

ASSIGNMENT OF UTILITY APPLICATION	former PTO/SB/15 (B-00) Modified LDLK&M Docket Number (Optional) LGCHEM 3.0-016
<p>Whereas, I, <u>CHOI, Jun-seon</u> of <u>202-602 Expo Apt., Jeonmin-dong, Yuseong-gu, Daejeon 305-761 Republic of Korea</u> hereafter referred to as assignor, have with others invented certain new and useful Improvements in <u>THERMAL-CRACKING METHOD OF HYDROCARBON</u></p> <p><input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>July 2, 2008</u> Application Number <u>12/217,246</u></p> <p><input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____</p> <p><input type="checkbox"/> for which an International Application was filed on _____, as _____, designating the United States.</p>	
<p>And</p> <p>Whereas, <u>LG Chem, Ltd.</u> a corporation of <u>Korea, Republic of</u> herein referred to as "assignee" whose mailing address is <u>20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 Republic of Korea</u> is desirous of acquiring the entire right, title and interest in the same;</p>	
<p>NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.</p>	
<p>And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.</p>	
<p><u>June 26, 2008</u> Date</p> <p><u>[Signature]</u> Witness</p> <p><u>LEE, Hyun-jung</u> Typed Name of Witness</p>	<p><u>[Signature]</u> CHOI, Jun-seon</p>
<p><input checked="" type="checkbox"/> *Total of <u>4</u> forms are submitted.</p>	

former PTO/SB/15 (8-00) Modified LDLK&M

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

LGCHEM 3.0-016

Whereas, I, PARK, Byoung-gi of 2-307 LG Petrochemical Sataek, Soho-dong, Yeosu-si, Jeollanam-do 555-060 Republic of Korea

hereafter referred to as assignor, have with others invented certain new and useful improvements in THERMAL-CRACKING METHOD OF HYDROCARBON

for which an application for a United States Letters Patent was filed on July 2, 2008
Application Number 12/217,246

for which an application for a United States Letters Patent was executed by me on _____

for which an International Application was filed on _____, as

_____ , designating the United States.

And

Whereas, LG Chem, Ltd.
a corporation of Korea, Republic of herein referred to as "assignee" whose mailing address is

20, Yoldo-dong, Youngdungpo-gu, Seoul 150-721 Republic of Korea
is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said Improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said Improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

6/26/2008
Date

[Signature]
PARK, Byoung-gi

[Signature]
Witness

LEE, Hyun-jung
Typed Name of Witness

*Total of 4 forms are submitted.

former PTO/SB/15 (8-00) Modified LDLK&M

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

LGCHEM 3.0-016

Whereas, I, KIM, Jin-do of 108-201 Nuri Apt., Wolpyeong-dong Seo-gu Daejeon 302-280 Republic of Korea

hereafter referred to as assignor, have with others invented certain new and useful improvements in THERMAL-CRACKING METHOD OF HYDROCARBON

for which an application for a United States Letters Patent was filed on July 2, 2008
Application Number 12/217,246

for which an application for a United States Letters Patent was executed by me on _____

for which an International Application was filed on _____, as

_____ , designating the United States.

And

Whereas, LG Chem, Ltd.

a corporation of Korea, Republic of herein referred to as "assignee" whose mailing address is

20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 Republic of Korea

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

06/27/08
Date

Kim Jin-do
KIM, Jin-do

[Signature]
Witness

LEE, Hyun-jung
Typed Name of Witness

*Total of 4 forms are submitted.

former PTO/SB/15 (8-00) Modified LDLK&M

ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

LGCHEM 3.0-016

Whereas, I, RYU, Hyune-jung of 5-205 LG Petrochemical Sataek, Soho-dong, Yeosu-si, Jeollanam-do 555-060 Republic of Korea

hereafter referred to as assignor, have with others invented certain new and useful improvements in

THERMAL-CRACKING METHOD OF HYDROCARBON

for which an application for a United States Letters Patent was filed on July 2, 2008

Application Number 12/217,246

for which an application for a United States Letters Patent was executed by me on _____

for which an International Application was filed on _____, as

_____ , designating the United States.

And

Whereas, LG Chem, Ltd. a corporation of Korea, Republic of herein referred to as "assignee" whose mailing address is

20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 Republic of Korea

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

06/29/08
Date

RYU Hyune-jung
RYU, Hyune-jung

[Signature]
Witness

LEE, Hyun-jung
Typed Name of Witness

*Total of 4 forms are submitted.