PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KATSUYA ONO	03/27/2018
TAKESHI TAMAKI	03/27/2018
HIDETOSHI UEMATSU	03/27/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16009906

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	ROSS T. ROBINSON	
SIGNATURE:	/Ross T. Robinson/	
DATE SIGNED:	06/15/2018	

Total Attachments: 4

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> **PATENT** REEL: 046102 FRAME: 0455 504962831

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PATENT REEL: 046102 FRAME: 0456

ASSIGNMENT

THIS ASSIGNMENT, by <u>Katsuva ONO</u>, <u>Takeshi TAMAKI</u> and <u>Hidetoshi</u>

<u>UEMATSU</u> (hereinafter Assignors), of c/o FANUC CORPORATION, 3580, Shibokusa Azakomanba, Oshino-mura, Minamitsuru-gun, Yamanashi 401-0597 Japan, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in

MOTOR CONTROLLER

set forth in an application for Letters Patent of the United States, filed herewith; and

WHEREAS, FANUC CORPORATION of 3580, Shibokusa Aza-komanba, Oshino-mura, Minamitsuru-gun, Yamanashi 401-0597 Japan (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to the inventions and the Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is acknowledged, Assignors have sold, assigned, transferred and set over, and do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the abovementioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of the application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these

1

PATENT REEL: 046102 FRAME: 0457 presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the inventions and application for Letters Patent abovementioned, and that same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey same in the manner set forth in this Assignment.

AND for the same consideration, Assignors covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, does advise: that any proceeding in connection with the inventions, or Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for the inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable. All travel expenses and other out-of-pocket costs incurred by Assignors in connection with any of the above actions requested by Assignee, or counsel of its successors, legal representatives and assigns, shall be fully reimbursed by Assignee.

AND Assignors request the Commissioner of Patent and Trademarks to issue Letters Patent of the United States to Assignee, as Assignee of inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

WINSTEAD PC

All practitioners at Customer Number 61060

2

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

March 27, 2018	Katsuya Ono Katsuya ONO
~ ***	
Witness:	
March 27, 2018	<u>Ajulao Shi kayo _</u>
Date	
March 27, 2018	Jakeshi Tamaki
Date	Takeshi TAMAKI
Witness: March 27, 2018	Byalee Stibuyo
Date	
March 27, 2018	Hidetorhi Vemetsu
Date	Hidetoshi UEMATSU
Witness:	Ajako Kirkina
March 27, 2018	VAMO ON WAS