

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3846319

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ALAN ASPURU-GUZIK	11/17/2014
MICHAEL J. AZIZ	11/14/2014
SULEYMAN ER	11/20/2014
ROY G. GORDON	11/14/2014
BRIAN HUSKINSON	11/15/2014
KAIXIANG LIN	11/14/2014
MICHAEL MARSHAK	11/21/2014
CHANGWON SUH	11/14/2014
LIUCHUAN TONG	11/14/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PRESIDENT AND FELLOWS OF HARVARD COLLEGE
<b>Street Address:</b>	17 QUINCY STREET
<b>City:</b>	CAMBRIDGE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02138
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15025040
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	caroline_borek@harvard.edu
<b>Correspondent Name:</b>	KAREN SINCLAIR
<b>Address Line 1:</b>	1350 MASSACHUSETTS AVENUE
<b>Address Line 2:</b>	HARVARD UNIVERSITY, OFFICE OF TECH. DEV.
<b>Address Line 4:</b>	CAMBRIDGE, MASSACHUSETTS 02138
<b>ATTORNEY DOCKET NUMBER:</b>	5095
<b>NAME OF SUBMITTER:</b>	KAREN SINCLAIR

<b>SIGNATURE:</b>	/kas/
<b>DATE SIGNED:</b>	04/26/2016
<b>Total Attachments: 9</b> source=HU 5095 - PCT and Prov Assignment#page1.tif source=HU 5095 - PCT and Prov Assignment#page2.tif source=HU 5095 - PCT and Prov Assignment#page3.tif source=HU 5095 - PCT and Prov Assignment#page4.tif source=HU 5095 - PCT and Prov Assignment#page5.tif source=HU 5095 - PCT and Prov Assignment#page6.tif source=HU 5095 - PCT and Prov Assignment#page7.tif source=HU 5095 - PCT and Prov Assignment#page8.tif source=HU 5095 - PCT and Prov Assignment#page9.tif	

## ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the undersigned:

**Alan Aspuru-Guzik, Michael J. Aziz, Suleyman Er, Roy G. Gordon, Brian Huskinson, Kaixiang Lin, Michael Marshak, Changwon Suh, and Liuchuan Tong**

(each hereafter "Assignor") hereby assign, sell, and transfer to:

**President and Fellows of Harvard College  
17 Quincy Street, Cambridge, Massachusetts 02138**

(hereafter "Assignee") its successors and assigns, Assignor's entire right, title and interest throughout the world in and to any and all inventions for:

### **Quinone and Hydroquinone Based Flow Battery**

described in **International Patent Application No. PCT/US14/57866, filed September 26, 2014**; and in **US Provisional Application 61/883,110 filed September 26, 2013**, and in and to the aforesaid application(s), in any form or embodiment thereof, and in and to any application on any of the inventions filed in this and any foreign country, based thereon, including the right to file said applications, apply for patent rights, and claim priority under the provisions of any international convention or treaty; also the entire right, title and interest throughout the world in and to any and all patents or reissues or extensions thereof to be obtained in this or any foreign country upon any of the inventions and any divisional, continuation, or substitute applications which may be filed upon said invention or inventions in this or any foreign country; and the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent; and authorize and request the issuing authority to issue any and all patents on said application or applications to said Assignee or its successors and assigns.

For purposes of complying with foreign requirements, the above paragraph is intended to expressly grant all the recited rights and grants in China, Korea, and Japan.

Assignor hereby warrants that he/she has full right to convey his/her entire right, title and interest, both legal and equitable, in and to said inventions, free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and

Assignor further agrees, without further payment or compensation by said Assignee or its successors and assigns, to communicate to said Assignee, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings, whenever requested; testify in any interference or other legal proceedings whenever

Patent Assignment  
HU Case 5095  
Appl. No(s): PCT/US14/57866, 61/883,110

requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said Assignee, its representatives or agents, or its successors or assigns to secure, obtain and enforce proper patent protection for said invention or inventions in this and any foreign country.


Assignor authorizes Assignee or Assignee's representative to supply and/or to correct any errors or omissions in the patent/application information provided above including but not limited to said application serial number(s) and filing date(s), prior to or after recordation.

Assignor appoints Assignee, through its designee, as its attorney-in-fact to execute, in Assignor's name and on Assignor's behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

11/17/2014  
Date

  
Alan Aspuru-Guzik

11/17/2014  
Date

  
Witness  
CYNTHIA CHEN  
Witness's Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Michael J. Aziz

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness's Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Suleyman Er

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness's Printed Name

Patent Assignment  
HU Case 5095  
Appl. No(s): PCT/US14/57866, 61/883,110

requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said Assignee, its representatives or agents, or its successors or assigns to secure, obtain and enforce proper patent protection for said invention or inventions in this and any foreign country.

Assignor authorizes Assignee or Assignee's representative to supply and/or to correct any errors or omissions in the patent/application information provided above including but not limited to said application serial number(s) and filing date(s), prior to or after recordation.


