504702923 12/22/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
INSEOK STEPHEN CHOI	08/10/2016
YANG SEOK KI	08/10/2016
BYOUNG YOUNG AHN	08/10/2016

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15225811	

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ATTORNEY DOCKET NUMBER:	1535-255
NAME OF SUBMITTER: HOSOON LEE	
SIGNATURE:	/Hosoon Lee/
DATE SIGNED:	12/22/2017
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 4

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COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY OR DESIGN PATENT APPLICATION AND ASSIGNMENT FORM¹

The undersigned acknowledges that this document is being used both as an assignment of the invention and as the declaration (37 CFR 1.63) for a Utility or Design Application.

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

Title:	METHOD AND APPARATUS FOR STORAGE DEVICE LATENCY/BANDWIDTH SELF MONITORING
for wh	ich Assignor is about to make or has made United States or International application
for pat	ent. Inservati redala areotektoa žangina angeng object i dula
WHERE	EAS, as a below named inventor(s), I/(we) hereby declare that:
Section	n I. Declaration
This de	eclaration is directed to:
	The attached U.S. non-provisional patent application, or
	U.S. non-provisional patent application number, filed on, or
	PCT international patent application number, filed on
The ab	ove-identified application was made or authorized to be made by me (us).
	pelieve that I am (we are) the original inventor (original joint inventors) of a claimed ion in the above-identified application.
punish	nereby acknowledge that any willful false statement made in this declaration is able under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or
I hereb	1
applica	ition, including the claims.
1 This fo	orm requires the use of an Application Data Sheet.
SEC Ref	f No Attorney Ref No 1535-255

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
Page 1 of 4

I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

Section II. Assignment

In consideration of and according to the provisions of the Assignor's employment agreement(s), the undersigned hereby sell(s) and assign(s) to

Samsung Electronics Co., Ltd.

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having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 USC §100, in the invention or design described in the application identified in Section I of this document.

Assignor hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the inventions or designs as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights, and for copyright, in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, reexamination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

SEC Ref No.	WB-201604-012-1	Attorney Ref No. 1535-255	and their

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or other similar right to Assignee.

The undersigned hereby grant(s) the law firm of Renaissance IP Law Group LLP the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Section III. Inventor(s)/Assignor(s) Signature(s)

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
FIRST INVENTOR/ASSIGNOR	CHOI	Inseok Stephen	
			1
SIGNATURE &	Last - 1884 1	%	- 3/1=13=1 2
SIGNATORE &	Company Compan	19	

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
SECOND INVENTOR/ASSIGNOR	KI	Yang Seok	
SIGNATURE		DATE	11/0/2mg
			- Arministra

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SEC Ref No. WB-201604-012-1	Attorney Ref No.	1535-255	3

LEGAL NAME OF THIRD	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	AHN	Byoung Young	
	o L	DATE	
- SIGNATURE	/\ /\ /\ .		0/10/2016
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Page 4 of 4

PATENT REEL: 044474 FRAME: 0901

RECORDED: 12/22/2017