505317507 02/07/2019 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5364288

SUBMISSION TYP	E:	NEW ASSIGNMENT ASSIGNMENT	
NATURE OF CON	/EYANCE:		
CONVEYING PAF			
		Name	Execution Date
HIROSHI NAKAG/	AWA		01/15/2019
KENICHIRO ABE			01/15/2019
YUNFENG WU			01/15/2019
HIKARU YAMASH	IIRO		01/15/2019
HIDEO MATSUI			01/15/2019
SOICHI ARITA			01/15/2019
YUKIO TAKEDA			01/15/2019
MASUMI OHNO			01/15/2019

Name:	FANUC CORPORATION
Street Address:	3580, SHIBOKUSA AZA-KOMANBA
Internal Address:	OSHINO-MURA, MINAMITSURU-GUN
City:	YAMANASHI
State/Country:	JAPAN
Postal Code:	401-0597
Name:	TOKYO INSTITUTE OF TECHNOLOGY
Street Address:	2-12-1, OOKAYAMA
Internal Address:	MEGURO-KU
City:	ТОКҮО
State/Country:	JAPAN
Postal Code:	152-8550

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16269568

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. Phone: 7036841111

Email: Correspondent Name: Address Line 1:	HAU 2318	oup@ipfirm.com PTMAN HAM, LLP MILL ROAD
Address Line 2: Address Line 4:	SUITE 1400 ALEXANDRIA, VIRGINIA 22314	
ATTORNEY DOCKET NUMBE	R:	4639-825
NAME OF SUBMITTER:		BENJAMIN J. HAUPTMAN
SIGNATURE:		/Benjamin J. Hauptman/
DATE SIGNED:		02/07/2019
Total Attachments: 2 source=F-Assignment#page1.til source=F-Assignment#page2.til		

U.S. ASSIGNMENT

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

	the undersigned inventor(s) (hereinafter "A	SSIGNOR") by						
(Insert	FANUC CORPORATION							
ASSIGNEE's Name(s) Address(es))	3580, Shibokusa Aza-Komanba, Oshino-mura, Minamitsuru-gun, Yamanashi 401-0597,							
	Japan TOKYO INSTITUTE OF TECHNOLOGY							
	2-12-1, Ookayama, Meguro-k	au, Tokyo 152-8550 Ja	ipan					
	(hereinaßer "ASSIGNEE"), the receipt of w transfers to ASSIGNEE the entire and exc	hich is hereby acknowledged, th lusive right, title and interest to	ne undersigned ASSIGNOR hereby sells, assigns and the invention entitled					
(Title of Invention)	DEVICE AND METHOD F	OR DETECTING A	BNORMALITY OF JOINT OF ROBOT					
	relating to International Patent Application of the United States was executed on even	n PCT/JP// date herewith or, if not so exec	and/or for which application for Letters Patent suled, was:					
(insert date of execution of application, if not concurrent)	(e) executed on (b) filed on Serial No/	: Assignee's attorney is data, when known. :	t hereby authorized to insert in (b) the specified					
	and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue 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, hereinafter, "said application(s) and Letters Patent(s)").							
	ASSIGNEE, to do all acts which the ASSIC enforcing protection for said invention, in said Letters Patent(s), in any interference, proceeding which may arise or be declared	INEE may deem necessary, desi cluding in the preparation and p reissue, reexamination, or public in relation to same, such acts	nd without charge to but at the expense of said irable or expedient, for securing, maintaining and prosecution of said application(s) and the issuance of lie use proceeding, and in any litigation or other legal to include but not be limited to executing all papers, s, providing sworn testimony, and obtaining and					
	IN WITNESS WHEREOF, the ur	ndersigned inventor(s) has (have	e) affixed his/her/their signature(s).					
(Signatures)	Hinoshi hakana	Hiroshi Nakagawa	January 15, 2019					
	(SIGNATURE)	(TYPE NAME)	(DATE)					
	2) Henchino abe	Kenichiro Abe	January 15, 2019					
	(SIGNATURE)	(TYPE NAME)	(DATE)					
	3) Junteny Wa (SIGNATURE)	Yunfeng Wu	January 15, 2019					
		(TYPE NAME)	(DATE)					
	4) Hikaru Yamachiro (SIGNATURE)	Hikaru Yamashiro (TYPE NAME)	January 15, 2019					
	5)(SIGNATURE)	Hideo Matsui	January 15, 2019					
	6) Souchi Arica	Soichi Arita	January 15, 2019					
	(SIGNATURE)	(TYPE NAME)	(DATE)					
	2)	Yukio Takeda						
	7)(SIGNATURE)	(TYPE NAME)	(DATE)					
		Masumi Ohno						

(TYPE NAME)

8)_

(SIGNATURE)

PATENT REEL: 048263 FRAME: 0188

۸,

(DATE)

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 TOKYO INSTITUTE OF TECHNOLOGY						
	2-12-1, Ookayama, Meguro	o-ku, Tokyo 152-8550 Japa	n				
	(hereinafter "ASSIGNEE"), the receipt of transfers to ASSIGNEE the entire and		ndersigned ASSIGNOR hereby sells, assigns and c invention entitled				
(Title of Invention)	DEVICE AND METHOD	FOR DETECTING ABN	NORMALITY OF JOINT OF ROBOT				
	relating to International Patent Applics of the United States was executed on e	tion PCT/JP/////	and/or for which application for Letters Patent d, was:				
(Insert date of execution of application, if not concurrent)	(a) executed on (b) filed on Serial No/	Assignee's attorney is her data, when known.	reby authorized to insert in (b) the specified				
	and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue 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, hereinafter, "said application(s) and Letters Patent(s)").						
	ASSIGNEE, to do all acts which the AS enforcing protection for said invention, said Letters Patent(s), in any interferer proceeding which may arise or be decl	SIGNEE may deem necessary, desirab including in the preparation and pros ice, reissue, reexamination, or public u ared in relation to same, such acts to i	without charge to but at the expense of said ole or expedient, for securing, maintaining and secution of said application(s) and the issuance of use proceeding, and in any litigation or other legal nclude but not be limited to executing all papers, roviding sworn testimony, and obtaining and				
	IN WITNESS WHEREOF, the	e undersigned inventor(s) has (have) af	fixed his/her/their signature(s).				
(Signatures)		Hiroshi Nakagawa					
(0.5	1)(SIGNATURE)	(TYPE NAME)	(DATE)				
	2	Kenichiro Abe					
	2)(SIGNATURE)	(TYPE NAME)	(DATE)				
		Yunfeng Wu					
	3)(SIGNATURE)	(TYPE NAME)	(DATE)				
		Hikaru Yamashiro					
	4)(SIGNATURE)	(TYPE NAME)	(DATE)				
		Hideo Matsui					
	5) (SIGNATURE)	(TYPE NAME)	(DATE)				
		Soichi Arita					
	6)(SIGNATURE)	(TYPE NAME)	(DATE)				
	Unin Tahoda	Yukio Takeda					
	7) (SIGNATURE)	(TYPE NAME)	<u>January 15, 201</u> 9 (DATE)				

Masumi Ohno

(TYPE NAME)

PATENT REEL: 048263 FRAME: 0189

January 15, 2019 (DATE)

RECORDED: 02/07/2019

8)

Ohn

(SIGNATURE)