768.7	9/6/2007	6020070074 09.6	6/30/2010
DP-315814	MO50202US	US	CENTRAL LOCK DEVICE OF AN ADJUSTABLE STEERING COLUMN ASSEMBLY	11/803525	5/15/2007	7640824	1/5/2010
DP-315814	MO50202EP	EP	CENTRAL LOCK DEVICE OF AN ADJUSTABLE STEERING COLUMN ASSEMBLY	07075768.7	9/6/2007	1900600	6/30/2010
DP-315835	MO50086CN	CN	Hydraulic reservoir with baffle	200820001480.3	1/21/2008		
DP-315835	MO50086EP	EP	Hydraulic reservoir with baffle	08100416.0	1/14/2008		
DP-315835	MO50086KR	KR	Hydraulic reservoir with baffle	20080005770	1/18/2008		
DP-315845	MO50044US	US	RELEASABLE PUSH/PULL LOCK DEVICE OF AN ADJUSTABLE STEERING COLUMN ASSEMBLY	11/726216	3/21/2007	7621197	11/24/2009
DP-315853	MO50079DE	DE	Electric power steering system	07116936.1	9/21/2007	1905672	11/25/2009
DP-315853	MO50079EP	EP	Electric power steering system	07116936.1	9/21/2007	1905672	11/25/2009
DP-315854	MO50080US	US	Gear mechanism incorporating a signal transmission medium	11/894396	8/21/2007	7815010	10/19/2010
DP-315854	MO50080EP	EP	Gear mechanism incorporating a signal transmission medium	07117073.2	9/24/2007		
DP-315920	MO50564US	US	Adjustable Steering Column Assembly Having A Rake and Telescope Locking System	11/801546	5/10/2007	7574941	8/18/2009
DP-315931	MO50045US	US	Brake-transmission shift interlock assembly	11/977398	10/24/2007		
DP-315940	MO50010US	US	Central lock device of an adjustable steering column assembly	11/726207	3/21/2007	7730804	6/8/2010

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DP-315943	MO50265US	US	Systems and Methods for Controlling Torque of a Motor	11/740061	4/25/2007	7538514	5/26/2009
DP-315943	MO50265EP	EP	Motor Phase Short Mitigation Strategy for Permanent Magnet T	08153104.8	3/20/2008		
DP-315945	MO50239US	US	Systems, Methods and Computer Products for Drowsy Driver Detection and Response	11/868193	10/5/2007	7719431 6020070118	5/18/2010
DP-315983	MO50204DE	DE	Systems and Methods for Controlling a Vehicle	07120989.4	11/19/2007	72.7	1/12/2011
DP-315983	MO50204US2	US	Systems and Methods for Controlling a Vehicle Steering System	11/756235	5/31/2007	7676310	3/9/2010
DP-315983	MO50204USC	US	Method for Controlling a Vehicle Steering System	12/570894	9/30/2009	8027767	9/27/2011
DP-315983	MO50204EP	EP	Systems and Methods for Controlling a Vehicle	07120989.4	11/19/2007	1927529	1/12/2011
DP-316064	MO50046USP	US	TRANSMISSION SHIFT ASSEMBLY FOR A VEHICLE AND A METHOD OF MONITORING THE SAME	13/306406	11/29/2011		
DP-316064	MO50046US	US	Transmission shift assembly for a vehicle and a method of monitoring the same	11/893955	8/17/2007		
DP-316080	MO50309US2	US	METHODS AND MOTOR COMPUTER PROGRAM PRODUCTS FOR MOTORCONTROL BY THE IMPLEMENTATION OF DAMPING FOR OVER-SPEED CONDITIONS	11/869847	10/10/2007		
DP-316098	MO50047CN	CN	LOCK MECHANISM FOR AN ADJUSTABLE STEERING COLUMN ASSEMBLY	200820007673.X	3/27/2008	2008200076 73.X	7/1/2009
DP-316098	MO50047DE	DE	LOCK MECHANISM FOR AN ADJUSTABLE STEERING COLUMN ASSEMBLY	08153040.4	3/19/2008	6020080036 02.2	11/24/2010
DP-316098	MO50047EP	EP	LOCK MECHANISM FOR AN ADJUSTABLE STEERING COLUMN ASSEMBLY	08153040.4	3/19/2008	1975036	11/24/2010
DP-316098	MO50047US	US	LOCK MECHANISM FOR AN ADJUSTABLE STEERING COLUMN ASSEMBLY	12/036666	2/25/2008	8047096	11/1/2011
DP-316192	MO50277US	US	RING AND ROTOR COUPLING ASSEMBLY	12/128833	5/29/2008		
DP-316192	MO50277EP	EP	RING AND ROTOR COUPLING ASSEMBLY	09160804.2	5/20/2009		
DP-316213	MO50048US	US	Steering column manufacturing machine and method of manufacturing a steering column	11/897236	8/29/2007		
DP-316213	MO50048USD	US	Steering column manufacturing machine and method of manufacturing a steering column	13/307201	11/30/2011		
DP-316263	MO50227CZ	CZ	Steering Travel Limit Determination for Electric...	08154398.5	4/11/2008	1990255 6020080049	2/16/2011
DP-316263	MO50227DE	DE	Steering Travel Limit Determination for Electric...	08154398.5	4/11/2008	42.6	2/16/2011
DP-316263	MO50227FR	FR	Steering Travel Limit Determination for Electric...	08154398.5	4/11/2008	1990255	2/16/2011
DP-316263	MO50227PL	PL	Steering Travel Limit Determination for Electric...	08154398.5	4/11/2008	1990255	2/16/2011
DP-316263	MO50227US2	US	Methods, Systems, and Computer Program Products for Steering Travel Limit Determination for Electric Power Steering	12/099470	4/8/2008	8082078	12/20/2011
DP-316263	MO50227EP	EP	Steering Travel Limit Determination for Electric...	08154398.5	4/11/2008	1990255	2/16/2011

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DP-316264	MO50310US	US	System and Method for Determining an Absolute Rotational Position of a Vehicle Handwheel	11/930830	10/31/2007		
DP-316265	MO50311US	US	SYSTEMS AND METHODS FOR DETERMINING AN ABSOLUTE ROTATIONAL POSITION OF A VEHICLE HANDWHEEL	11/951390	12/6/2007		
DP-316297	MO50049US	US	ADJUSTABLE STEERING COLUMN ASSEMBLY	12/031100	2/14/2008	7942076	5/17/2011
DP-316297	MO50049USD	US	ADJUSTABLE STEERING COLUMN ASSEMBLY	13/083919	4/11/2011		
DP-316300	MO50050US	US	ADJUSTABLE STEERING COLUMN ASSEMBLY FOR A VEHICLE	12/098817	4/7/2008	7914043	3/29/2011
DP-316308	MO50240US2	US	MAGNETIC RING SYSTEMS FOR ATTACHMENT TO A SHAFT AND METHODS OF MAKING AND USING	12/102971	4/15/2008	8083431	12/27/2011
DP-316311	MO50051US	US	Shaft assembly with lash free bipot joint connection	11/906487	10/2/2007	7806619	10/5/2010
DP-316344	MO50052US	US	STEERING COLUMN ASSEMBLY	12/114360	5/2/2008	7798526	9/21/2010
DP-316370	MO50241US2	US	Variable Effort Steering Actuator	12/187722	8/7/2008	7898139	3/1/2011
DP-316370	MO50241EP	EP	Design Methodologies for Ves Actuator	08161393.7	7/29/2008		
DP-316370 (CN)	MO50241CN	CN	Design Methodologies for Ves Actuator	200810168660.5	8/21/2008		
DP-316387	MO50203USC	US	COLLAPSIBLE STEERING COLUMN ASSEMBLY	12/640054	12/17/2009		
DP-316387	MO50203CN	CN	COLLAPSIBLE STEERING COLUMN ASSEMBLY	200820003508.7	3/7/2008	200820003508.7	7/8/2009
DP-316387	MO50203DE	DE	COLLAPSIBLE STEERING COLUMN ASSEMBLY	08151778.1	1/30/2008	602008010333.1	10/12/2011
DP-316387	MO50203US	US	COLLAPSIBLE STEERING COLUMN ASSEMBLY	11/895536	8/24/2007	7665767	2/23/2010
DP-316387	MO50203EPD	EP	COLLAPSIBLE STEERING COLUMN ASSEMBLY	11005487.1	2/21/2008		
DP-316387	MO50203EP	EP	COLLAPSIBLE STEERING COLUMN ASSEMBLY	08151778.1	2/21/2008	1967442	10/12/2011
DP-316421	MO50264EP	EP	Method of Making Torque Overlay Actuators	08158443.5	6/17/2008		
DP-316421	MO50264US2	US	Methods of Making Torque Overlay Actuators	12/142169	6/19/2008		
DP-316475	MO50054US	US	Tilt steering column assembly for a vehicle	11/904367	9/27/2007	7836790	11/23/2010
DP-316494	MO50263US	US	APPARATUS FOR SENSING ANGULAR DISPLACEMENT BETWEEN FIRST AND SECOND ROTATING SHAFTS INCLUDING FLUX COLLECTORS	11/880502	7/23/2007	7639004	12/29/2009
DP-316494	MO50263EP	EP	APPARATUS FOR SENSING ANGULAR DISPLACEMENT BETWEEN FIRST AND SECOND ROTATING SHAFTS INCLUDING FLUX COLLECTORS	08156904.8	5/26/2008		
DP-316518	MO50242US2	US	Parking Assist System with Steering Cues	12/170902	7/10/2008	7836991	11/23/2010
DP-316520	MO50055US	US	Adjustable steering column assembly with break-away lever	12/011858	1/30/2008		
DP-316556	MO50056US	US	Ignition and transmission shift lever interlock system	11/900535	9/12/2007	7749135	7/6/2010

