

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4659625

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BIAO ZHANG	11/28/2016
JIANJUN WANG	11/28/2016
GEORGE Q. ZHANG	12/20/2016
SANGEUN CHOI	11/28/2016
REMUS BOCA	11/28/2016
THOMAS A. FUHLBRIGGE	11/28/2016
TOMAS GROTH	11/23/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ABB SCHWEIZ AG
<b>Street Address:</b>	BROWN BOVERI STRASSE 6
<b>City:</b>	BADEN
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	5400
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15617475
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)527-4011
<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>	(312)527-4000
<b>Email:</b>	taft-ip-docket@taftlaw.com
<b>Correspondent Name:</b>	WILLIAM B. GONT
<b>Address Line 1:</b>	TAFT STETTINIUS & HOLLISTER LLP
<b>Address Line 2:</b>	111 EAST WACKER DRIVE, SUITE 2800
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60601
<b>ATTORNEY DOCKET NUMBER:</b>	ABBI-2418
<b>NAME OF SUBMITTER:</b>	MELISSA S. DADISMAN
<b>SIGNATURE:</b>	/Melissa S. Dadisman/
<b>DATE SIGNED:</b>	10/26/2017

PATENT

**Total Attachments: 9**

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**COMBINED DECLARATION AND ASSIGNMENT FOR  
UTILITY AND DESIGN PATENT APPLICATION**

**DECLARATION**

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

**TELEOPERATION OF MACHINE HAVING AT LEAST ONE ACTUATED  
MECHANISM AND A FAULT DETECTION AND RECOVERY SYSTEM**

The above-identified application was made or authorized to be made by me.

I hereby acknowledge that any willful false statement made in this declaration is punishable under section 1001 of title 18 by fine or imprisonment of not more than 5 years, or both.

**ASSIGNMENT**

WHEREAS, Biao Zhang of 62 Hilldale Road, West Hartford, CT 06117; Jianjun Wang of 110 Lyman Road, West Hartford, CT 06117; George Q. Zhang of 10 Elaine Mary Drive, Windsor, CT 06095; Sangeun Choi of 3 Tim Clark Circle, Simsbury, CT 06070; Remus Boca of 56 Massaco Street, Simsbury, CT 06070; Thomas A. Fuhlbrigge of 34 Ellsworth Lane, Ellington, CT 06029; and Tomas Groth of Källtorpsvägen 31, 72480 Västerås, Sweden, hereinafter referred to as Assignors, have made one or more new and useful inventions in **TELEOPERATION OF MACHINES HAVING AT LEAST ONE ACTUATED MECHANISM AND A FAULT DETECTION AND RECOVERY SYSTEM** for which Assignors have made or will make an application for Letters Patent of the United States (hereinafter the "Application"); and

WHEREAS, ABB Schweiz AG, hereinafter referred to as Assignee, a corporation of Switzerland, having principal place of business at ABB Schweiz AG, Brown Boveri Strasse 6, 5400 Baden, Switzerland, desires to acquire all of the entire right, title and interest in, to and under the one or more inventions disclosed, described and claimed or

intended so to be in the Application, and in, to and under the Application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained therefore and thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient consideration to Assignors in hand paid, the receipt of which is hereby acknowledged, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto Assignee, all of the entire right, title, and interest in, to and under the one or more inventions disclosed, described and claimed or intended so to be in the Application, and any and all other applications thereon and arising therefrom, including any and all applications claiming the benefit thereof, and any and all divisions, continuations, and continuations-in-part thereof, any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof, and all rights to claim priority to any of the foregoing.

Assignors acknowledge that the Application was executed concurrently herewith. Assignors hereby authorize Assignee, its counsel, or its agents to fill-in some or all of the following list of information items (a) through (c) at the discretion of the Assignee, its counsel, or its agents:

- (a) Patent Office Number of the Application: 14/649,160
- (b) Filing Date of the Application: June 2, 2015
- (c) Execution Date of the Application: December 30, 2016

Assignors hereby authorize and request the Honorable Assistant Secretary and Commissioner for Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignors agree to assign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

WITNESS Assignor's hand this 28 day of November, 2016.

