

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the first name of Assignor Thomas Nondal and the last name of Assignor Peter Schmidt previously recorded on Reel 030715 Frame 0841. Assignor(s) hereby confirms the spelling of Thhomas should be Thomas, and the spelling of Schidt should be Schmidt..										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jingbo Liu</td> <td>06/27/2013</td> </tr> <tr> <td>Thomas Nondahl</td> <td>06/27/2013</td> </tr> <tr> <td>Peter Schmidt</td> <td>06/27/2013</td> </tr> <tr> <td>Semyon Royak</td> <td>06/29/2013</td> </tr> </tbody> </table>		Name	Execution Date	Jingbo Liu	06/27/2013	Thomas Nondahl	06/27/2013	Peter Schmidt	06/27/2013	Semyon Royak	06/29/2013
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Peter Schmidt	06/27/2013										
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<table border="1"> <tr> <td>Name:</td> <td>Rockwell Automation Technologies, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1 Allen-Bradley Drive</td> </tr> <tr> <td>City:</td> <td>Mayfield Heights</td> </tr> <tr> <td>State/Country:</td> <td>OHIO</td> </tr> <tr> <td>Postal Code:</td> <td>44124</td> </tr> </table>		Name:	Rockwell Automation Technologies, Inc.	Street Address:	1 Allen-Bradley Drive	City:	Mayfield Heights	State/Country:	OHIO	Postal Code:	44124
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CORRESPONDENCE DATA											
Fax Number:	2163639001										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	216-363-9000										
Email:	kforsyth@faysharpe.com										
Correspondent Name:	FAY SHARPE LLP - STEVEN HAAS										
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Address Line 4:	CLEVELAND, OHIO 44115										
ATTORNEY DOCKET NUMBER:	ROKZ200114US01										
NAME OF SUBMITTER:	Eric Highman										

OP \$40.00 13931839

Signature:	/Eric Highman/
Date:	07/03/2013
<b>Total Attachments: 10</b> source=ROKZ200114US01_CorrectiveAssignment#page1.tif source=ROKZ200114US01_CorrectiveAssignment#page2.tif source=ROKZ200114US01_CorrectiveAssignment#page3.tif source=ROKZ200114US01_CorrectiveAssignment#page4.tif source=ROKZ200114US01_CorrectiveAssignment#page5.tif source=ROKZ200114US01_CorrectiveAssignment#page6.tif source=ROKZ200114US01_CorrectiveAssignment#page7.tif source=ROKZ200114US01_CorrectiveAssignment#page8.tif source=ROKZ200114US01_CorrectiveAssignment#page9.tif source=ROKZ200114US01_CorrectiveAssignment#page10.tif	

APPLICATION NUMBER: 13931839

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD AND APPARATUS FOR STABILITY CONTROL OF OPEN LOOP MOTOR  
DRIVE OPERATION

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION



United States Patent and Trademark Office

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**PATENT ASSIGNMENT**

Electronic Version v1.1  
Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT										
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<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	2163639001
<b>Phone:</b>	216-363-9000
<b>Email:</b>	ehighman@faysharpe.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Correspondent Name:</b>	Steven Haas
<b>Address Line 1:</b>	1228 Euclid Avenue
<b>Address Line 2:</b>	5th Floor
<b>Address Line 4:</b>	Cleveland, OHIO 44115
<b>ATTORNEY DOCKET NUMBER:</b>	ROKZ200114US01
<b>NAME OF SUBMITTER:</b>	Eric Highman
<b>Signature:</b>	/Eric Highman/
<b>Date:</b>	06/29/2013
<b>Total Attachments: 6</b> source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif	
<b>RECEIPT INFORMATION</b>	
<b>EPAS ID:</b>	PAT2446630
<b>Receipt Date:</b>	06/29/2013
<b>Fee Amount:</b>	\$40

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**13AB126-US - ASSIGNMENT OF INVENTION**

WHEREAS,

**JINGBO LIU**, 1973 Chippewa Court, Grafton, WI 53024;  
**THOMAS NONDAHL**, 5020 S. 55th Street, Apt 325, Greenfield, WI 53220;  
**PETER SCHMIDT**, 7798 S. Wyndham Hills Pkwy., Franklin, WI 53132; and  
**SEMYON ROYAK**, 3880 Wild Cherry Trail, Orange Village, OH 44122

(hereinafter sometimes referred to as "said inventors"), have invented certain new and useful improvements in an invention disclosed in a utility patent application entitled **METHOD AND APPARATUS FOR STABILITY CONTROL OF OPEN LOOP MOTOR DRIVE OPERATION** which invention (hereinafter sometimes referred to as "said invention") has been disclosed to and filed, under **Docket No. 13AB126-US**, in the patent files of **ROCKWELL AUTOMATION TECHNOLOGIES, INC.** and which invention is the subject of a utility patent application executed on even date herewith.

NOW THEREFORE, it is agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, said inventors have sold, assigned and transferred and by these presents do sell, assign and transfer unto **ROCKWELL AUTOMATION TECHNOLOGIES, INC.**, an Ohio corporation, the entire right, title and interest in said invention in the United States of America and all foreign countries and in and to said U.S. patent application and all patent applications, divisions, substitutions, continuations and continuations-in-part thereof, and in all United States Letters Patents which may be granted thereon and all reissues and extensions thereof, and in all priority rights under the International Convention for the Protection of Industrial Property for every member country, and in all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said invention in any foreign countries, and in all patents (including all extensions, renewals and reissues thereof) granted for said invention; said applications and patents to be held and enjoyed by said **ROCKWELL AUTOMATION TECHNOLOGIES, INC.**, for its use and for the use of its successors and assigns, to the full end of the term for which Letters Patent on same may be granted, as fully and entirely as the same would have been held by said inventors had this assignment and sale not been made.



