

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Kenichi TAKAGI | 03/24/2015 |
| Masanori ISHIGAKI | 03/24/2015 |
| Takahide SUGIYAMA | 03/24/2015 |
| Takaji UMENO | 03/24/2015 |
| Kenichiro NAGASHITA | 05/14/2015 |
| Takahiro HIRANO | 05/14/2015 |
| Jun MUTO | 05/14/2015 |
| RECEIVING PARTY DATA | |
| Name: | KABUSHIKI KAISHA TOYOTA CHUO KENKYUSHO |
| Street Address: | 41-1, Yokomichi |
| City: | Nagakute-shi, Aichi-ken |
| State/Country: | Japan |
| Postal Code: | 480-1192 |
| Name: | TOYOTA JIDOSHA KABUSHIKI KAISHA |
| Street Address: | 1, Toyota-cho |
| City: | Toyota-shi, Aichi-ken |
| State/Country: | Japan |
| Postal Code: | 471-8571 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14630051 |
| CORRESPONDENCE DATA | |
| Fax Number: | (703)836-2787 |
| <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> | |
| Phone: | 703-836-6400 |
| Email: | email@oliff.com |
| Correspondent Name: | JAMES A. OLIFF |
| Address Line 1: | OLIFF PLC |
| Address Line 2: | P.O. BOX 320850 |

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| Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850 | |
| ATTORNEY DOCKET NUMBER: | 164995 |
| NAME OF SUBMITTER: | SCOTT DODGE |
| SIGNATURE: | /Scott Dodge/ |
| DATE SIGNED: | 05/27/2015 |
| Total Attachments: 1 source=Assignment 1#page1.tif | |

ASSIGNMENT

| | | |
|---------------------|-------------------------|-----------------------|
| Insert | (1) Kenichi TAKAGI | (2) Masanori ISHIGAKI |
| (1-8) Legal Name(s) | (3) Takahide SUGIYAMA | (4) Takaji UMENO |
| of Inventor(s) | (5) Kenichiro NAGASHITA | (6) Takahiro HIRANO |
| | (7) Jun MUTO | (8) |

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to

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|---------------------------------|---|
| (9) Insert Name of Assignee | (9) 1) KABUSHIKI KAISHA TOYOTA CHUO KENKYUSHO 2) TOYOTA JIDOSHA KABUSHIKI KAISHA |
| (10) Insert Address of Assignee | (10) 1) 41-1, Yokomichi, Nagakute-shi, Aichi-ken 480-1192, Japan 2) 1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571 Japan |

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

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| (11) Insert Identification such as Title, Case Number, or Foreign Application Number | (11) ELECTRIC POWER CONVERSION CIRCUIT SYSTEM |
| | (Attorney Docket No. _____), filed on even date herewith or as |
| (12) Alternative Identification for filed applications | (12) U.S. Application Number 14/630,051 filed February 24, 2015 |

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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

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|------|----------------|--------------------|-----------------------------------|
| Date | March 24, 2015 | Inventor Signature | <u>Kenichi Takagi</u> (SEAL) |
| | | | Kenichi TAKAGI |
| Date | March 24, 2015 | Inventor Signature | <u>Masanori Ishigaki</u> (SEAL) |
| | | | Masanori ISHIGAKI |
| Date | March 24, 2015 | Inventor Signature | <u>Takahide Sugiyama</u> (SEAL) |
| | | | Takahide SUGIYAMA |
| Date | March 24, 2015 | Inventor Signature | <u>Takaji Umeno</u> (SEAL) |
| | | | Takaji UMENO |
| Date | May 14, 2015 | Inventor Signature | <u>Kenichiro Nagashita</u> (SEAL) |
| | | | Kenichiro NAGASHITA |
| Date | May 14, 2015 | Inventor Signature | <u>Takahiro Hirano</u> (SEAL) |
| | | | Takahiro HIRANO |
| Date | May 14, 2015 | Inventor Signature | <u>Jun Muto</u> (SEAL) |
| | | | Jun MUTO |
| Date | | Inventor Signature | (SEAL) |

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

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|------|-------|---------|-------|
| Date | _____ | Witness | _____ |
| Date | _____ | Witness | _____ |

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