PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAE-WON KIM	08/27/2020
SUN-WOOK KIM	08/27/2020
SEONG-WOON KIM	08/27/2020
SOO-CHEOL OH	08/27/2020
JAE-GEUN CHA	08/27/2020
JI-HYEOK CHOI	08/27/2020
HYUN-HWA CHOI	08/27/2020

RECEIVING PARTY DATA

Name:	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE	
Street Address:	218 GAJEONG-RO, YUSEOUNG-GU	
City:	DAEJEON	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	34129	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17019925

CORRESPONDENCE DATA

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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: 703-854-1331 Email: mail@lrkpatent.com LRK PATENT LAW FIRM Correspondent Name: Address Line 1: 1952 GALLOWS RD Address Line 2: SUITE 200

Address Line 4: VIENNA, VIRGINIA 22182

ATTORNEY DOCKET NUMBER: P11861US NAME OF SUBMITTER: TAEKSOO LEE SIGNATURE: /Taeksoo Lee/ **DATE SIGNED:** 09/14/2020

PAIENI REEL: 053761 FRAME: 0401 506249903

Total Attachments: 3 source=P11861_asn#page1.tif source=P11861_asn#page2.tif source=P11861_asn#page3.tif

PATENT REEL: 053761 FRAME: 0402

ASSIGNMENT

WHEREAS, I/We

KIM, **Dae-Won**, a citizen of Republic of Korea, whose post office address is 302-204, 362, Jijok-ro, Yuseong-gu, Daejeon 34076, Republic of Korea,

KIM, Sun-Wook, a citizen of Republic of Korea, whose post office address is 103-1804, 63, Dongtangwangyeokhwanseung-ro, Hwaseong-si, Gyeonggi-do 18479, Republic of Korea,

KIM, Seong-Woon, a citizen of Republic of Korea, whose post office address is 105-302, 75, Jangan-ro, Gyeryong-si, Chungcheongnam-do 32825, Republic of Korea,

OH, Soo-Cheol, a citizen of Republic of Korea, whose post office address is 31, Eungubi-ro, Yuseong-gu, Daejeon 34083, Republic of Korea,

CHA, Jae-Geun, a citizen of Republic of Korea, whose post office address is 206, 32-1, Gajeong-ro 89beon-gil, Yuseong-gu, Daejeon 34120, Republic of Korea,

CHOI, Ji-Hyeok, a citizen of Republic of Korea, whose post office address is 305, 34-1, Gajeong-ro 89beon-gil, Yuseong-gu, Daejeon 34120, Republic of Korea, and

CHOI, Hyun-Hwa, a citizen of Republic of Korea, whose post office address is 205-507, 127, Dunsannam-ro, Seo-gu, Daejeon 35249, Republic of Korea,

hereinafter referred to as the ASSIGNOR(s), has invented a certain improvement relating to

APPARATUS AND METHOD FOR MANAGING INTEGRATED STORAGE SUPPORTING HIERARCHICAL STRUCTURE

for which he has executed, on the same date as this assignment, an application for Letters Patent for the United States to be filed in the United States Patent and Trademark Office.

If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request Taeksoo Lee, Reg. No. 61,976 of the LRK Patent Law Firm, whose address is 1952 Gallows Rd., Suite 200, Vienna, Virginia 22182, to insert here in parenthesis (Application No. , filed) the filing date and application number of said application when known.

AND WHEREAS, ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE, a corporation organized and existing under the laws of Republic of Korea, whose post-office address is 218, Gajeong-ro, Yuseong-gu, Daejeon 34129, Republic of Korea, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, and prolongations thereof.

ETRI / 202**P-08-27-ENT** / 04340 / 85731084-6FD **REEL: 053761 FRAME: 0403**

NOW, THIS WITNESSETH that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNOR(s) hereby assigns, sells and transfers to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, and prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNOR(s) might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNOR(s) hereby agrees to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNOR(s) authorizes and requests the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed by said ASSIGNOR(s), on the respective date(s) indicated below.

Name KIM, Dae-Won

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REEL: 053761 FRAME: 0404

Slo	Aug 19 2020
Name KIM, Seong-Woon	Date
Name OH, Soo-Cheol	Aug, 27, 2020
Name On, Soo-Cheor	Date
Name City I of	Date
Name CHA, Jae-Geun	Date
17/	Mag, 27. 2020
Name CHOI, Ji-Hyeok	Date

Date

Aug 21, 2010

ETRI / 2020 POATENT/ 04340 / 85731084-6FD REEL: 053761 FRAME: 0405

RECORDED: 09/14/2020

Name CHOI, Hyun-Hwa