

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT7432826

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|---|--|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JUNYONG UHM | 06/17/2022 |
| JUNGGYU KIM | 06/17/2022 |
| EUNJOO OH | 06/17/2022 |
| JAESUB KIM | 06/17/2022 |
| YANGWOO ROH | 06/17/2022 |
| JEONGBEOM SEO | 06/17/2022 |
| JAEWON SONG | 06/17/2022 |
| 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: | 17865035 |
| 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 AVENUE, N.W. |
| Address Line 2: | 9TH FLOOR |
| Address Line 4: | WASHINGTON, D.C. 20006 |
| ATTORNEY DOCKET NUMBER: | Q275237 |
| NAME OF SUBMITTER: | MATTHEW TYLER SMIRCICH-TEAMS |
| SIGNATURE: | /Matthew Tyler Smircich/ |
| DATE SIGNED: | 07/14/2022 |

PATENT

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 5

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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 DEVICE, HOST SYSTEM HAVING 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. OPP-2021-2123-35357 Attorney Ref No. Q275237

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.

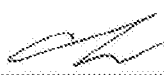
The undersigned hereby grant(s) the law firm of **Sughrue Mion, PLLC** the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.


SAMSUNG ELECTRONICS CO., LTD. & junyong@junyong.com

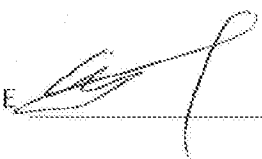
SEC Ref No. OPP-2021-2123-35357 Attorney Ref No. Q275237

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

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

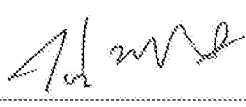
| LEGAL NAME OF FIRST INVENTOR/ASSIGNOR | Family Name | First Given Name | Second Given Name |
|---|-------------|------------------|-------------------|
| | Uhm | Junyong | |
| <p>SIGNATURE  DATE 2022.6.17</p> | | | |

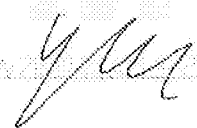
| LEGAL NAME OF SECOND INVENTOR/ASSIGNOR | Family Name | First Given Name | Second Given Name |
|---|-------------|------------------|-------------------|
| | Kim | Junggyu | |
| <p>SIGNATURE  DATE 2022.6.17</p> | | | |


| LEGAL NAME OF THIRD INVENTOR/ASSIGNOR | Family Name | First Given Name | Second Given Name |
|---|-------------|------------------|-------------------|
| | Oh | Eunjoo | |
| <p>SIGNATURE  DATE 2022.6.17</p> | | | |

SEC Ref No. OPP-2021-2123-35357 Attorney Ref No. Q275237

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| LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR | Family Name | First Given Name | Second Given Name |
|--|-------------|------------------|----------------------|
| | Kim | Jaesub | |
| SIGNATURE  DATE 2022.6.17 | | | |

| LEGAL NAME OF FIFTH INVENTOR/ASSIGNOR | Family Name | First Given Name | Second Given Name |
|--|-------------|------------------|----------------------|
| | Roh | Yangwoo | |
| SIGNATURE  DATE 2022.6.17 | | | |

| LEGAL NAME OF SIXTH INVENTOR/ASSIGNOR | Family Name | First Given Name | Second Given Name |
|--|-------------|------------------|----------------------|
| | Seo | Jeongbeom | |
| SIGNATURE  DATE 2022.6.17 | | | |

SEC Ref No. OPP-2021-2123-35357 Attorney Ref No. Q275237

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 |
|--|-------------|------------------|-------------------|
| | Song | Jaewon | |
| SIGNATURE <u>송재원</u> DATE <u>2022. 6. 11</u> | | | |

S/W개발팀(메모리) / 영준용 / junyong.uhm@samsung.com

SEC Ref No. OPP-2021-2123-35357 Attorney Ref No. Q275237

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