PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT			
CONVEYING PARTY DATA					
م			lame	Execution Date	
SAMSUNG ELECTRO	-MECHANICS	CO., LT	D.	12/30/2013	
RECEIVING PARTY DATA					
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State/Country:	KOREA, REP	KOREA, REPUBLIC OF			
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PROPERTY NUMBERS Total: 1					
Property Type			Number		
Patent Number: 7		780056	1566		
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ATTORNEY DOCKET NUMBER:			069576-0010		
NAME OF SUBMITTER:			LYNN CRUZ		
Signature:			/Lynn Cruz/		
Date:			01/09/2014		
Total Attachments: 1 source=Assignment 7800566#page1.tif					

069576-0010

ASSIGNMENT

WHEREAS, Samsung Electro-Mechanics Co., Ltd. is the co-owner of the entire interest, right and title by Assignments recorded: November 30, 2006 / Reel 018569 / Frame 0589; July 22, 2010 / Reel 024728 / Frame 0467; and August 7, 2012 / Reel 028744 / Frame 0272, of the following application for Letters Patent of the United States and the invention represented thereby:

Inventors:	Chang Woo Ha et al.	
Patent No.:	7,800,566	
Issued:	September 21, 2010	

WHEREAS, Samsung Electronics Co., Ltd., a corporation organized and existing under the laws of Korea, and having a place of business at (Maetan-Dong) 129 Samsung-ro, Yeongtong-gu, Suwon-si, Seoul, Republic of Korea, is the other co-owner, and is desirous of acquiring the entire right, title and interest in and to the aforesaid application and invention thereof, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the said Samsung Electro-Mechanics Co., Ltd. has sold, assigned, transferred and set over to said Samsung Electronics Co., Ltd. their right, title and interest in and to the aforesaid application and the invention thereof, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries, and any and all extensions, divisions, reissues, substitutes, renewals or continuations thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said Samsung Electronics Co., Ltd., their successors, assigns and legal representatives, to the full end of the term or terms for which said Letters Patent may be granted, reissued or extended as fully as the same would have been held and enjoyed in full by Samsung Electro-Mechanics Co., Ltd. had this assignment, sale or transfer not been made; and said Samsung Electro-Mechanics Co., Ltd. hereby authorizes and requests the Commissioner of Patents of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid to issue to said Samsung Electronics Co., Ltd., as assignees of the entire right, title and interest in any and all Letters Patent of the United States which may be issued or granted on or as a result of the application hereinbefore identified, in accordance with the terms of this agreement, and hereby covenants that it has the full right to convey the entire interest herein assigned and that it has not executed and will not execute any agreement in conflict herewith.

IN TESTIMONY WHEREOF, Samsung Electro-Mechanics Co., Ltd. has caused these presents to be signed by an official thereunto duly authorized, and its seal to be affixed and attested this <u>30th</u> day of <u>becember</u>, 2013.

Samsung Electro-Mechanics Co., Ltd.

Jinwook Choi Choi Jin Wook

Title: Principal Engineer/Group Leader

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PATENT REEL: 031933 FRAME: 0166

RECORDED: 01/09/2014