

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SHOWA DENKO K.K.	09/02/2014
RECEIVING PARTY DATA	
Name:	SAMSUNG ELECTRONICS CO., LTD
Street Address:	129, SAMSUNG-RO, YEONGTONG-GU
City:	SUWON-SI, GYEONGGI-DO
State/Country:	REPUBLIC OF KOREA
Postal Code:	443-742
PROPERTY NUMBERS Total: 21	
Property Type	Number
Patent Number:	7396598
Patent Number:	7763365
Patent Number:	7635527
Patent Number:	7736757
Patent Number:	7582363
Patent Number:	7510782
Patent Number:	8025987
Patent Number:	7872411
Patent Number:	8257837
Patent Number:	8268456
Application Number:	12447590
Patent Number:	8441003
Patent Number:	8426037
Patent Number:	8404362
Patent Number:	8426038
Patent Number:	8617722
Application Number:	13504076
Application Number:	13512568
Application Number:	13442163
Application Number:	13442440
Patent Number:	7223483

PATENT

CORRESPONDENCE DATA**Fax Number:** (860)286-0155

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.

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ATTORNEY DOCKET NUMBER:	YPL0000G
NAME OF SUBMITTER:	JAMES J. MERRICK
SIGNATURE:	/James J. Merrick/
DATE SIGNED:	09/10/2014

Total Attachments: 5

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ASSIGNMENT

WHEREAS, **Showa Denko K.K.** a corporation organized and existing under the laws of the Japan, having a place of business at 13-9, Shiba Daimon 1-chome, Minato-Ku, Tokyo, Japan 105-8518 (hereinafter referred to as "**ASSIGNOR**") is the owner of the entire right, title and interest in the inventions, United States patents, and United States patent applications listed on the attached Schedule of U.S. Patents and Patent Applications (hereinafter referred to as the "**INVENTIONS**," "**PATENTS**," and "**APPLICATIONS**," respectively):

WHEREAS, **Samsung Electronics Co., Ltd.** (hereinafter referred to as "**ASSIGNEE**"), a corporation organized and existing under the laws of the Korea, having a place of business at 129 Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-772, Republic of Korea; is desirous of acquiring an interest in any and all countries, in and to the INVENTIONS, the PATENTS, 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 ASSIGNEE, the entire right, title and interest in and to the INVENTIONS, the PATENTS, 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, divisions and reissues thereof, to ASSIGNEE; and I do hereby agree that I will execute all papers necessary in connection with any and all APPLICATIONS when called upon to do so by ASSIGNEE, its successors or assigns, and that I will, at the cost and expense of ASSIGNEE, fully assist and cooperate in all matters in connection with any and all 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.

By: Showa Denko K.K.

Name: Tetsu Moriki

Tetsu Moriki
Title: General Manager, Legal & Intellectual Property Department

Date: September 2, 2014

SCHEDULE OF U.S. PATENTS

	U.S. PATENT NUMBER/PUBLICATION NUMBER	ISSUE DATE	TITLE
1.	7,396,598 B2	07/08/2008	LIGHT-EMITTING MATERIAL AND ORGANIC LIGHT-EMITTING DEVICE
2.	7,763,365 B2	07/27/2010	LIGHT EMITTING MATERIAL AND ORGANIC LIGHT-EMITTING DEVICE
3.	7,635,527 B2	12/22/2009	LIGHT EMITTING MATERIAL AND ORGANIC LIGHT-EMITTING DEVICE
4.	7,736,757 B2	06/15/2010	LIGHT EMITTING MATERIAL AND ORGANIC LIGHT-EMITTING DEVICE
5.	7,582,363 B2	09/01/2009	ORGANIC POLYMER LIGHT-EMITTING ELEMENT MATERIAL HAVING GOLD COMPLEX STRUCTURE AND ORGANIC POLYMER LIGHT-EMITTING ELEMENT
6.	7,510,782 B2	03/31/2009	BORON-CONTAINING POLYMER COMPOUND AND ORGANIC LIGHT EMITTING DEVICE USING THE SAME
7.	8,025,987 B2	09/27/2011	LIGHT EMITTING POLYMER MATERIAL, ORGANIC ELECTROLUMINESCENCE DEVICE AND DISPLAY DEVICE COMPRISING LIGHT EMITTING POLYMER MATERIAL
8.	7,872,411 B2	01/18/2011	ORGANIC ELECTROLUMINESCENCE DEVICE USING A COPOLYMER AND A PHOSPHORESCENT COMPOUND
9.	8,257,837 B2	09/04/2012	ORGANIC LIGHT-EMITTING DEVICE

10.	8,268,456 B2	09/18/2012	ORGANIC LIGHT-EMITTING DEVICE USING A COMPOUND HAVING A CARRIER TRANSPORT PROPERTY AND A PHOSPHORESCENT PROPERTY
11.	2010/0060150 A1	03/11/2010	CYCLIC SILOXANE COMPOUND, ORGANIC ELECTROLUMINESCENCE DEVICE, AND USE OF THE SAME
12.	8,441,003 B2	05/14/2013	PHOSPHORESCENT POLYMER COMPOUND BASED ON IRIIDIUM POLYMER COMPLEX AND ORGANIC ELECTROLUMINESCENT DEVICE UTILIZING THE SAME
13.	8,426,037 B2	04/23/2013	TRIAZINE RING-CONTAINING POLYMER COMPOUND AND ORGANIC LIGHT-EMITTING ELEMENT USING THE POLYMER COMPOUND
14.	8,404,362 B2	03/26/2013	ORGANIC LIGHT-EMITTING ELEMENT USING TRIAZINE RING-CONTAINING POLYMER COMPOUND
15.	8,426,038 B2	04/23/2013	PHOSPHORESCENT POLYMER COMPOUND AND ORGANIC ELECTROLUMINESCENCE DEVICE USING THE SAME
16.	8,617,722 B2	12/31/2013	POLYMER COMPOUND AND ORGANIC ELECTROLUMINESCENCE ELEMENT USING THE SAME
17.	2012/0217491 A1	08/30/2012	COMPOSITION FOR ANODE BUFFER LAYER, HIGH-MOLECULAR WEIGHT COMPOUND FOR ANODE BUFFER LAYER, ORGANIC ELECTROLUMINESCENCE ELEMENT, AND PRODUCTION PROCESS AND USES OF THE SAME
18.	2012/0235132 A1	09/20/2012	IRIDIUM COMPLEX COMPOUND, ORGANIC

			ELECTROLUMINESCENT ELEMENT, AND USES THEREOF
19	2012/0256536 A1	10/11/2012	PHOSPHINE OXIDE COMPOUND, ORGANIC ELECTROLUMINESCENCE ELEMENT, PRODUCTION METHOD AND USES THEREOF
20	2012/0256171 A1	10/11/2012	PHOSPHINE OXIDE COMPOUND, ORGANIC ELECTROLUMINESCENCE ELEMENT, PRODUCTION METHOD AND USES THEREOF
21	7,223,483 B2	05/29/2007	LIGHT-EMITTING MATERIAL AND ORGANIC LIGHT-EMITTING DEVICE