

## 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>
GUOQI SHI	07/21/2022
<b>RECEIVING PARTY DATA</b>	
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<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>	17759591
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<b>SIGNATURE:</b>	/Alexander J. Kim/
<b>DATE SIGNED:</b>	12/09/2022
<b>Total Attachments: 2</b>	
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**DECLARATION AND ASSIGNMENT**

As a below-named inventor, I/we hereby declare that I/we believe I/we am/are the original inventor(s) or an original joint inventor of a claimed invention in the patent application for United States letters patent, entitled, "APPARATUS AND METHOD FOR SEPARATING OBJECTS" (the "Invention") that

was filed on April 26, 2020 Serial No. PCT/CN2020/086947

(the "Application").

The Application was made or authorized to be made by me/us, and I/we have reviewed and understand its contents, including the claims.

I/We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both.

WHEREAS, **ABB Schweiz AG** ("Assignee"), a Corporation having a place of business at Bruggerstrasse 66, 5400 Baden, Switzerland, is desirous of acquiring the entire right, title and interest in and to the aforesaid inventions and in and to all applications and Letters Patents therefor granted in the United States of America, and in any and all countries foreign thereto.

THEREFORE, for good valuable consideration, the sufficiency and receipt of which I/we hereby acknowledge, I/we confirm and ratify the sale, assignment, and transfer to the Assignee, its successors and assigns, all my/our rights in the Invention, the Application, and all other patent applications and patents for the Invention which may be applied for or granted, including, all divisional, continuing, substitute, renewal, reissue, reexamination, counterpart, substitute, extension, and all other application for letters patent which are or have been filed for the Invention in the United States, its territorial possessions, and all foreign countries and in all patents and extensions which may be granted for the Application.

I/We hereby authorize and request Commission of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said invention or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and interest. I/we represent and warrant that I/we have full right to agree to, execute, and deliver this assignment.

I/We hereby assign to the Assignee, its successors and assigns, all of my/our rights to sue for and recover damages and profits with respect to past infringements or unauthorized uses of any patent that issues on the Application or unpaid royalties with respect to use of any rights in the Application that occurred before the execution of this Assignment.

I/We agree that I will without further consideration, but at the expense of the Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and all facts that are known to me/us; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuing, substitute, renewal, reissue, and other application for letters patent; execute all necessary papers; make all rightful oaths; and generally do everything possible to aid the Assignee, its successors and assigns, to obtain and enforce all rights with respect to the Application in the United States, its territorial possessions, and all foreign countries.

Signature: Guoqi Shi  
Guoqi Shi

Date: 2022.7.21