

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5804030

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	WEIMING LI	10/28/2019
	HYONG EUK LEE	10/29/2019
	HAO WANG	10/28/2019
	SEUNGIN PARK	10/29/2019
	QIANG WANG	10/28/2019
	YANG LIU	10/28/2019
	YUEYING KAO	10/28/2019
RECEIVING PARTY DATA		
Name:	SAMSUNG ELECTRONICS CO., LTD.	
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU, GYEONGGI-DO	
City:	SUWON-SI	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	16677	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16674139
CORRESPONDENCE DATA		
Fax Number:	(202)315-3758	
<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>		
Phone:	202-429-0020	
Email:	pto@nsiplaw.com	
Correspondent Name:	NSIP LAW	
Address Line 1:	P.O. BOX 65745	
Address Line 4:	WASHINGTON, D.C. 20035	
ATTORNEY DOCKET NUMBER:	012052.1763	
NAME OF SUBMITTER:	S. MAHMOOD AHMAD	
SIGNATURE:	/S. Mahmood Ahmad/	
DATE SIGNED:	11/05/2019	

Total Attachments: 5

source=NewApp_0120521763_ExecutedCDAEPAS#page1.tif

source=NewApp_0120521763_ExecutedCDAEPAS#page2.tif

source=NewApp_0120521763_ExecutedCDAEPAS#page3.tif

source=NewApp_0120521763_ExecutedCDAEPAS#page4.tif

source=NewApp_0120521763_ExecutedCDAEPAS#page5.tif

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 hereto, or to United States Application Number or PCT International Application Number _____ filed on _____ (if applicable), entitled:

METHOD AND APPARATUS FOR ALIGNING 3D MODEL

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:

Samsung Electronics Co., Ltd.
129, Samsung-ro, Yeongtong-gu
Suwon-si, Gyeonggi-do 16677
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 16/674,139 filed on November 5, 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 that are the subject of the above-

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

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

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	Weiming Li		
Inventor's Signature	<i>Weiming Li</i>	Date	Oct. 28, 2019
Residence (City, Country)	Beijing, People's Republic of China		
Mailing Address	18/F Sun Palace Building, No 12A, TaiYangGong, Middle Rd, Chaoyang District Beijing 100028, P.R.China		

Inventor's Legal Name	Hyong Euk LEE		
Inventor's Signature		Date	
Residence (City, Country)	Suwon-si, Republic of Korea		
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16678, Republic of Korea		

Inventor's Legal Name	Hao WANG		
Inventor's Signature	<i>Hao Wang</i>	Date	Oct. 28, 2019
Residence (City, Country)	Beijing, People's Republic of China		
Mailing Address	18/F Sun Palace Building, No.12A, TaiYangGong, Middle Rd, Chaoyang District Beijing 100028, P.R.China		

Inventor's Legal Name	Seungin PARK		
Inventor's Signature		Date	
Residence (City, Country)	Yongin-si, Republic of Korea		
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16678, Republic of Korea		

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

Inventor's Legal Name	Qiang WANG		
Inventor's Signature	<i>Qiang Wang</i>	Date	<i>Oct. 26, 2019</i>
Residence (City, Country)	Beijing, People's Republic of China		
Mailing Address	18/F Sun Palace Building, No.12A, TaiYangGong, Middle Rd, Chaoyang District Beijing 100028, P.R.China		

Inventor's Legal Name	Yang LIU		
Inventor's Signature	<i>Yang Liu</i>	Date	<i>Oct. 28, 2019</i>
Residence (City, Country)	Beijing, People's Republic of China		
Mailing Address	18/F Sun Palace Building, No.12A, TaiYangGong, Middle Rd, Chaoyang District Beijing 100028, P.R.China		

Inventor's Legal Name	Yueying KAO		
Inventor's Signature	<i>Yueying Kao</i>	Date	<i>Oct. 28, 2019</i>
Residence (City, Country)	Beijing, People's Republic of China		
Mailing Address	18/F Sun Palace Building, No.12A, TaiYangGong, Middle Rd, Chaoyang District Beijing 100028, P.R.China		

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 hereto, or to United States Application Number or PCT International Application Number _____ filed on _____ (if applicable), entitled:

METHOD AND APPARATUS FOR ALIGNING 3D MODEL

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:

Samsung Electronics Co., Ltd.
129, Samsung-ro, Yeongtong-gu
Suwon-si, Gyeonggi-do 16677
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 16/674,139 filed on November 5, 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 that are the subject of the above-

COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

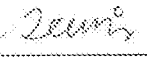
identified application; and I agree for myself and my heirs, legal representatives, and assigns without further compensation to perform such lawful acts and to sign such further applications, Assignments, preliminary statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

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	Weiming LI		
Inventor's Signature		Date	
Residence (City, Country)	Beijing, People's Republic of China		
Mailing Address	18/F Sun Palace Building, No.12A, TaiYangGong, Middle Rd, Chaoyang District Beijing 100028, P.R.China		

Inventor's Legal Name	Hyong Euk LEE		
Inventor's Signature		Date	19. 10. 29
Residence (City, Country)	Suwon-si, Republic of Korea		
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16678, Republic of Korea		

Inventor's Legal Name	Hao WANG		
Inventor's Signature		Date	
Residence (City, Country)	Beijing, People's Republic of China		
Mailing Address	18/F Sun Palace Building, No.12A, TaiYangGong, Middle Rd, Chaoyang District Beijing 100028, P.R.China		

Inventor's Legal Name	Seungin PARK		
Inventor's Signature		Date	19. 10. 29
Residence (City, Country)	Yongin-si, Republic of Korea		
Mailing Address	Samsung Advanced Institute of Technology, 130 Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16678, Republic of Korea		