

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4303728

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| VENKATESH SIVASUBRAMANIAM | 01/30/2017 |
| DAVID GUILLON | 01/11/2017 |
| DOMINIK TRUSSEL | 01/11/2017 |
| MARKUS THUT | 01/11/2017 |
| SAMUEL HARTMANN | 01/11/2017 |
| RECEIVING PARTY DATA | |
| Name: | ABB SCHWEIZ AG |
| Street Address: | BROWN BOVERI STRASSE 6 |
| City: | BADEN |
| State/Country: | SWITZERLAND |
| Postal Code: | 5400 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15067779 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <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> | |
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| Correspondent Name: | JOHN H. ALLIE |
| Address Line 1: | TAFT STETTINIUS & HOLLISTER LLP |
| Address Line 2: | ONE INDIANA SQUARE, SUITE 3500 |
| Address Line 4: | INDIANAPOLIS, INDIANA 46204 |
| ATTORNEY DOCKET NUMBER: | ABBCH-14 |
| NAME OF SUBMITTER: | BETSY P. SLONE |
| SIGNATURE: | /Betsy P. Slone/ |
| DATE SIGNED: | 03/06/2017 |
| This document serves as an Oath/Declaration (37 CFR 1.63). | |
| Total Attachments: 7 | |

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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 FOR ULTRASONIC WELDING WITH PARTICLES TRAPPING

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, Venkatesh Sivasubramaniam of Eichacherstrasse 11, 8904 Aesch, Switzerland; David Guillon of Rempen 13, 8857 Vorderthal, Switzerland; Dominik Trüssel of Reussgasse 11, 5620 Bremgarten, Switzerland; Markus Thut of Alpenweg 2a, 5703 Seon, Switzerland; and Samuel Hartmann of Konsumstrasse 5B, 5603 Staufen, Switzerland, hereinafter referred to as Assignors, have made one or more new and useful inventions in **METHOD FOR ULTRASONIC WELDING WITH PARTICLES TRAPPING** 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 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 considerations 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, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

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 (b) at the discretion of the Assignee, its counsel, or its agents:

- (a) Patent Office Number of the Application: 15/067,779
- (b) Filing Date of the Application: March 11, 2016

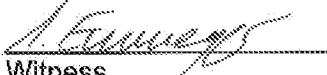
Assignors hereby authorize and request the Honorable Assistant Secretary and Commissioner for Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

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.

30. Jan. 2017

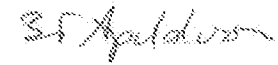
WITNESS Assignor's hand this _____ day of _____, 2016.


Venkatesh Sivasubramaniam


Witness

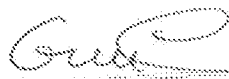

Witness

ABB Schweiz AG

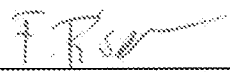

Name Stefanie Apeldoorn

Title Authorized Representative

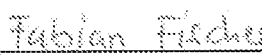
11 Jan. 2017
WITNESS Assignor's hand this _____ day of _____, 2016.



David Guillon

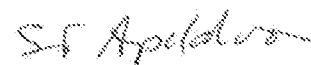


Witness



Witness

ABB Schweiz AG



Name Stefanie Apeldoorn

Title Authorized Representative

WITNESS Assignor's hand this _____ day of 11 Jan. 2017, 2016.

DATE

Dominik Trüssel

Witness

Fabian Fischer

Witness

ABB Schweiz AG


25 April 2000

Name Stephanie Apeteloom

Title Authorized Representative

11. Jan. 2017

WITNESS Assignor's hand this _____ day of _____, 2016.



Markus Thut




Witness



Witness

ABB Schweiz AG

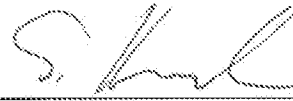


Name Stefanie Apoldorn

Title Authorized Representative

11 Jan. 2017

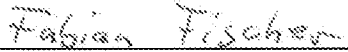
WITNESS Assignor's hand this _____ day of _____, 2016.



Samuel Hartmann



Witness



Witness

ABB Schweiz AG



Name Stefanie Apeldoorn

Title Authorized Representative