

<b>PATENT ASSIGNMENT COVER SHEET</b>
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EPAS ID: PAT4009485

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOACHIM FETZER	07/04/2016
HOLGER FINK	06/23/2016
HANS PARTES	06/17/2016
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<b>Street Address:</b>	428-5 GONGSE-DONG, GIHEUNG-GU
<b>City:</b>	YONGIN-SI, GYEONGGI-DO
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	446-577
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15114793
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(317)638-2139
<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	2178-1516
<b>NAME OF SUBMITTER:</b>	PAUL J. MAGINOT
<b>SIGNATURE:</b>	/Paul J. Maginot/

<b>DATE SIGNED:</b>	08/16/2016
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**Total Attachments: 5**

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ASSIGNMENT

For valuable and sufficient consideration, receipt whereof is hereby acknowledged, we:

Joachim Fetzer  
Drackensteiner Str. 31  
73342 Bad-Ditzenbach  
Germany

Holger Fink  
Rotkaeppchenweg 31  
70567 Stuttgart  
Germany

Hans Partes  
Stuttgarter Str. 42  
71679 Asperg  
Germany

confirm our obligation to and hereby sell, assign, and convey our entire right, title, and interest  
unto Robert Bosch GmbH, a German corporation having a mailing address at:

Postfach 30 02 20  
70442 Stuttgart  
GERMANY

and Samsung SDI Co., Ltd., a Korean corporation having a mailing address at:

428-5 Gongse-dong, Giheung-gu  
Yongin-si, Gyeonggi-do  
446-577  
Republic of Korea

(hereinafter referred to jointly as "Assignees"), their successors and assigns, except as set forth  
below -

(1) in and to an invention entitled "Method and Circuit Arrangement for Determining the  
Coulombic Efficiency of Battery Modules" for which we have executed a United States patent  
application, said United States application being assigned U.S. Serial No.

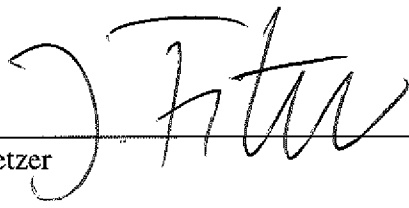
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\_\_\_\_\_ (We hereby authorize Assignee to insert the serial number in the preceding blank) and which is disclosed in Patent Cooperation Treaty Application No. PCT/EP2015/051389, filed on January 23, 2015;

(2) in and to said United States patent application, in and to all other patent applications (including divisional, continuation, continuation-in-part, §111(b) provisional, §111(a), reissue applications, and international patent applications designating the United States) based upon said invention, and in and to the patent or patents to be granted thereon, including reissues thereof, if any, to the full end of the term or terms for which said patent or patents may be granted; and

(3) in and to all patent applications on said invention now or hereafter filed in countries foreign to the United States of America, including patent applications filed under the Patent Cooperation Treaty, the European Patent Convention or any other international treaty, and including the right to claim priority of said United States application, and in and to any and all patents granted on said applications to the full end of the terms for which said patents may be granted.

We hereby agree that we will, upon demand of Assignees, their successors or assigns, and without further consideration to us, execute any and all papers that may be necessary, or deemed by Assignees, their successors or assigns, to be necessary, to a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers shall be paid by Assignees, their successors and assigns, and not by us.

 Date 4. July 2016  
Joachim Fetzer



Date: 23.06.16

Holger Fink

Hans Werner Partes  
Hans Partes

Date 17.06.2016