

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5420777

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	DOH KWON LEE	02/23/2018
	IN HO KIM	02/23/2018
	WON MOK KIM	02/23/2018
	JONG KEUK PARK	02/23/2018
	TAEK SUNG LEE	01/08/2019
	DOO SEOK JEONG	02/23/2018
	HYEON SEUNG LEE	02/23/2018
	JEUNG HYUN JEONG	01/10/2019
RECEIVING PARTY DATA		
Name:	KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY	
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City:	SEOUL	
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PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16333252
CORRESPONDENCE DATA		
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<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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Address Line 1:	1101 14TH ST., N.W., SUITE 500	
Address Line 4:	WASHINGTON, D.C. 20005	
ATTORNEY DOCKET NUMBER:	TNIP-120NP (KIST)	
NAME OF SUBMITTER:	STEVEN M. RABIN	
SIGNATURE:	/Steven M. Rabin/	

DATE SIGNED:	03/14/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 3 source=TNIP-120NP-KIST-Combined-AsgnDec#page1.tif source=TNIP-120NP-KIST-Combined-AsgnDec#page2.tif source=TNIP-120NP-KIST-Combined-AsgnDec#page3.tif	

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS LEE, Doh Kwon; KIM, In Ho; KIM, Won Mok; PARK, Jong Keuk; LEE, Taek Sung; JEONG, Doo Seok; LEE, Hyeon Seung and JEONG, Jeung Hyun of Republic of Korea hereinafter referred to collectively as the assignor and inventor, has invented a certain improvement relating to

**METHOD OF TEXTURING SEMICONDUCTOR SUBSTRATE, SEMICONDUCTOR
SUBSTRATE MANUFACTURED USING THE METHOD, AND SOLAR CELL INCLUDING
THE SEMICONDUCTOR SUBSTRATE**

☒ said application being attached hereto;

☐ said application having been filed in the United States Patent and Trademark Office on

_____, as Application Serial No. _____, and was amended on _____.

(if applicable);

☐ the specification of which was filed under the Patent Cooperation Treaty on November 1, 2017.

Serial No. PCT/KR2017/012212 United States of America being designated.

AND WHEREAS KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY of Seoul, Republic of Korea; hereinafter referred to as the assignee or applicant, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

As an above-named inventor, I hereby declare that the above-identified application was made or authorized to be made by me, and 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.

Address all correspondence and telephone calls to Rabin & Berdo, P.C., 1101 14th Street, N.W., Suite 500, Washington, D.C. 20005, Telephone: (202) 371-8976; Fax: (202) 408-0924, Customer No. 23995.

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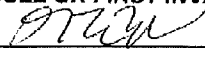
WITNESS:

Signature: 

Name: **CHO, Eunkyung**

Address: Mstate A-1201, Beobwon-ro 114, Songpa-gu
Seoul, 05854, Republic of Korea

ASSIGNOR (SOLE OR FIRST INVENTOR):

Signature: 

Legal Name: **LEE, Doh Kwon**

Date: **Feb. 23. 2018**

WITNESS:

Signature: 

Name: **CHO, Eunkyung**

Address: Mstate A-1201, Beobwon-ro 114, Songpa-gu
Seoul, 05854, Republic of Korea

ASSIGNOR (SECOND INVENTOR):

Signature: 

Legal Name: **KIM, In Ho**

Date: **Feb. 23. 2018**

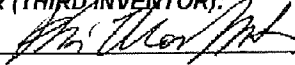
WITNESS:

Signature: 

Name: **CHO, Eunkyung**

Address: Mstate A-1201, Beobwon-ro 114, Songpa-gu
Seoul, 05854, Republic of Korea

ASSIGNOR (THIRD INVENTOR):

Signature: 

Legal Name: **KIM, Won Mok**

Date: **Feb. 23. 2018**

WITNESS:

Signature: 

Name: **CHO, Eunkyung**

Address: Mstate A-1201, Beobwon-ro 114, Songpa-gu
Seoul, 05854, Republic of Korea


ASSIGNOR (FOURTH INVENTOR):

Signature: 

Legal Name: **PARK, Jong Keuk**

Date: **Feb. 23. 2018**

WITNESS:

Signature: 

Name: **CHO, Eunkyung**

Address: Mstate A-1201, Beobwon-ro 114, Songpa-gu
Seoul, 05854, Republic of Korea

ASSIGNOR (FIFTH INVENTOR):

Signature: 


Legal Name: **LEE, Taek Sung**

Date: **Feb. 23. 2018**


Continued – Page 3

ASSIGNMENT OF AND DECLARATION FOR APPLICATION FOR UNITED STATES LETTERS PATENT


WITNESS:

Signature: 
Name: CHO, Eunkyung
Address: Mstate A-1201, Beobwon-ro 114, Songpa-gu
Seoul, 05854, Republic of Korea

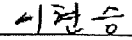
ASSIGNOR (SIXTH INVENTOR):

Signature: 
Legal Name: JEONG, Doo Seok
Date: Feb 23 2018


WITNESS:

Signature: 
Name: CHO, Eunkyung
Address: Mstate A-1201, Beobwon-ro 114, Songpa-gu
Seoul, 05854, Republic of Korea

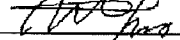
ASSIGNOR (SEVENTH INVENTOR):

Signature: 
Legal Name: LEE, Hyeon Seung
Date: Feb 23, 2018

WITNESS:

Signature: 
Name: CHO, Eunkyung
Address: Mstate A-1201, Beobwon-ro 114, Songpa-gu
Seoul, 05854, Republic of Korea

ASSIGNOR (EIGHTH INVENTOR):

Signature: 
Legal Name: JEONG, Jeung Hyun
Date: Jan 10, 2019

RABIN & BERDO, P.C., Washington, D.C.