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DP-316589	MO50057US	US	BALL RAMP CLAMPING MECHANISM	12/036861	2/25/2008	7878543	2/1/2011
DP-316593	MO50058US	US	Fastener system with frangible member	12/009749	1/22/2008		
DP-316595	MO50008EPP2	EP	Steering column with rake and telescope adjustment	09158470.6	4/22/2009		
DP-316595	MO50008USP2	US	Electric Steering Column Lock with Single Direction Actuator Travel	12/114394	5/2/2008	8056437	11/15/2011
DP-316595	MO50008USD2	US	Electric Steering column lock with single direction actuator travel	13/249705	9/30/2011		
DP-316596	MO50008USP	US	Steering column with rake and telescope adjustment	12/114417	5/2/2008	7861615	1/4/2011
DP-316648	MO50081CN	CN	Eccentric rack bearing	20061099662.4	6/29/2006	2006109966	
DP-316648	MO50081CZ3	CZ	Eccentric rack bearing	06076222.6	6/14/2006	2.4	3/17/2010
DP-316648	MO50081DE2	DE	Rack pinion steering gear assembly having self-adjusting eccentric rack bearing with spring force balance	08154810.9	4/18/2008	6020060051	
DP-316648	MO50081DE3	DE	Eccentric rack bearing	06076222.6	6/14/2006	06	2/11/2009
DP-316648	MO50081EP2	EP	Rack pinion steering gear assembly having self-adjusting eccentric rack bearing with spring force balance	08154810.9	4/18/2008	6020080034	
DP-316648	MO50081FR2	FR	Rack pinion steering gear assembly having self-adjusting eccentric rack bearing with spring force balance	08154810.9	4/18/2008	76.3	11/17/2010
DP-316648	MO50081FR3	FR	Eccentric rack bearing	06076222.6	6/14/2006	1738989	2/11/2009
DP-316648	MO50081PL3	PL	Eccentric rack bearing	06076222.6	6/14/2006	1738989	2/11/2009
DP-316648	MO50081USP2	US	Rack and Pinion Steering Gear Assembly Having Self-Adjusting Eccentric Rack Bearing	12/102249	4/14/2008	7980152	7/19/2011
DP-316648	MO50081EP3	EP	Eccentric rack bearing	06076222.6	6/14/2006	1738989	2/11/2009
DP-316656	MO50228EP	EP	POSITION BASED TORQUE DISTURBANCE REJECTION	09158145.4	4/17/2009		
DP-316656	MO50228US	US	Position Based Torque Disturbance Rejection	12/110670	4/28/2008		
DP-316657	MO50312US	US	Power Steering Device Including a Compliant Gear	12/170681	7/10/2008	8069745	12/6/2011
DP-316666	MO50127US	US	FIXED CENTER CONSTANT VELOCITY JOINT WITH DIFFERENT FUNNEL OFFSETS	11/950047	12/4/2007		
DP-316666	MO50127EP	EP	FIXED CENTER CONSTANT VELOCITY JOINT WITH DIFFERENT FUNNEL OFFSETS	08169288	11/17/2008		
DP-316668	MO50128US	US	UNIVERSAL JOINT	11/958056	12/17/2007	7887423	2/15/2011
DP-316668	MO50128IN	IN	UNIVERSAL JOINT	3290/CHE/2008	12/26/2008		
DP-316668	MO50128AU	AU	UNIVERSAL JOINT	20080229964	10/16/2008		
DP-316668	MO50128BR	BR	UNIVERSAL JOINT	2008PI105368	12/15/2008		

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DP-316668	MO50128CN	CN	UNIVERSAL JOINT	200810185944.5	12/16/2008		
DP-316668	MO50128EP	EP	UNIVERSAL JOINT	08170885.1	12/5/2008		
DP-316669	MO50129US	US	FIXED CENTER CONSTANT VELOCITY JOINT	11/950587	12/5/2007		
DP-316669	MO50129EP	EP	FIXED CENTER CONSTANT VELOCITY JOINT	08169721.1	11/21/2008		
DP-316673	MO50059US	US	Fastener system with frangible member	11/978826	10/30/2007		
DP-316705	MO50081CZ	CZ	Rack pinion steering gear assembly having self-adjusting eccentric rack bearing with spring force balance	08154701.0	4/17/2008	1992545	7/21/2010
DP-316705	MO50081DE	DE	Rack pinion steering gear assembly having self-adjusting eccentric rack bearing with spring force balance	08154701.0	4/17/2008	6020080018 24.5	7/21/2010
DP-316705	MO50081FR	FR	Rack pinion steering gear assembly having self-adjusting eccentric rack bearing with spring force balance	08154701.0	4/17/2008	1992545	7/21/2010
DP-316705	MO50081PL	PL	Rack pinion steering gear assembly having self-adjusting eccentric rack bearing with spring force balance	08154701.0	4/17/2008	1992545	7/21/2010
DP-316705	MO50081USP	US	Eccentric rack bearing	12/102212	4/14/2008		
DP-316705	MO50081EP	EP	Rack pinion steering gear assembly having self-adjusting eccentric rack bearing with spring force balance	08154701.0	4/17/2008	1992545	7/21/2010
DP-316729	MO50262EP	EP	MAGNET POLE SHAPING IN COMBINATION WITH ASYMMETRICAL DUMMY N	09154914.7	3/11/2009		
DP-316732	MO50168US	US	MODULAR POWER ACTUATOR	12/029270	2/11/2008	8011265	9/6/2011
DP-316786	MO50060US	US	TELESCOPICALLY ADJUSTABLE STEERING COLUMN ASSEMBLY	12/030749	2/13/2008	7874588	1/25/2011
DP-316797	MO50122CN	CN	ENERGY CONSUPTION REDUCTION ALGORITHM; MAGNASTEER SYSTEM	200820134016.1	9/8/2008	2008201340 16.1	3/3/2010
DP-316797	MO50122US	US	POWER STEERING SYSTEM	12/207056	9/9/2008	7971679	7/5/2011
DP-316797	MO50122EP	EP	ENERGY CONSUPTION REDUCTION ALGORITHM; MAGNASTEER SYSTEM	07017686.2	9/10/2007		
DP-316887	MO50061US	US	COLUMN LOCK ASSEMBLY	12/046238	3/11/2008	7681423	3/23/2010
DP-316889	MO50062US	US	METHOD OF OPERATING A VEHICLE ACCESSORY	12/031228	2/14/2008		
DP-316910	MO50082US	US	Rack and pinion steering gear with self-adjusting rack bearing	12/074940	3/7/2008	7930951	4/26/2011
DP-316910	MO50082EP	EP	Rack and pinion steering gear with self-adjusting rack bearing	09154091.4	3/2/2009		
DP-316957	MO50229US	US	Systems and Methods Involving Quadrant Dependent Active Damping	11/955347	12/12/2007		
DP-316957	MO50229EP	EP	ROBUST QUADRANT-DEPENDANT DAMPING	08169686.6	11/21/2008		

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DP-316965	MO50063US	US	Adjustable steering column assembly with compressive locking mechanism	12/006760	1/5/2008	7882761	2/8/2011
DP-317032	MO50604US	US	STEERING COLUMN HAVING AN ACTUATOR FOR APPLYING A RESULTANT FORCE	12/186238	8/5/2008	7896395	3/1/2011
DP-317032	MO50604EP	EP	STEERING COLUMN HAVING AN ACTUATOR FOR APPLYING A RESULTANT FORCE	09165652.0	7/16/2009		
DP-317069	MO50463US	US	STEERING COLUMN ASSEMBLY	12/139950	6/16/2008	7562548	7/21/2009
DP-317078	MO50064US	US	INTERACTIVE MULTIMEDIA CONTROL MODULE METHODS AND SYSTEMS INVOLVING DETERMINING SHAFT VELOCITY	12/026440	2/5/2008		
DP-317097	MO50657DE	DE		112008003586.5	12/31/2008		
DP-317097	MO50657US2	US	Methods and Systems Involving Determining Shaft Velocity	12/811538	12/31/2008		
DP-317104	MO50065US	US	ADJUSTABLE STEERING COLUMN ASSEMBLY MOTOR VELOCITY DEPENDENT DAMPING BLEND FUNCTION	12/262287	10/31/2008	7886631	2/15/2011
DP-317111	MO50230EP	EP		09154419.7	3/5/2009		
DP-317111	MO50230US	US	Systems and Methods Involving Velocity Dependent Damping	12/046523	3/12/2008		
DP-317184	MO50066US	US	ADJUSTABLE STEERING COLUMN ASSEMBLY SHIFT LEVER ASSEMBLY HAVING A DUAL SIGNAL PARK POSITION SWITCH	12/108156	4/23/2008		
DP-317185	MO50067US	US		12/042473	3/5/2008		
DP-317200	MO50068US	US	COLLAPSIBLE STEERING COLUMN ASSEMBLY METHOD OF MANUFACTURING A PRINTED CIRCUIT BOARD	12/101488	4/11/2008	7798525	9/21/2010
DP-317201	MO50193US	US		12/129938	5/30/2008		
DP-317201	MO50193EP	EP	METHOD OF MANUFACTURING A PRINTED CIRCUIT BOARD	09161282.0	5/27/2009		
DP-317227	MO50069US	US	NON-TRANSLATING TELESCOPIC RAKE PIVOT FOR STEERING COLUMN ASSEMBLY	12/030943	2/14/2008	7874228	1/25/2011
DP-317243	MO50285US	US	Methods and Systems Involving Electromagnetic Torsion Bars	12/333802	12/12/2008		
DP-317243	MO50285EP	EP	Electromagnetic Torsion bar for Steering Systems	09015433.7	12/14/2009		
DP-317271	MO50271US	US	DUAL ON-CENTER COLUMN LOCK MECHANISM	12/123097	5/19/2008	7685903	3/30/2010
DP-317316	MO50169EP	EP	Pivoting locking device for an adjustable steering column	09154465.0	3/5/2009		
DP-317316	MO50169US2	US	Pivoting locking device for an adjustable steering column	12/367819	2/9/2009		
DP-317346	MO50070US	US	TELESCOPICALLY ADJUSTABLE STEERING COLUMN ASSEMBLY INCLUDING AN ADJUSTMENT STOP HAVING MINIMAL EFFECT ON IMPACT LOADS	12/204906	9/5/2008	7703804	4/27/2010
DP-317354	MO50656DE	DE	Methods and Systems Involving Return Torque	112009000231.5	1/23/2009		
DP-317354	MO50656US2	US	Methods and Systems Involving Return Torque	12/811276	1/23/2009		

