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| PATENT ASSIGNMENT COVER SHEET |
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EPAS ID: PAT5053287

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| NAN CHEN | 02/12/2016 |
| SARI LAIHONEN | 02/15/2016 |
| LUDVIG DE LAVAL | 02/12/2016 |
| ERIK DORÉ | 04/01/2016 |
| RECEIVING PARTY DATA | |
| Name: | ABB TECHNOLOGY LTD |
| Street Address: | AFFOLTERNSTRASSE 44 |
| City: | ZÜRICH |
| State/Country: | SWITZERLAND |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16070479 |
| CORRESPONDENCE DATA | |
| Fax Number: | (703)205-8050 |
| <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: | BIRCH, STEWART, KOLASCH & BIRCH, LLP |
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| ATTORNEY DOCKET NUMBER: | 6046-0326PUS1 |
| NAME OF SUBMITTER: | TAN T. TU |
| SIGNATURE: | /Tan T. Tu/ |
| DATE SIGNED: | 07/17/2018 |
| Total Attachments: 4 | |
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| source=Assignment 6046-0326PUS1#page2.tif | |
| source=Assignment 6046-0326PUS1#page3.tif | |
| source=Assignment 6046-0326PUS1#page4.tif | |

ASSIGNMENT

Application No.: PCI/EP2016/052959

Filed: 12 Feb 2016

Insert Name(s) of Inventor(s) ^{*** (FAMILY NAME (ALL CAPS), Given Name)**}

⇨ WHEREAS,
CHEN, Nan,
LAIHONEN, Sari,
DE LAVAL, Ludvig,
DORÉ, Erik

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title of Invention

⇨ CONVERTER MODULE FOR HVDC POWER STATION

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application)

Insert Date of Signing of Appn.

⇨ on 02/12/2016; 02/15/2016; 04/01/2016; and

Insert Name of Assignee

⇨ WHEREAS, ABB Technology Ltd

Insert Address of Assignee

⇨ of Affolternstrasse 44, Zürich, Switzerland

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

Check Box if Appropriate

⇨ in any foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has (have) sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

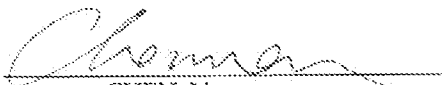
The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

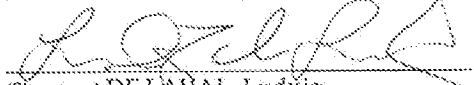
The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date Feb. 12, 2016 Name of Inventor 
(Signature) CHEN, Nan

Date _____ Name of Inventor _____
(Signature) LAIHONEN, Sari

Date 12/2 2016 Name of Inventor 
(Signature) DE LAVAL, Ludvig

Date _____ Name of Inventor _____
(Signature) DORE, Erik

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America patent(s) or a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

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The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____ Name of Inventor _____
(Signature) CHEN, Nan

Date 15/2/2016 Name of Inventor Sari Laite
(Signature) LAIHONEN, Sari

Date _____ Name of Inventor _____
(Signature) DE LAVAL, Ludvig

Date _____ Name of Inventor _____
(Signature) DORÉ, Erik

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

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The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____ Name of Inventor _____
(Signature) CHEN, Nari

Date _____ Name of Inventor _____
(Signature) LAIHONEN, Sari

Date _____ Name of Inventor _____
(Signature) DE LAVAL, Ludvig

Date 2016-04-01 Name of Inventor Erik Dore
(Signature) DORE, Erik