506335248 11/03/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6381999

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the NAME OF THE FIFTH ASSIGNNOR TO READ DONGGUK HAN previously recorded on Reel 054094 Frame 0663. Assignor(s) hereby confirms the SUNGIK JANG; KIHYUN KIM; SOOJIN ANN; CHUNGKI LEE; DONGGUK HAN TO SAMSUNG ELECTRONICS CO., LTD

CONVEYING PARTY DATA

Name	Execution Date
SUNGIK JANG	09/24/2020
KIHYUN KIM	10/13/2020
SOOJIN ANN	09/24/2020
CHUNGKI LEE	09/24/2020
DONGGUK HAN	09/24/2020

RECEIVING PARTY DATA

Name: SAMSUNG ELECTRONICS CO., LTD.	
Street Address: 129, SAMSUNG-RO, YEONGTONG-GU,	
City:	SUWON-SI, GYEONGGI-DO
State/Country: KOREA, REPUBLIC OF	
Postal Code:	16677

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	17073682	

CORRESPONDENCE DATA

Fax Number: (703)207-0003

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.

Phone: 703-207-0008

Email: eoa@lee-iplaw.com

Correspondent Name: LEE IP LAW, P.C.

Address Line 1: 3141 FAIRVIEW PARK DRIVE

Address Line 2: SUITE 500

Address Line 4: FALLS CHURCH, VIRGINIA 22042

ATTORNEY DOCKET NUMBER:	285/1192_00
NAME OF SUBMITTER:	EUGENE M. LEE
SIGNATURE:	/Eugene M. Lee/

PATENT 506335248 REEL: 054294 FRAME: 0720

DATE SIGNED:	11/03/2020			
Total Attachments: 8				
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source=Corrective_Assignment_Documents#page8.tif				

PATENT REEL: 054294 FRAME: 0721 10/20/2020 Assignment

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
	09/24/2020
KIHYUN KIM	10/13/2020
SOOJIN ANN	09/24/2020
CHUNGKI LEE	09/24/2020
DOGGUK HAN	09/24/2020

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.		
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU,		
City:	SUWON-SI, GYEONGGI-DO		
State/Country: KOREA, REPUBLIC OF			
Postal Code:	16677		

PROPERTY NUMBERS Total: 1

Property Type	Number	-
Application Number:	17073682	

CORRESPONDENCE DATA

Fax Number: (703)207-0003 Phone: 703-207-0008 **Email:** eoa@lee-iplaw.com

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.

LEE IP LAW, P.C. **Correspondent Name:**

Address Line 1: 3141 FAIRVIEW PARK DRIVE

REEL: 054294 FRAME: 0722

Address Line 2: SUITE 500 **Address Line 4:** FALLS CHURCH, VIRGINIA 22042 ATTORNEY DOCKET 285/1192 00 **NUMBER:** NAME OF SUBMITTER: EUGENE M. LEE /Eugene M. Lee/ Signature: 10/19/2020 Date: **Total Attachments: 4** source=Combined Decl and Assignment#page1.tif source=Combined Decl and Assignment#page2.tif source=Combined Decl and Assignment#page3.tif

RECEIPT INFORMATION

EPAS ID: PAT6356046 **Receipt Date:** 10/19/2020

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COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM $^{\rm 1}$

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: MEMORY DEVICE AND TEST METHOD THEREOF					
for which Assignor is about to make or has made United States or International application for patent.					
WHEREAS, as a below named inventor(s), I/(we) hereby declare that:					
Section I. Declaration					
This declaration is directed to the attached U.S. non-provisional patent application, unless the following is marked:					
U.S. non-provisional patent application number, filed on, or					
PCT international patent application number, filed on					
as amended by the Preliminary Amendment attached hereto.					
as amended by the Preliminary Amendment filed on					
The above-identified application was made or authorized to be made by me (us).					
I (we) believe that I am (we are) the original inventor (original joint inventors) of a claimed invention in the above-identified application.					
I (we) hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
I hereby state that I have reviewed and understand the contents of the above identified application, including the claims (as amended by any amendment referred to above).					
I acknowledge that I am aware of the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.					
This form requires the use of an Application Data Sheet.					
SEC Ref No. ID-202002-010-1-US0 Attorney Ref No. 285/1192_00					
COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND					

ASSIGNMENT FORM
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SAMSUNG ELECTRONICS CO., LTD.

Section II. Assignment

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned hereby sell(s) and assign(s) to

Samsung Electronics Co., Ltd.

having an address at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do16677, 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 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 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, re-examination, 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;

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

SEC Ref No.	ID-202002-010-1-US0	Attorney Ref No.	285/1192_00

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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SAMSUNG ELECTRONICS CO., LTD.

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 LEE IP LAW, P.C. 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 FIRST	3 100 03 100 100 100 100 100 100 100 100		Second Given Name	
	NVENTOR/ASSIGNOR	lang	Songik		
			.	\$	
		. 8			
nere e e e e e e e e e e e e e e e e e e	SIGNATURE		DATE	2020.9.24	

			Second Given Name
SECOND NVENTOR/ASSIGNOR		A S Kihyun	
			i
SIGNATURE	Jan Julian	DATE	2020,70,73

SEC Ref No	Attorney Ref No.	285/1192_00
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COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

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PATENT REEL: 054294 FRAME: 0726

SAMSUNG ELECTRONICS CO., LTD.

LEGAL NAME OF THIRD	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	Ann	Soojin	
			2020, 9,24
LEGAL NAME OF	***************************************		Second Given Name
FOURTH	¥ cox	Phone At	***************************************

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and the second second	INVENTOR/ASSIGNOR	Lee	Chungki	
	SIGNATURE	- Roo		20 a 24
and the second		~		

	LEGAL NAME OF	hamily Name	First Given Name	Second Given Name
}	INVENTOR/ASSIGNOR	lian	Dongguk	
	SIGNATURE		DATE	2020.924

SEC Ref No. ID-202002-010-1-US0 Attorney Ref No. 285/1192_00

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

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RECORDED: 11/03/2020

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