PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3095758

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HITACHI, LTD.	09/26/2014

RECEIVING PARTY DATA

Name:	HITACHI INDUSTRY & CONTROL SOLUTIONS, LTD.	
Street Address:	1-26, OMIKA-CHO 5-CHOME	
City:	HITACHI-SHI, IBARAKI	
State/Country:	JAPAN	

PROPERTY NUMBERS Total: 35

Application Number: 12709362 Application Number: 13028446 Application Number: 13170303 Application Number: 13186533 Application Number: 13570678 Application Number: 13683207 Application Number: 13329389 Application Number: 13570460 Application Number: 13570447 Application Number: 13758279 Application Number: 13442050 Application Number: 14177250 Application Number: 12961748 Application Number: 13559068 Application Number: 13336443 Application Number: 13863431 Application Number: 13914736 Application Number: 13953878	Property Type	Number
Application Number: 13170303 Application Number: 13186533 Application Number: 13570678 Application Number: 13683207 Application Number: 13329389 Application Number: 13570460 Application Number: 13570447 Application Number: 13758279 Application Number: 13442050 Application Number: 13510320 Application Number: 14177250 Application Number: 12961748 Application Number: 13559068 Application Number: 13732924 Application Number: 138336443 Application Number: 13863431 Application Number: 13814736	Application Number:	12709362
Application Number: 13186533 Application Number: 13570678 Application Number: 13683207 Application Number: 13329389 Application Number: 13570460 Application Number: 13570447 Application Number: 13758279 Application Number: 13442050 Application Number: 13510320 Application Number: 14177250 Application Number: 12961748 Application Number: 13732924 Application Number: 13732924 Application Number: 138336443 Application Number: 13863431 Application Number: 13914736	Application Number:	13028446
Application Number: 13570678 Application Number: 13683207 Application Number: 13329389 Application Number: 13570460 Application Number: 13570447 Application Number: 13758279 Application Number: 13442050 Application Number: 13510320 Application Number: 14177250 Application Number: 12961748 Application Number: 13559068 Application Number: 13732924 Application Number: 13336443 Application Number: 13863431 Application Number: 13914736	Application Number:	13170303
Application Number: 13683207 Application Number: 13329389 Application Number: 13570460 Application Number: 13570447 Application Number: 13758279 Application Number: 13442050 Application Number: 13510320 Application Number: 14177250 Application Number: 12961748 Application Number: 13559068 Application Number: 13732924 Application Number: 13336443 Application Number: 13863431 Application Number: 13914736	Application Number:	13186533
Application Number: 13329389 Application Number: 13570460 Application Number: 13570447 Application Number: 13758279 Application Number: 13442050 Application Number: 13510320 Application Number: 14177250 Application Number: 12961748 Application Number: 13732924 Application Number: 13336443 Application Number: 13863431 Application Number: 13914736	Application Number:	13570678
Application Number: 13329429 Application Number: 13570460 Application Number: 13570447 Application Number: 13758279 Application Number: 13510320 Application Number: 14177250 Application Number: 12961748 Application Number: 13559068 Application Number: 13732924 Application Number: 13336443 Application Number: 13863431 Application Number: 13914736	Application Number:	13683207
Application Number: 13570460 Application Number: 13570447 Application Number: 13758279 Application Number: 13442050 Application Number: 14177250 Application Number: 12961748 Application Number: 13559068 Application Number: 13732924 Application Number: 13863431 Application Number: 13863431 Application Number: 13914736	Application Number:	13329389
Application Number: 13570447 Application Number: 13758279 Application Number: 13442050 Application Number: 13510320 Application Number: 14177250 Application Number: 12961748 Application Number: 13559068 Application Number: 13732924 Application Number: 13336443 Application Number: 13863431 Application Number: 13914736	Application Number:	13329429
Application Number: 13758279 Application Number: 13442050 Application Number: 13510320 Application Number: 14177250 Application Number: 12961748 Application Number: 13559068 Application Number: 13732924 Application Number: 13863431 Application Number: 13863431 Application Number: 13914736	Application Number:	13570460
Application Number: 13442050 Application Number: 13510320 Application Number: 14177250 Application Number: 12961748 Application Number: 13559068 Application Number: 13732924 Application Number: 13336443 Application Number: 13863431 Application Number: 13914736	Application Number:	13570447
Application Number: 13510320 Application Number: 14177250 Application Number: 12961748 Application Number: 13559068 Application Number: 13732924 Application Number: 13336443 Application Number: 13863431 Application Number: 13914736	Application Number:	13758279
Application Number: 14177250 Application Number: 12961748 Application Number: 13559068 Application Number: 13732924 Application Number: 13336443 Application Number: 13863431 Application Number: 13914736	Application Number:	13442050
Application Number: 12961748 Application Number: 13559068 Application Number: 13732924 Application Number: 13336443 Application Number: 13863431 Application Number: 13914736	Application Number:	13510320
Application Number: 13559068 Application Number: 13732924 Application Number: 13336443 Application Number: 13863431 Application Number: 13914736	Application Number:	14177250
Application Number: 13732924 Application Number: 13863431 Application Number: 13914736	Application Number:	12961748
Application Number:13336443Application Number:13863431Application Number:13914736	Application Number:	13559068
Application Number:13863431Application Number:13914736	Application Number:	13732924
Application Number: 13914736	Application Number:	13336443
_ · ·	Application Number:	13863431
Application Number: 13953878	Application Number:	13914736
	Application Number:	13953878
Application Number: 13922415	Application Number:	13922415

