505613202 08/08/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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SEUNG TAK RYU	07/02/2019
MIN JAE SEO	07/02/2019

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16535761

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SIGNATURE: /Wale T. Godo/

PATENT 505613202 REEL: 050003 FRAME: 0243

DATE SIGNED: 08/08/2019

Total Attachments: 2
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PATENT REEL: 050003 FRAME: 0244

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:
	ANALOG-TO-DIGITAL CONVERTER
The above-identified applica	ation was made or authorized to be made by me.
I believe I am the original in application.	ventor or an original joint inventor of a claimed invention in the above-identified
	any willful false statement made in this declaration is punishable under 18 USC 1001 not more than five (5) years, or both.
I have reviewed and unders	stand the contents of the above-identified application, including the claims.
to be material to patentabilit information that became available.	sclose to the United States Patent and Trademark Office all information known to me ty as defined in 37 CFR 1.56, including for continuation-in-part applications, material allable between the filing date of the prior application and the national or PCT e continuation-in-part application.
	ASSIGNMENT
For valuable consideration,	I, as a below-named assignor, hereby assign to:
Samsung Electronic 129, Samsung-ro, Y Suwon-si, Gyeongg Republic of Korea	reongtong-gu
Korea Advanced In: 291, Daehak-ro, Yu Daejeon 34141 Republic of Korea	stitute of Science and Technology iseong-gu
and its successors and assi	igns (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
	United States Application Number or PCT International Application Number filed onAugust 8, 2019
I authorize and request the Assignment by inserting abo known, and to correct any ty	attorneys appointed in the above-identified application to hereafter complete this ove the application number and the filing date of the above-identified application when ypographical errors that may be discovered in this Assignment.
	ne above-identified application, any and all United States and foreign patents, utility ations granted for any of the inventions and improvements that are the subject of the

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above-identified application, and the right to claim priority based on the filing date of the above-identified

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COMBINED DECLARATION AND ASSIGNMENT UNDER 37 CFR 1.63(e)

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.

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	JongPal KIM	
Inventor's Signature	11 70 Win Date June 71, 2019	
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Inventor's Legal Name	Min Jae SEO	
Inventor's Signature	4 0 24 Date July, 2, 2019.	
Residence (City, Country)	Daejeon, Republic of Korea	

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RECORDED: 08/08/2019

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