Peter Schmidt  
PETER SCHMIDT

My Commission Expires: April 13, 2014  
27-Jun-13  
Date

**CERTIFICATE OF ACKNOWLEDGEMENT**

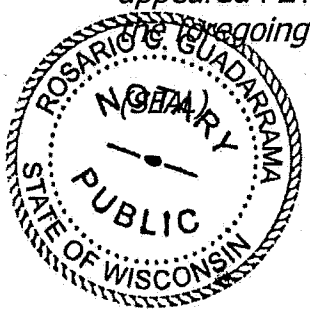
State of Wisconsin )  
County of Milwaukee ) ss

On this 27<sup>th</sup> day of June, 2013, before me personally  
appeared PETER SCHMIDT, to me known to be the person whose name is subscribed to  
the foregoing instrument, and acknowledged to me that he executed the same.

Rosario C Guadarama

Notary Public, State of Wisconsin

My Commission Expires: April 13, 2014



\_\_\_\_\_  
SEMYON ROYAK

\_\_\_\_\_  
Date

**CERTIFICATE OF ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss

On this \_\_\_ day of \_\_\_\_\_, 20\_\_\_, before me personally  
appeared SEMYON ROYAK, to me known to be the person whose name is subscribed to  
the foregoing instrument, and acknowledged to me that he executed the same.

(SEAL)

\_\_\_\_\_  
Notary Public, State of \_\_\_\_\_

My Commission Expires: \_\_\_\_\_



**13AB126-US - ASSIGNMENT OF INVENTION**

WHEREAS,

**JINGBO LIU**, 1973 Chippewa Court, Grafton, WI 53024;  
**THOMAS NONDAHL**, 5020 S. 55th Street, Apt 325, Greenfield, WI 53220;  
**PETER SCHMIDT**, 7798 S. Wyndham Hills Pkwy., Franklin, WI 53132; and  
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NOW THEREFORE, it is agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, said inventors have sold, assigned and transferred and by these presents do sell, assign and transfer unto **ROCKWELL AUTOMATION TECHNOLOGIES, INC.**, an Ohio corporation, the entire right, title and interest in said invention in the United States of America and all foreign countries and in and to said U.S. patent application and all patent applications, divisions, substitutions, continuations and continuations-in-part thereof, and in all United States Letters Patents which may be granted thereon and all reissues and extensions thereof, and in all priority rights under the International Convention for the Protection of Industrial Property for every member country, and in all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said invention in any foreign countries, and in all patents (including all extensions, renewals and reissues thereof) granted for said invention; said applications and patents to be held and enjoyed by said **ROCKWELL AUTOMATION TECHNOLOGIES, INC.**, for its use and for the use of its successors and assigns, to the full end of the term for which Letters Patent on same may be granted, as fully and entirely as the same would have been held by said inventors had this assignment and sale not been made.

Assignment of Invention to Rockwell Automation Technologies, Inc.  
**A SIMPLE AND EFFECTIVE STABILITY CONTROL FOR POSITION SENSORLESS  
CURRENT REGULATED OPEN LOOP OPERATION FOR INDUCTION AND  
PERMANENT MAGNETIC MOTOR DRIVES**  
13AB126-US  
Page 2

FURTHER, said inventors hereby agree to sign all lawful papers necessary or helpful in obtaining patents on said invention or in filing any divisional, continuation, substitution, or reissue patent application or re-examination proceedings on said invention whether in the United States of America or in any foreign country.

\_\_\_\_\_  
**JINGBO LIU**

\_\_\_\_\_  
Date

**CERTIFICATE OF ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss

On this \_\_\_ day of \_\_\_\_\_, 20\_\_\_, before me personally appeared JINGBO LIU, to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

(SEAL)

\_\_\_\_\_

Notary Public, State of \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
**THOMAS NONDAHL**

\_\_\_\_\_  
Date

**CERTIFICATE OF ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ )

On this \_\_\_ day of \_\_\_\_\_, 20\_\_\_, before me personally appeared THOMAS NONDAHL, to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

(SEAL)

\_\_\_\_\_

Notary Public, State of \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
**PETER SCHMIDT**

\_\_\_\_\_  
Date

**CERTIFICATE OF ACKNOWLEDGEMENT**

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss

On this \_\_\_ day of \_\_\_\_\_, 20\_\_\_, before me personally  
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the foregoing instrument, and acknowledged to me that he executed the same.

(SEAL)

\_\_\_\_\_  
Notary Public, State of \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

Semyon Royak  
**SEMYON ROYAK**

6/29-2013  
Date

**CERTIFICATE OF ACKNOWLEDGEMENT**

State of OHIO )  
County of CUYAHOGA ) ss

On this 29<sup>th</sup> day of June, 2013, before me personally  
appeared SEMYON ROYAK, to me known to be the person whose name is subscribed to  
the foregoing instrument, and acknowledged to me that he executed the same.

(SEAL)

Margaret Jones  
Notary Public, State of OHIO

My Commission Expires: January 22, 2018