PATENT

503049159 REEL: 034109 FRAME: 0447

Property Type	Number
Application Number:	13868431
Application Number:	13760893
Application Number:	14238473
Application Number:	14177207
Application Number:	14177214
Application Number:	14176038
Application Number:	14140498
Application Number:	14109939
Application Number:	13748966
Application Number:	13938712
Application Number:	13204019
Application Number:	14262851
Application Number:	14270531

CORRESPONDENCE DATA

Fax Number: (202)793-7860

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.

Phone: 2022937060

Email: sughrue@sughrue.com, rthomas@sughrue.com

Correspondent Name: SUGHRUE MION, PLLC

Address Line 1: 2100 PENNSYLVANIA AVE. NW

Address Line 2: SUITE 800

Address Line 4: WASHINGTON, D.C. 20037-3213

ATTORNEY DOCKET NUMBER:	040414
NAME OF SUBMITTER:	RACHEL A. THOMAS, TEAMS DEPARTMENT
SIGNATURE:	/rachel a. thomas/
DATE SIGNED:	11/05/2014

Total Attachments: 3

source=040414AssignmentExecuted#page1.tif source=040414AssignmentExecuted#page2.tif source=040414AssignmentExecuted#page3.tif

> PATENT REEL: 034109 FRAME: 0448

Assignment

Whereas, Hitachi, Ltd. of 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan, hereinafter referred to as "Assignor", is the owner of the entire right, title and interest in United States Patents mentioned in the attached schedule; and

Whereas, Hitachi Industry & Control Solutions, Ltd., of 1-26, Omika-cho 5-chome, Hitachi-shi, Ibaraki, Japan, hereinafter referred to as "Assignee", desires to acquire the entire right, title, and interest of the Assignor in the said U.S. Patents;

Now, therefore, for valuable consideration, receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to the above-named Assignee, its successors and assigns, the entire right, title and interest in the said U.S. Patents, and any reissues or re-examinations thereof, together with all claims for damages by reason of past infringement of the said U.S. Patents with the right to Assignee to sue for and collect the same for their own use and enjoyment.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Hitachi, Ltd.

Date: September 26,2014

Takashi SUZUKI

Title:

Corporate Officer, General Manager,

Intellectual Property Division (Authorized Signing Officer)

<Schedule of Cases>

Filing No
P12/709362
P13/028446
P13/170303
P13/186533
P13/570678
P13/683207
P13/329389
P13/329429
P13/570460
P13/570447
P13/758279
P13/442050
P13/510320
P14/177250
P12/961748
P13/559068
P13/732924
P13/336443
P13/863431
P13/914736
P13/953878
P13/922415
P13/868431
P13/760893
P14/238473
P14/177207
P14/177214
P14/176038
P14/140498
P14/109939
P13/748966
P13/938712
P13/204019

PATENT REEL: 034109 FRAME: 0450 P14/262851 P14/270531

> PATENT REEL: 034109 FRAME: 0451