

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Assignee Name previously recorded on Reel 017664 Frame 0868. Assignor(s) hereby confirms the Assignment to Rockwell Automation Technologies, Inc..										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Haihui Lu</td><td>03/14/2006</td></tr><tr><td>Wei Qian</td><td>03/14/2006</td></tr></tbody></table>		Name	Execution Date	Haihui Lu	03/14/2006	Wei Qian	03/14/2006				
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Haihui Lu	03/14/2006										
Wei Qian	03/14/2006										
RECEIVING PARTY DATA											
<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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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>11375800</td></tr></tbody></table>		Property Type	Number	Application Number:	11375800						
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Application Number:	11375800										
CORRESPONDENCE DATA											
Fax Number: (414)382-3900 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: (414) 382-4463											
Email: ehighman@faysharpe.com											
Correspondent Name: Susan M. Donahue											
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Address Line 2: Rockwell Automation, Inc.											
Address Line 4: Milwaukee, WISCONSIN 53204											
ATTORNEY DOCKET NUMBER:	ZZZZ000001										
NAME OF SUBMITTER:	Eric Highman										
Total Attachments: 5											

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PATENT  
REEL: 017798 FRAME: 0540

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03AB245

**ASSIGNMENT OF INVENTION**

WHEREAS,

**Haihui Lu**, Room 7-1203, Block 7, Rui Hong Xin Cheng, 333 Linping Rd.,  
Shanghai, 200086, People's Republic of China

**Wei Qian**, 5-11-301 Vanke City Garden, 3333 Qixin Road, Shanghai 201101,  
People's Republic of China

(hereinafter sometimes referred to as "said inventors"), have invented certain new and useful improvements in a SYSTEM AND METHOD FOR MOTOR SPEED ESTIMATION USING HYBRID MODEL REFERENCE ADAPTIVE SYSTEM which invention (hereinafter sometimes referred to as "said invention") has been disclosed to and filed, under Docket No. 03AB245, in the patent files of **ROCKWELL AUTOMATION TECHNOLOGIES, INC.** and which invention is the subject of a United States patent application entitled "SYSTEM AND METHOD FOR MOTOR SPEED ESTIMATION USING HYBRID MODEL REFERENCE ADAPTIVE SYSTEM" which was 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 own use and for the use of their successors and assigns, to the full end of the term for which Letters Patent on same may be

**PATENT**

**REEL: 017798 FRAME: 0542**

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.

Haihui Lu

Haihui Lu

March 14, 2006

Date

Jia Qing Qiang Yin

Witness

Qing Jia, Qiang Yin

Witness Name (Printed)

Wei Qian

Wei Qian

March 14, 2006

Date

Jia Qing Qiang Yin

Witness

Qing Jia, Qiang Yin

Witness Name (Printed)

03-22-2006



103201981

PATENTS ONLY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

113219 U.S. PTO  
11/375800  
031406

03-14-06

APPLICANT(S) : Haihui Lu et al.

FOR : **SYSTEM AND METHOD FOR MOTOR  
SPEED ESTIMATION USING HYBRID  
MODEL REFERENCE ADAPTIVE  
SYSTEM**

SERIAL NO. : Unknown

FILED : Herewith

EXAMINER : Unknown

ART UNIT : Unknown

CONFIRMATION NO. : Unknown

ATTORNEY DOCKET NO. : 03 AB 245

**ASSIGNMENT RECORDATION FORM COVER SHEET**

U.S. Patent and Trademark Office  
MAIL STOP ASSIGNMENT SERVICES DIVISION  
P.O. Box 1450  
Alexandria, VA 22313-1450

To the Director of the U.S. Patent and Trademark Office:

Please record the attached documents.

1. Name of Conveying Party(ies) Execution Date(s):  
**Haihui Lu March 14, 2006**  
**Wei Qian March 14, 2006**

2. Name and address of Receiving Party(ies):

03/17/2006 JBALINAM 00000020 11375800  
05 FC:6021

40.00 OP

**Rockwell Automation, Inc.**  
**1201 South Second Street**  
**Milwaukee, WI 53204**  
**US**

3. Nature of conveyance:



Assignment



Security Agreement



Other:



Change of Name



Merger

4. Application or patent number(s):



This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

\_\_\_\_\_

\_\_\_\_\_

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

Susan M. Donahue  
Rockwell Automation, Inc.  
1201 South Second Street  
Milwaukee, WI 53204  
Phone Number: 414-382-4463

6. Total number of applications and patents involved:

1\_\_\_\_\_

7. Total fee (37 CFR 1.21(h) & 3.41

\$40.00

☒ Payment for the filing of this Assignment is authorized to be charged to a Credit Card. The appropriate form PTO-2038 is enclosed for this purpose. **If the Credit Card is unable to be charged, please charge any and all fees or credit any overpayment to Deposit Account No. 06-0308.**

8. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.
9. Total number of pages including cover sheet, attachments, and documents enclosed: 5.

Respectfully submitted,

FAY, SHARPE, FAGAN,  
MINNICH & McKEE, LLP

3/14/06

Date

*Eric Highman*

Eric Highman, Reg. No. 43,672  
1100 Superior Avenue  
Seventh Floor  
Cleveland, OH 44114-2579  
216-861-5582

CERTIFICATE OF MAILING OR TRANSMISSION

- I certify that this Assignment Recordation Form Cover Sheet and accompanying document(s) are being
- ☐ deposited with the United States Postal Service as First Class mail under 37 C.F.R. § 1.8, addressed to (choose one of the following) U.S. Patent and Trademark Office, MAIL STOP ASSIGNMENT SERVICES DIVISION, P.O. Box 1450, Alexandria, VA 22313-1450 or Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.
  - ☐ transmitted to the U.S. Patent and Trademark Office, Assignment Services Division on the date indicated below to facsimile number 571-273-0140.
  - ☒ deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated below and is addressed to (choose one of the following) U.S. Patent and Trademark Office, MAIL STOP ASSIGNMENT SERVICES DIVISION, P.O. Box 1450, Alexandria, VA 22313-1450 or Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Express Mail Label No.: EV 690752299 US	Signature <i>Kristi A. Murphy</i>
Date March 14, 2006	Printed Name Kristi A. Murphy