

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Matthew Eugene Fleming</td> <td>02/01/2010</td> </tr> <tr> <td>Avernethy Francisco</td> <td>02/01/2010</td> </tr> </tbody> </table>		Name	Execution Date	Matthew Eugene Fleming	02/01/2010	Avernethy Francisco	02/01/2010				
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RECEIVING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.</td> </tr> <tr> <td>Street Address:</td> <td>25 Atlantic Avenue</td> </tr> <tr> <td>City:</td> <td>Erlanger</td> </tr> <tr> <td>State/Country:</td> <td>KENTUCKY</td> </tr> <tr> <td>Postal Code:</td> <td>41018</td> </tr> </table>		Name:	TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.	Street Address:	25 Atlantic Avenue	City:	Erlanger	State/Country:	KENTUCKY	Postal Code:	41018
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CORRESPONDENCE DATA											
<p>Fax Number: (714)427-7799</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 714-427-7405</p> <p>Email: lholstein@swlaw.com</p> <p>Correspondent Name: Ketan S. Vakil</p> <p>Address Line 1: 600 ANTON BOULEVARD</p> <p>Address Line 2: SUITE 1400</p> <p>Address Line 4: COSTA MESA, CALIFORNIA 92626</p>											
ATTORNEY DOCKET NUMBER:	90181-2900										
NAME OF SUBMITTER:	Ketan S. Vakil										
<p>Total Attachments: 2</p> <p>source=901812900Assignment#page1.tif</p> <p>source=901812900Assignment#page2.tif</p>											

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PATENT
REEL: 023895 FRAME: 0032

ASSIGNMENT

WHEREAS, ASSIGNORS, Matthew Eugene Fleming and Avernethy Francisco, have invented, conceived, reduced to practice, inventions for a METHOD AND SYSTEM FOR MORE EFFICIENT OPERATION OF PLUG-IN ELECTRIC VEHICLES (hereinafter the "Invention"), for which United States Patent Application No. 12/699,790 was filed February 3, 2010 [Authorization is given hereby to insert the application serial number and filing date when it becomes available] (hereinafter the "Applications"); and

WHEREAS, ASSIGNEE, Toyota Motor Engineering & Manufacturing North America, Inc., a Corporation organized under and pursuant to the laws of Kentucky having its principal place of business at 25 Atlantic Avenue, Erlanger, Kentucky 41018, is desirous of acquiring the entire right, title and interest in, to and under the Invention and the Applications and patents to be obtained thereon;

NOW, THEREFORE, in consideration of the payment by ASSIGNEE to ASSIGNORS the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNORS does hereby sell, assign and transfer and set over to ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest, throughout the world, in the Invention and the Applications, and any other intellectual property rights in the Invention including, but not limited to, any patent rights, and any patent application(s), claiming priority thereto, that have been or may hereafter be filed;

ASSIGNORS do hereby covenant that no assignment, sale, agreement, charge, or other encumbrance, has been, or will be, entered into which would conflict with this assignment;

ASSIGNORS do hereby covenant and agree to provide any tangible property embodying or describing the Invention, including, without limitation, all documents, drawings, prototypes, models, test results, designs, materials, computer programs and data, and the like, which, if not presently in the possession of ASSIGNEE will be delivered to ASSIGNEE immediately upon request;

ASSIGNORS do hereby covenant and agree to do everything possible to aid ASSIGNEE, its successors, legal representatives and assigns to obtain and enforce proper patent protection for

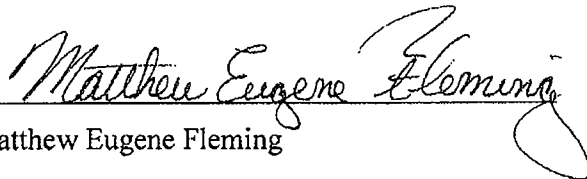
the Invention in all countries including assisting with the preparation of any application relating to the Invention;

ASSIGNORS do hereby covenant and agree not to contest the validity or enforceability of any intellectual property rights assigned herein, or to assist or request any third party to contest the validity or enforceability of any intellectual property rights assigned herein;

ASSIGNORS does hereby release and forever discharge ASSIGNEE from any and all claims, including but not limited to any debts, liabilities, damages and causes of action of whatsoever kind or nature relating to the Invention, whether or not known, suspected and unsuspected, including any and all previous agreements entered into, which now exist, or may have existed prior to the date of this assignment.

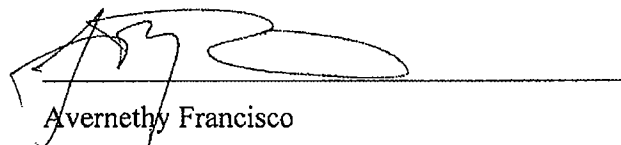
IN WITNESS WHEREOF, I have executed this instrument at Toyota Technical Center, on the date indicated adjacent to my name.

Dated: 2/1/2010


Matthew Eugene Fleming

IN WITNESS WHEREOF, I have executed this instrument at Toyota Tech Center, on the date indicated adjacent to my name.

Dated: 2/1/2010


Avernethy Francisco