

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HITACHI, LTD.	06/07/2013
RECEIVING PARTY DATA	
Name:	HITACHI CONSUMER ELECTRONICS CO., LTD.
Street Address:	2-1, Otemachi 2-chome
City:	Chiyoda-ku, Tokyo
State/Country:	JAPAN
Postal Code:	100-0004
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	12477487
Application Number:	12506751
CORRESPONDENCE DATA	
Fax Number:	7036841157
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	7036841120
Email:	csam@mmpiaw.com, mail@mmpiaw.com
Correspondent Name:	MATTINGLY & MALUR, PC
Address Line 1:	1800 DIAGONAL ROAD
Address Line 2:	SUITE 370
Address Line 4:	ALEXANDRIA, VIRGINIA 22314
ATTORNEY DOCKET NUMBER:	ASA-7141 AND H&A-108-02
NAME OF SUBMITTER:	JOHN R. MATTINGLY
Signature:	/JOHN R. MATTINGLY/
Date:	06/11/2013
Total Attachments: 2 source=assignment-to-hce#page1.tif source=assignment-to-hce#page2.tif	

CH \$80.00 12477487

## ASSIGNMENT

WHEREAS, **Hitachi, Ltd.** (hereinafter referred to as ASSIGNOR), is the owner, by assignment, of the following application(s) for Letters Patent(s) of the United States of America:

**U.S. Serial No. 12/477,487, filed June 3, 2009; and**

**U.S. Serial No. 12/506,751, filed July 21, 2009.**

WHEREAS, **Hitachi Consumer Electronics Co., Ltd.** (hereinafter referred to as ASSIGNEE), a corporation organized under the laws of Japan, having its place of business at 2-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-0004, Japan, is desirous of acquiring ASSIGNOR's entire right, title and interest, in, to and under said application(s) for Letters Patent, and the inventions covered thereby, including any and all divisions and continuations thereof, and any and all Letters Patents which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

NOW, THEREFORE, for good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, said ASSIGNOR has sold, assigned, transferred and set over and does hereby sell, assign, transfer and set over to the said ASSIGNEE, its entire right, title and interest, in, to and under said application(s) for Letters Patents, and the inventions covered thereby, including any and all divisions and continuations thereof, and any and all Letters Patents which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof, including any and all priority and or convention rights accruing or to accrue with respect to the filing or securing of patents in the United States, including the right to sue for past infringement, the same to be held and enjoyed by said ASSIGNEE for

its own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives, to the end of the term for which said Letters Patents of the United States are granted including any and all renewals, reissues, reexaminations and extensions thereof, as fully and entirely, as the same would have been held and enjoyed by the said ASSIGNOR, if this assignment and sale had not been made.

WHEREBY, ASSIGNOR hereby grants the law firm of MATTINGLY & MALUR, PC, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Hitachi, Ltd.

June 7, 2013  
Date

Takashi Suzuki  
By: Takashi SUZUKI  
Title: Corporate Officer  
General Manager  
Intellectual Property Group  
(Authorized Signing Officer)