PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3769221

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
	Corrective Assignment to correct the NAME OF THIRD INVENTOR IN THE CONVEYING PARTY DATA previously recorded on Reel 037657 Frame 0511. Assignor(s) hereby confirms the ASSIGNMENT.	

CONVEYING PARTY DATA

Name	Execution Date
SHOUTA TAKIZAWA	12/29/2015
FUMIKAZU WARASHINA	12/29/2015
KAZUNORI BAN	12/29/2015

RECEIVING PARTY DATA

Name:	FANUC CORPORATION
Street Address:	3580, SHIBOKUSA AZA-KOMANBA
Internal Address:	OSHINO-MURA
City:	MINAMITSURU-GUN, YAMANASHI
State/Country:	JAPAN
Postal Code:	401-0597

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15014656

CORRESPONDENCE DATA

Fax Number: (703)518-5499

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: bjhgroup@ipfirm.com Correspondent Name: HAUPTMAN HAM, LLP

Address Line 1: 2318 MILL ROAD Address Line 2: **SUITE 1400**

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	4639-483
NAME OF SUBMITTER:	BENJAMIN J. HAUPTMAN
SIGNATURE:	/Benjamin J. Hauptman/
DATE SIGNED:	03/04/2016

Total Attachments: 4

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PATENT REEL: 038002 FRAME: 0320

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> PATENT REEL: 038002 FRAME: 0321

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3725091

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHOUTA TAKIZAWA	12/29/2015
FUMIKAZU WARASHINA	12/29/2015
KAZUNORIBEN KAZUNORI BAN	12/29/2015

RECEIVING PARTY DATA

Name:	FANUC CORPORATION
Street Address:	3580, SHIBOKUSA AZA-KOMANBA
Internal Address:	OSHINO-MURA
City:	MINAMITSURU-GUN, YAMANASHI
State/Country:	JAPAN
Postal Code:	401-0597

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15014656

CORRESPONDENCE DATA

(703)518-5499 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: bjhgroup@ipfirm.com **Correspondent Name:** HAUPTMAN HAM, LLP Address Line 1: 2318 MILL ROAD

Address Line 2: **SUITE 1400**

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	4639-483
NAME OF SUBMITTER:	BENJAMIN J. HAUPTMAN
SIGNATURE:	/Benjamin J. Hauptman/
DATE SIGNED:	02/03/2016

Total Attachments: 1

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PATENT REEL: 038002 FRAME: 0322

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

(Insert	FANUC CORPORATION				
ASSIGNEE's Name(s) Address(es))	3580, Shibokusa Aza-Komanba, Oshino-mura, Minamitsuru-gun,				
	Yamanashi 401-0597, Japan				
	(hereinafter "ASSIGNEE"), the receipt of wh transfers to ASSIGNEE the entire and exclu-	nich is hereby acknowledged, the usive right, title and interest to the	indersigned ASSIGNOR hereby sells, assigns and invention entitled		
(Title of	CONVEYOR ROBOT SYS	TEM PROVIDED WI	TH THREE-DIMENSIONAL		
Invention)	SENSOR		<u> </u>		
	relating to International Patent Application of the United States was executed on even	PCT/JP	and/or for which application for Letters Patent d, was:		
(Insert date of execution of application, if not concurrent)	(a) executed on	Assignee's altorney is tiel	reby authorized to insert in (b) the specified		
	(b) filed on/	data, when known.			
	and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissuc or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hardnafter, "said application(s) and Letters Patent(s)").				
	ASSIGNEE, to do all acts which the ASSIG enforcing protection for said invention, inc said Letters Patent(s), in any interference, proceeding which may arise or be declared	NEE may deem necessary, desirat luding in the preparation and pros reissue, reexamination, or public t in relation to some, such acts to i	vithout charge to but at the expense of said ble or expedient, for securing, maintaining and secution of said application(s) and the issuance of use proceeding, and in any litigation or other legal include but not be limited to executing all papers, reviding sworn testimony, and obtaining and		
	IN WITNESS WHEREOF, the un	dersigned inventor(s) has (have) ai	fixed his/her/their signature(s).		
(Signatures)	1) Shouta Tatizawa	Shouta Takizawa (TYPE NAME)	December 29, 2015		
	r 1 1	•	December 29, 2015		
	2) Tumpan Varamon (SIGNATURE)	(TYPE NAME)	(DATE)		
	31 Fazunoi Ban_	Kazunori Ban	December 29, 2015		
	(SIGNATURE)	(TYPE NAME)	(DATE)		
	4) (SIGNATURE)	(TYPE NAME)	(DATE)		
	S)(SIĞNATURÉ)	(TYPE NAME)	(DATE)		
	6)(SIGNATURE)	(TYPE NAME)	(DATE)		
	7)(SIGNATURE)	(TYPE NAME)	(DATE)		
	8)(SIGNATURE)	(TYPE NAME)	(DATE)		

PATENT REEL: 038002 FRAME: 0323

RECORDED: 03/04/2016