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DP-317357	MO50120CZ	CZ	TORQUE OVERLAY, ADAPTING RETURN TORQUE RELATIVE TO HAND WHEEL SPEED	08001421.0	1/25/2008	2082945	3/23/2011
DP-317357	MO50120DE	DE	TORQUE OVERLAY, ADAPTING RETURN TORQUE RELATIVE TO HAND WHEEL SPEED	08001421.0	1/25/2008	5020080029 37.0	3/23/2011
DP-317357	MO50120FR	FR	TORQUE OVERLAY, ADAPTING RETURN TORQUE RELATIVE TO HAND WHEEL SPEED	08001421.0	1/25/2008	2082945	3/23/2011
DP-317357	MO50120IT	IT	TORQUE OVERLAY, ADAPTING RETURN TORQUE RELATIVE TO HAND WHEEL SPEED	08001421.0	1/25/2008	2082945	3/23/2011
DP-317357	MO50120PL	PL	TORQUE OVERLAY, ADAPTING RETURN TORQUE RELATIVE TO HAND WHEEL SPEED	08001421.0	1/25/2008	2082945	3/23/2011
			STEERING SYSTEM AND METHOD FOR ADAPTING RETURN TORQUE RELATIVE TO HAND WHEEL SPEED				
DP-317357	MO50120US	US		12/354874	1/16/2009	7950495	5/31/2011
DP-317357	MO50120EP	EP	TORQUE OVERLAY, ADAPTING RETURN TORQUE RELATIVE TO HAND WHEEL SPEED	08001421.0	1/25/2008	2082945	3/23/2011
DP-317358	MO50121US	US	cellerTORQUE OVERLAY, QUADRANT DEPENDENT ADAPTING OF RETURN TORQUE	12/354826	1/16/2009		
DP-317358	MO50121CZ	CZ	TORQUE OVERLAY, QUADRANT DEPENDENT ADAPTING OF RETURN TORQUE	08001420.2	1/25/2008	2082944	5/4/2011
DP-317358	MO50121DE	DE	TORQUE OVERLAY, QUADRANT DEPENDENT ADAPTING OF RETURN TORQUE	08001420.2	1/25/2008	5020080034 13.7.	5/4/2011
DP-317358	MO50121FR	FR	TORQUE OVERLAY, QUADRANT DEPENDENT ADAPTING OF RETURN TORQUE	08001420.2	1/25/2008	2082944	5/4/2011
DP-317358	MO50121IT	IT	TORQUE OVERLAY, QUADRANT DEPENDENT ADAPTING OF RETURN TORQUE	08001420.2	1/25/2008	2082944	5/4/2011
DP-317358	MO50121PL	PL	TORQUE OVERLAY, QUADRANT DEPENDENT ADAPTING OF RETURN TORQUE	08001420.2	1/25/2008	2082944	5/4/2011
DP-317358	MO50121EP	EP	TORQUE OVERLAY, QUADRANT DEPENDENT ADAPTING OF RETURN TORQUE	08001420.2	1/25/2008	2082944	5/4/2011
DP-317362	MO50071US	US	OVER-CENTER LOCKING MECHANISM FOR STEERING COLUMN ASSEMBLY	12/131540	6/2/2008	7819426	10/26/2010
DP-317364	MO50170DE	DE	Locking device for an adjustable steering column having impact teeth	09154344.7	3/4/2009	6020090032 44.5	10/26/2011
DP-317364	MO50170EP	EP	Locking device for an adjustable steering column having impact teeth	09154344.7	3/4/2009	2100795	10/26/2011
DP-317364	MO50170US2	US	Locking device for an adjustable steering column having impact teeth	12/367915	2/9/2009		
DP-317370	MO50072US2	US	STEERING COLUMN ASSEMBLY HAVING ROLLERS TO REDUCE FRICTION DURING COLUMN COLLAPSE	12/337914	12/18/2008	7988195	8/2/2011
DP-317395	MO50073US	US	ELECTRIC POWER STEERING ROTATION ISOLATOR	12/106801	4/21/2008	7866435	1/11/2011
DP-317442	MO50167US	US	HYDRAULIC POWER STEERING SYSTEM	12/470300	5/21/2009	7942231	5/17/2011

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DP-317442	MO50167CN	CN	HYDRAULIC POWER STEERING SYSTEM	200910141707.3	5/21/2009		
DP-317442	MO50167EP	EP	HYDRAULIC POWER STEERING SYSTEM	08009402.2	5/21/2008		
DP-317443	MO50074US2	US	WEDGE ARM POSITIVE RAKE LOCK	12/133937	6/5/2008	7798037	9/21/2010
DP-317443	MO50074CN	CN	WEDGE ARM POSITIVE RAKE LOCK	200910003823.9	2/6/2009		
DP-317449	MO50609US	US	MAGNETIC APPARATUS AND METHOD OF MANUFACTURING THE MAGNETIC APPARATUS IGNITION SYSTEM FOR A VEHICLE AUTOMOTIVE TRANSMISSION SHIFT SYSTEM LINEAR MEASUREMENT DEVICE	12/251143	10/14/2008	8013696	9/6/2011
DP-317502	MO50605US	US	AUTOMOTIVE TRANSMISSION SHIFT SYSTEM LINEAR MEASUREMENT DEVICE	12/233723	9/19/2008		
DP-317503	MO50565US	US	METHOD OF ASSEMBLING A BEARING ASSEMBLY POWER STEERING GEAR HOUSING WITH BALANCED FLOW PRESSURE PORT	12/175722	7/18/2008	8087312	1/3/2012
DP-317518	MO50606US	US	POWER STEERING GEAR HOUSING WITH BALANCED FLOW PRESSURE PORT	12/336309	12/16/2008	6020090019	
DP-317566	MO50123DE	DE	POWER STEERING GEAR HOUSING WITH BALANCED FLOW PRESSURE PORT	09154098.9	3/2/2009	36.8	8/3/2011
DP-317566	MO50123FR	FR	POWER STEERING GEAR HOUSING WITH BALANCED FLOW PRESSURE PORT	09154098.9	3/2/2009	2098436	8/3/2011
DP-317566	MO50123GB	GB	POWER STEERING GEAR HOUSING WITH BALANCED FLOW PRESSURE PORT	09154098.9	3/2/2009	2098436	8/3/2011
DP-317566	MO50123US	US	POWER STEERING GEAR HOUSING WITH BALANCED FLOW PRESSURE PORT	12/371707	2/16/2009		
DP-317566	MO50123EP	EP	POWER STEERING GEAR HOUSING WITH BALANCED FLOW PRESSURE PORT	09154098.9	3/2/2009	2098436	8/3/2011
DP-317627	MO50075US	US	STEERING COLUMN ASSEMBLY WITH SHEARABLE JACKET CONNECTOR	12/201439	8/29/2008		
DP-317672	MO50161EP	EP	Power steering pump having pressure balancing fluid communication channel	09157193.5	4/2/2009		
DP-317672	MO50161CN	CN	Power steering pump having pressure balancing fluid communication channel	200910134332.8	4/10/2009		
DP-317672	MO50161EP2	EP	Power steering pump having pressure balancing fluid communication channel	09157194.3	4/2/2009		
DP-317672	MO50161US2	US	Power steering pump having pressure balancing fluid communication channel	12/412451	3/27/2009		
DP-317724	MO50320EP	EP	SYSTEMS INVOLVING COMPACT TORQUE SENSING	10000422.5	1/18/2010		
DP-317724	MO50320US	US	SYSTEMS INVOLVING COMPACT TORQUE SENSING	12/355332	1/16/2009		
DP-317806	MO50166US2	US	Boot for a Constant Velocity Joint	12/426642	4/20/2009		
DP-317806	MO50166DE	DE	INSERT FOR A UNIVERSAL JOINT	09160410.8	5/15/2009	39.1	4/27/2011

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DP-317806	MO50166FR	FR	INSERT FOR A UNIVERSAL JOINT	09160410.8	5/15/2009	2123926	4/27/2011
DP-317806	MO50166GB	GB	INSERT FOR A UNIVERSAL JOINT	09160410.8	5/15/2009	2123926	4/27/2011
DP-317806	MO50166BR	BR	INSERT FOR A UNIVERSAL JOINT	PI0901628-7	5/22/2009		
DP-317806	MO50166CN	CN	INSERT FOR A UNIVERSAL JOINT	200910142787.4	5/22/2009		
DP-317806	MO50166EP	EP	INSERT FOR A UNIVERSAL JOINT	09160410.8	5/15/2009	2123926	4/27/2011
DP-317819	MO50194EP	EP	ELECTRIC POWER STEERING SYSTEM, CONTROLLER, AND METHOD OF OPERATION	09160172.4	5/13/2009		
DP-317819	MO50194US2	US	ELECTRIC POWER STEERING SYSTEM, CONTROLLER, AND METHOD OF OPERATION	12/434891	5/15/2009	8051945	11/8/2011
DP-317989	MO50108EP	EP	STEERING COLUMN ASSEMBLY COMPRISING A MOUNTING CAPSULE	10000041.3	1/5/2010		
DP-317989	MO50108US2	US	STEERING COLUMN ASSEMBLY COMPRISING A MOUNTING CAPSULE	12/650661	12/31/2009		
DP-318005	MO50608US	US	ROLLING ELEMENT SHAFT ASSEMBLY	12/335850	12/16/2008	8021235	9/20/2011
DP-318007	MO50282EP	EP	ROTARY-TO-LINEAR MECHANISM HAVING AN ISOLATOR	09815256.4	9/18/2009		
DP-318007	MO50282CN	CN	ROTARY-TO-LINEAR MECHANISM HAVING AN ISOLATOR	200980146180.1	9/18/2009		
DP-318007	MO50282US2	US	ROTARY-TO-LINEAR MECHANISM HAVING AN ISOLATOR	13/063818	9/18/2009		
DP-318125	MO50318EP	EP	ELECTRIC POWER STEERING SYSTEM HAVING FAIL- SAFE CONTROLLER OPERATION	09168361.5	8/21/2009		
DP-318125	MO50318US	US	ELECTRIC POWER STEERING SYSTEM HAVING FAIL- SAFE CONTROL MODULE OPERATION	12/543113	8/18/2009		
DP-318141	MO50195EP	EP	ELECTRIC POWER STEERING SYSTEM CONTROL METHODS	09168904.2	8/28/2009		
DP-318141	MO50195US2	US	ELECTRIC POWER STEERING SYSTEM CONTROL METHODS	12/539133	8/11/2009		
DP-318152	MO50610DE	DE	METHOD OF REDUCING STEERING INSTABILITY IN HYDRAULIC POWER STEERING CONTROL SYSTEMS	09168507.3	8/24/2009	6020090019 62.7.	8/3/2011
DP-318152	MO50610FR	FR	METHOD OF REDUCING STEERING INSTABILITY IN HYDRAULIC POWER STEERING CONTROL SYSTEMS	09168507.3	8/24/2009	2161180	8/3/2011
DP-318152	MO50610GB	GB	METHOD OF REDUCING STEERING INSTABILITY IN HYDRAULIC POWER STEERING CONTROL SYSTEMS	09168507.3	8/24/2009	2161180	8/3/2011
DP-318152	MO50610IT	IT	METHOD OF REDUCING STEERING INSTABILITY IN HYDRAULIC POWER STEERING CONTROL SYSTEMS	09168507.3	8/24/2009	2161180	8/3/2011
DP-318152	MO50610US2	US	METHOD OF REDUCING STEERING INSTABILITY IN HYDRAULIC POWER STEERING SYSTEMS	12/542067	8/17/2009		

