11/01/2018 505171627

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT				
NATURE OF CONVEYANCE:	ASSIGNMENT				

CONVEYING PARTY DATA

Name	Execution Date
KENICHIRO ABE	10/12/2018
MASAHIRO MORIOKA	10/12/2018
TOSHIRO WATANABE	10/12/2018
MICHIO KINOSHITA	10/12/2018
KOU ISOZAKI	10/12/2018

RECEIVING PARTY DATA

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City:	YAMANASHI
State/Country:	JAPAN
Postal Code:	401-0597

PROPERTY NUMBERS Total: 1

Property Type	Number						
Application Number:	29664470						

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ATTORNEY DOCKET NUMBER:	008815.00009
NAME OF SUBMITTER:	ROBERT S. KATZ
SIGNATURE:	/Robert S. Katz/
DATE SIGNED:	11/01/2018

PATENT REEL: 047387 FRAME: 0480 505171627

Total Attachments: 2

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PATENT REEL: 047387 FRAME: 0481

Joint Assignment Client Ref: FANFD-010/US Attorney Docket No. 008815.00009

ASSIGNMENT

WHEREAS, WE, Kenichiro ABE, Masahiro MORIOKA, Toshiro WATANABE, Michio KINOSHITA and Kou ISOZAKI, all residing in JAPAN ("ASSIGNORS"), are the inventors of certain inventions and improvements described in a U.S. patent application identified and having the title

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which	appl	lication	was

filed on $\frac{\text{September 25, 2018}}{\text{and assigned application number}} = \frac{29/664,470}{\text{constant}}$

and WHEREAS

FANUC CORPORATION 3580, Shibokusa Aza-komanba, Oshino-mura, Minamitsuru-gun, Yamanashi 401-0597 Japan

ASSIGNEE, desires to acquire the entire right, title and interest in and to the said application, inventions and improvements and any patents that may be granted on or as a result thereof in the United States of America (U.S.) and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged,

We hereby assign, to the above named ASSIGNEE, its successors, assigns and legal representatives (NOMINEES) the entire right, title and interest in and to said application, inventions and improvements throughout the world and to any and all patents, petty patents and utility model patents which may be granted therefor, and all continuations, continuations-in-part, divisions, reissues, extensions, renewals, and any non-provisional based on a provisional thereof (LETTERS PATENT).

And we covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement or do anything in conflict herewith;

And we further covenant and agree that we will without undue delay execute without further consideration all such papers as may be necessary to perfect the title to said application, inventions and improvements, and LETTERS PATENT in the ASSIGNEE or its NOMINEES, and we agree to communicate to said ASSIGNEE or its NOMINEES all known facts respecting said application, inventions, improvements, and LETTERS PATENT, to testify in any legal proceedings, to sign all lawful papers, and generally to do all things necessary to aid ASSIGNEE or its NOMINEES to obtain and enforce for their own benefit patent protection for said application, inventions and improvements in any and all countries, all at the expense, however, of the ASSIGNEE or its NOMINEES;

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And we authorize the ASSIGNEE or its NOMINEES to file in our names or their own, as appropriate, application for LETTERS PATENT in any and all countries of the world, and we authorize and request the Commissioner of Patents and Trademarks of the United States, and any proper official of any country, to issue to said ASSIGNEE or its NOMINEES any and all LETTERS PATENT for said application, inventions and improvements, for their sole use, to the full end of the term for which such LETTERS PATENT may be granted;

And we hereby grant our attorneys at the law firm of Banner & Witcoff the power to insert into this document information sufficient to identify the patent application to which this assignment pertains.

Date: October 12, 2018 Inventor: Macahiro Monioka

Date: October 12, 2018 Inventor: Macahiro Monioka

Date: October 12, 2018 Inventor: Foshiro Watanabe

Toshiro WATANABE

Date: October 12, 2018 Inventor: Michio Kinoshita

Michio Kinoshita

Date: October 12, 2018 Inventor: Kou Isozaki

Kou Isozaki

Note: No legalization or other witness required.

LAW OFFICES

BANNER & WITCOFF, LTD. 1100 13th STREET, N.W. WASHINGTON, D.C. 20005-4051 (202) 824-3000

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