PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4438657

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		

CONVEYING PARTY DATA

Name	Execution Date
TAKAHIRO TAMURA	04/18/2017
YUICHI ONOZAWA	04/18/2017
TAKASHI YOSHIMURA	04/18/2017
HIROSHI TAKISHITA	04/18/2017
AKIO YAMANO	04/18/2017

RECEIVING PARTY DATA

Name:	FUJI ELECTRIC CO., LTD.	
Street Address:	1-1, TANABESHINDEN, KAWASAKI-KU	
Internal Address:	KAWASAKI-SHI	
City:	KANAGAWA	
State/Country:	JAPAN	
Postal Code:	210-9530	

PROPERTY NUMBERS Total: 1

Property Type	Number				
Application Number:	15607696				

CORRESPONDENCE DATA

Fax Number: (000)000-0000

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: usdocket@ryuka.com
Correspondent Name: RYUKA IP LAW FIRM

Address Line 1: 1-6-1 SHINJUKU L TOWER 22ND FLOOR

Address Line 2: NISHI-SHINJUKU, SHINJUKU-KU

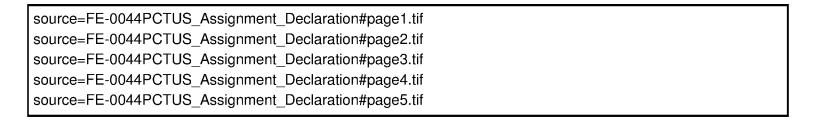
Address Line 4: TOKYO, JAPAN 163-1522

NAME OF SUBMITTER:	ADAM S. LANGLEY		
SIGNATURE:	/Adam S. Langley/		
DATE SIGNED:	05/30/2017		
This document serves as an Oath/Declaration (37 CFR 1.63)			

Total Attachments: 5

PATENT REEL: 042550 FRAME: 0751

504391960



As the below named inventor, I hereby declare that:
This declaration is directed to:
The attached application, or
United States application or PCT international application No. filed on .
The above-identified application was made or was authorized to be made by me.
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.
WHEREAS I, the undersigned inventor, hereafter also referred to as "assignor", have invented certain new and useful improvements described in the above identified application; and
WHEREAS, <u>FUJI ELECTRIC CO., LTD.</u> hereinafter also referred to as "assignee", whose address is <u>1-1, Tanabeshinden, Kawasaki-ku, Kawasaki-shi, Kanagawa 210-9530 Japan</u> , is desirous of acquiring the entire right, title and interest in and to the application and invention, and to any United States patents to be obtained therefor;
NOW. THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged. I hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title, and interest in the application and the invention disclosed therein for the United States of America, including all divisions and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including any right to bring or maintain an action for infringement under the provisional rights granted pursuant to Title 35. Section 154 of the United States Code or any other cause of action for acts which would constitute infringement occurring prior to this assignment, and including the right to claim priority under the International Conventions of Paris (1883), as amended, of or in any corresponding foreign patent application, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns.
Legal Name of Inventor Takahiro TAMURA
Inventor's Signature Famura Date April 18, 2017 Famura

As the below named inventor, I hereby declare that:

·
This declaration is directed to:
The attached application, or
United States application or PCT international application No. filed on .
The above-identified application was made or was authorized to be made by me.
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.
WHEREAS I, the undersigned inventor, hereafter also referred to as "assignor", have invented certain new and useful improvements described in the above identified application; and
WHEREAS, <u>FUJI ELECTRIC CO., LTD.</u> hereinafter also referred to as "assignee", whose address is <u>1-1, Tanabeshinden, Kawasaki-ku, Kawasaki-shi, Kanagawa 210-9530 Japan</u> , is desirous of acquiring the entire right, title and interest in and to the application and invention, and to any United States patents to be obtained therefor;
NOW. THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby

NOW. THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title, and interest in the application and the invention disclosed therein for the United States of America, including all divisions and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including any right to bring or maintain an action for infringement under the provisional rights granted pursuant to Title 35, Section 154 of the United States Code or any other cause of action for acts which would constitute infringement occurring prior to this assignment, and including the right to claim priority under the International Conventions of Paris (1883), as amended, of or in any corresponding foreign patent application, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns.