Biao Zhang  
Biao Zhang

STATE OF Connecticut  
COUNTY OF Hartford } SS

Before me, a Notary Public, in and for said County and State, personally appeared Biao Zhang, who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 28<sup>th</sup> day of November, 2016

Eleanor A. Terlik  
Notary Public

Eleanor A. Terlik  
Printed

Resident of County Hampden

My Commission Expires:  
March 31, 2017

WITNESS Assignor's hand this 28 day of Nov., 2016.

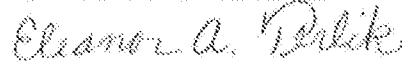


Jianjun Wang

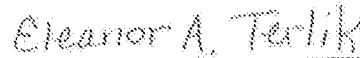
STATE OF Connecticut  
COUNTY OF Hartford ): SS

Before me, a Notary Public, in and for said County and State, personally appeared Jianjun Wang, who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 28<sup>th</sup> day of November, 2016



Notary Public



Printed

Resident of County Hampden

My Commission Expires:  
March 31, 2017

WITNESS Assignor's hand this 20 day of December 2016.

George Q. Zhang  
George Q. Zhang

STATE OF Connecticut  
COUNTY OF Hartford: SS

Before me, a Notary Public, in and for said County and State, personally appeared George Q. Zhang, who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 20<sup>th</sup> day of December, 2016


Eleanor A. Terlik  
Notary Public

Eleanor A. Terlik  
Printed

Resident of County Hampden

My Commission Expires:  
March 31, 2017

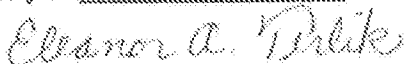
WITNESS Assignor's hand this 28 day of November, 2016.

  
Sangeun Choi

STATE OF CT )  
 ) : SS  
COUNTY OF Hartford )

Before me, a Notary Public, in and for said County and State, personally appeared Sangeun Choi, who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 28<sup>th</sup> day of November, 2016

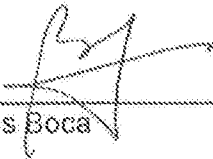
  
Notary Public

Eleanor A. Terlik  
Printed

Resident of County Hampden

My Commission Expires:  
March 31, 2017

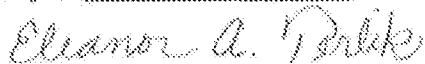
WITNESS Assignor's hand this 28 day of Nov, 2016.

  
Remus Boca

STATE OF CT  
COUNTY OF HARTFORD: SS

Before me, a Notary Public, in and for said County and State, personally appeared Remus Boca, who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 28<sup>th</sup> day of November, 2016

  
Notary Public

Eleanor A. Terlik  
Printed

Resident of County Hampden

My Commission Expires:  
March 31, 2017

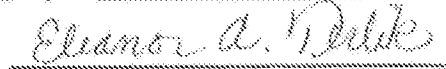
WITNESS Assignor's hand this 28 day of November, 2016.

  
Thomas A. Fuhlbrigge

STATE OF CT  
COUNTY OF Hartford: SS

Before me, a Notary Public, in and for said County and State, personally appeared Thomas A. Fuhlbrigge, who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 28<sup>th</sup> day of November, 2016

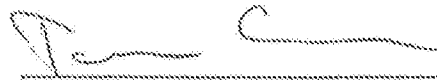
  
Notary Public

Eleanor A. Terlik  
Printed

Resident of County Hampden

My Commission Expires:  
March 31, 2017

WITNESS Assignor's hand this 23 day of November, 2016.

  
Tomas Groth

Pia Hill  
Witness Name

  
Witness Signature

ABB Schweiz AG

\_\_\_\_\_  
Name

\_\_\_\_\_  
Title

COMBINED DECLARATION AND ASSIGNMENT  
ABBI-542  
Page 9 of 9  
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