

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SANG YUP LEE	07/20/2020
JAE SUNG CHO	07/20/2020
JE WOONG KIM	07/20/2020
YOO SUNG KO	07/20/2020
CINDY PRICILIA SURYA PRABOWO	07/20/2020
TAEHEE HAN	07/20/2020
EUIDUK KIM	07/20/2020
JAE WON CHOI	07/17/2020
CHANGHEE CHO	07/17/2020
JUN KYU LEE	07/17/2020

RECEIVING PARTY DATA

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City:	DAEJEON
State/Country:	KOREA, REPUBLIC OF
Postal Code:	34141
Name:	HANHWA SOLUTIONS CORPORATION
Street Address:	86, CHEONGGYECHEON-RO, JUNG-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	04541

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16962213

CORRESPONDENCE DATA

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PATENT

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ATTORNEY DOCKET NUMBER:	4240-525
NAME OF SUBMITTER:	STEVEN J. HULTQUIST
SIGNATURE:	/steven j. hultquist/
DATE SIGNED:	09/26/2020

Total Attachments: 2

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ASSIGNMENT

We, **SANG YUP LEE, JAE SUNG CHO, JE WOONG KIM, YOO SUNG KO, CINDY PRICILIA SURYA PRABOWO, TAEHEE HAN, EUIDUK KIM, JAE WON CHOL, CHANGHEE CHO, and JUN KYU LEE**, have made an invention the specification of which is described in the U.S. Patent Application No. 16/962,213 filed on July 14, 2020 under the provisions of 35 U.S.C. § 371, based on International Patent Application No. PCT/KR19/00571 filed on January 15, 2019, and entitled:

"VARIANT MICROORGANISM HAVING ABILITY TO PRODUCE 1,3-PROPANEDIOL, AND METHOD FOR PREPARING 1,3-PDO BY USING SAME"

We hereby assign to **KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY, 291, Daehak-ro, Yuseong-gu, Daejeon, 34141, Republic of Korea and HANHWA SOLUTIONS CORPORATION, 86, Cheonggyecheon-ro, Jung-gu, Seoul, 04541, Republic of Korea** all of our ownership and rights in:

- (i) the invention and U.S. Patent Application;
- (ii) non-provisional, continuing, divisional and continuation-in-part applications based on and claiming benefit and/or priority of said U.S. Patent Application; and
- (iii) U.S. Patents on the invention.

We are making this assignment based on our business relationship with **KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY** and **HANHWA SOLUTIONS CORPORATION**.

We respectfully request the Commissioner for Patents of the United States to issue patents on the invention to:

KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY and HANHWA SOLUTIONS CORPORATION

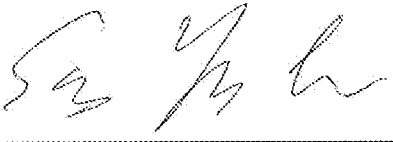
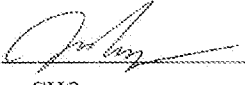
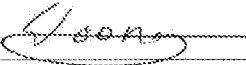

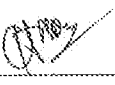
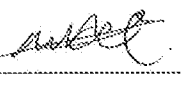

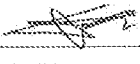
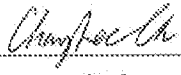
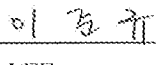
as co-owners of the invention and aforementioned patent rights.

We agree to execute any other legal documents that may be required to effectuate this Assignment.

We agree that we will promptly communicate to **KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY** and **HANHWA SOLUTIONS CORPORATION** all facts which come to our attention affecting the invention or patent rights.

We agree that we will testify in any interference or litigation involving the invention or patent rights.

We declare that we have not done anything in conflict with this Assignment.

	07/20/2020
Sang Yup LEE	Date (mm/dd/yyyy)
	07/20/2020
Jae Sung CHO	Date (mm/dd/yyyy)
	07/20/2020
Je Woong KIM	Date (mm/dd/yyyy)
	07/20/2020
Yoo Sung KO	Date (mm/dd/yyyy)
	07/20/2020
Cindy Pricilia Surya PRABOWO	Date (mm/dd/yyyy)
	07/20/2020
Taehee HAN	Date (mm/dd/yyyy)
	07/20/2020
Eniduk KIM	Date (mm/dd/yyyy)
	07/17/2020
Jae Won CHOI	Date (mm/dd/yyyy)
	07/17/2020
Changhee CHO	Date (mm/dd/yyyy)
	07/17/2020
Jun Kyu LEE	Date (mm/dd/yyyy)