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DP-318152	MO50610EP	EP	METHOD OF REDUCING STEERING INSTABILITY IN HYDRAULIC POWER STEERING CONTROL SYSTEMS	09168507.3	8/24/2009	2161180	8/3/2011
DP-318173	MO50268EP	EP	METHOD FOR POWER STEERING SYSTEM	09013236.6	10/20/2009		
DP-318173	MO50268US2	US	METHOD FOR POWER STEERING SYSTEMS	12/581936	10/20/2009		
DP-318322	MO50383CN	CN	Stability-Based Steering Control Methods and Systems	201010540238.5	8/26/2010		
DP-318322	MO50383EP	EP	Stability-Based Steering Control Methods and Systems	10008805.3	8/24/2010		
DP-318322	MO50383US	US	Stability-Based Steering Control Methods and Systems	12/547940	8/26/2009		
DP-318344	MO50607US	US	ROLLER BEARING ASSEMBLY METHODS AND SYSTEMS FOR END OF TRAVEL HARSHNESS REDUCTION	12/336135	12/16/2008		
DP-318348	MO50321US	US	Methods and Systems for End of Travel Harshness Reduction	12/499527	7/8/2009	7920946	4/5/2011
DP-318348	MO50321CN	CN	Methods and Systems for End of Travel Harshness Reduction	201010253871.6	7/8/2010		
DP-318348	MO50321DE	DE	Methods and Systems for End of Travel Harshness Reduction	102010026208.0	7/6/2010		
DP-318486	MO50216US2	US	BRUSH TYPE MOTOR	12/642061	12/18/2009		
DP-318585	MO50384US	US	Method for Reducing Current and Torque Ripple in a Brushed Electric Motor and Motor Employing the Same	12/550033	8/28/2009		
DP-318585	MO50384CN	CN	Method for Reducing Current and Torque Ripple in a Brushed Electric Motor and Motor Employing the Same	201010267599.7	8/27/2010		
DP-318639	MO50115BR	BR	FOUR BALL LOW COST CV JOINT	PI1004395-0	3/18/2010		
DP-318639	MO50115IN	IN	FOUR BALL LOW COST CV JOINT	274/KOL/2010	3/18/2010		
DP-318639	MO50115CN	CN	FOUR BALL LOW COST CV JOINT	201010171381.1	3/18/2010		
DP-318639	MO50115DE	DE	FOUR BALL LOW COST CV JOINT	102010011866.4	3/18/2010		
DP-318639	MO50115US2	US	Constant Velocity Joint	12/726472	3/18/2010		
DP-318640	MO50116BR	BR	Stamped Retaining Ring for Constant Velocity Joint	PI1003220-7	3/18/2010		
DP-318640	MO50116IN	IN	Stamped Retaining Ring for Constant Velocity Joint	273/KOL/2010	3/18/2010		
DP-318640	MO50116CN	CN	Stamped Retaining Ring for Constant Velocity Joint	201010176843.9	3/24/2010		
DP-318640	MO50116DE	DE	Stamped Retaining Ring for Constant Velocity Joint	102010011865.6	3/18/2010		
DP-318640	MO50116US2	US	Retaining Ring for a Constant Velocity Joint and Method of Assembly using the same	12/726454	3/18/2010		
DP-318641	MO50111BR	BR	CV JOINT WITH INJECTION MOLDED BOOT/AXLE INTERFACE	PI1000657-5	3/2/2010		

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DP-318641	MO50111IN	IN	CV JOINT WITH INJECTION MOLDED BOOT/AXLE INTERFACE	200/KOL/2010	3/2/2010		
DP-318641	MO50111CN	CN	CV JOINT WITH INJECTION MOLDED BOOT/AXLE INTERFACE	201010148497.3	3/2/2010		
DP-318641	MO50111DE	DE	CV JOINT WITH INJECTION MOLDED BOOT/AXLE INTERFACE	102010009685.7	3/1/2010		
DP-318641	MO50111US2	US	Constant Velocity Joint	12/715883	3/2/2010		
DP-318643	MO50114BR	BR	METHOD OF FORMING A POCKET IN A BALL AND POCKET STYLE CONSTANT VELOCITY JOINT	PI1001172-2	3/12/2010		
DP-318643	MO50114IN	IN	METHOD OF FORMING A POCKET IN A BALL AND POCKET STYLE CONSTANT VELOCITY JOINT	250/KOL/2010	3/12/2010		
DP-318643	MO50114CN	CN	METHOD OF FORMING A POCKET IN A BALL AND POCKET STYLE CONSTANT VELOCITY JOINT	201010175032.7	3/15/2010		
DP-318643	MO50114DE	DE	METHOD OF FORMING A POCKET IN A BALL AND POCKET STYLE CONSTANT VELOCITY JOINT	102010011175.9	3/12/2010		
DP-318643	MO50114US2	US	CONSTANT VELOCITY JOINT AND METHOD OF MAKING	12/723150	3/12/2010		
DP-318644	MO50113BR	BR	Constant Velocity Joint	PI1003221-5	3/2/2010		
DP-318644	MO50113IN	IN	Constant Velocity Joint	203/KOL/2010	3/2/2010		
DP-318644	MO50113CN	CN	Constant Velocity Joint	201010155430.2	3/2/2010		
DP-318644	MO50113DE	DE	Constant Velocity Joint	102010009845.0	3/2/2010		
DP-318644	MO50113US2	US	Constant Velocity Joint	12/715863	3/2/2010		
DP-318646	MO50117BR	BR	CONSTANT VELOCITY JOINT	PI1000951-5	3/26/2010		
DP-318646	MO50117IN	IN	CONSTANT VELOCITY JOINT	332/KOL/2010	3/26/2010		
DP-318646	MO50117CN	CN	CONSTANT VELOCITY JOINT	201010181028.1	3/29/2010		
DP-318646	MO50117DE	DE	CONSTANT VELOCITY JOINT	102010013006.0	3/26/2010		
DP-318646	MO50117US2	US	CONSTANT VELOCITY JOINT	12/732243	3/26/2010		
DP-318666	MO50110IN	IN	TRIGLIDE OVER-ANGULATION PROTECTION	156/KOL/2010	2/19/2010		
DP-318666	MO50110CN	CN	TRIGLIDE OVER-ANGULATION PROTECTION	201010151416.5	2/20/2010		
DP-318666	MO50110DE	DE	TRIGLIDE OVER-ANGULATION PROTECTION	102010008592.8	2/19/2010		
DP-318666	MO50110US2	US	Constant Velocity Joint Having Over-Articulation Protection	12/708636	2/19/2010		
DP-318669	MO50109BR	BR	UNIVERSAL JOINT	PI1000972-8	2/18/2010		
DP-318669	MO50109IN	IN	UNIVERSAL JOINT	153/KOL/2010	2/18/2010		

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DP-318669	MO50109CN	CN	UNIVERSAL JOINT	201010141700.4	2/18/2010		
DP-318669	MO50109DE	DE	UNIVERSAL JOINT	102010008272.4	2/17/2010		
DP-318669	MO50109US2	US	UNIVERSAL JOINT	12/708116	2/18/2010		
DP-318696	MO50658EP	EP	WORM GEAR HUB	10006375.9	6/18/2010		
DP-318696	MO50658US2	US	WORM GEAR HUB	12/818675	6/18/2010		
DP-318709	MO50217CN	CN	Friction Estimation/detection for an electric power steering system	201010181072.2	4/7/2010		
DP-318709	MO50217CZ	CZ	Friction Estimation/detection for an electric power steering system	10003735.7	4/7/2010	2239180	11/23/2011
DP-318709	MO50217DE	DE	Friction Estimation/detection for an electric power steering system	10003735.7	4/7/2010	2239180	11/23/2011
DP-318709	MO50217FR	FR	Friction Estimation/detection for an electric power steering system	10003735.7	4/7/2010	2239180	11/23/2011
DP-318709	MO50217PL	PL	Friction Estimation/detection for an electric power steering system	10003735.7	4/7/2010	2239180	11/23/2011
DP-318709	MO50217US2	US	FRICTION ESTIMATION AND DETECTION FOR AN ELECTRIC POWER STEERING SYSTEM	12/755526	4/7/2010		
DP-318709	MO50217EP	EP	Friction Estimation/detection for an electric power steering system	10003735.7	4/7/2010	2239180	11/23/2011
DP-318771	NXT0013US	US	SYSTEM AND METHOD FOR PROVIDING STEERING TORQUE ASSISTANCE TO AN ELECTRICALLY-POWERED STEERING APPARATUS OF A VEHICLE	13/307402	11/30/2011		
DP-318834	MO50118CN	CN	COLLAPSIBLE STEERING COLUMN ASSEMBLY	201010250884.8	5/28/2010		
DP-318834	MO50118DE	DE	COLLAPSIBLE STEERING COLUMN ASSEMBLY	102010021957.6	5/28/2010		
DP-318834	MO50118US2	US	COLLAPSIBLE STEERING COLUMN ASSEMBLY	12/790775	5/28/2010		
DP-318835	MO50119CN	CN	ENERGY ABSORBING DEVICE FOR A COLLAPSIBLE STEERING COLUMN ASSEMBLY	201010250897.5	5/28/2010		
DP-318835	MO50119DE	DE	ENERGY ABSORBING DEVICE FOR A COLLAPSIBLE STEERING COLUMN ASSEMBLY	102010021956.8	5/28/2010		
DP-318835	MO50119US2	US	ENERGY ABSORBING DEVICE FOR A COLLAPSIBLE STEERING COLUMN ASSEMBLY	12/790782	5/28/2010		
DP-318857	MO50660CN	CN	DYNAMIC SYSTEM COMPENSATOR FOR ACTIVELY CONTROLLED POWER STEERING SYSTEMS	201110222971.7	7/1/2011		
DP-318857	MO50660EP	EP	DYNAMIC SYSTEM COMPENSATOR FOR ACTIVELY CONTROLLED POWER STEERING SYSTEMS	11005323.8	6/29/2011		
DP-318857	MO50660US2	US	DYNAMIC SYSTEM COMPENSATOR FOR ACTIVELY CONTROLLED POWER STEERING SYSTEMS	13/173043	6/30/2011		

