#### 504995155 07/09/2018

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
BEOP-MIN KIM	07/06/2018
HYUNG-JIN KIM	07/06/2018
BYEONG-JOO SONG	07/06/2018

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### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16030612

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DATE SIGNED:	07/09/2018

**Total Attachments: 2** 

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**PATENT** REEL: 046298 FRAME: 0537 504995155

### **COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)**

	DECL	ARATION
As a below-named inventor	, I hereby declare that this	s declaration is directed to the application attached hereto,
or to United States Applica	tion Number or PCT Interr	national Application Number
	filed on	(if applicable), entitled:
DUAL BEAM OPTICAL		GRAPHY WITH SIMULTANEOUS ORTHOGONAL
The above-identified applic	ation was made or author	ized to be made by me.
I believe I am the original in application.	iventor or an original joint	inventor of a claimed invention in the above-identified
I hereby acknowledge that 1001 by fine or imprisonme		made in this declaration is punishable under 18 USC i) years, or both.
I have reviewed and under	stand the contents of the a	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.		
	ASSI	GNMENT
For valuable consideration,	I, as a below-named assi	gnor, hereby assign to:
KOREA UNIVERSITY RESEARCH AND BUSINESS FOUNDATION 145, Anam-ro, Seongbuk-gu Seoul 02841 Republic of Korea		
and its successors and ass	igns (collectively hereinaf	ter called "the Assignee"), the entire right, title, and
interest throughout the wor	ld in the inventions and in	provements that are the subject of the application
identified in the above declaration, which is United States Application Number or PCT International Application Number $\underline{16/030,612}$ filed on $\underline{July~9,~2018}$		
Assignment by inserting ab	ove the application numb	e above-identified application to hereafter complete this er and the filing date of the above-identified application that may be discovered in this Assignment.
utility models, and design r subject of the above-identif identified application under Cooperation Treaty, the Eu	egistrations granted for ar ied application, and the riq the International Convent ropean Patent Convention	ation, any and all United States and foreign patents, by of the inventions and improvements that are the ght to claim priority based on the filing date of the abovetion for the Protection of Industrial Property, the Patent on, and all other treaties of like purposes; and I authorize in its own name for patents, utility models, design

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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.

# 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	Beop-Min KIM	
Inventor's Signature	2018, 07.06	
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Inventor's Legal Name	Hyung-Jin KIM
inventor's Signature	Deta 2018, 07, 06
Residence (City, Country)	Seoul, Republic of Korsa
Mailing Adoress	48, Wausan-ro, Mapo-gu, Seoul 04068, Republic of Korea

	Inventor's Legal Name	Byeong-Joo SONG	
	inventor's Signature	Date 248 97 8	
-	Residence (City, Country)	Seoul, Republic of Korea	
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**RECORDED: 07/09/2018**