# 505373482 03/13/2019

# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

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YE DAM KIM	03/05/2019
SEUNG TAK RYU	03/05/2019
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#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16352501

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PATENT REEL: 048589 FRAME: 0582

505373482

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DATE SIGNED:	03/13/2019			
Total Attachments: 6				
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PATENT REEL: 048589 FRAME: 0583

	DECL.	ARATION				
As a below-named inventor, I hereby declar	e that this	s declaratio	n is directs	d to the a	pplication atta	ched hereto
or to United States Application Number or F	°CT Intern	national Ap	plication Nu	ımber		
filed on			(if	applicable	), entitled:	
ANALOG-TO-DIGITAL CONVERT ANALOG-TO-					OPERATIO	d AND
The above-identified application was made	or authori	ized to be i	nade by m	Э,		
I believe I am the original inventor or an original inventor original inventor or an original inventor or an original inventor original in	jinal joint	inventor of	a claimed	invention	in the above-i	dentified
I hereby acknowledge that any willful false a 1001 by line or imprisonment of not more the				ion is puni	shable under	18 USC
I have reviewed and understand the conten	ts of the a	above-iden	tified applic	ation, incl	uding the clair	ns.
I am aware of the duty to disclose to the Un me to be material to patentability as defined material information that became available PCT international filing date of the continua	I in 37 CF between t tion-in-pai	R 1.56, inc the filing da	duding for c te of the pr on.	ontinuatio	n-in-part appl	ications,
For valuable consideration, I, as a below-na	med assi	ignor, here	by assign to	3)		
Samsung Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do 16677 Republic of Korea						
Korea Advanced Institute of Scienc 291, Daehak-ro, Yuseong-gu, Daej Republic of Korea						
and its successors and assigns (collectively	/ hereinafi	ter called *	the Assigne	ee"), the e	ntire right, title	, and
interest throughout the world in the inventio	ns and im	nprovemen	ts that are t	he subjec	t of the applic	ation
identified in the above declaration, which is Number $\frac{16/352,501}{\text{file}}$					T Internationa	l Application
I authorize and request the attorneys appoil Assignment by inserting above the applicat when known, and to correct any typographi	nted in the	e above-id er and the	entified app filing date o	lication to	re-identified a	
This Assignment includes the above-identifutility models, and design registrations gran subject of the above-identified application,	ited for an	ny of the in	ventions an	d improve	ments that ar	e the

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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.

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	altow.	D	ate	March 6, 2019	
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Inventor's Signature		ľ	ate		
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Inventor's Legal Name	Min Jae SEO				
Inventor's Signature		Ε	ate		
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#### DECLARATION

· ·	ation Number or PCT Internat	
	filed on	(if applicable), entitled:
ANALOG-TO-DIG	ITAL CONVERTER (ADC) ANALOG-TO-DIGITAL (	WITH RESET SKIPPING OPERATION AND CONVERSION METHOD
The above-identified appl	ication was made or authorize	d to be made by me.
I believe I am the original application.	inventor or an original joint im	ventor of a claimed invention in the above-identified
	it any willful false statement m nent of not more than five (5) y	ade in this declaration is punishable under 18 USC rears, or both.
I have reviewed and unde	erstand the contents of the abo	ve-identified application, including the claims.
me to be material to pater material information that t	ntability as defined in 37 CFR	Patent and Trademark Office all information known to 1.56, including for continuation-in-part applications, filing date of the prior application and the national or application.
	ASSIGI	NMENT
For valuable consideratio	n, I, as a below-named assign	or, hereby assign to:
Samsung Electro 129, Samsung-ro Suwon-si, Gyeon Republic of Kores	, Yeongtong-gu ggi-do 16677	•
	Institute of Science and Techr Yuseong-gu, Daejeon, 34141, a	nology-
and its successors and as	ssigns (collectively hereinafter	called "the Assignee"), the entire right, title, and
interest throughout the wo	orld in the inventions and impr	ovements that are the subject of the application
identified in the above de	claration, which is United State	es Application Number or PCT International Application
		······································

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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.

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.

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Inventor's Legal Name	Dong Hwan JIN	•••••	
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