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DP-318904	MO50321USC	US	Methods and Systems for End of Travel Harshness Reduction	12/713466	2/26/2010	7933700	4/26/2011
DP-318905	NXT0005US	US	ELECTRIC POWER STEERING SIMULATED TRAVEL STOPS	61/443438	2/16/2011		
DP-318905	NXT0005US2	US	ELECTRIC POWER STEERING SIMULATED TRAVEL STOPS	13/298975	11/17/2011		
G-7915	MO50629US	US	CONTACT RING ASSEMBLY AND METHOD	07/807324	12/16/1991	5173065	12/22/1992
G-8464	MO50642US	US	PROTECTIVE COVER FOR UNIVERSAL JOINT SEAL BOOT	07/939750	9/2/1992	5312300	5/17/1994
G-8648	MO50646US	US	FOUR-WHEEL STEERING LOCKING MECHANISM FOR A MOTOR VEHICLE	07/819707	1/13/1992	5261500	11/16/1993
G-8861	MO50631US	US	IGNITION LOCK WITH DUAL UNLOCKING MODES	07/932121	8/19/1992	5255547	10/26/1993
H-167911	MO50632US	US	ANTI-THEFT APPARATUS FOR MOTOR VEHICLE STEERING COLUMN	08/280236	7/25/1994	5454238	10/3/1995
H-170392	MO50633US	US	STEERING COLUMN FOR MOTOR VEHICLE	08/217817	3/25/1994	5495777	3/5/1996
H-172087	MO50640US	US	MOTOR VEHICLE POWER STEERING SYSTEM	08/283373	8/1/1994	5445239	8/29/1995
H-172099	MO50652EP	EP	enhanced resolution pulse width modulation control	96202855.1	10/14/1996	0772285	1/23/2002
H-172099	MO50652US	US	enhanced resolution pulse width modulation control	08/554173	11/6/1995	5589805	12/31/1996
H-174552	MO50647US	US	THREE SENSOR ROTATIONAL POSITION AND DISPLACEMENT DETECTION APPARATUS WITH COMMON MODE NOISE REJECTION	08/355748	12/14/1994	5568048	10/22/1996
H-176299	MO50561ES	ES	A method of securing a boot of a universal joint	94202698.0	9/20/1994	2125399	12/16/1998
H-176299	MO50561FR	FR	A method of securing a boot of a universal joint	94202698.0	9/20/1994	0648949	12/16/1998
H-176299	MO50561DE	DE	A method of securing a boot of a universal joint	94202698.0		0648949	12/16/1998
H-176299	MO50561EP	EP	A method of securing a boot of a universal joint	94202698.0	9/20/1994	0648949	12/16/1998
H-180008	MO50634US	US	POSITION CONTROL APPARATUS FOR STEERING COLUMN	08/332302	10/31/1994	5555772	9/17/1996
H-181040	MO50477US	US	BRUSHLESS DC MOTOR HAVING REDUCED TORQUE RIPPLE FOR ELECTRIC POWER STEERING	08/650519	5/20/1996	5982067	11/9/1999
H-186135	MO50295DE	DE	ELECTRIC POWER STEERING CONTROL	96203242.1	11/19/1996	69620415	4/3/2002
H-186135	MO50295FR	FR	ELECTRIC POWER STEERING CONTROL	96203242.1	11/19/1996	0842840	4/3/2002
H-186135	MO50295US	US	ELECTRIC POWER STEERING CONTROL	08/537605	10/2/1995	5668722	9/16/1997
H-186135	MO50295EP	EP	ELECTRIC POWER STEERING CONTROL	96203242.1	11/19/1996		4/3/2002
H-187398	MO50555GB	GB	Adjustable steering column assembly	930011617	6/4/1993		
H-187399	MO50556GB	GB	Collapsible steering column assembly	930011564	6/4/1993		
H-187756	MO50641US	US	POWER STEERING GEAR FOR MOTOR VEHICLE	08/356018	12/14/1994	5492191	2/20/1996
H-189581	MO50451US	US	VEHICLE PASSIVE KEYLESS ENTRY AND PASSIVE KEYLESS ENGINE STARTING SYSTEM	08/755327	11/20/1996	5751073	5/12/1998

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H-192096	MO50141DE	DE	MOTOR VEHICLE STEERING COLUMN	96201042.7	4/18/1996	69603540	8/4/1999
H-192096	MO50141US	US	MOTOR VEHICLE STEERING COLUMN	08/442615	5/17/1995	5537890	7/23/1996
H-192096	MO50141EP	EP	MOTOR VEHICLE STEERING COLUMN	96201042.7	4/18/1996	0743235	8/4/1999
H-194054	MO50635US	US	TRANSMISSION SHIFT LEVER AND BRAKE INTERLOCK CONTROL ASSEMBLY	08/615934	3/14/1996	5647465	7/15/1997
H-194198	MO50478US	US	ELECTRIC POWER STEERING CONTROL	08/538093	10/2/1995	5719766	2/17/1998
H-194201	MO50250DE	DE	electric power steering control	96203243.9	11/19/1996	0842841	5/29/2002
H-194201	MO50250EP	EP	electric power steering control	96203243.9	11/19/1996	0842841	5/29/2002
H-194201	MO50250FR	FR	electric power steering control	96203243.9	11/19/1996	0842841	5/29/2002
H-194201	MO50250US	US	electric power steering control	08/538155	10/2/1995	5704446	1/6/1998
H-194269	MO50479US	US	ELECTRIC POWER STEERING MOTOR CONTROL	08/537604	10/2/1995	5668721	9/16/1997
H-194270	MO50482US	US	VEHICLE POWER STEERING SYSTEM	08/656958	6/6/1996	5749431	5/12/1998
H-194326	MO50644US	US	INTERMEDIATE STEERING SHAFT	08/506311	7/24/1995	5560650	10/1/1996
H-195319	MO50508US	US	A METHOD OF MOLDING A PLASTIC VESSEL HAVING A FLASH TRAP	08/552589	11/3/1995	5670108	9/23/1997
H-195582	MO50176DE	DE	VALVE FOR POWER STEERING GEAR	97200776.9	3/14/1997	0800981	7/4/2001
H-195582	MO50176EP	EP	VALVE FOR POWER STEERING GEAR	97200776.9	3/14/1997	0800981	7/4/2001
H-195582	MO50176FR	FR	VALVE FOR POWER STEERING GEAR	97200776.9	3/14/1997	0800981	7/4/2001
H-195582	MO50176GB	GB	VALVE FOR POWER STEERING GEAR	97200776.9	3/14/1997	0800981	7/4/2001
H-195582	MO50176US	US	VALVE FOR POWER STEERING GEAR	08/633874	4/8/1996	5690143	11/25/1997
H-195590	MO50177DE	DE	POWER STEERING APPARATUS FOR MOTOR VEHICLE AND METHOD FOR MAKING THE SAME	97201878.2	6/19/2007	69730914	9/29/2004
H-195590	MO50177FR	FR	POWER STEERING APPARATUS FOR MOTOR VEHICLE AND METHOD FOR MAKING THE SAME	97201878.2	6/19/1997	0819597	9/29/2004
H-195590	MO50177US	US	POWER STEERING APPARATUS FOR MOTOR VEHICLE AND METHOD FOR MAKING THE SAME	08/687077	7/17/1996	5738182	4/14/1998
H-195590	MO50177EP	EP	POWER STEERING APPARATUS FOR MOTOR VEHICLE AND METHOD FOR MAKING THE SAME	97201878.2	6/19/1997	0819597	9/29/2004
H-195591	MO50088US2	US	CONSTANT VELOCITY JOINT ASSEMBLY	10/649022	8/27/2003	6840864	1/11/2005
H-195591	MO50088EP	EP	CONSTANT VELOCITY JOINT ASSEMBLY	03751904.8	8/27/2003		
H-195647	MO50550DE	DE	Fluid reservoir protection sleeve	97200291.9	2/3/1997	69701823	5/3/2000
H-195647	MO50550FR	FR	Fluid reservoir protection sleeve	97200291.9	2/3/1997	0792772	5/3/2000
H-195647	MO50550IT	IT	Fluid reservoir protection sleeve	97200291.9	2/3/1997	0792772	5/3/2000
H-195647	MO50550GB	GB	Fluid reservoir protection sleeve	960004497	3/1/1996		
H-195647	MO50550EP	EP	Fluid reservoir protection sleeve	97200291.9	2/3/1997	0792772	5/3/2000
H-195801	MO50558DE	DE	ENERGY ABSORBING STEERING COLUMN FOR MOTOR VEHICLE	971010725	3/14/1997		

