

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KUN WEI	05/30/2014
HAIHUI LU	05/03/2014
ANDREW JAAP	06/05/2014
DAVID MESSERSMITH	05/28/2014
RANDALL LANGER	05/29/2014
PING LEE	05/29/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ROCKWELL AUTOMATION TECHNOLOGIES, INC.
<b>Street Address:</b>	1 ALLEN-BRADLEY DRIVE
<b>City:</b>	MAYFIELD HEIGHTS
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	44124
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14321356
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(801)531-1929
<i>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.</i>	
<b>Phone:</b>	801-994-4646
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<b>Correspondent Name:</b>	BRUCE R. NEEDHAM
<b>Address Line 1:</b>	8 EAST BROADWAY
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<b>Address Line 4:</b>	SALT LAKE CITY, UTAH 84111
<b>ATTORNEY DOCKET NUMBER:</b>	13AB235-US-A
<b>NAME OF SUBMITTER:</b>	BRUCE RAY NEEDHAM
<b>SIGNATURE:</b>	/Bruce R. Needham/
<b>DATE SIGNED:</b>	07/02/2014
<b>Total Attachments: 5</b>	

PATENT

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**ASSIGNMENT**

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

1. United States Patent Application Number 14/321,356 entitled: QUASI VECTOR MOTOR CONTROLLER, and filed July 1, 2014 for Kun Wei, et al., docket number 13AB235-US.
2. Chinese Patent Application Number 201410211196.9 entitled: QUASI VECTOR MOTOR CONTROLLER, and filed May 19, 2014 for Kun Wei, et al., docket number 13AB235-CN.

Whereas, Rockwell Automation Technologies, Inc. a corporation of Ohio, having a place of business at 1 Allen-Bradley Drive, Mayfield Heights, Ohio 44124 (herein referred to as "Rockwell Automation Technologies, Inc."), desires to acquire, and each undersigned inventor desires to grant Rockwell Automation Technologies, Inc., the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to Rockwell Automation Technologies, Inc. (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to Rockwell Automation Technologies, Inc., its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by Rockwell Automation Technologies, Inc., its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in Rockwell Automation Technologies, Inc., its successors, legal representatives, and assigns, whenever requested by Rockwell Automation Technologies, Inc., its successors, legal representatives, or assigns.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to Rockwell Automation Technologies, Inc., and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants Rockwell Automation Technologies, Inc., its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of Ohio, and any disputes will be resolved in an Ohio state court or federal

substantive laws of the State of Ohio, and any disputes will be resolved in an Ohio state court or federal court sited in Ohio.

(1) Legal Name of Inventor: **KUN WEI**

Signature: Kun Wei Date: May 30, 2014

(2) Legal Name of Inventor: **HAIHUI LU**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(3) Legal Name of Inventor: **ANDREW JAAP**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(4) Legal Name of Inventor: **DAVID MESSERSMITH**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(5) Legal Name of Inventor: **RANDALL LANGER**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(6) Legal Name of Inventor: **PING LEE**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

substantive laws of the State of Ohio, and any disputes will be resolved in an Ohio state court or federal court sited in Ohio.

(1) Legal Name of Inventor: KUN WEI

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(2) Legal Name of Inventor: HAIHUI LU

Signature: Hai-hui Lu Date: May 30, 2014

(3) Legal Name of Inventor: ANDREW JAAP

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(4) Legal Name of Inventor: DAVID MESSERSMITH

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(5) Legal Name of Inventor: RANDALL LANGER

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(6) Legal Name of Inventor: PING LEE

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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(1) Legal Name of Inventor: **KUN WEI**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(2) Legal Name of Inventor: **HAIHUI LU**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(3) Legal Name of Inventor: **ANDREW JAAP**

Signature:  Date: 6/5/2014

(4) Legal Name of Inventor: **DAVID MESSERSMITH**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(5) Legal Name of Inventor: **RANDALL LANGER**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(6) Legal Name of Inventor: **PING LEE**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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(1) Legal Name of Inventor: **KUN WEI**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(2) Legal Name of Inventor: **HAIHUI LU**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(3) Legal Name of Inventor: **ANDREW JAAP**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(4) Legal Name of Inventor: **DAVID MESSERSMITH**

Signature: David Messersmith Date: 5/29/2014

(5) Legal Name of Inventor: **RANDALL LANGER**

Signature: Randall Langer Date: 5/29/2014

(6) Legal Name of Inventor: **PING LEE**

Signature: Ping Lee 李秉淳 Date: 5/29/2014