

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5876230

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ASSIGNMENT AGREEMENT previously recorded on Reel 048001 Frame 0449. Assignor(s) hereby confirms the CORRECT FILING DATE IS JANUARY 15, 2019.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JACOB M. LAMB	01/09/2019
BRIAN J. SEIBEL	01/14/2019
TIMOTHY M. ROWAN	01/10/2019
LIXIANG WEI	01/09/2019
<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>
<b>Application Number:</b>	16247634
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(216)363-9001
<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>	2163639000
<b>Email:</b>	CSCHWETER@FAYSHARPE.COM
<b>Correspondent Name:</b>	ROCKWELL AUTOMATION INC./FAY SHARPE LLP
<b>Address Line 1:</b>	1228 EUCLID AVENUE
<b>Address Line 2:</b>	THE HALLE BUILDING, 5TH FLR
<b>Address Line 4:</b>	CLEVELAND, OHIO 44115
<b>NAME OF SUBMITTER:</b>	ERIC HIGHMAN
<b>SIGNATURE:</b>	/Eric Highman/
<b>DATE SIGNED:</b>	12/19/2019
<b>Total Attachments: 5</b>	
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### RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Jacob M. Lamb  
Brian J. Seibel  
Timothy M. Rowan  
Lixiang Wei

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**

Name: Rockwell Automation Technologies, Inc.

Internal Address: \_\_\_\_\_

Street Address: 1 Allen-Bradley Drive

City: Mayfield Heights

State: Ohio

Country: US Zip: 44124

Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 01/09/2019; 01/10/2019; 01/14/2019

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

**4. Application or patent number(s):**

This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

16/247,634

B. Patent No.(s)

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Eric Highman

Internal Address: The Halle Building, 5th Floor

Street Address: 1228 Euclid Avenue

City: Cleveland

State: OH Zip: 44115

Phone Number: 216-363-9000

Docket Number: 2018P-143-US / ROKZ 200210US01

Email Address: CSCHWETER@faysharpe.com

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ \_\_\_\_\_**

- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number 060308

Authorized UserName Eric Highman

**9. Signature:**

Signature

December 18, 2019

Date

Eric Highman  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

**4**

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5324812

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JACOB M. LAMB	01/09/2019
BRIAN J. SEIBEL	01/14/2019
TIMOTHY M. ROWAN	01/10/2019
LIXIANG WEI	01/09/2019
<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
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16247634
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(216)363-9001
<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>	2163639000
<b>Email:</b>	DOCKETING@FAYSHARPE.COM
<b>Correspondent Name:</b>	ROCKWELL AUTOMATION, INC./FAY SHARPE LLP
<b>Address Line 1:</b>	1228 EUCLID AVENUE, 5TH FLOOR
<b>Address Line 4:</b>	CLEVELAND, OHIO 44115
<b>ATTORNEY DOCKET NUMBER:</b>	2018P-143-US/ROK20210US01
<b>NAME OF SUBMITTER:</b>	ERIC M. HIGHMAN
<b>SIGNATURE:</b>	/Eric Highman/
<b>DATE SIGNED:</b>	01/15/2019
<b>Total Attachments: 2</b>	
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**2018P-143-US - ASSIGNMENT BY INVENTORS**

Jacob M. Lamb, Brian J. Seibel, Timothy M. Rowan AND Lixiang Wei,  
(Inventors) have invented

**POWER CONVERSION SYSTEM WITH PWM CARRIER EMULATION**

(the Inventions), as described in:

U.S. Patent Application Ser. No. 16/247,634, filed  
January 15, 2019 (the Application).  
EEL  
12-17-19

Rockwell Automation Technologies, Inc. (Assignee), an Ohio Corporation with a principal place of business at 1 Allen-Bradley Drive, Mayfield Heights, Ohio 44124, is desirous of acquiring the entire right, title, and interest in the Inventions and the Application. Any reference in this assignment to the Assignee encompasses the successors, legal representatives, and assigns of the Assignee.

