

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JIAFAN ZHANG	05/24/2016
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15173050
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<b>NAME OF SUBMITTER:</b>	LINDSAY R. BUSER
<b>SIGNATURE:</b>	/Lindsay R. Buser/
<b>DATE SIGNED:</b>	06/03/2016
This document serves as an Oath/Declaration (37 CFR 1.63).	
<b>Total Attachments: 3</b>	
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**COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY AND DESIGN  
PATENT APPLICATIONS**

**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

**METHOD AND APPARATUS FOR OPTIMIZING PERFORMANCE OF ROBOTIC  
CELL**

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, Jiafan Zhang, hereinafter referred to as Assignor, has made one or more new and useful inventions in **METHOD AND APPARATUS FOR OPTIMIZING PERFORMANCE OF ROBOTIC CELL** for which Assignor has made or will make an application for Letters Patent of the United States (hereinafter the "Application"); and

WHEREAS, ABB Technology Ltd., hereinafter referred to as Assignee, a corporation of Switzerland, having principal place of business at Affolternstrasse 44, 8050 Zurich, 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 considerations to Assignor in hand paid, the receipt of which is hereby acknowledged,

Assignor has sold, assigned and transferred, and by these presents does 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.

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

- (a) Patent Office Number of the Application: \_\_\_\_\_
- (b) Filing Date of the Application: \_\_\_\_\_

Assignor hereby authorizes and requests the Honorable Assistant Secretary and Commissioner for Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees 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 26<sup>th</sup> day of May, 2016.

Jiafan Zhang  
Jiafan Zhang

Xinyu Fang  
Witness Name

Xinyu Fang  
Witness Signature

Acknowledged and Accepted by Assignee this 25 day of May, 2016.

ABB Technology Ltd.

Yu Ding  
Name: Yu Ding

Head of IP Operations,  
Asia, Middle East and Africa Region  
Title