

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GUI RYONG AHN	08/04/2017
SANG AH KIM	08/03/2017
JI HO KIM	08/03/2017
JOO HEE HAN	08/03/2017
GIL HO KIM	08/03/2017
WON IK LEE	08/04/2017
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15549759
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NAME OF SUBMITTER:	JONGWON KIM
SIGNATURE:	/jwkim/
DATE SIGNED:	08/09/2017
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 2

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COMBINED DECLARATION AND ASSIGNMENT (37 CFR 1.63)

As the below named inventor, I hereby declare that this Declaration is directed to:

**TITLE: GAS DISTRIBUTION UNIT FOR FLUIDIZED BED REACTOR SYSTEM,
FLUIDIZED BED REACTOR SYSTEM HAVING THE GAS
DISTRIBUTION UNIT, AND METHOD FOR PREPARING GRANULAR
POLYCRYSTALLINE SILICON USING THE FLUIDIZED BED
REACTOR SYSTEM**

the specification of which: (complete (a), (b) or (c))

(a) [] is attached hereto.

(b) [] was filed in the U.S. Patent & Trademark Office on _____ and assigned Serial No.: _____
and was amended on _____ (if applicable).

(c) [X] was described and claimed in PCT International Application No. **PCT/KR2016/002990** filed on **March 24, 2016** and as amended under PCT Article on _____ (if any).

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.

WHEREAS,

ASSIGNEE: HANWHA CHEMICAL CORPORATION

ADDRESS: 86, Cheonggyecheon-ro, Jung-gu, Seoul 04541, 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, 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 (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) 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 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 entire right, title and interest in and to the same, for the sole use and behoof 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 had this Assignment and sale not been made.

Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me 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.

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.

Address all correspondence and telephone calls to LEX IP MEISTER, PLLC., 5180 Parkstone Drive, Suite 175, Chantilly, Virginia 20151; Telephone: (703) 263-9390; Fax: (703) 263-9361, Customer No. 66390.

FIRST INVENTOR: Gui Ryong AHN

Signature: Gui Ryong AHN Date: 2017.8.4

SECOND INVENTOR: Sang ah KIM

Signature: [Handwritten Signature] Date: 2017.8.3

THIRD INVENTOR: Ji Ho KIM

Signature: [Handwritten Signature] Date: 2017.8.3

FOURTH INVENTOR: Joo Hee HAN

Signature: [Handwritten Signature] Date: 2017.8.3

FIFTH INVENTOR: Gi Ho KIM

Signature: [Handwritten Signature] Date: 2017.8.3

SIXTH INVENTOR: Won Ik LEE

Signature: [Handwritten Signature] Date: 2017.8.4