

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7352510

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT														
NATURE OF CONVEYANCE:	Corrective Assignment to correct the THE 6TH INVENTOR WAS INADVERTANTLY NOT SUBMITTED ON THE ASSIGNMENT previously recorded on Reel 053755 Frame 0503. Assignor(s) hereby confirms the 6TH INVENTOR SHOULD READ AS CHO, SEUNG-HYUN.														
CONVEYING PARTY DATA															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>JI HYUN CHOI</td><td>08/31/2020</td></tr><tr><td>HYUN-JOONG KIM</td><td>08/31/2020</td></tr><tr><td>JOON SIK SOHN</td><td>08/31/2020</td></tr><tr><td>WOONG-JAE SONG</td><td>08/31/2020</td></tr><tr><td>SOO-WOONG AHN</td><td>08/31/2020</td></tr><tr><td>SEUNG-HYUN CHO</td><td>08/31/2020</td></tr></tbody></table>	Name	Execution Date	JI HYUN CHOI	08/31/2020	HYUN-JOONG KIM	08/31/2020	JOON SIK SOHN	08/31/2020	WOONG-JAE SONG	08/31/2020	SOO-WOONG AHN	08/31/2020	SEUNG-HYUN CHO	08/31/2020	
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WOONG-JAE SONG	08/31/2020														
SOO-WOONG AHN	08/31/2020														
SEUNG-HYUN CHO	08/31/2020														
RECEIVING PARTY DATA															
Name:	SAMSUNG ELECTRONICS CO., LTD.														
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU, SUWON-SI														
City:	GYEONGGI-DO														
State/Country:	KOREA, REPUBLIC OF														
Postal Code:	16677														
PROPERTY NUMBERS Total: 1															
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Application Number:	17016883														
CORRESPONDENCE DATA															
Fax Number:	(703)668-8200														
<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:	7036688000														
Email:	RCook@harnessip.com														
Correspondent Name:	MARK A. SPINELLI														
Address Line 1:	11730 PLAZA AMERICA DRIVE														
Address Line 2:	SUITE 600														
Address Line 4:	RESTON, VIRGINIA 20190														
ATTORNEY DOCKET NUMBER:	2677-000582-US														
NAME OF SUBMITTER:	MARK A SPINELLI														
SIGNATURE:	/Mark A. Spinelli, Reg. No. 75,735/														

DATE SIGNED:	05/26/2022
Total Attachments: 8 source=Req_for_CNOR#page1.tif source=Req_for_CNOR#page2.tif source=Req_for_CNOR#page3.tif source=Req_for_CNOR#page4.tif source=Req_for_CNOR#page5.tif source=Req_for_CNOR#page6.tif source=Req_for_CNOR#page7.tif source=Req_for_CNOR#page8.tif	

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6295611

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JI HYUN CHOI	08/31/2020
HYUN-JOONG KIM	08/31/2020
JOON SIK SOHN	08/31/2020
WOONG-JAE SONG	08/31/2020
SOO-WOONG AHN	08/31/2020
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:	17016883
CORRESPONDENCE DATA	
Fax Number:	(703)668-8200
<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:	703-668-8000
Email:	dcmalroom@hdp.com
Correspondent Name:	HARNESS, DICKEY & PIERCE, P.L.C.
Address Line 1:	P.O. BOX 8910
Address Line 4:	RESTON, VIRGINIA 20195
ATTORNEY DOCKET NUMBER:	2677-000582-US
NAME OF SUBMITTER:	JOHN A. CASTELLANO. REG. NO. 35,094
SIGNATURE:	/John A. Castellano/
DATE SIGNED:	09/14/2020
Total Attachments: 5	
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SAMSUNG ELECTRONICS CO., LTD.

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: SYSTEM ON CHIP, MEMORY DEVICE, ELECTRONIC DEVICE COMPRISING THE SOC
AND MEMORY DEVICE, AND METHOD FOR STORING DATA IN THE ELECTRONIC
DEVICE

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.

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.

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

SEC. Ref. No. ID-201907-011-1-US0 Attorney Ref. No. 2677-000582-US

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DRAM기 회그용(메모리)/최지현/13022316/2020-08-31 09:50

PATENT
REEL: 060201 FRAME: 0724

SAMSUNG ELECTRONICS CO., LTD.

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;

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-

SEC Ref No. ID-201907-011-1-US0 Attorney Ref No. 2677-000582-US

COMBINED DECLARATION (37 CFR 1.53) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

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DRAM기획그룹(메모리)/최재현/13022315/2020-08-31 09:50

SAMSUNG ELECTRONICS CO., LTD.

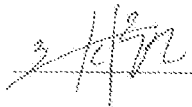
examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation 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 Harness, Dickey & Pierre, P.L.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	Family Name	First Given Name	Second Given Name
INVENTOR/ASSIGNOR	CHOI	Ji Hyun	
SIGNATURE  DATE 2020. 08. 31			

SEC Ref No. ID-201907-011-1-US0

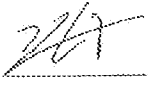
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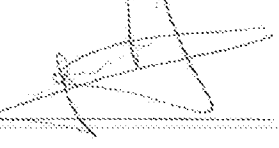
COMBINED DECLARATION (37 CFR 1.53) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM

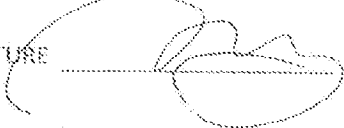
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DRAM2] 회고종(메모리)/회지연/1 3022316/2020-08-31 09:56

SAMSUNG ELECTRONICS CO., LTD.

LEGAL NAME OF SECOND INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	KIM	Hyun-Jeong	
SIGNATURE 		DATE 08/31/2020	

LEGAL NAME OF THIRD INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	SOHN	Joon Sik	
SIGNATURE 		DATE 20/8/31	

LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	SONG	Woong-Jae	
SIGNATURE 		DATE 2020. 8.31	

SEC Ref No. ID-201907-011-1-US0 Attorney Ref No. 2677-006S92-US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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DRAM가이드 (메모리)/최기현/13022316/2020-08-31 09:50

SAMSUNG ELECTRONICS CO., LTD.

LEGAL NAME OF FIFTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	AHN	Soo-Woong	
SIGNATURE 		DATE 2020. 10. 31	

LEGAL NAME OF SIXTH INVENTOR/ASSIGNOR	Family Name	First Given Name	Second Given Name
	CHO	Seung-Hyun	
SIGNATURE 		DATE 2020. 10. 31	

4283004.1

SEC Ref No. ID-201907-013-1-US0 Attorney Ref No. 2677-000582-US

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY PATENT APPLICATION AND ASSIGNMENT FORM
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DEAM7] 화그플(메모리)/최지현/13022315/2020-08-31 09:50

RECORDED: 05/26/2022

PATENT
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