PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6612707

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JONG-HO MOON	02/08/2021
SUNG-HWAN JANG	02/08/2021

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:	17202466

CORRESPONDENCE DATA

Fax Number: (703)563-0600

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)757-7880

Email: pto@muirpatentlaw.com

Correspondent Name: MUIR PATENT LAW, PLLC

Address Line 1: P.O. BOX 1213

Address Line 4: GREAT FALLS, VIRGINIA 22066

ATTORNEY DOCKET NUMBER:	SAM-58271
NAME OF SUBMITTER:	SANG KI HWANG
SIGNATURE:	/Sang Ki Hwang/
DATE SIGNED:	03/21/2021

Total Attachments: 3

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PATENT 506565928 REEL: 055660 FRAME: 0771

COMBINED DECLARATION (37 CFR § 1.63) FOR UTILITY 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 individually and collectively as Assignor, has invented:

Title: MEMORY DEVICE INCLUDING BITLINE METHOD THEREOF	SENSE AMPLIFIER AND OP	ERATING
for which Assignor is about to make or has ma for patent.	de United States or Interna	tional application
WHEREAS, as a below named inventor(s), I/(w	e) hereby declare that:	
Section I. Declaration		
This declaration is directed to:		
The attached U.S. non-provision U.S. non-provisional patent app filed on PCT international patent application filed on □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	lication number, or stion number	
The above-identified application was made or	authorized to be made by r	me (us).
I (we) believe that I am (we are) the original invention in the above-identified application.	nventor (original joint inve	ntors) of a claimed
I (we) hereby acknowledge that any willful punishable under 18 U.S.C. § 1001 by fine or or both.		
I (we) hereby state that I (we) have reviewe identified application, including the claims.	d and understand the con	tents of the above
I (we) acknowledge that I (we) am (are) awar material to patentability as defined in 37 C.F.R	-	formation which is
1 This form requires the use of an Application Data She	et.	
SEC Ref No. ID-202004-008-1-US0	Attorney Ref No.	SAM-58271

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

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-do 16677, Republic of Korea (hereinafter designated as the Assignee), the entire (100%) right, title and interest for the United States as defined in 35 U.S.C. § 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, 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;

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.

SEC Ref No.	ID-202004-008-1-US0	Attorney Ref No.	SAM-58271
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The undersigned hereby grant(s) the law firm of Muir Patent Law, PLLC 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	MOON	JONG-HO	
			,
SIGNATURE	JONG-HO MOON	DATE	21.2.8

LEGAL NAME OF	Family Name	First Given Name	Second Given Name
SECOND INVENTOR/ASSIGNOR	JANG	SUNG-HWAN	
SIGNATURE	76Rode 3	是卷22/04183840 DATE	21.02.08

SEC Ref No.	ID-202004-008-1-US0	Attorney Ref No.	SAM-58271
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