PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4847811

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YOSHIHARU KATO	12/28/2017
HIDENORI TAKAHASHI	12/28/2017
TATSUYA NAITO	01/17/2018

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:	15908843

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.

Phone: (408) 213-8153

Email: usdocket@ryuka.com
Correspondent Name: RYUKA USA LLP

Address Line 1: 111 NORTH MARKET STREET

Address Line 2: SUITE 300

Address Line 4: SAN JOSE, CALIFORNIA 95113

NAME OF SUBMITTER:	ADAM S. LANGLEY	
SIGNATURE:	/Adam S. Langley/	
DATE SIGNED:	03/02/2018	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 3

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COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR §1.76) AND ASSIGNMENT

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, FUJI ELECTRIC CO., LTD. hereinafter also referred to as "assignee", whose address is 1-1, Tanabeshinden, Kawasaki-ku, Kawasaki-shi, Kanagawa 210-9530 Japan, 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 Yoshiharu KATO

Inventor's Signature

Yoshiham Kato

PATENT REEL: 045086 FRAME: 0537

Docomber 28,2017

Date

COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR §1.76) AND ASSIGNMENT

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, FUJI ELECTRIC CO., LTD. hereinafter also referred to as "assignee", whose address is 1-1, Tanabeshinden, Kawasaki-ku, Kawasaki-shi, Kanagawa 210-9530 Japan, 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

Legal Name of Inventor

assignee, its successors and assigns.

Hidenori TAKAHASHI

Inventor's Signature

Hidenori Jokakashi

Date

December 28, 2017

COMBINED DECLARATION (37 CFR §1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR §1.76) AND ASSIGNMENT

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</u> , <u>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 Tatsuya NAITO
Inventor's Signature Tatsura NAITO Date January 2018.

RECORDED: 03/02/2018