

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jin Woo KIM</td> <td>07/28/2009</td> </tr> <tr> <td>Jae Chan PARK</td> <td>07/28/2009</td> </tr> <tr> <td>Hwa Young CHO</td> <td>07/28/2009</td> </tr> <tr> <td>Jun Seok KIM</td> <td>07/20/2009</td> </tr> </tbody> </table>		Name	Execution Date	Jin Woo KIM	07/28/2009	Jae Chan PARK	07/28/2009	Hwa Young CHO	07/28/2009	Jun Seok KIM	07/20/2009
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>SAMSUNG ELECTRONICS CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>416 Maetan-dong Yeongtong-gu, Gyeonggi-do</td> </tr> <tr> <td>City:</td> <td>Suwon-si</td> </tr> <tr> <td>State/Country:</td> <td>REPUBLIC OF KOREA</td> </tr> </table>		Name:	SAMSUNG ELECTRONICS CO., LTD.	Street Address:	416 Maetan-dong Yeongtong-gu, Gyeonggi-do	City:	Suwon-si	State/Country:	REPUBLIC OF KOREA		
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CORRESPONDENCE DATA											
<p>Fax Number: (860)286-0115 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 860-286-2929 Email: slovefoxworth@cantorcolburn.com</p> <p>Correspondent Name: CANTOR COLBURN, LLP Address Line 1: 20 Church Street Address Line 2: 22nd Floor Address Line 4: Hartford, CONNECTICUT 06103</p>											
ATTORNEY DOCKET NUMBER:	HCP-0003										
NAME OF SUBMITTER:	Donald K. Drummond										
<p>Total Attachments: 2 source=ExecutedAssignment#page1.tif</p>											

CH \$40.00 12538538

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PATENT
REEL: 023073 FRAME: 0313

ASSIGNMENT

WHEREAS We, **KIM, Jin Woo** of 2714-1704, DongnamApt., Baeksong Maeul, 571-4, Sang-dong, Wonmi-gu, Bucheon-si, Gyeonggi-do, Republic of Korea; **PARK, Jae Chan** of 104-1101, LG XI Apt., Jukhyeon Maeul, Bojeong-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea; **CHO, Hwa Young** of 225-2804, Sibeom Hanbit Maeul Dongtan I-Park Apt., Bansong-dong, Hwaseong-si, Gyeonggi-do, Republic of Korea; and **KIM, Jun Seok** of Kyeonggi Univ, lui-dong 94-6, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (hereinafter referred to as "ASSIGNORS"); have invented certain new and useful improvements in:

METHOD AND APPARATUS FOR FRACTIONATING LIGNOCELLULOSE-BASED BIOMASS

which claims priority to **Korea** Application No. 10-2008-0106618, filed on October 29, 2008, Application No. 10-2009-0060397, filed on July 2, 2009, and for which We are about to file an application for Letters Patent of the United States;


AND WHEREAS, **SAMSUNG ELECTRONICS CO., LTD.** (hereinafter referred to as "ASSIGNEE"), a corporation organized and existing under the laws of the Country of **Korea**, having a place of business at **416 Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea**, is desirous of acquiring an interest in the United States and all foreign countries, in and to the said invention and Letters Patent to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, the receipt of which is hereby acknowledged, We, the said ASSIGNORS have assigned and transferred, and hereby assign and transfer unto the said ASSIGNEE, the entire right, title and interest in and to said invention in the United States and in all foreign countries, including priority rights, as fully set forth and described in said application; and We do hereby authorize and request the Commissioner of Patents to issue said Letters Patent on said application, and any and all Letters Patent that may be issued upon any and all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, to the said ASSIGNEE, an assignee of the entire right, title and interest in and to the same, for

the sole use and behoof of ASSIGNEE, its successors and assigns; and We do hereby agree that the said ASSIGNEE, may apply for foreign Letters Patent on said invention and that We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the said ASSIGNEE, its successors or assigns, and that We will, at the cost and expense of the said ASSIGNEE fully assist and cooperate in all matters in connection with the United States and foreign applications and patents issuing thereon.

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 28 - July - 2009



KIM, Jin Woo L.S.

Date: July 28, 2009




PARK, Jae Chan L.S.

Date: July 28. 2009



CHO, Hwa Young L.S.

Date: _____



KIM, Jun Seok L.S. 20-July-2009