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H-195804	MO50172DE	DE	APPARATUS AND METHOD FOR PRODUCING A DESIRED RETURN TORQUE IN A VEHICLE POWER STEERING SYSTEM HAVING A ROTATIONAL STEERING POSITION SENSOR	990201910.9	6/15/1999	69913609	12/17/2003
H-195804	MO50172FR	FR	APPARATUS AND METHOD FOR PRODUCING A DESIRED RETURN TORQUE IN A VEHICLE POWER STEERING SYSTEM HAVING A ROTATIONAL STEERING POSITION SENSOR	990201910.9	6/15/1999	0967134	12/17/2003
H-195804	MO50172US	US	APPARATUS AND METHOD FOR PRODUCING A DESIRED RETURN TORQUE IN A VEHICLE POWER STEERING SYSTEM HAVING A ROTATIONAL STEERING POSITION SENSOR	09/103602	6/24/1998	6039144	3/21/2000
H-195804	MO50172EP	EP	APPARATUS AND METHOD FOR PRODUCING A DESIRED RETURN TORQUE IN A VEHICLE POWER STEERING SYSTEM HAVING A ROTATIONAL STEERING POSITION SENSOR	990201910.9	6/15/1999	0967134	12/17/2003
H-196137	MO50559DE	DE	Shock absorber for steering column of motor vehicle	971025163	6/13/1997		
H-196249	MO50551DE	DE	Fluid flow control device	97200075.6	1/1/1997	0789174	10/30/2002
H-196249	MO50551FR	FR	Fluid flow control device	97200075.6	1/10/1997	0789174	10/30/2002
H-196249	MO50551IT	IT	Fluid flow control device	97200075.6	1/10/1997	0789174	10/30/2002
H-196249	MO50551GB	GB	Fluid flow control device	960002361	2/6/1996		
H-196249	MO50551EP	EP	Fluid flow control device	97200075.6	1/10/1997	0789174	10/30/2002
H-196462	MO50453EP	EP	Clamping device for a steering column	97200186.1	1/23/1997	0792785	7/26/2000
H-196462	MO50453US	US	CLAMPING DEVICE FOR A STEERING COLUMN	08/667559	6/21/1996	5761966	6/9/1998
H-196506	MO50464US	US	MOTOR VEHICLE STEERING COLUMN	08/704459	8/16/1996	5722300	3/3/1998
H-196508	MO50465US	US	ENERGY ABSORBER FOR MOTOR VEHICLE STEERING COLUMN	08/645320	5/13/1996	5669634	9/23/1997
H-196508	MO50465DE	DE	ENERGY ABSORBER FOR MOTOR VEHICLE STEERING COLUMN	971019968	5/13/1997		
H-196516	MO50130US	US	RETAINER ASSEMBLY	09/688507	10/16/2000	6390925	5/21/2002
H-196516	MO50130EP	EP	RETAINER ASSEMBLY	01203535.8	9/18/2001		
H-196516	MO50130JP	JP	RETAINER ASSEMBLY	20010318575	10/16/2001		
H-196519	MO50189US	US	VANE PUMP	09/080496	5/18/1998	6050796	4/18/2000
H-196519	MO50189EP	EP	VANE PUMP	99201451.4	5/7/1999	0959249	8/3/2005
H-196682	MO50622US	US	ADAPTIVE VARIABLE EFFORT POWER STEERING SYSTEM	09/191600	11/13/1998	6062336	5/16/2000
H-196829	MO50466US	US	RETAINER BETWEEN A SHAFT AND BEARING	08/715151	9/17/1996	5681118	10/28/1997
H-197241	MO50190DE	DE	STEERING ANGLE DETERMINATION METHOD AND APPARATUS	98202202.2	6/30/1998	69821686	2/18/2004

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H-197241	MO50190FR	FR	STEERING ANGLE DETERMINATION METHOD AND APPARATUS	98202202.2	6/30/1998	0893329	2/18/2004
H-197241	MO50190EP	EP	STEERING ANGLE DETERMINATION METHOD AND APPARATUS	98202202.2	6/30/1998	0893329	2/18/2004
H-197509	MO50509US	US	METHOD OF MAKING A PLASTIC ARTICLE	08/863589	5/27/1997	5788917	8/4/1998
H-197702	MO50467US	US	POSITION CONTROL APPARATUS FOR STEERING COLUMN	08/799678	2/11/1997	5787759	8/4/1998
H-197705	MO50480US	US	VEHICLE HAVING ELECTRIC POWER STEERING WITH ACTIVE DAMPING	08/766270	12/13/1996	5919241	7/6/1999
H-198393	MO50251IT	IT	STEERABLE DRIVE AXLE WITH ELECTRICALLY-POWERED STEERING APPARATUS	99953129.6	10/12/1999	1224090	6/16/2004
H-198393	MO50251US	US	steerable drive axle with electrically-powered steering apparatus	08/867643	6/2/1997	6039143	3/21/2000
H-198393	MO50251EP	EP	STEERABLE DRIVE AXLE WITH ELECTRICALLY-POWERED STEERING APPARATUS	99953129.6	10/12/1999	1224090	6/16/2004
H-198393-CNT	MO50251USC2	US	steerable drive axle with electrically-powered steering apparatus	09/954469	9/17/2001	6637540	10/28/2003
H-199161	MO50469US	US	CLAMP FOR MOTOR VEHICLE STEERING COLUMN	08/897408	7/21/1997	5941129	8/24/1999
H-199246	MO50514US	US	HYDRAULIC SYSTEM FOR MOTOR VEHICLE	08/919517	8/28/1997	5802848	9/8/1998
H-199550	MO50470US	US	ENERGY-ABSORBING STEERING COLUMN FOR MOTOR VEHICLE	08/808204	2/28/1997	5788278	8/4/1998
H-199664	MO50483US	US	POWER STEERING APPARATUS FOR MOTOR VEHICLE WITH TWO PIECE INNER POLE MEMBER AND METHOD FOR MAKING THE SAME	08/936367	9/24/1997	5931195	8/3/1999
H-199667	MO50350US2	US	novel commutation system for torque ripple minimization	09/657887	9/8/2000	6437526	8/20/2002
H-199919	MO50471US	US	LINEAR ACTUATOR FOR MOTOR VEHICLE STEERING COLUMN	08/910168	8/13/1997	5911789	6/15/1999
H-200000	MO50313EPD	EP	H-200000 Torque Pepple Free Electric Power Steering Drive	06115001.7	9/6/2000		
H-200000	MO50313US	US	torque-ripple-free electric power steering	09/656116	9/6/2000	6498451	12/24/2002
H-200619	MO50472US	US	ADJUSTABLE STEERING COLUMN FOR MOTOR VEHICLE	09/045575	3/20/1998	6035739	3/14/2000
H-200630	MO50173FR	FR	BRUSHLESS DC MOTOR CONTROL METHOD AND APPARATUS FOR REDUCED COMMUTATION NOISE	990201916.6	6/15/1999	0966093	9/29/2004
H-200630	MO50173US	US	BRUSHLESS DC MOTOR CONTROL METHOD AND APPARATUS FOR REDUCED COMMUTATION NOISE	09/099007	6/17/1998	6002226	12/14/1999
H-200630	MO50173EP	EP	BRUSHLESS DC MOTOR CONTROL METHOD AND APPARATUS FOR REDUCED COMMUTATION NOISE	99201916.6	6/15/1999	0966093	9/29/2004
H-201040	MO50454US	US	INDUCTIVELY COUPLED ENERGY AND COMMUNICATION APPARATUS	08/920576	8/29/1997	5856710	1/5/1999

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H-201046	MO50611US	US	HYDRAULIC SYSTEM FOR MOTOR VEHICLE	08/990980	12/15/1997	5943861	8/31/1999
H-201048	MO50171DE	DE	STEERING COLUMN FOR MOTOR VEHICLE	990201383.9	5/4/1999	69927087	9/7/2005
H-201048	MO50171US	US	STEERING COLUMN FOR MOTOR VEHICLE	09/072236	5/4/1998	6019391	2/1/2000
H-201048	MO50171EP	EP	STEERING COLUMN FOR MOTOR VEHICLE	990201383.9	5/4/1999	0963899	9/7/2005
H-201121	MO50484US	US	MOUNT FOR RACK AND PINION STEERING GEAR	09/102504	6/22/1998	6102416	8/15/2000
H-201286	MO50612US	US	ROTARY HYDRAULIC VANE PUMP WITH IMPROVED UNDervANE PORTING	09/728348	12/1/2000	6422845	7/23/2002
H-201288	MO50662US	US	Method and Apparatus for Correcting for Attenuation in an Optical Torque Sensor	10/008304	11/6/2001	6915710	7/12/2005
H-201291	MO50504US	US	METHOD OF MAKING A TORSIONAL DAMPER	09/072233	5/4/1998	5956836	9/28/1999
H-201292	MO50473US	US	ADJUSTABLE STEERING COLUMN FOR MOTOR VEHICLE	09/056221	4/7/1998	5941130	8/24/1999
H-201490	MO50496US	US	TRIPOD UNIVERSAL JOINT AND METHOD OF ITS MANUFACTURE	09/306364	5/6/1999	6190260	2/20/2001
H-201652	MO50259JP	JP	Reduction Of EMI Through Switching Frequency Dithering	2001-524278	8/2/2000	4629938	11/19/2010
H-201652	MO50259US2	US	Reduction of EMI Through Switching Frequency Dithering	09/632024	8/2/2000	6674789	1/6/2004
H-201652-P	MO50259DE	DE	Reduction Of EMI Through Switching Frequency Dithering	00962039.4	8/2/2000	60040606	10/22/2008
H-201652-P	MO50259FR	FR	Reduction Of EMI Through Switching Frequency Dithering	00962039.4	8/2/2000	1216526	10/22/2008
H-201652-P	MO50259GB	GB	Reduction Of EMI Through Switching Frequency Dithering	00962039.4		1216526	10/22/2008
H-201652-P	MO50259EP	EP	Reduction Of EMI Through Switching Frequency Dithering	00962039.4	8/2/2000	1216526	10/22/2008
H-201732	MO50351US2	US	method and apparatus for robust generation of an index pulse for an electric power steering system	09/650170	8/29/2000	6329782	12/11/2001
H-201810	MO50353US	US	low cost encoder for a permanent magnet sinusoidal brushless motor	09/784958	2/16/2001	6486658	11/26/2002
H-201811	MO50315JP	JP	A Novel Torque Control Scheme for a Permanent Magnet Sinusoi	2001-524220	9/18/2000	4624619	11/12/2010
H-201811	MO50315US2	US	method and system for controlling torque in permanent magnet brushless electric motors	09/663331	9/18/2000	6465975	10/15/2002
H-201811	MO50315EP	EP	A Novel Torque Control Scheme for a Permanent Magnet Sinusoi	00963571.5	9/18/2000		
H-202043	MO50354US	US	passive starting of a torque-ripple-free electric power steering system	09/784957	2/16/2001	6460649	10/8/2002
H-202044	MO50355US2	US	Method And Apparatus Fro Calibrating A Current Sensing System	09/663846	9/18/2000	6452405	9/17/2002

