

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5451556

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|---|------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT               |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                   |
| <b>CONVEYING PARTY DATA</b>   |                              |
| <b>Name</b>   | <b>Execution Date</b>        |
| HEE YOUNG KIM   | 03/26/2019                   |
| MIN JAE SHIN  | 03/26/2019                   |
| TAE JIN KIM   | 03/26/2019                   |
| SEUNG WOONG YOON  | 03/26/2019                   |
| <b>RECEIVING PARTY DATA</b>   |                              |
| <b>Name:</b>  | LOTTE CHEMICAL CORPORATION   |
| <b>Street Address:</b>  | 300, OLYMPIC-RO, SONGPA-GU   |
| <b>City:</b>  | SEOUL                        |
| <b>State/Country:</b>   | KOREA, REPUBLIC OF           |
| <b>Postal Code:</b>   | 05551                        |
| <b>PROPERTY NUMBERS Total: 1</b>  |                              |
| <b>Property Type</b>  | <b>Number</b>                |
| <b>Application Number:</b>  | 16335146                     |
| <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> |                              |
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| <b>ATTORNEY DOCKET NUMBER:</b>  | 18756/003001                 |
| <b>NAME OF SUBMITTER:</b>   | EMMA BLAUSER                 |
| <b>SIGNATURE:</b>   | /Jeffrey S. Bergman/         |
| <b>DATE SIGNED:</b>   | 03/29/2019                   |
| <b>Total Attachments: 3</b>   |                              |
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| source=18756003001_assn#page2.tif   |                              |
| source=18756003001_assn#page3.tif   |                              |

**DECLARATION AND ASSIGNMENT – WORLDWIDE**

Whereas, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") has/have invented:

The attached application to be filed as a United States application or PCT international application, or

United States application or PCT international application number 16/335,146 filed on March 20, 2019; and, entitled:

CATALYST SYSTEM FOR OLEFIN OLIGOMERIZATION AND METHOD FOR  
PREPARING OLEFIN OLIGOMER USING SAME

Regarding that application, each of the INVENTOR(S) declares the following:

- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the INVENTOR(S) hereby assign, transfer, and set over to:

LOTTE CHEMICAL CORPORATION

having the following address:

300, Olympic-ro, Songpa-gu  
Seoul, Korea 05551

(referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest, worldwide, in and to the invention described in the patent application identified above (referred to herein as "INVENTION"), together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all Letters Patent (domestic and foreign) that may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

- I. To sign and execute any further documents that may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;

# OSHA LIANG

Intellectual Property Law

- To execute all papers and documents and to perform all lawful acts that may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
- To perform all lawful affirmative acts that may be necessary to obtain the grant of valid and enforceable patents to COMPANY.

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA LIANG LLP the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

|                          |  |
|--------------------------|--|
| <u>3/26/2019</u><br>Date | 1 <sup>st</sup> Inventor Signature: <u>Hee Young Kim</u><br>Print or Type Name: <u>Hee Young Kim</u> |
| <u>3/26/2019</u><br>Date | 2 <sup>nd</sup> Inventor Signature: <u>Minjae Shin</u><br>Print or Type Name: <u>Min Jae Shin</u>    |
| <u>3/26/2019</u><br>Date | 3 <sup>rd</sup> Inventor Signature: <u>Tae Jin Kim</u><br>Print or Type Name: <u>Tae Jin Kim</u>     |
| <u>3/26/2019</u><br>Date | 4 <sup>th</sup> Inventor Signature: <u>S-w. Yoon</u><br>Print or Type Name: <u>Seung Woong Yoon</u>  |

This Assignment may be signed before either:  
(a) a Notary Public for one of the States of the United States, or (b) two witnesses who sign below:

|                      |   |
|----------------------|---|
| <b>NOTARY PUBLIC</b> | State of _____  |
|                      | County of _____   |
|                      | Before me personally appeared: _____<br><small>1<sup>st</sup> Inventor</small> _____ <small>2<sup>nd</sup> Inventor</small>                             |
|                      | _____ <small>3<sup>rd</sup> Inventor</small> _____ <small>4<sup>th</sup> Inventor</small>   |
|                      | each of whom acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment. |
|                      | Dated: _____<br><small>Notary Public</small> My commission expires: _____   |

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Intellectual Property Law

WITNESSES

3/26/2019  
Date

Signature of Witness: \_\_\_\_\_

Print or Type Name: \_\_\_\_\_

3/26/2019  
Date

Signature of Witness: \_\_\_\_\_

Print or Type Name: \_\_\_\_\_