

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4643980

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
EDDY AELOIZA	07/21/2017
ARUN KADAVELUGU	07/21/2017
LIMING LIU	07/21/2017
JOONAS PUUKKO	07/24/2017
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<b>Postal Code:</b>	5400
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15659096
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	ABBI-2299
<b>NAME OF SUBMITTER:</b>	LISA SCHODROWSKI
<b>SIGNATURE:</b>	/Lisa Schodrowski/
<b>DATE SIGNED:</b>	10/17/2017
<b>Total Attachments: 7</b>	
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## COMBINED DECLARATION AND ASSIGNMENT OF PATENT RIGHTS

WHEREAS, the below-named persons (hereinafter referred to as "Assignors" or "Inventors") have made one or more new and useful inventions which are claimed, disclosed and/or described in the patent application identified in Section I. below (hereinafter collectively referred to as "the Invention");

WHEREAS, ABB Schweiz AG (hereinafter referred to as "Assignee") a legal entity organized under the laws of Switzerland, desires to acquire the entire right, title and interest in, to and under the Invention and any and all United States, foreign and international patent applications and patents which claim, disclose and/or describe the Invention; and

NOW, THEREFORE, for good, valuable and sufficient consideration to the Assignors, the receipt and sufficiency of which are hereby acknowledged, Assignors and Assignee agree as follows:

### I. DECLARATION

As one of the below-named Inventors I hereby declare that:

This declaration is directed to the application entitled SEMICONDUCTOR FAILURE PROGNOSTICATION which:

is attached hereto, or

was filed as U.S. or PCT Application No. \_\_\_\_\_ on \_\_\_\_\_.

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

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I 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.

### II. ASSIGNMENT OF PATENT RIGHTS

#### A. Assignment of Patent Rights

Assignors hereby assign and transfer to Assignee, its successors and assigns, the entire right, title, and interest in, to and under (i) the Invention, (ii) any and all U.S., foreign and international patent applications which claim, disclose or describe the Invention including, without limitation, the application identified in Section I. above, (iii) any and all continuations, continuations-in-part, divisionals, foreign counterparts, reexaminations, reissues, extensions and applications claiming the benefit of or priority to any of the foregoing, (iv) any and all rights to claim priority to any of the foregoing, and (v) any and all rights to bring an action under, receive and collect damages for infringement of and/or obtain injunctive relief for infringement of any of foregoing (hereinafter collectively referred to as "the Assigned Patent Rights").

Assignors acknowledge and agree that the Assigned Patent Rights include any and all future applications not filed at the time of execution of this agreement which disclose, describe and/or claim subject matter of the Invention, or which claim priority to or the benefit of an application or patent which discloses, describes and/or claims subject matter of the Invention. With respect to such future applications, Assignors hereby authorize Assignee, its counsel, or its agents to append information identifying such applications as an Exhibit A to this document at the discretion of Assignee, its attorneys, or its agents.

#### B. Agreement to Execute Additional Documents and Provide Further Assistance

Assignors agree to execute any and all other documents necessary or desirable to document, memorialize or perfect Assignee's interest in the Assigned Patent Rights and to execute any and all other documents and to provide any further assistance necessary or desirable for the procurement of

patent rights on the above referenced invention in the United States and all foreign countries.

C. Binding, Complete and Enforceable Agreement

Assignors acknowledge that (i) this is an enforceable agreement; (ii) this agreement embodies the entire and only understanding between Assignors and Assignee with respect to the subject matter of this agreement; (iii) no oral explanation or oral information by either party hereto shall alter the meaning or interpretation of this agreement; and (iv) if any provision of this agreement is held to be unlawful or unenforceable, such provision shall be limited or eliminated to the minimum extent necessary so that the remainder of this agreement will continue in full force and effect and be enforceable.

D. Execution

This agreement may be executed in counterparts or duplicate originals, both of which shall be regarded as one and the same instrument, and which shall be the official and governing version in the interpretation of this agreement. This agreement may be executed by facsimile signatures or other electronic means and such signatures shall be deemed binding as if they were original signatures.

[Signature Pages Follow]

Signed and executed this 21<sup>st</sup> day of July, 2017.

Eddy Aeloiza  
Eddy Aeloiza

STATE OF North Carolina  
COUNTY OF Wake ) : SS

Before me, a Notary Public, in and for said County and State, personally appeared Eddy Aeloiza, who, being first duly sworn upon his or her oath, acknowledged the execution of the foregoing "Combined Declaration and Assignment of Patent Rights" as his or her voluntary act and deed.

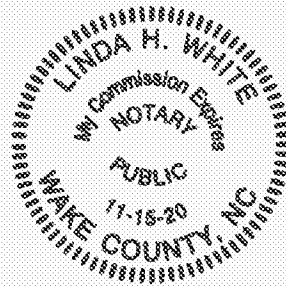
WITNESS my signature and Notarial Seal this 21 day of July, 2017

Linda H. White  
Notary Public

Printed: Linda H. White

Resident of Wake County

My Commission Expires: 11-15-2020



Signed and executed this 21<sup>st</sup> day of July, 2017.

Arun Kumar-K  
Arun Kadavelugu

STATE OF North Carolina ) SS  
COUNTY OF Wake )

Before me, a Notary Public, in and for said County and State, personally appeared Arun Kadavelugu, who, being first duly sworn upon his or her oath, acknowledged the execution of the foregoing "Combined Declaration and Assignment of Patent Rights" as his or her voluntary act and deed.

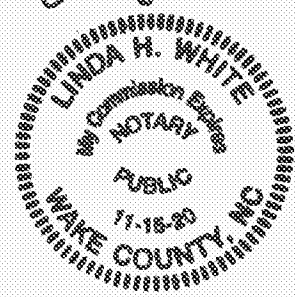
WITNESS my signature and Notarial Seal this 21 day of July, 2017.

Linda H. White  
Notary Public

Printed: Linda H. White

Resident of Wake County

My Commission Expires: 11-11-2020.



Signed and executed this 21 day of July, 2017.

[Signature]  
Liming Liu

STATE OF North Carolina )  
COUNTY OF Wake ) SS

Before me, a Notary Public, in and for said County and State, personally appeared Liming Liu, who, being first duly sworn upon his or her oath, acknowledged the execution of the foregoing "Combined Declaration and Assignment of Patent Rights" as his or her voluntary act and deed.

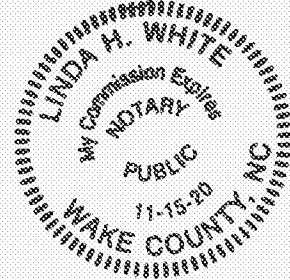
WITNESS my signature and Notarial Seal this 21 day of July, 2017.

[Signature]  
Notary Public

Printed: Linda H. White

Resident of Wake County

My Commission Expires: 11-15-2020



Signed and executed this 24 day of July, 2017.

  
\_\_\_\_\_  
Joonas Paakko



Signed and executed this 24 day of JULY, 2017.

Jukka-Pekka Sjöroos  
Jukka-Pekka Sjöroos