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H-202049	MO50191DE	DE	APPARATUS AND METHOD FOR PRODUCING A DESIRED TORQUE IN A VEHICLE POWER STEERING SYSTEM HAVING A ROTATIONAL STEERING POSITION SENSOR	99201911.7	6/15/1999	69912028	10/15/2003
H-202049	MO50191FR	FR	APPARATUS AND METHOD FOR PRODUCING A DESIRED TORQUE IN A VEHICLE POWER STEERING SYSTEM HAVING A ROTATIONAL STEERING POSITION SENSOR	99201911.7	6/15/1999	0967135	10/15/2003
H-202049	MO50191JP	JP	apparatus and method for producing a desired return torque in a vehicle power steering system having a rotational steering position sensor	176269	6/23/1999	3348045	9/6/2002
H-202049	MO50191US	US	APPARATUS AND METHOD FOR PRODUCING A DESIRED TORQUE IN A VEHICLE POWER STEERING SYSTEM HAVING A ROTATIONAL STEERING POSITION SENSOR	09/103603	6/24/1998	6050360	4/18/2000
H-202049	MO50191EP	EP	APPARATUS AND METHOD FOR PRODUCING A DESIRED TORQUE IN A VEHICLE POWER STEERING SYSTEM HAVING A ROTATIONAL STEERING POSITION SENSOR	99201911.7	6/15/1999	0967135	10/15/2003
H-202052	MO50497US	US	RETAINER ASSEMBLY FOR TRIPOT JOINT	09/707108	11/6/2000	6390926	5/21/2002
H-202367	MO50356US2	US	diagnostic system for electric motor	09/500764	2/8/2000	6271637	8/7/2001
H-202381	MO50498US	US	CONSTANT VELOCITY UNIVERSAL JOINT	09/233863	12/17/1998	6159103	12/12/2000
H-202388	MO50178DE	DE	Hydraulic pump having low aeration single return boost reservoir	01946919.6	1/18/2001	1264107	11/2/2005
H-202388	MO50178FR	FR	Hydraulic pump having low aeration single return boost reservoir	01946919.6	1/18/2001	1264107	11/2/2005
H-202388	MO50178GB	GB	Hydraulic pump having low aeration single return boost reservoir	01946919.6	1/18/2001	1264107	11/2/2005
H-202388	MO50178JP	JP	Hydraulic pump having low aeration single return boost reservoir	2001-555701	1/18/2001	3717850	9/9/2005
H-202388	MO50178US2	US	Hydraulic pump having low aeration single return boost reservoir	09/625104	7/25/2000	6390783	5/21/2002
H-202388	MO50178EP	EP	Hydraulic pump having low aeration single return boost reservoir	01946919.6	1/18/2001	1264107	11/2/2005
H-202506	MO50357US	US	Method And Apparatus For Torque Control Of A Machine	09/656903	9/7/2000	6566829	5/20/2003
H-202506	MO50357EP	EP	H-202506 A Novel Torque Control Scheme of a PM Synchronous	00959983.8	9/7/2000		
H-202557	MO50319US2	US	extended speed range operation of permanent magnet brushless machines using optimal phase angle control in the voltage mode operation	09/664178	9/18/2000	6373211	4/16/2002
H-202557	MO50319EP	EP	Extended Speed Range Operation of Permanent Magnet Brushless	00965080.5	9/18/2000		

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H-202558	MO50358US2	US	method and apparatus to compensate for resistance variations in electric motors	09/655582	9/6/2000	6411052	6/25/2002
H-202809	MO50359US2	US	Method and Apparatus for Torque Ripple Reduction in Sinusoidal Excited Brushless Permanent Magnet Motors	09/616720	7/14/2000	6380658	4/30/2002
H-203332	MO50499US	US	CONSTANT VELOCITY UNIVERSAL JOINT AND METHOD	09/264143	3/5/1999	6206785	3/27/2001
H-203647	MO50474US	US	POSITION CONTROL APPARATUS FOR STEERING COLUMN	09/244382	2/4/1999	6139057	10/31/2000
H-203944	MO50360US	US	apparatus and method for commutation noise reduction	09/658352	9/11/2000	6448724	9/10/2002
H-203992	MO50500US	US	CONSTANT VELOCITY JOINT	09/200252	11/25/1998	6186899	2/13/2001
H-204001	MO50283DE	DE	Method and System for Improving Motor Vehicle Stability Inco	0989582.0	12/29/2000	1246746	2/17/2010
H-204001	MO50283FR	FR	Method and System for Improving Motor Vehicle Stability Inco	0989582.2	12/29/2000	1246746	2/17/2010
H-204001	MO50283US2	US	Method and System for Improving Motor Vehicle Stability Incorporating an Electric Power Steering System	09/752299	12/29/2000	6499559	12/31/2002
H-204001	MO50283EP	EP	Method and System for Improving Motor Vehicle Stability Inco	0989582.2	12/29/2000	123746	2/17/2010
H-204044	MO50370US	US	Horizontally Structured Manufacturing Process Modeling	09/483301	1/14/2000	6735489	5/11/2004
H-204047	MO50501US2	US	Constant velocity stroking joint	09/785569	2/16/2001	6616538	9/9/2003
H-204285	MO50183DE	DE	INTERMEDIATE STEERING SHAFT FOR MOTOR VEHICLE	02076013.8	3/15/2002	1247719	4/19/2006
H-204285	MO50183US	US	INTERMEDIATE STEERING SHAFT FOR MOTOR VEHICLE	09/825513	4/3/2001	6533666	3/18/2003
H-204285	MO50183EP	EP	INTERMEDIATE STEERING SHAFT FOR MOTOR VEHICLE	02076013.8	3/15/2002	1247719	4/19/2006
H-204295	MO50613US	US	REAR WHEEL STEERING APPARATUS	09/819502	3/28/2001	6510917	1/28/2003
H-204296	MO50326DE	DE	Energy Management Software for Impact Load Avoidance	00963569.9	9/18/2000	60037258.8	11/28/2007
H-204296	MO50326EP	EP	Energy Management Software for Impact Load Avoidance	00963569.9	9/18/2000	1216438	11/28/2007
H-204296	MO50326FR	FR	Energy Management Software for Impact Load Avoidance	00963569.9	9/18/2000	1216438	11/28/2007
H-204296	MO50326US2	US	end-of-travel impact management system	09/664183	9/18/2000	6408235	6/18/2002
H-204296	MO50326JP	JP	Energy Management Software for Impact Load Avoidance	2001-523931	9/18/2000		
H-204298	MO50505US	US	VIBRATION ISOLATOR FOR MOTOR VEHICLE INTERMEDIATE STEERING SHAFT	09/305967	5/6/1999	6135224	10/24/2000
H-204612	MO50475US	US	MOUNTING APPARATUS FOR MOTOR VEHICLE STEERING COLUMN	09/892936	6/27/2001	6655715	12/2/2003

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H-204613	MO50506US	US	STEERING SHAFT ASSEMBLY	10/252308	9/23/2002	6854765	2/15/2005
H-204761	MO50361US3	US	Electric Power Assisted Rack and Pinion System	10/070023	2/26/2002	6749040	6/15/2004
H-204767	MO50502US	US	SWAGE DIES FOR SWAGE-RING CLAMPS	09/846661	5/1/2001	6484553	11/26/2002
H-204772	MO50503US	US	SHAFT JOINT SEAL HAVING WIPER	09/428225	10/27/1999	6406034	6/18/2002
H-205137	MO50371US3	US	virtual ball joint	09/663549	9/18/2000	6502995	1/7/2003
H-205273	MO50602US	US	gen. ii steer by wire rotary actuator	09/728258	12/1/2000	6484839	11/26/2002
H-205571	MO50362US	US	electric power steering control with torque ripple and road disturbance damper	09/322389	5/28/1999	6122579	9/19/2000
H-205628 CIP	MO50379EPP	EP	Improved Efficiency Hydraulic Pump with Electronic Control	03077386.5	7/30/2003	1394416	6/7/2006
H-205628 CIP	MO50379USP	US	Dual Discharge Hydraulic Pump and System Therefor	10/228226	8/26/2002	6641372	11/4/2003
H-205631	MO50253DE	DE	Improved Efficiency Hydraulic Pump With Mechanical Control	01902091.6	1/17/2001	60138009	3/18/2009
H-205631	MO50253FR	FR	Improved Efficiency Hydraulic Pump With Mechanical Control	01902091.6	1/17/2001	1252443	3/18/2009
H-205631	MO50253GB	GB	Improved Efficiency Hydraulic Pump With Mechanical Control	01902091.6	1/17/2001	1252443	3/18/2009
H-205631	MO50253US	US	hydraulic pump with speed dependent recirculation valve	09/489437	1/21/2000	6478549	11/12/2002
H-205631	MO50253EP	EP	Improved Efficiency Hydraulic Pump With Mechanical Control	01902091.6	1/17/2001	EP1252443	3/18/2009
H-205644	MO50584US	US	limited independent steering device	09/773028	1/31/2001	6386311	5/14/2002
H-205648	MO50187DE	DE	Fixed center cross undercut free groove cv joint	01910884.4	2/16/2001	60138457	4/22/2009
H-205648	MO50187FR	FR	Fixed center cross undercut free groove cv joint	01910884.4	2/16/2001	1264114	4/22/2009
H-205648	MO50187GB	GB	Fixed center cross undercut free groove cv joint	01910884.4	2/16/2001	1264114	4/22/2009
H-205648	MO50187US2	US	Fixed center cross undercut free groove cv joint	09/785031	2/16/2001	6468164	10/22/2002
H-205648	MO50187EP	EP	Fixed center cross undercut free groove cv joint	01910884.4	2/16/2001	1264114	4/22/2009
N000001	NXT0014US	US	ROAD WHEEL DISTURBANCE REJECTION	13/299407	11/18/2011		
N000002	NXT0015US	US	ROAD WHEEL DISTURBANCE DETECTION	13/303523	11/23/2011		
N000003	NXT0008US	US	ELECTRIC POWER STEERING CONTROL METHODS AND SYSTEMS USING HYSTERESIS COMPENSATION	61/443504	2/16/2011		
N000004	NXT0006US	US	ELECTRIC POWER STEERING CONTROL METHODS AND SYSTEMS USING HYSTERESIS COMPENSATION	61/443564	2/16/2011		
N000005	NXT0007US	US	ELECTRIC POWER STEERING CONTROL METHODS AND SYSTEMS	61/443614	2/16/2011		
N000005	NXT0007US2	US	HYSTERESIS INCREASE FUNCTION	13/349154	1/12/2012		

