

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Semyon Royak</td> <td>06/15/2009</td> </tr> <tr> <td>Mark M. Harbaugh</td> <td>06/15/2009</td> </tr> <tr> <td>Thomas A. Nondahl</td> <td>06/15/2009</td> </tr> <tr> <td>Jingbo Liu</td> <td>06/15/2009</td> </tr> <tr> <td>Peter B. Schmidt</td> <td>06/15/2009</td> </tr> <tr> <td>Robert J. Breitzmann</td> <td>06/15/2009</td> </tr> </tbody> </table>		Name	Execution Date	Semyon Royak	06/15/2009	Mark M. Harbaugh	06/15/2009	Thomas A. Nondahl	06/15/2009	Jingbo Liu	06/15/2009	Peter B. Schmidt	06/15/2009	Robert J. Breitzmann	06/15/2009
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Peter B. Schmidt	06/15/2009														
Robert J. Breitzmann	06/15/2009														
RECEIVING PARTY DATA															
Name:	Rockwell Automation Technologies, Inc.														
Street Address:	1 Allen-Bradley Drive														
City:	Mayfield Heights														
State/Country:	OHIO														
Postal Code:	44124														
PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12487012</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12487012										
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Application Number:	12487012														
CORRESPONDENCE DATA															
Fax Number:	(414)225-9753														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	414-382-4463														
Email:	smdonahue@ra.rockwell.com														
Correspondent Name:	ROCKWELL AUTOMATION, INC./BF														
Address Line 1:	ATTENTION: SUSAN M. DONAHUE, E-7F19														
Address Line 2:	1201 SOUTH SECOND STREET														
Address Line 4:	MILWAUKEE, WISCONSIN 53204														
ATTORNEY DOCKET NUMBER:	09AB026 (1506.262)														

CH \$40.00 12487012

500889538

**PATENT
 REEL: 022843 FRAME: 0576**

NAME OF SUBMITTER:

Keith M. Baxter

Total Attachments: 7

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09AB026-US

ASSIGNMENT OF INVENTION
TO
ROCKWELL AUTOMATION TECHNOLOGIES, INC.

WHEREAS, SEMYON ROYAK of 3880 Wild Cherry Trail, Beachwood, Ohio 44122-7401, USA, MARK M. HARBAUGH of 3799 W. Streetsboro Road, Richfield, Ohio 44286-9637, USA, THOMAS A. NONDAHL of 2136 North 117th Street, Wauwatosa, Wisconsin 53226-2114, USA, JINGBO LIU of 1973 Chippewa Court, Grafton, Wisconsin 53024, USA, PETER B. SCHMIDT of 8139 W. Imperial Drive, Franklin, Wisconsin 53132-9722, USA, and ROBERT J. BREITZMANN of 103 Silver Springs Trail, South Russel, Ohio 44022, USA, hereinafter sometimes referred to as "said inventors"), has invented certain new and useful improvements in **METHOD AND APPARATUS FOR INCREASED CURRENT STABILITY IN A PWM DRIVE**, which invention (hereinafter sometimes referred to as "said invention") has been disclosed to and filed, under Docket No. 09AB026-US, in the patent files of **ROCKWELL AUTOMATION TECHNOLOGIES, INC.** having a principal place of business at 1 Allen-Bradley Drive, Mayfield Heights, Ohio 44124.

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 present do sell, assign and transfer unto **ROCKWELL AUTOMATION TECHNOLOGIES, INC.** 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. provisional 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 the said Rockwell Automation Technologies, Inc., for its own 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.

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.

09AB026-US

ASSIGNMENT OF INVENTION
TO
ROCKWELL AUTOMATION TECHNOLOGIES, INC.

Signed:

Date:

Semyon Royak
SEMYON ROYAK

6/15/2009

CERTIFICATE OF ACKNOWLEDGMENT

State of Ohio

County of Cuyahoga

On June 15, 2009 before Yvette Stoiger, Notary Public
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared SEMYON ROYAK
Name(s) of Signer(s)

_ personally known to me - OR - _ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Yvette Stoiger

Signature of Notary Public

My Commission Expires: 6/23/2014

(SEAL)

Yvette Stoiger
NOTARY PUBLIC, STATE OF OHIO
My Commission Expires June 23, 2009 2014
Recorded in Cuyahoga County

09AB026-US

ASSIGNMENT OF INVENTION
TO
ROCKWELL AUTOMATION TECHNOLOGIES, INC.

Signed:

Date:

Mark M. Harbaugh
MARK M. HARBAUGH

6/15/2009

CERTIFICATE OF ACKNOWLEDGMENT

State of Ohio

County of Cuyahoga

On June 15, 2009 before Yvette Steiger, Notary Public
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared MARK M. HARBAUGH
Name(s) of Signer(s)

... personally known to me - OR - ... proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

(SEAL)

Yvette Steiger
Signature of Notary Public
My Commission Expires: 6/23/2014

Yvette Steiger
NOTARY PUBLIC, STATE OF OHIO
My Commission Expires June 23, 2009-2014
Recorded in Cuyahoga County

09AB026-US

ASSIGNMENT OF INVENTION
TO
ROCKWELL AUTOMATION TECHNOLOGIES, INC.

Signed:

Date:

Thomas A. Nondaahl

June 15, 2009

THOMAS A. NONDAHL

CERTIFICATE OF ACKNOWLEDGMENT

State of Wisconsin

County of Milwaukee

On June 15, 2009, before me, Sheila M. Moore, Notary Public,
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared THOMAS A. NONDAHL
Name(s) of Signer(s)

personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

(SEAL)

Sheila M. Moore
Signature of Notary Public
My Commission Expires: July 31, 2011

09AB026-US

ASSIGNMENT OF INVENTION
TO
ROCKWELL AUTOMATION TECHNOLOGIES, INC.

Signed:

Date:

Jingbo Liu

06-15-19

JINGBO LIU

CERTIFICATE OF ACKNOWLEDGMENT

State of Wisconsin

County of Milwaukee

On June 15, 2009, before me, Sheila M. Moore, Notary Public
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared JINGBO LIU
Name(s) of Signer(s)

personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

(SEAL)

Sheila M. Moore
Signature of Notary Public
My Commission Expires: July 31, 2011

09AB026-US

ASSIGNMENT OF INVENTION
TO
ROCKWELL AUTOMATION TECHNOLOGIES, INC.

Signed:

Date:

Peter B. Schmidt

15-Jun-09

PETER B. SCHMIDT

CERTIFICATE OF ACKNOWLEDGMENT

State of Wisconsin

County of Milwaukee

On June 15, 2009, before me, Sheila M. Moore, Notary Public,
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared PETER B. SCHMIDT
Name(s) of Signer(s)

_ personally known to me - OR - _ proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

(SEAL)

Sheila M. Moore
Signature of Notary Public
My Commission Expires: July 31, 2011

09AB026-US

ASSIGNMENT OF INVENTION
TO
ROCKWELL AUTOMATION TECHNOLOGIES, INC.

Signed:

Date:

Robert J. Breitzmann
ROBERT J. BREITZMANN

6/15/09

CERTIFICATE OF ACKNOWLEDGMENT

State of Ohio

County of Cuyahoga

On June 15, 2009 before Yvette Steiger, Notary Public
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personally appeared ROBERT J. BREITZMANN
Name(s) of Signer(s)

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WITNESS my hand and official seal.

Yvette Steiger

Signature of Notary Public

My Commission Expires: 6/23/2014

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