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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YONGSANG YUN	03/05/2019
DONGIL SON	03/05/2019
JONGCHUL CHOI	03/05/2019
SEUNGNYUN KIM	03/05/2019
CHANGRYONG HEO	03/05/2019

RECEIVING PARTY DATA

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Street Address:	129, SAMSUNG-RO, YEONGTONG-GU,	
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State/Country:	KOREA, REPUBLIC OF	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16345678

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NAME OF SUBMITTER: WILLIAM A. MUNCK		
SIGNATURE:	/William A. Munck/	
DATE SIGNED:	04/26/2019	

Total Attachments: 2

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> PATENT REEL: 049011 FRAME: 0801

ASSIGNMENT

WHEREAS, We, Yongsang YUN, resident of Osan-si, Gyeonggi-do, Republic of Korea,
citizen of Republic of Korea, Dongil SON, resident of Hwaseong-si, Gyeonggi-do, Republic of
Korea, citizen of Republic of Korea, Jongchul CHOI, resident of Suwon-si, Gyeonggi-do,
Republic of Korea, citizen of Republic of Korea, Seungnyun KIM, resident of Incheon, Republic
of Korea, citizen of Republic of Korea, and Changryong HEO, resident of Suwon-si, Gyeonggi-
do, Republic of Korea, citizen of Republic of Korea, have invented certain new and useful
improvements in a "METHOD AND APPARATUS FOR ACQUIRING OMNIDIRECTIONAL
VIDEO" disclosed in an application for United States Letters Patent (Application No.
concurrently herewith;

WHEREAS, SAMSUNG ELECTRONICS CO., LTD., a corporation organized under the laws of the Republic of Korea, having a place of business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677, Republic of Korea (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; We authorize Munck Wilson Mandala, LLP to insert in the parenthesis above the application number and filing date of said application when known; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all

divisional, continuation, continuation-in-part, reissue and substitute applications, and make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Date: Monk 5 20/9	Yorgsong YVN
	Yongsang YUN
Date: March . F. 2019	Dong TI SON
	Dongil SON
Date: <u>Manch</u> , 5, 2019	Orngchul CHOZ
	Jongchul CHOI
Date: Mar. 5. 2019	Servig Nyun Kim
	Seungnyun KIM
Date: Mar t , 2019	Changryong Heg
	Changryong/HEO/