

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>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Si-Jae PARK</td> <td>03/12/2010</td> </tr> <tr> <td>Sang-Hyun LEE</td> <td>03/12/2010</td> </tr> <tr> <td>Eun-Jeong LEE</td> <td>03/12/2010</td> </tr> </tbody> </table>		Name	Execution Date	Si-Jae PARK	03/12/2010	Sang-Hyun LEE	03/12/2010	Eun-Jeong LEE	03/12/2010
Name	Execution Date								
Si-Jae PARK	03/12/2010								
Sang-Hyun LEE	03/12/2010								
Eun-Jeong LEE	03/12/2010								
RECEIVING PARTY DATA									
Name:	LG Chem, Ltd.								
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State/Country:	REPUBLIC OF KOREA								
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City:	Yuseong-gu, Daejeon								
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Postal Code:	305-701								
PROPERTY NUMBERS Total: 1									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12676840</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12676840				
Property Type	Number								
Application Number:	12676840								
CORRESPONDENCE DATA									
Fax Number:	(202)496-7756								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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CH \$40.00 12676840

ATTORNEY DOCKET NUMBER:	29137.584.00
NAME OF SUBMITTER:	Matthew T. Bailey
Total Attachments: 2 source=584_Assignment#page1.tif source=584_Assignment#page2.tif	

Assignment of Application

WHEREAS, I (WE) **PARK, Si-Jae, LEE, Sang-Hyun, Lee Sang-Yup, LEE, Eun-Jeong**, respectively, have invented certain new and useful improvements in:

MUTANTS HAVING CAPABILITY TO PRODUCE 1,4-BUTANEDIOL AND METHOD FOR PREPARING 1,4-BUTANEDIOL USING THE SAME

- for which an application for a Letters Patent was executed on _____
- for which an application for a Letters Patent was filed on March 05, 2010 as Application No. 12/676,840

WHEREAS, **LG CHEM, LTD., KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY**

(hereinafter referred to as "ASSIGNEE") having a place of business at: 20, Yoido-dong, Youngdungpo-gu, Seoul, Republic of Korea 150-721, 373-1, Guseong-dong, Yuseong-gu, Daejeon 305-701, Republic of Korea

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

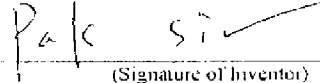
I (WE) hereby authorize and request the Patent Office Officials in the United States and Its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of McKenna Long & Aldridge LLP, Attorneys at Law, 1900 K Street, N.W., Washington, D.C. 20006 the power to insert on

this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: March 12, 2010



(Signature of Inventor)

PARK, Si-Jae

Date: March 12, 2010



(Signature of Inventor)

LEE, Sang-Hyun

Date: March 12, 2010



(Signature of Inventor)

LEE, Sang-Yup

Date: March 12, 2010



(Signature of Inventor)

LEE, Eun-Jeong

McKenna Long & Aldridge LLP
Attorneys At Law
1900 K Street, N.W.
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