Legal Name of Inventor

Yuichi ONOZAWA

Yurchi Onozava

Inventor's Signature

Date

PATENT REEL: 042550 FRAME: 0754

april 18,247

As the below named inventor, I hereby declare that:
This declaration is directed to:
★ The attached application, or
United States application or PCT international application No. filed on .
The above-identified application was made or was authorized to be made by me.
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application
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NOW. THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title, and interest in the application and the invention disclosed therein for the United States of America, including all divisions and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including any right to bring or maintain an action for infringement under the provisional rights granted pursuant to Title 35, Section 154 of the United States Codor any other cause of action for acts which would constitute infringement occurring prior to this assignment, and including the right to claim priority under the International Conventions of Paris (1883), as amended, of or in any corresponding foreign patent application, and I request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns.
Legal Name of Inventor Takashi YOSHIMURA
Inventor's Signature Takashi Yoshimura Date April, 18, 2017

As the below named inv	entor, I hereby declare that:			•
This declaration is direct	ed to:			
The attached applicat	ion, or			
United States applica filed on .	tion or PCT international application	No.		
The above-identified app	lication was made or was authorized	to be made by n	ne.	
I believe that I am the ori	ginal inventor or an original joint inv	entor of a claim	ed invention in the application	n.
	at any willful false statement made in ment of not more than five (5) years,		i is punishable under 18 U.S.C	
	igned inventor, hereafter also referred described in the above identified app		r", have invented certain new	
<u>Tanabeshinden, Kawasal</u>	CTRIC CO., LTD. hereinafter also re ki-ku, Kawasaki-shi, Kanagawa 210- and to the application and invention.	<u>-9530 Japan</u> , is	desirous of acquiring the entir	
acknowledged, I hereby sentire right, title, and into America, including all dimay be granted thereon, infringement under the por any other cause of actional including the right to or in any corresponding the	r valuable consideration, the receipt a sell, assign and transfer to the above rest in the application and the invent visions and continuations thereof, and all reissues thereof, including any rovisional rights granted pursuant to ion for acts which would constitute in claim priority under the International foreign patent application, and I require any Letters Patent granted upon the and assigns.	named assignee, ion disclosed the dall Letters Pate y right to bring of Title 35. Section of Conventions of the Director	its successors and assigns, the erein for the United States of ent of the United States that or maintain an action for a 154 of the United States Codurring prior to this assignment of Paris (1883), as amended, o of the U.S. Patent and	le :,
Legal Name of Inventor	Hiroshi TAKISHITA			
Inventor's Signature	Hiroshi, TAKISHITA	Date	April - 18.2017	

As the below named inv	entor, I he	reby declare that	:			
This declaration is directed	ed to:					
☐ The attached applicat	ion, or					
United States applicate filed on .	tion or PCT	`international app	lication No.			
The above-identified app	lication wa	s måde ör was autf	iorized to be mi	ade by n	1e.	
I believe that I am the ori	ginal inven	tor or an original j	oint inventor of	fa claim	ed inventio	n in the application
I hereby acknowledge that 1001 by fine or imprisona	=				is punishal	ole under 18 U.S.C.
WHEREAS I, the unders and useful improvements	~			_	", have inve	ented certain new
WHEREAS, FUILELEC Tanabeshinden, Kawasak right, title and interest in obtained therefor;	ú-ku, Kawa	isaki-shi, Kanagay	va 210-9530 Ja	apan, is	desirous of	acquiring the entire
NOW, THEREFORE, for acknowledged, I hereby sentire right, title, and interpretent America, including all dimay be granted thereon, a infringement under the programy other cause of actionand including the right to or in any corresponding for Trademark Office to issue assignee, its successors as	rest in the avisions and all reiss rovisional roots on for acts claim prior or early Letter any Letter	and transfer to the application and the continuations there is thereof, including the granted pursion which would consisty under the Internation, and	above named a invention discletof, and all Let ling any right to ant to Title 35, titute infringementional Conve	ssignee, losed the ters Pate o bring of Section entions of Director of Section of Sections	its successore in for the Upper maintain 154 of the urring prior of Paris (188 of the U.S.)	ors and assigns, the United States of nited States that an action for United States Code to this assignment, 33), as amended, of Patent and
Legal Name of Inventor	Akio YAM	1ANO				
Inventor's Signature	Alao	YAMANO		Date	April	18, 2017

RECORDED: 06/01/2017