

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Sun Kyu LEE</td> <td>11/07/2012</td> </tr> <tr> <td>Sung Ki NAM</td> <td>11/07/2012</td> </tr> <tr> <td>Su Heon JEONG</td> <td>11/07/2012</td> </tr> <tr> <td>Jung Kyun KIM</td> <td>11/07/2012</td> </tr> <tr> <td>Do Kyun WOO</td> <td>11/07/2012</td> </tr> <tr> <td>Sung YANG</td> <td>11/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	Sun Kyu LEE	11/07/2012	Sung Ki NAM	11/07/2012	Su Heon JEONG	11/07/2012	Jung Kyun KIM	11/07/2012	Do Kyun WOO	11/07/2012	Sung YANG	11/07/2012
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<table border="1"> <tr> <td>Name:</td> <td>GWANGJU INSTITUTE OF SCIENCE AND TECHNOLOGY</td> </tr> <tr> <td>Street Address:</td> <td>123 Cheomdan-gwagiro (Orong-dong)</td> </tr> <tr> <td>City:</td> <td>Buk-gu, Gwangju</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>500-712</td> </tr> </table>		Name:	GWANGJU INSTITUTE OF SCIENCE AND TECHNOLOGY	Street Address:	123 Cheomdan-gwagiro (Orong-dong)	City:	Buk-gu, Gwangju	State/Country:	KOREA, REPUBLIC OF	Postal Code:	500-712				
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PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13696893</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13696893										
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CORRESPONDENCE DATA															
<p>Fax Number: 7036838396 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 703 548 6284 Email: swoldeyesus@nathlaw.com Correspondent Name: NATH, GOLDBERG & MEYER Address Line 1: 112 S. West Street Address Line 2: Docket No. 32513U Address Line 4: Alexandria, VIRGINIA 22314</p>															
ATTORNEY DOCKET NUMBER:	32513U														

NAME OF SUBMITTER:

Joshua B. Goldberg

Total Attachments: 7

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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION given to LEE, Sun Kyu, NAM, Sung Ki, Jeong, Su Heon, KIM, Jung Kyun, WOO, Do Kyun and YANG, Sung, hereinafter referred to as the ASSIGNOR(S), who has/have invented certain new and useful

**SENSOR FOR MEASURING AMOUNT OF HEAT GENERATED FROM CELLS USING
ZWEIFACH-FUNG EFFECT AND METHOD FOR MANUFACTURING THE SAME**

hereinafter referred to as the invention, for which I/we has/have executed an application for Letters Patent to be filed in the United States Patent and Trademark Office.

WHEREAS, **GWANGJU INSTITUTE OF SCIENCE AND TECHNOLOGY**, a corporation organized and existing under the laws of the country/state of **Republic of Korea**, whose post office address/business address is **123 Cheomdan-gwagiro(Orong-dong), Buk-gu, Gwangju 500-712, Republic of Korea**, hereinafter referred to as the ASSIGNEE, desires to acquire the entire right, title and interest for the United States and elsewhere throughout the world in and to said invention and application, including any and all divisions and continuations thereof, all rights of priority under the terms of the International Convention for the Protection of Industrial Property, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof.

NOW, WITNESSETH THIS that for and in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt, adequacy and sufficiency of which are hereby acknowledged, said ASSIGNOR(S) hereby assign(s), sell(s) and transfer(s) to said ASSIGNEE, its assigns and legal representatives, the entire right, title and interest for the United States and elsewhere throughout the world, in and to said invention and application, including any and all divisions and continuations thereof, all rights of priority under the terms of the International Convention for the Protection of Industrial Property, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges, and advantages in any way arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said

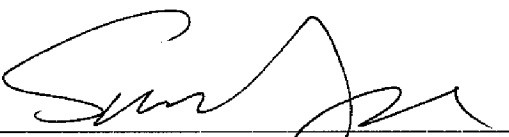
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ASSIGNEE and its assigns and legal representatives, in as ample and as beneficial a manner for all intents and purposes as said ASSIGNOR(S) might or could have held and enjoyed the same had this assignment not been made.

ALSO, said ASSIGNOR(S) hereby agree(s) to execute all papers necessary to file said applications in the United States and elsewhere throughout the world, and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing any and all Letters Patent thereon.

AND said ASSIGNOR(S) authorize(s) and request(s) the Commissioner of Patents to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

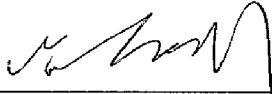
By:


Inventor's Name: **LEE, Sun Kyu**
(sole or first inventor)

Nov 17/2012
Date

ASSIGNMENT

By:



Inventor's Name: NAM, Sung Ki
(second inventor)

7 / Nov / 2012

Date

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By: Su Heon
Inventor's Name: **JEONG, Su Heon**
(third inventor)

7/Nov. 2012
Date

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By: Jung Kyun
Inventor's Name: **KIM, Jung Kyun**
(fourth inventor)

7/Nov. 2012
Date

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Attorney Docket No.: 32513U

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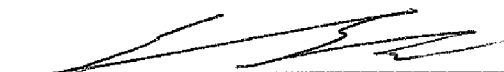
By: WOO DO KYUN 7 November, 2012
Inventor's Name: **WOO, Do Kyun** Date
(fifth inventor)

PATENT

REEL: 029297 FRAME: 0740

ASSIGNMENT

By:



Inventor's Name: **YANG, Sung**
(sixth inventor)

7/Nov. 2012
Date