

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	HITACHI, LTD.	03/24/2014
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	HITACHI CONSUMER ELECTRONICS CO., LTD.	
<b>Street Address:</b>	2-1, OTEMACHI 2-CHOME, CHIYODA-KU	
<b>City:</b>	TOKYO	
<b>State/Country:</b>	JAPAN	
<b>Postal Code:</b>	100-0004	
<b>PROPERTY NUMBERS Total: 2</b>		
	<b>Property Type</b>	<b>Number</b>
	<b>Patent Number:</b>	8085630
	<b>Patent Number:</b>	8243568
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>		
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<b>SIGNATURE:</b>	/Charles W. Gray/	
<b>DATE SIGNED:</b>	03/27/2014	
<b>Total Attachments: 1</b>		
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## ASSIGNMENT

WHEREAS, Hitachi, Ltd., a corporation organized under the laws of Japan, located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, 100-8280, Japan ("ASSIGNOR"), has an equal and undivided joint interest in and to the inventions ("Inventions") respectively described and set forth in the following application for United States Letters Patent ("Applications"):

U. S. PATENT APPLICATION NO. 12/622,122, FILED NOVEMBER 19, 2009 (U.S. Patent No. 8085630)

U. S. PATENT APPLICATION NO. 12/622,156, FILED NOVEMBER 19, 2009 (U.S. Patent No. 8243568)

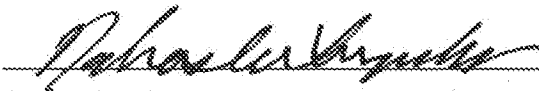
WHEREAS, Hitachi Consumer Electronics Co., Ltd., a corporation organized under the laws of Japan ("ASSIGNEE"), is desirous of acquiring an equal and undivided joint interest in the Inventions and Applications and in any U.S. Letters Patents and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has assigned, and by these presents does assign to ASSIGNEE all right, title and interest in and to the Inventions and Applications and to all foreign counterparts (including patents, utility models and industrial designs), and in and to any Letters Patents and Registrations which may hereafter be granted on any patent applications claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the Applications as provided by the Paris Convention. The right, title and interest is to be jointly held and enjoyed by ASSIGNEE, and its respective successors and assigns, as fully as it would have been held and enjoyed by ASSIGNOR had this Assignment not been made, for the full term of any Letters Patents and Registrations which may be granted thereon, or of any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongation or extensions thereof.

ASSIGNOR further agrees that ASSIGNOR will, without charge to ASSIGNEE, but at ASSIGNEE'S expense, (a) cooperate with ASSIGNEE in the prosecution of any U.S. Patent applications and foreign counterparts on the Inventions and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as ASSIGNEE lawfully may request to obtain or maintain any Letters Patents and Registrations which may hereafter be granted on the Inventions and any improvements in any and all countries, and to vest joint title thereto in ASSIGNEE, or their respective successors and assigns.

IN TESTIMONY WHEREOF, representative of ASSIGNOR has signed his name on the date indicated.

Dated: March 24, 2014

  
Takashi SUZUKI  
Corporate Officer, General Manager,  
Intellectual Property Division (Authorized Signing Officer)  
Hitachi, Ltd.