

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6219174

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the FIRST INVENTOR'S NAME previously recorded on Reel 053090 Frame 0790. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNOR'S INTEREST.
CONVEYING PARTY DATA	
Name	Execution Date
HEEYOUL KWAK	06/10/2020
JAE HUN JANG	06/10/2020
HONG RAK SON	06/10/2020
DONG-MIN SHIN	06/10/2020
GEUNYEONG YU	06/10/2020
KANGSEOK LEE	06/10/2020
HYUNSEUNG HAN	06/11/2020
RECEIVING PARTY DATA	
Name:	SAMSUNG ELECTRONICS CO., LTD.
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU, GYEONGGI-DO
City:	SUWON-SI
State/Country:	KOREA, REPUBLIC OF
Postal Code:	16677
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16917101
CORRESPONDENCE DATA	
Fax Number:	(202)293-7860
<i>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.</i>	
Phone:	202-293-7060
Email:	msmircich@sughrue.com, sughrue@sughrue.com
Correspondent Name:	SUGHRUE MION, PLLC.
Address Line 1:	2000 PENNSYLVANIA AVE., NW.
Address Line 2:	8TH FLOOR
Address Line 4:	WASHINGTON, D.C. 20006
ATTORNEY DOCKET NUMBER:	Q254619
NAME OF SUBMITTER:	MATTHEW TYLER SMIRCICH-TEAMS

SIGNATURE:	/Matthew Tyler Smircich/
DATE SIGNED:	07/27/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 10 source=Q254619RCNORPacketasfiled#page1.tif source=Q254619RCNORPacketasfiled#page2.tif source=Q254619RCNORPacketasfiled#page3.tif source=Q254619RCNORPacketasfiled#page4.tif source=Q254619RCNORPacketasfiled#page5.tif source=Q254619RCNORPacketasfiled#page6.tif source=Q254619RCNORPacketasfiled#page7.tif source=Q254619RCNORPacketasfiled#page8.tif source=Q254619RCNORPacketasfiled#page9.tif source=Q254619RCNORPacketasfiled#page10.tif	



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JULY 1, 2020

PTAS

SUGHRUE MION, PLLC.
2000 PENNSYLVANIA AVE., NW.
8TH FLOOR
WASHINGTON, DC 20006

506132798

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 06/30/2020

REEL/FRAME: 053090/0790
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: Q254619

ASSIGNOR:

~~KWAK, HEE-YOUL~~ KWAK, HEEYOUL

DOC DATE: 06/10/2020

ASSIGNOR:

JANG, JAE HUN

DOC DATE: 06/10/2020

ASSIGNOR:

SON, HONG RAK

DOC DATE: 06/10/2020

ASSIGNOR:

SHIN, DONG-MIN

DOC DATE: 06/10/2020

ASSIGNOR:

YU, GEUNYEONG

DOC DATE: 06/10/2020

ASSIGNOR:

LEE, KANGSEOK

DOC DATE: 06/10/2020

ASSIGNOR:

HAN, HYUNSEUNG

DOC DATE: 06/11/2020

ASSIGNEE:

SAMSUNG ELECTRONICS CO., LTD.
129, SAMSUNG-RO, YEONGTONG-GU,
GYEONGGI-DO
SUWON-SI, KOREA, REPUBLIC OF 16677

APPLICATION NUMBER: 16917101

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: STORAGE CONTROLLER FOR CORRECTING ERROR, STORAGE DEVICE
INCLUDING THE SAME, AND OPERATING METHOD THEREOF

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
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Email:	msmircich@sughrue.com, sughrue@sughrue.com
<i>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.</i>	
Correspondent Name:	SUGHRUE MION, PLLC.
Address Line 1:	2000 PENNSYLVANIA AVE., NW.
Address Line 2:	8TH FLOOR
Address Line 4:	WASHINGTON, D.C. 20006
ATTORNEY DOCKET NUMBER:	Q254619

PATENT

REEL 053315 FRAME 0769

NAME OF SUBMITTER:	MATTHEW TYLER SMIRCICH-TEAMS
Signature:	/Matthew Tyler Smircich/
Date:	06/30/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 6 source=Q254619COMBINEDDECLARATIONANDASSIGNMENTTOBEFILED#page1.tif source=Q254619COMBINEDDECLARATIONANDASSIGNMENTTOBEFILED#page2.tif source=Q254619COMBINEDDECLARATIONANDASSIGNMENTTOBEFILED#page3.tif source=Q254619COMBINEDDECLARATIONANDASSIGNMENTTOBEFILED#page4.tif source=Q254619COMBINEDDECLARATIONANDASSIGNMENTTOBEFILED#page5.tif source=Q254619COMBINEDDECLARATIONANDASSIGNMENTTOBEFILED#page6.tif	
RECEIPT INFORMATION	
EPAS ID:	PAT6179525
Receipt Date:	06/30/2020

PATENT

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 collectively as Assignor, has invented:

Title: STORAGE CONTROLLER FOR CORRECTING ERROR, STORAGE DEVICE INCLUDING THE SAME, AND OPERATING 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, or
- U.S. non-provisional patent application number _____, filed on _____, or
- PCT international patent application number _____, 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.

¹ This form requires the use of an Application Data Sheet.

SEC Ref No. ID-201906-039-1-US0 Attorney Ref No. Q254619

SAMSUNG ELECTRONICS CO., LTD.

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.

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 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 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;

SEC Ref No. ID-201906-039-1-US0 Attorney Ref No. Q254619

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

Page 2 of 6

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 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 Sughrue Mion, 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.

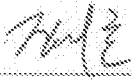
Controller개발팀(메모리)/국회영/heyoul kwak

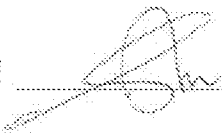
SEC Ref No. ID-201906-039-1-US0 Attorney Ref No. Q254619

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

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

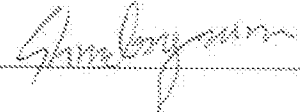
LEGAL NAME OF FIRST INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	KWAK	HEEYOUL	
SIGNATURE 		DATE 2020.06.10	

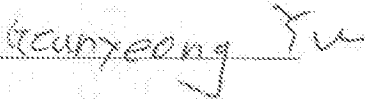
LEGAL NAME OF SECOND INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	JANG	JAE HUN	
SIGNATURE 		DATE 2020.06.10	

LEGAL NAME OF THIRD INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	SON	HONG RAK	
SIGNATURE 		DATE 2020.06.10	

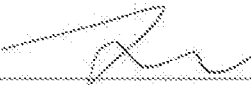
SEC Ref No. ID-201906-039-1-US0 Attorney Ref No. Q254619

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

LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	SHIN	Dong-Min	
SIGNATURE 		DATE 2020.6.10	


LEGAL NAME OF FIFTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	YU	Geunyeong	
SIGNATURE 		DATE 2020.6.10	

Controller 개발팀(메모리)/곽희열/hee.you.l.kwak

LEGAL NAME OF SIXTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	LEE	Kangseok	
SIGNATURE 		DATE 2020.6.10	

SEC Ref No. EE-201906-039-1-US0 Attorney Ref No. Q254619

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

LEGAL NAME OF SEVENTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	HAN	Hyunseung	
SIGNATURE  DATE 2020, Jun. 11. 2			

Controller/기밀 관리팀/이재우/02-2639-2000

SEC Ref No. ID-201906-039-1-LIS0 Attorney Ref No. Q254619

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