

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5301022

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES, INC.	07/26/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LG FUEL CELL SYSTEMS INC.
<b>Street Address:</b>	6065 STRIP AVENUE NW
<b>City:</b>	NORTH CANTON
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	44720
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14823512
<b>Application Number:</b>	15801072
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(619)595-8135
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	6195958032
<b>Email:</b>	m1aip@dentons.com
<b>Correspondent Name:</b>	RENZO N. ROCCHEGIANI
<b>Address Line 1:</b>	DENTONS US LLP
<b>Address Line 2:</b>	4655 EXECUTIVE DRIVE, SUITE 700
<b>Address Line 4:</b>	SAN DIEGO, CALIFORNIA 92121
<b>ATTORNEY DOCKET NUMBER:</b>	15799369.000029.US22
<b>NAME OF SUBMITTER:</b>	RENZO N. ROCCHEGIANI
<b>SIGNATURE:</b>	/Renzo N. Rocchegiani/
<b>DATE SIGNED:</b>	12/27/2018
<b>Total Attachments: 4</b>	
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source=ASN4_14823512#page3.tif	
source=ASN4_14823512#page4.tif	

## ASSIGNMENT

To all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignor in hand paid, the receipt of which is hereby acknowledged, Rolls-Royce North American Technologies, Inc. (Assignor), a corporation of the State of Delaware, having a principal place of business at 2059 S. Tibbs Avenue, Mail Drop X12, Indianapolis, Indiana 46241, USA, has sold, assigned and transferred, and by these presents do sell, assign and transfer unto LG Fuel Cell Systems Inc. (Assignee), a corporation of the State of Delaware, having a principal place of business at 6065 Strip Avenue NW, North Canton, Ohio 44720, USA, all of the entire right, title, and interest in, to and under, including the right to sue for past infringement, the one or more inventions set forth, described and claimed or intended so to be in the Patent Application(s) and/or Letters Patent and/or invention disclosures set forth in EXHIBIT A, and any and all other patent applications thereon and arising therefrom, including any and all patent applications claiming the benefit thereof, and any and all divisionals, continuations, and continuations-in-part thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues, reexaminations and extensions thereof.

Assignor hereby authorizes Assignee, its counsel, or its agents to insert any information necessary for proper identification or as deemed necessary by the Assignee, its counsel or agents for proper recording.

If requested by Assignee or its successor in interest, Assignor hereby authorizes and requests the Honorable Assistant Secretary and Commissioner for Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees to assign and execute any and all other papers necessary or desirable for the procurement of Patent Application(s) and/or Letters Patent and/or invention disclosures on said inventions in this and all foreign countries for the use of Assignee.

SIGNED by for and on behalf of the Assignor by:



Signature

PAUL T. WEBER

Print Name

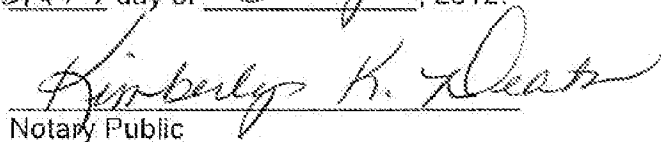
Legal Counsel

Capacity

STATE OF Indiana )  
COUNTY OF Marion ) :SS

Before me, a Notary Public, in and for said County and State, personally appeared Paul T. Weber, who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 26th day of July, 2012.

  
Notary Public

Printed: Kimberly K. Deaton

Resident of Morgan County

My Commission Expires:

6-11-17

SIGNED for and on behalf of the Assignee by:

Mark S. Fleiner  
Signature

Mark S. Fleiner  
Print Name

Chief Executive Officer  
Capacity

STATE OF Ohio )  
COUNTY OF Stark ) SS

Before me, a Notary Public, in and for said County and State, personally appeared Mark S. Fleiner, who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 26<sup>th</sup> day of July, 2012.

Laurie M. Wessel  
Notary Public

Printed: Laurie Wessel

Resident of Stark County

My Commission Expires:

7/26/2013

EXHIBIT A

Application No.: 13/174,670  
Filing Date: 6/30/2011

Application No.: 13/233,874  
Filing Date: 9/15/2011

Application No.: 13/161,389  
Filing Date: 6/15/2011

Application No.: 13/161,402  
Filing Date: 6/15/2011

Application No.: 13/174,044  
Filing Date: 6/30/2011

New Idea No. 10-003  
Invention Disclosure Entitled: PILOT-SCALE CATALYTIC IGNITION SOURCE  
Inventor: Mark V. Scotto

New Idea No. 11-005  
Invention Disclosure Entitled: IMPROVED CATALYSTS AND PROCESSES FOR  
HYDROCARBON REFORMING  
Inventor: John R. Budge

New Idea No. 09-001(a)  
Invention Disclosure Entitled: POTENTIAL MEANS TO IMPROVE THE  
EFFECTIVENESS OF SYNTHESIS GAS IN BENEFITING THE OPERATION OF  
LARGE RECIPROCATING ENGINES  
Inventor: Mark V. Scotto

New Idea No. 09-001(b)  
Invention Disclosure Entitled: A POTENTIAL APPARATUS AND METHOD TO USE  
SYNTHESIS GAS IN LARGE RECIPROCATING ENGINES FOR THE REDUCTION OF  
A LEAN NO<sub>x</sub> TRAP CATALYST  
Inventor(s): Mark V. Scotto, Mark A. Perna