504405171 06/08/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KI CHEOL BAE	05/29/2017
CHUL WOO PARK	05/29/2017
KWANG SUB LEE	05/29/2017
SANG GYUN LEE	05/29/2017
SE YOUNG JANG	05/29/2017
CHI HYUN CHO	05/29/2017

RECEIVING PARTY DATA

Name:	SAMSUNG ELECTRONICS CO., LTD.					
Street Address:	29 SAMSUNG-RO					
Internal Address:	YEONGTONG-GU, SUWON-SI					
City:	GYEONGGI-DO					
State/Country:	KOREA, REPUBLIC OF					
Postal Code:	16677					

PROPERTY NUMBERS Total: 1

Property Type	Number					
Application Number:	15617973					

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NAME OF SUBMITTER:	JACOB L. LACOMBE
SIGNATURE:	/Jacob L. LaCombe/
DATE SIGNED:	06/08/2017

PATENT 504405171 REEL: 042655 FRAME: 0593

Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif

PATENT REEL: 042655 FRAME: 0594

ASSIGNMENT

WHEREAS, We, Ki Cheol Bae, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Chul Woo Park, Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Kwang Sub Lee, resident of Yongin-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Sang Gyun Lee, resident of Osan-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, Se Young Jang, resident of Seongnam-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, and Chi Hyun Cho, resident of Suwon-si, Gyeonggi-do, Republic of Korea, citizen of Republic of Korea, have invented certain new and useful improvements in a "SEMICONDUCTOR ASSEMBLY WITH PACKAGE ON PACKAGE STRUCTURE AND ELECTRONIC DEVICE INCLUDING THE SAME" disclosed in an application for United States Letters Patent (Application Serial No. _______, said application having been executed 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 William A. Munck of 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

PATENT REEL: 042655 FRAME: 0595 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.

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Ki Cheol Bae

Date: 167/1 - 1-29

-6

Date: 2017- 6 - 29

Chul Woo Park

Kwang Sub Lee

Date: 2011 - 5 - 29

Sang Gyun Lee

Date: 2010, 5.28

Se Young Jang

Date: 2017. 5.29

Chi Hyun Cho