Assignor appoints Assignee, through its designee, as its attorney-in-fact to execute, in Assignor's name and on Assignor's behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

\_\_\_\_\_  
Date Alan Aspuru-Guzik

\_\_\_\_\_  
Date Witness

\_\_\_\_\_  
Witness's Printed Name

11/14/14  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Michael J. Aziz

11/14/14  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Witness

Barbara Sewall  
\_\_\_\_\_  
Witness's Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Suleyman Er

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness's Printed Name

requested; execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and generally do everything possible to aid said Assignee, its representatives or agents, or its successors or assigns to secure, obtain and enforce proper patent protection for said invention or inventions in this and any foreign country.

Assignor authorizes Assignee or Assignee's representative to supply and/or to correct any errors or omissions in the patent/application information provided above including but not limited to said application serial number(s) and filing date(s), prior to or after recordation.

Assignor appoints Assignee, through its designee, as its attorney-in-fact to execute, in Assignor's name and on Assignor's behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

_____ <b>Date</b>	_____ <b>Alan Aspuru-Guzik</b>
----------------------	-----------------------------------

_____ <b>Date</b>	_____ <b>Witness</b>
----------------------	-------------------------

\_\_\_\_\_  
**Witness's Printed Name**

_____ <b>Date</b>	_____ <b>Michael J. Aziz</b>
----------------------	---------------------------------

_____ <b>Date</b>	_____ <b>Witness</b>
----------------------	-------------------------

\_\_\_\_\_  
**Witness's Printed Name**

_____ <b>11/20/14</b>	_____ 
--------------------------	--

_____ <b>Date</b>	_____ <b>Suleyman Er</b>
----------------------	-----------------------------

_____ <b>11/20/14</b>	_____ 
--------------------------	---

_____ <b>Date</b>	_____ <b>Witness</b>
----------------------	-------------------------

\_\_\_\_\_  
**Amanda M. Er**

\_\_\_\_\_  
**Witness's Printed Name**

Patent Assignment  
HU Case 5095  
Appl. No(s): PCT/US14/57866, 61/883,110

Nov. 14, 2014  
Date

Roy G. Gordon  
Roy G. Gordon

11.14.2014  
Date

Kateri Howard  
Witness  
Kateri Howard  
Witness's Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Brian Huskinson

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness's Printed Name

Nov 14<sup>th</sup>, 2014  
Date

Kaixiang Lin  
Kaixiang Lin

11.14.2014  
Date

Kateri Howard  
Witness  
Kateri Howard  
Witness's Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Michael Marshak

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness's Printed Name

Patent Assignment  
HU Case 5095  
Appl. No(s): PCT/US14/57866, 61/883,110

\_\_\_\_\_  
Date

\_\_\_\_\_  
Roy G. Gordon

\_\_\_\_\_  
Date

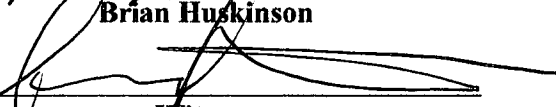
\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness's Printed Name

11/15/2014  
Date

  
\_\_\_\_\_  
Brian Huskinson

11/15/2014  
Date

  
\_\_\_\_\_  
Witness  
Alex Karabasevic  
\_\_\_\_\_  
Witness's Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Kaixiang Lin

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness's Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Michael Marshak

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Witness's Printed Name



Patent Assignment  
HU Case 5095  
Appl. No(s): PCT/US14/57866, 61/883,110

\_\_\_\_\_  
Date Roy G. Gordon

\_\_\_\_\_  
Date Witness

\_\_\_\_\_  
Witness's Printed Name

\_\_\_\_\_  
Date Brian Huskinson

\_\_\_\_\_  
Date Witness

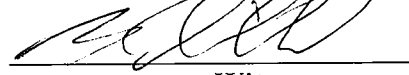
\_\_\_\_\_  
Witness's Printed Name

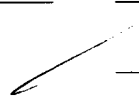
\_\_\_\_\_  
Date Kaixiang Lin

\_\_\_\_\_  
Date Witness

\_\_\_\_\_  
Witness's Printed Name

11/21/14  
Date   
Michael Marshak

11/21/14  
Date   
Witness


  
Roger Diebold  
Witness's Printed Name

Patent Assignment  
HU Case 5095  
Appl. No(s): PCT/US14/57866, 61/883,110

11/14/2014  
Date

  
Changwon Suh

11/14/2014  
Date

  
Witness  
CYNTHIA CHEW  
Witness's Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Liuchuan Tong

\_\_\_\_\_  
Date

\_\_\_\_\_  
Witness  
\_\_\_\_\_  
Witness's Printed Name

Patent Assignment  
HU Case 5095  
Appl. No(s): PCT/US14/57866, 61/883,110

_____	_____
<b>Date</b>	<b>Changwon Suh</b>
_____	_____
<b>Date</b>	<b>Witness</b>
_____	_____
	<b>Witness's Printed Name</b>
<u>NOV-14-2014</u>	<u>Liuchuan Tong</u>
<b>Date</b>	<b>Liuchuan Tong</b>
<u>11.14.2014</u>	<u>Kateri Howard</u>
<b>Date</b>	<b>Witness</b>
	<b>Kateri Howard</b>
	<b>Witness's Printed Name</b>