503757899 03/29/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3804545

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HITACHI ULSI SYSTEMS CO., LTD	03/18/2016

RECEIVING PARTY DATA

Name:	RENESAS ELECTRONICS CORPORATION		
Street Address:	2-24, TOYOSU 3-CHOME KOUTOU-KU		
City:	TOKYO		
State/Country:	JAPAN		

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	14745040
Application Number:	14100429

CORRESPONDENCE DATA

Fax Number:

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.

Email: sovando@rmsclaw.com
Correspondent Name: GREGORY E. MONTONE

Address Line 1: 7918 JONES BRANCH DRIVE, SUITE 500

Address Line 4: MCLEAN, VIRGINIA 22102

NAME OF SUBMITTER:	GREGORY E. MONTONE
SIGNATURE:	/Gregory E. Montone/
DATE SIGNED:	03/29/2016

Total Attachments: 2

source=400428-20000_FiledAssignDeclaration#page4.tif source=400428-20000_FiledAssignDeclaration#page5.tif

PATENT 503757899 REEL: 038282 FRAME: 0883

ASSIGNMENT

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, we, HITACHI ULSI SYSTEMS CO., LTD. (the Assignor) as owner of record of the rights in certain inventions for which applications for United States Patents have been filed as follows:

U.S. Application Number	<u>Filed</u>	By Assignment Recorded at Reel/Frame			
U.S. Patent Appln. No. 14/100429	12-09-2013	012296 / 0798 Parent US Divisional App 09/985,309			
This application is a Continuation of	13/858,274	94-08-2013	No	Patented	8,604,505
is a continuation of	13/362,385	01-31-2012	No	Patented	8,426,969
is a continuation of	13/096,248	04-28-2011	No	Patented	8,119,495
is a continuation of	12/714,596	03-01-2010	No	Patented	7,948,086
is a continuation of	11/978,686	10-30-2007	No	Patented	7,687,914
is a continuation of	11/430,983	05-10-2006	No	Patented	7,411,302
is a continuation of	10/748,139	12-31-2003	No	Patented	7,071,560
is a Division of	09/985,309	11-02-2001	No	Patented	6,693,315
U.S. Patent Appln, No. 14/745040	012296 / 0798				
		Parent US Divisional App 09/985,309			
This application is a Continuation of	14/100,429	12-09-2013	No	Patented	9,064,926
is a continuation of	13/858,274	04-08-2013	No	Patented	8,604,505
is a continuation of	13/362,385	01-31-2012	No	Patented	8,426,969
is a continuation of	13/096,246	04-28-2011	No	Patented	8,119,495
is a continuation of	12/714,596	03-01-2010	No	Patented	7,948,086
is a continuation of	11/978,686	10-30-2007	No	Patented	7,687,914
is a continuation of	11/430,983	05-10-2006	No	Patented	7,411,302
is a continuation of	10/748,139	12-31-2003	No	Patented	7,071,560
is a Division of	09/985,309	11-02-2001	No	Patented	6,693,315

do hereby sell and assign to: RENESAS ELECTRONICS CORPORATION located at 2-24, Toyosu 3-chome, Koutou-ku, Tokyo 135-0061, Japan

(the "Assignee"), its successors and assigns, the full and exclusive right to the said inventions in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States and elsewhere throughout the world in and to said above identified invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, and prolongations thereof, by virtue of assignment recorded in the U.S. Patent and Trademark Office and we hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patents to said assignee, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for

which said Patents may be granted, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

By this assignment, we, HITACHI ULSI SYSTEMS CO., LTD. also do hereby sell, assign, transfer and set over unto said RENESAS ELECTRONICS CORPORATION its legal representatives, successors and assigns, the entire right, title and interest in enforcing and asserting against any third parties, and recovering damages for past and future infringement of any patent rights related to said inventions, and in and to any and all improvements and/or modifications to the inventions.

WHEREAS, Mikinori KAWAJI, as President of HITACHI ULSI SYSTEMS CO., LTD. is authorized to execute assignment documents relating to patent applications owned by HITACHI ULSI SYSTEMS CO., LTD. We, HITACHI ULSI SYSTEMS CO., LTD. do hereby effect the aforementioned assignment to RENESAS ELECTRONICS CORPORATION by Mr. Mikinori KAWAJI signature below:

HITACHI ULSI SYSTEMS CO., LTD.

Date: 18. Mar., 2016

Title: President

Name: Mikinori KAWAJI

By: Mikinori Kawaji

2