11/12/2019 505768857

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5815673

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHANGGU LEE	11/08/2019
YOUNGCHAN KIM	11/08/2019
HUNYOUNG BARK	11/04/2019

RECEIVING PARTY DATA

Name:	RESEARCH & BUSINESS FOUNDATION SUNGKYUNKWAN UNIVERSITY	
Street Address:	2066, SEOBU-RO, JANGAN-GU, GYEONGGI-DO	
City:	SUWON-SI	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	16419	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16681057

CORRESPONDENCE DATA

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NSIP LAW Correspondent Name:

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ATTORNEY DOCKET NUMBER:	042155.0046
NAME OF SUBMITTER:	WALE T. GODO
SIGNATURE:	/Wale T. Godo/
DATE SIGNED:	11/12/2019

Total Attachments: 4

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PATENT REEL: 050982 FRAME: 0934 505768857

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

DECLARATION

As a below-named inventor, I hereby declare that this declaration is directed to the application attached he or to United States Application Number or PCT International Application Number		
filed on (if applicable), entitled:		
DOPED METAL-CHALCOGENIDE THIN FILM AND METHOD OF MANUFACTURING THE SAMI		
The above-identified application was made or authorized to be made by me.		
I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.		
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.		
I have reviewed and understand the contents of the above-identified application, including the claims.		
I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filling date of the continuation-in-part application.		
ASSIGNMENT		
For valuable consideration, I, as a below-named assignor, hereby assign to:		
Research & Business Foundation Sungkyunkwan University 2066, Seobu-ro, Jangan-gu Suwon-si, Gyeonggi-do 16419 Republic of Korea		
and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and		
interest throughout the world in the inventions and improvements that are the subject of the application		
identified in the above declaration, which is United States Application Number or PCT International Application		
Number 16/681,057 filed on November 12, 2019 .		
I authorize and request the attorneys appointed in the above-identified application to hereafter complete this Assignment by inserting above the application number and the filing date of the above-identified application when known, and to correct any typographical errors that may be discovered in this Assignment.		
This Assignment includes the above-identified application, any and all United States and foreign patents, utility models, and design registrations granted for any of the inventions and improvements that are the subject of the above-identified application, and the right to claim priority based on the filing date of the above-identified application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations, like rights of exclusion, and inventors' certificates for any of the inventions and improvements		

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that are the subject of the above-identified application; and I agree for myself and my heirs, legal representatives, and assigns without further compensation to perform such lawful acts and to sign such further applications, Assignments, preliminary statements, and other lawful documents as the Assignee may

reasonably request to effectuate fully this Assignment.

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

In witness whereof, I, as a below-named inventor and assignor, intending to be legally bound, have hereunto affixed my signature on the date indicated below next to my signature.

Inventor's Legal Name	Changgu LEE	
Inventor's Signature	Date Nov. 08.2-019.	
Residence (City, Country)	Seoul, Republic of Korea	
Mailing Address	104-1203, 164, Gosanja-ro, Seongdong-gu, Seoul, 04746, Republic of Korea	

Inventor's Legal Name	Youngchan KIM	
Inventor's Signature	Date Nov. 08, 2019	
Residence (City, Country)	Bucheon-si, Republic of Korea	
Mailing Address	238-9, Sosa-ro, Bucheon-si, Gyeonggi-do, 14694, Republic of Korea	

Inventor's Legal Name	Hunyoung BARK		
Inventor's Signature		Date	
Residence (City, Country)	Suwon-si, Republic of Korea	*	······
Mailing Address	401, 33, Seobu-ro 2135beon-gil, Jangan-gu, Suwon-si, Gyeonggi-do, 16360, Republic of Korea		

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

DECLARATION

DECLARATION
As a below-named inventor, I hereby declare that this declaration is directed to the application attached hereto,
or to United States Application Number or PCT International Application Number
filed on(if applicable), entitled:
DOPED METAL-CHALCOGENIDE THIN FILM AND METHOD OF MANUFACTURING THE SAME
The above-identified application was made or authorized to be made by me.
I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.
I have reviewed and understand the contents of the above-identified application, including the claims.
I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.
ASSIGNMENT
For valuable consideration, I, as a below-named assignor, hereby assign to:
Research & Business Foundation Sungkyunkwan University 2066, Seobu-ro, Jangan-gu Suwon-si, Gyeonggi-do 16419 Republic of Korea
and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and
interest throughout the world in the inventions and improvements that are the subject of the application
identified in the above declaration, which is United States Application Number or PCT International Application
Number 16/681,057 filed on November 12, 2019 .
I authorize and request the attorneys appointed in the above-identified application to hereafter complete this Assignment by inserting above the application number and the filing date of the above-identified application when known, and to correct any typographical errors that may be discovered in this Assignment.
This Assignment includes the above-identified application, any and all United States and foreign patents, utility models, and design registrations granted for any of the inventions and improvements that are the subject of the above-identified application, and the right to claim priority based on the filing date of the above-identified application.

This Assignment includes the above-identified application, any and all United States and foreign patents, utility models, and design registrations granted for any of the inventions and improvements that are the subject of the above-identified application, and the right to claim priority based on the filing date of the above-identified application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations, like rights of exclusion, and inventors' certificates for any of the inventions and improvements that are the subject of the above-identified application; and I agree for myself and my heirs, legal representatives, and assigns without further compensation to perform such lawful acts and to sign such further applications, Assignments, preliminary statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

042155.0046

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

In witness whereof, I, as a below-named inventor and assignor, intending to be legally bound, have hereunto affixed my signature on the date indicated below next to my signature.

Inventor's Legal Name	Changgu LEE	
Inventor's Signature	Date	
Residence (City, Country)	Seoul, Republic of Kores	
Mailing Address	104-1203, 164, Gosanja-ro, Seongdong-gu, Seoul. 04746, Republic of Korea	

Inventor's Legal Name	Youngchan KIM	
Inventor's Signature	Date	
Residence (City, Country)	Bucheon-si, Republic of Korea	
Mailing Address	238-9, Sosa-m, Burheon-si, Gyeonggi-do, 14694, Republic of Korea	

	Inventor's Legal Name	Hunyoung BARK		
***************************************	Inventor's Signature	박훈생	Date	Nov 4, 2019
	Residence (City, Country)	Suwon-si, Republic of Korea		
	Mailing Address	401, 33, Seobu-ro 2155beon-gil, Jangan-gu, Suwon-si, Gyeonggi-do, 16360, Republic of Koree		

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