

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT4221457

<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.	09/27/2016
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	HITACHI INDUSTRY & CONTROL SOLUTIONS, LTD.	
<b>Street Address:</b>	1-26, OMIKA-CHO, 5-CHOME, HITACHI-SHI	
<b>City:</b>	IBARAKI	
<b>State/Country:</b>	JAPAN	
<b>PROPERTY NUMBERS Total: 2</b>		
	<b>Property Type</b>	<b>Number</b>
	<b>Patent Number:</b>	8306648
	<b>Patent Number:</b>	7942322
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(703)739-2815	
<i>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.</i>		
<b>Email:</b>	iprecordals@cpa.com	
<b>Correspondent Name:</b>	CPA GLOBAL LTD	
<b>Address Line 1:</b>	LIBERATION HOUSE	
<b>Address Line 2:</b>	CASTLE STREET	
<b>Address Line 4:</b>	ST HELIER, JERSEY JE1 1BL	
<b>NAME OF SUBMITTER:</b>	HEIDI WHITTINGHAM	
<b>SIGNATURE:</b>	CIPR/LF/NGB/Hitachi/Solutions/196/AG/2PT	
<b>DATE SIGNED:</b>	01/12/2017	
<b>Total Attachments: 2</b>		
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source=USA-deed#page2.tif		

UNITED STATES OF AMERICA  
ASSIGNMENT

WHEREAS, Hitachi, Ltd. ("ASSIGNOR"), a Limited Company organized under the laws of Japan , with a place of business at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan , owns the United States Patent(s) (the "Patent(s)") listed on the attached Schedule A; and

WHEREAS, Hitachi Industry & Control Solutions, Ltd. ("ASSIGNEE"), a Limited Company organized under the laws of Japan , with a place of business at 1-26, Omika-cho 5-chome, Hitachi-shi, Ibaraki, Japan , desires to acquire all rights to the Patent(s);

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other valuable consideration, the receipt of which ASSIGNOR acknowledges, ASSIGNOR has sold, assigned, transferred, and set over, and does, by this Assignment, sell, assign, transfer, and set over unto ASSIGNEE, all rights to the Patent(s), including reissues and extensions, to be held and enjoyed by ASSIGNEE, its successors, assigns, and legal representatives, for ASSIGNEE's own use and benefit and for the use and benefit of its successors, assigns, and legal representatives, to the end of the term(s) for which the Patent(s) has/have been granted or may be reissued or extended, as fully and entirely as the Patent(s) would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made; together with all claims for profits and damages by reason of past infringement, with the right to sue for and collect the same for the use and benefit of ASSIGNEE, its successors, assigns, and legal representatives.

This Assignment is deemed to have become effective as from: 27th September, 2016.

IN WITNESS WHEREOF, ASSIGNOR has caused this Assignment to be executed by its duly authorized officer or representative on the date(s) indicated below.

Hitachi, Ltd.

By

Name: Takashi SUZUKI

Title: Corporate Officer, General Manager, Intellectual Property Division (Authorized Signing Officer)

Date:

December 13, 2016

Schedule

Country	Application Number	IP Grant Number
USA	P12534949	8306648
USA	P11945027	7942322