For good and sufficient consideration, the receipt of which is hereby acknowledged, Inventors hereby transfer to Assignee the entire right, title, and interest in the Inventions and the Application, and in all patents and patent applications covering the Inventions or resulting from the Application, including all provisional, non-provisional, continuation, continuation-in-part, divisional, reissue, reexamination, foreign, and PCT applications, and any patents resulting from these applications, in the United States and in all foreign countries, including in particular the rights of priority originating from the Application.

Inventors hereby represent that, except for any rights that have arisen to Assignee under law or that have already been transferred to Assignee, Inventors have the right to convey the entire right, title, and interest in the Inventions and the Application, and that no assignment, sale, agreement, or encumbrance has been made or will be made which would conflict with this assignment.

Inventors hereby authorize the Director of the U.S. Patent and Trademark Office and the empowered officials of all other governments to issue all patents covering the Inventions or resulting from the Application, to the Assignee.

Inventors hereby agree to carry out in good faith the intent and purpose of this assignment; to communicate to Assignee any facts relating to the Inventions, the Application, and any patents and applications that cover the Inventions or result from the Application; to testify in any legal proceeding when requested to do so; to execute all rightful oaths, assignments, powers of attorney and other papers; to sign all lawful papers, execute all necessary assignment papers to cause

POWER CONVERSION SYSTEM WITH PWM CARRIER EMULATION

any patents resulting from the Application or covering the Inventions to be issued to Assignee; and to generally do everything necessary or desirable to aid the Assignee in attaining, perfecting title in, and enforcing proper protection for the Inventions, the Application and any patents and applications resulting from the Inventions or the Application, in the United States and in all other countries, all without further consideration, but at the expense of the Assignee.

Inventors hereby grant to Assignee the right to sue for past, present and future infringement of any patents covering the Inventions or resulting from the Application.

Inventors grant to Assignee and Assignee's attorneys the power to insert into this assignment any information necessary to comply with the rules of the United States Patent and Trademark Office for recordation of this Assignment.

The Inventors have executed this assignment as of the date(s) indicated below:

Date: Jan 9, 2019

*Jacob Lamb*

JACOB M. LAMB

Date: Jan 14, 2019

*Brian J. Seibel*

BRIAN J. SEIBEL

Date: Jan 10, 2019

*Timothy M. Rowan*

TIMOTHY M. ROWAN

Date: Jan 9, 2019

*Lixiang Wei*

LIXIANG WEI

MAK



**UNITED STATES PATENT AND TRADEMARK OFFICE**

ROKZ 2002104501

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

December 16, 2019

PTAS

STEVEN HAAS  
1228 EUCLID AVENUE  
THE HALLE BUILDING, 5TH FLR  
CLEVELAND, OH 44115



505702405

United States Patent and Trademark Office  
Notice of Non-Recordation of an Assignment Document

The enclosed document has been examined and found non-recordable by the Assignment Recordation Branch of the U.S. Patent and Trademark Office. The reason(s) for non-recordation are stated below:

1. The document submitted to correct errors in the previously recorded document is not acceptable. To correct an error in the recorded document, you must file a new cover sheet stating the error and the nature of conveyance, attach the previously recorded cover sheet which contains the error and the supporting document and pay the recording fees as set forth in 37 C.F.R. §3.34

Documents being resubmitted for recordation must reflect the corrected information to be recorded, the Document ID number referenced above and all pages from this submitted document. The original date of filing of this assignment document will be maintained if resubmitted with the appropriate correction(s) by **Monday, February 17, 2020**, as outlined under 37 CFR 3.51. The resubmitted document must include a stamp with the official date of receipt under 37 CFR 3. Applicants may use the certified procedures under 37 CFR 1.8 or 1.10 for resubmission of the returned papers if they desire to have the benefit of the date of deposit in the United States Postal Service.

To file the resubmission electronically, navigate to the EPAS website at <http://epas.uspto.gov>, click the Start Resubmission button and enter the following information:

**Document ID: 505702405**  
**Access Code: M25DEOWSZVMG9F5**

To file the resubmission in paper, send documents to: U.S. Patent and Trademark Office, Mail Stop: Assignment Recordation Branch, P.O. BOX 1450, Alexandria, VA 22313. If you have any questions regarding this notice, you may contact the Assignment Recordation Branch at 571-272-3350.

MAURICE CARTER  
ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION

**BOCKETED**