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N000006	NXT0010US	US	DAMPING METHODS AND SYSTEMS FOR ELECTRIC POWER STEERING	61/449916	3/7/2011		
N000007	NXT0012US	US	TORQUE-BASED END OF TRAVEL SOFT STOP	61/451886	3/11/2011		
N000007	NXT0012US2	US	TORQUE-BASED END OF TRAVEL SOFT STOP	13/298798	11/17/2011		
N000011	NXT0024US	US	UNLOCKABLE TELESOPING JACKET INTERFACE MECHANISM	13/333161	12/21/2011		
N000012	NXT0025US	US	ENERGY ABSORBING STEERING COLUMN ASSEMBLY	13/307522	11/30/2011		
N000013	NXT0019US	US	ADJUSTABLE STEERING COLUMN	13/299450	11/18/2011		
N000014	NXT0022US	US	ADJUSTMENT ASSEMBLY HAVING A VARIABLE GEAR RATIO	13/288431	11/3/2011		
N000015	NXT0021US	US	Telescoping Steering Column Having Rake Spring	61/485708	5/13/2011		
N000017	NXT0023US	US	SYSTEM AND METHOD FOR FIXING A POSITION OF A STEERING COLUMN	13/280861	10/25/2011		
N000018	NXT0020US	US	POSITIVE LOCK FOR RAKING AND TELESOPING STEERING COLUMN	61/493097	6/3/2011		
N000020	NXT0036US	US	LINEAR TRAVEL ADJUSTMENT ASSEMBLY	13/296559	11/15/2011		
N000021	NXT0035US	US	LINEAR LEVER FOR STEERING COLUMN	13/288377	11/3/2011		
N000024	NXT0034US	US	TORQUE-BASED ON-CENTER FEEL FOR ELECTRIC POWER STEERING	61/532949	9/9/2011		
N000025	NXT0043US	US	Wheel Speed Velocity Variation Scaling System	61/570628	12/14/2011		
N000026	NXT0030US	US	NON-BACKDRIVE GEAR ASSEMBLY	61/490653	5/27/2011		
N000027	NXT0031US	US	RACK AND PINION ROTATABLE ASSEMBLY	61/490670	5/27/2011		
N000028	NXT0032US	US	SOLAR POWER SYSTEM	61/492178	6/1/2011		
N000029	NXT0033US	US	SOLAR POWER SYSTEM	61/492181	6/1/2011		
N000032	NXT0046US	US	MOTOR CONTROL SYSTEM FOR LIMITING REGENERATIVE CURRENT	13/327327	12/15/2011		
N000033	NXT0063US	US	HANDS ON STEERING WHEEL DETECT IN LANE CENTERING OPERATION	61/576020	12/15/2011		
N000039	NXT0040US	US	BRUSH SYSTEM FOR BRUSH MOTOR DESIGN	61/545753	10/11/2011		
N000042	NXT0049US	US	BEARING ASSEMBLY WITH BRUSHING LINER	61/570538	12/14/2011		
N000043	NXT0050US	US	BEARING ISOLATOR ASSEMBLY	61/581886	12/30/2011		
N000047	NXT0052US	US	HAND WHEEL POSITION DETECTION SYSTEM	61/579770	12/23/2011		
N000049	NXT0042US	US	INTERMEDIATE SHAFT CONNECTION ASSURANCE DEVICE	61/534244	9/13/2011		
N000050	NXT0041US	US	Inertia Compensation with Frequency Dependent Damping	61/532933	9/9/2011		
N000052	NXT0044US	US	Steering System Having Compensation Command Calibration	61/569602	12/12/2011		

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N000056	NXT0048US	US	CARTRIDGE STYLE BINARY VANE PUMP	61/544784	10/7/2011		
N000074	NXT0059US	US	SHIFT DEVICE FOR AN AUTOMATIC TRANSMISSION	61/569404	12/12/2011		
N000076	NXT0064US	US	CROSS-CHECKING MEMORY PARTITION UNIT (MPU) INTERFACE FOR TRANSMIT/RECEIVE	61/577458	12/19/2011		
P011502	MO60007DE	DE	CARDAN JOINT ASSEMBLY AND A CARDAN JOINT PROTECTOR DEVICE	102011119153.8	11/22/2011		
P011502	MO60007US	US	CARDAN JOINT ASSEMBLY AND A CARDAN JOINT PROTECTOR DEVICE	12/952833	11/23/2010		
P011587	MO60008DE	DE	STEERING COLUMN TELESCOPE LOCK	102011119154.6	11/22/2011		
P011587	MO60008US	US	STEERING COLUMN TELESCOPE LOCK	12/952966	11/23/2010		
P011589	MO60005DE	DE	INTEGRATED TOOTH RAKE LOCK FOR STEERING COLUMN	102011119156.2	11/22/2011		
P011589	MO60005US	US	INTEGRATED TOOTH RAKE LOCK FOR STEERING COLUMN	12/952917	11/23/2010		
P011602	MO60006DE	DE	STEERING COLUMN TELESCOPE ABUSE STOP	102011119198.8	11/22/2011		
P011602	MO60006US	US	STEERING COLUMN TELESCOPE ADJUSTMENT STOP	12/952943	11/23/2010		
P011880	MO60009DE	DE	TELESCOPE POSITIVE LOCK FOR STEERING COLUMN	102011119155.4	11/22/2011		
P011880	MO60009US	US	TELESCOPE POSITIVE LOCK FOR STEERING COLUMN	12/952991	11/23/2010		
P011975	MO60003US	US	TORQUE SENSING SYSTEM HAVING TORQUE SENSOR, METHOD FOR DETERMINING AN AMOUNT OF TORQUE, AND STEERING SYSTEM	12/878626	9/9/2010		
P012100	MO60001EP	EP	TORQUE SENSING SYSTEM HAVING TORQUE SENSOR, AND STEERING SYSTEM	11009233.5	11/22/2011		
P012100	MO60001US	US	TORQUE SENSING SYSTEM HAVING TORQUE SENSOR, AND STEERING SYSTEM	12/952842	11/23/2010		
P012188	MO60002CN	CN	MOUNTED CIRCUIT CARD ASSEMBLY	201110305452.7	8/27/2011		
P012188	MO60002EP	EP	MOUNTED CIRCUIT CARD ASSEMBLY	11006986.1	8/26/2011		
P012188	MO60002US	US	MOUNTED CIRCUIT CARD ASSEMBLY	12/870020	8/27/2010		
P012359	MO60004US	US	PERMANENT MAGNET BRUSHLESS MOTOR	61/416571	11/23/2010		
P012359	MO60004US2	US	PERMANENT MAGNET BRUSHLESS MOTOR SYSTEM AND METHOD FOR DETERMINING AN ABSOLUTE POSITION OF A MOTOR SHAFT IN AN	13/251739	10/3/2011		
P012727	MO60011EP	EP	ELECTRIC STEERING SYSTEM	11004000.3	5/13/2011		
P012727	MO60011US2	US	SYSTEM AND METHOD FOR DETERMINING AN ABSOLUTE POSITION OF A MOTOR SHAFT IN AN ELECTRIC STEERING SYSTEM	13/106031	5/12/2011		

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P012816	MO60012CN	CN	HARMONIC PINION TORQUE CORRECTION		11/23/2011		
P012816	MO60012EP	EP	HARMONIC PINION TORQUE CORRECTION	11009232.7	11/22/2011		
P012816-NEXEPS-DPH	MO60012US	US	HARMONIC PINION TORQUE CORRECTION	61/416548	11/23/2010		
P012816-NEXEPS-DPH	MO60012US2	US	HARMONIC PINION TORQUE CORRECTION	13/216429	8/24/2011		
P012852-NEXEPS-DPH	MO60013US	US	ELECTRIC POWER STEERING HAVING NON-LINEAR T-BAR WITH PARALLEL SPRING	61/416621	11/23/2010		
P013188	MO60014EP	EP	DIAGNOSTIC SYSTEM AND METHOD FOR AN ELECTRIC POWER STEERING SYSTEM	11009234.3	11/22/2011		
P013188-NEXEPS-DPH	MO60014US	US	DIAGNOSTIC SYSTEM FOR AN ELECTRIC POWER STEERING SYSTEM	61/416671	11/23/2010		
P013188-NEXEPS-DPH	MO60014US2	US	DIAGNOSTIC SYSTEM AND METHOD FOR AN ELECTRIC POWER STEERING SYSTEM	13/192867	7/28/2011		
R-6620/H-199033	MO50314US	US	Low Ripple Torque Control Of A Permanent Magnet Motor Without Using Current Sensors	09/663900	9/18/2000	6498449	12/24/2002
R-6620/H-199033	MO50314JP	JP	Control of a Permanent Magnet (PM) Machine Without...	2001-524226	9/18/2000		
R-6620/H-199033	MO50314EP	EP	Control of a Permanent Magnet (PM) Machine Without...	00974120.8	9/18/2000		
	MO50024DE	DE	Infinitely adjustable steering column assembly	07116562.5	9/17/2007	6020070135 08.7	3/30/2011
	NXT0060US	US	SHIFT DEVICE FOR AN AUTOMATIC TRANSMISSION	61/569483	12/12/2011		
	NXT0065US	US	COMMAND FUNCTION SEQUENCE CROSS-CHECK IN MULTIPLE MEMORY PARTITIONS	61/577531	12/19/2011		