

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5091440

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|---|------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT               |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                   |
| <b>CONVEYING PARTY DATA</b>   |                              |
| <b>Name</b>   | <b>Execution Date</b>        |
| BALLARD POWER SYSTEMS INC.  | 04/04/2018                   |
| <b>RECEIVING PARTY DATA</b>   |                              |
| <b>Name:</b>  | VOLKSWAGEN AG                |
| <b>Street Address:</b>  | BERLINER RING 2              |
| <b>City:</b>  | WOLFSBURG                    |
| <b>State/Country:</b>   | GERMANY                      |
| <b>Postal Code:</b>   | 38440                        |
| <b>PROPERTY NUMBERS Total: 1</b>  |                              |
| <b>Property Type</b>  | <b>Number</b>                |
| <b>Application Number:</b>  | 15751803                     |
| <b>CORRESPONDENCE DATA</b>  |                              |
| <b>Fax Number:</b>  | (206)682-6031                |
| <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>   | 206-622-4900                 |
| <b>Email:</b>   | kellyp@seedip.com            |
| <b>Correspondent Name:</b>  | RACHEL A. HALLER             |
| <b>Address Line 1:</b>  | SEED IP LAW GROUP LLP        |
| <b>Address Line 2:</b>  | 701 FIFTH AVENUE, SUITE 5400 |
| <b>Address Line 4:</b>  | SEATTLE, WASHINGTON 98104    |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 120339.424USPC               |
| <b>NAME OF SUBMITTER:</b>   | RACHEL A. HALLER             |
| <b>SIGNATURE:</b>   | /Rachel A. Haller/           |
| <b>DATE SIGNED:</b>   | 08/09/2018                   |
| <b>Total Attachments: 2</b>   |                              |
| source=Assignment-Ballard#page1.tif   |                              |
| source=Assignment-Ballard#page2.tif   |                              |

ASSIGNMENT

WHEREAS,

| Name                       | Address                                       |
|----------------------------|---|
| Ballard Power Systems Inc. | 9000 Glenlyon Parkway, Burnaby, BC V5J 5J8 CA |

(hereinafter referred to as ASSIGNOR), a corporation of Canada having a place of business as listed above, is an owner of an invention entitled "FUEL CELL STACK HAVING AN INTERNAL PARTICLE RETENTION FUNCTION AND VEHICLE HAVING SUCH A FUEL CELL STACK," as described and claimed in the specification for which an application for United States letters patent was filed and assigned Application No. 15/751,803; which application is a national stage application filed under 35 U.S.C. 371 of International Application No. PCT/EP2016/069024, accorded an International Filing Date of August 10, 2016;

WHEREAS,

| Corporation Name | Address                              |
|------------------|--------------------------------------|
| Volkswagen AG    | Berliner Ring 2, Wolfsburg, 38440 DE |

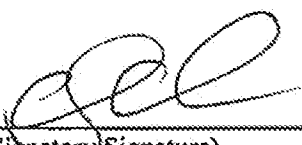
(hereinafter referred to as ASSIGNEE), having a usual place of business at the address listed above, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions including any extensions or adjustments in term thereof, and in any and all divisions, reissues and continuations thereof, including the right to sue and collect damages for past and present infringement of said letters patent; said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States letters patent on said invention, for litigation

regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

**BALLARD POWER SYSTEMS INC.**

APR 04 2018  
Date


  
(Signatory Signature) (Assignor)

Kerry Hillier, General Counsel

Acknowledged and Accepted by:

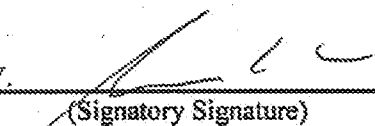
**VOLKSWAGEN AG**

Wolfsburg, 23.04.2018  
Date

i.V.   
(Signatory Signature) (Assignee)

Dr. Carsten Szymanowski, Head of Patents Powertrain and Battery  
(Assignee Signatory Name, Title)

Wolfsburg, 23.04.2018  
Date

i.V.   
(Signatory Signature) (Assignee)

Alexander Koch, Patent Attorney  
(Assignee Signatory Name, Title)