503582889 11/24/2015

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SAMSUNG FINE CHEMICALS CO., LTD.	11/23/2015

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:	443-742
Name:	SAMSUNG SDI CO., LTD.
Street Address:	150-20, GONGSE-RO, GIHEUNG-GU
City:	YONGIN-SI, GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF

PROPERTY NUMBERS Total: 4

Property Type	Number
Application Number:	14806903
Application Number:	14806969
Application Number:	14816180
Application Number:	14816146

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NAME OF SUBMITTER:	GRANT M. EHRLICH
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PATENT 503582889 REEL: 037126 FRAME: 0898

DATE SIGNED:	11/24/2015
Total Attachments: 2	
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PATENT REEL: 037126 FRAME: 0899

ASSIGNMENT

WHEREAS, SAMSUNG FINE CHEMICALS CO., LTD., a corporation organized and existing under the laws of the Republic of Korea, having a place of business at 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, 680-090, Republic of Korea (hereinafter referred to as "ASSIGNOR") is the owner of a right, title and interest in the following inventions and United States patent application (hereinafter referred to as the "INVENTION" and "APPLICATION," respectively):

- [1] U.S. Application Serial Number 14/806,903, filed on July 23, 2015
- [2] U.S. Application Serial Number 14/806,969, filed on July 23, 2015
- [3] U.S. Application Serial Number 14/816,180, filed on August 3, 2015
- [4] U.S. Application Serial Number 14/816,146, filed on August 3, 2015

WHEREAS, Samsung Electronics Co., Ltd., a corporation organized and existing under the laws of the Republic of Korea, having a place of business at 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742, Republic of Korea; and SAMSUNG SDI CO., LTD., a corporation organized and existing under the laws of the Republic of Korea, having a place of business at 150-20, Gongse-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea (collectively hereinafter referred to as "ASSIGNEES") are desirous of acquiring an interest in any and all countries, in and to the INVENTION, the APPLICATIONS, and any and all Patents to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, I, the ASSIGNOR, have assigned and transferred, and hereby assigns and transfers unto ASSIGNEES, my entire right, title and interest in and to the INVENTION, the APPLICATIONS, and any and all Patents that may be issued therefrom, in any and all countries, including any and all revivals, refilings, continuations, continuations-in-part,

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divisions and reissues thereof, to ASSIGNEES; and I do hereby agree that I will execute all papers necessary in connection with any and all patent applications when called upon to do so by ASSIGNEES, their successors or assigns, and that I will, at the cost and expense of ASSIGNEES, fully assist and cooperate in all matters in connection with any and all patent applications and Patents issuing thereon.

The undersigned declares that all statements made herein of his or her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the APPLICATION or any Patents issuing therefrom. kilseuk.byun

By: SAMSUNG FINE CHEMICALS CO., LTD.

Name: Kilseuk, BYUN C, S, Dyzan.

Title: General manage:

Date: November 23, 2015