503862416 06/08/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3909065

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| TAKASHI SAKUI | 05/27/2016 |
| HIROKAZU MORISHITA | 05/27/2016 |
| ASAHIKO HASEBE | 05/27/2016 |
| MAHO KIMURA | 05/27/2016 |
| YUSUKE MATSUMOTO | 05/27/2016 |
| KENICHI MORITA | 05/27/2016 |
| HISANORI NAKAMURA | 04/04/2016 |

RECEIVING PARTY DATA

| 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: | 15176974 |

CORRESPONDENCE DATA

Fax Number: (703)413-2220

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.

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Email: bbotchway@oblon.com

Correspondent Name: OBLON, ET AL.

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Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 472544US71 |
|-------------------------|--------------------|
| NAME OF SUBMITTER: | BRANDON BOTCHWAY |
| SIGNATURE: | /Brandon Botchway/ |
| DATE SIGNED: | 06/08/2016 |

PATENT 503862416 REEL: 038846 FRAME: 0899

| | This document serves as an Oath/Declaration (37 CFR 1.63). |
|----------------------------------|--|
| Total Attachments: 7 | |
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| source=472544USDcecAsn#page5.tif | |
| source=472544USDcecAsn#page6.tif | |
| source=472544USDcecAsn#page7.tif | |

| Invention | ELECTRICAL HEATING DEVICE AND ELECTRICAL HEATING METHOD | |
|--|--|--|
| As the below name | d inventor, I hereby declare that: | |
| This declaration [\S | The attached application, or | |
| is directed to: | United States application or PCT international application number | |
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| acknowledged, and said ASSIGNEE, t and in all foreign o other relevant Inter- interest in and to a | FORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby I for other good and valuable consideration, I, by these presents do sell, assign and transfer unto the full and exclusive right to the said invention in the United States and its territorial possessions ountries (including the right to claim priority under the terms of the International Convention and mational Treaties and Arrangements from the aforesaid application) and the entire right, title and any and all Letters Patent which may be granted therefor in the United States and its territorial any and all foreign countries and in and to any and all divisions, reissues, continuations, mewals thereof. | |
| any and all foreign assignee of my ent (his) successors an | ize and request the Patent Office Officials in the United States and its territorial possessions and a countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the ire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its d assigns, to the full end of the term for which said Letters Patent may be granted, as fully and e would have been held by me had this Assignment and sale not been made. | |
| Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries. | | |
| | vledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both. | |
| LEGAL NAME O | FINVENTOR | |
| Inventor: Takash | i SAKUI Date: May 27, 2016 | |
| Signature: Tak | ashi Sakui | |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

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| LEGAL NAME O | F INVENTOR | |
| Inventor: Hiroka | zu MORISHITA Date: May 27, 2016 | |
| Signatura: | inhou Marishit | |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW

1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

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| LEGAL NAME C | OF INVENTOR |
| Inventor: Asahi | ko HASEBE Date: May 27, 2016 |
| Signature: 1/2 | aliko Hasabe |

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| LEGAL NAME O | OF INVENTOR | | |
| Inventor: Maho | KIMURA Date: May 27, 2016 | | |
| Ciamatuwa | Paraho Kimura - | | |

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| LEGAL NAME OF INVENTOR | | |
| Inventor: Yusuke MATSUMOTO Date: May 27, 2016 | | |
| and Mariles metanington | | |

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| LEGAL NAME O | F INVENTOR | |
| Inventor: Kenich | | |
| Signature: | Kenieli Mortin | |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

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| LEGAL NAME OF | FINVENTOR |
| Inventor: Hisanor | ri NAKAMURA Date: February 4, 2016 April 4. 2016 H.N |
| Signature: Hisanori Nakamura April 4. 2016 H.N | |

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

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> PATENT REEL: 038846 FRAME: 0907

RECORDED: 06/08/2016