

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| TAKAO MASUDA | 03/15/2021 |
| YUTA NAKASAKA | 03/15/2021 |
| TAKUYA YOSHIKAWA | 03/15/2021 |
| SADAHIRO KATO | 04/22/2021 |
| MASAYUKI FUKUSHIMA | 04/22/2021 |
| HIROKO TAKAHASHI | 02/02/2021 |
| YUICHIRO BANBA | 04/21/2021 |
| KAORI SEKINE | 03/16/2021 |
| RECEIVING PARTY DATA | |
| Name: | FURUKAWA ELECTRIC CO., LTD. |
| Street Address: | 2-3, MARUNOUCHI 2-CHOME |
| Internal Address: | CHIYODA-KU |
| City: | TOKYO |
| State/Country: | JAPAN |
| Postal Code: | 100-8322 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16698496 |
| CORRESPONDENCE DATA | |
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| ATTORNEY DOCKET NUMBER: | P285194.US.01 |
| NAME OF SUBMITTER: | JAMES DANIELSON |

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| SIGNATURE: | /James Danielson/ |
| DATE SIGNED: | 07/29/2021 |
| Total Attachments: 10 source=SignedAssignment_P285194US01#page1.tif source=SignedAssignment_P285194US01#page2.tif source=SignedAssignment_P285194US01#page3.tif source=SignedAssignment_P285194US01#page4.tif source=SignedAssignment_P285194US01#page5.tif source=SignedAssignment_P285194US01#page6.tif source=SignedAssignment_P285194US01#page7.tif source=SignedAssignment_P285194US01#page8.tif source=SignedAssignment_P285194US01#page9.tif source=SignedAssignment_P285194US01#page10.tif | |

ASSIGNMENT

(讓渡証)

WHEREAS, we,

Takao MASUDA, having an address of c/o NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY, Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hokkaido 0600808, Japan;

Yuta NAKASAKA, having an address of c/o NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY, Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hokkaido 0600808, Japan;

Takuya YOSHIKAWA, having an address of c/o NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY, Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hokkaido 0600808, Japan;

Sadahiro KATO, having an address of c/o FURUKAWA ELECTRIC CO., LTD., 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan;

Masayuki FUKUSHIMA, having an address of c/o FURUKAWA ELECTRIC CO., LTD., 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan;

Hiroko TAKAHASHI, having an address of c/o FURUKAWA ELECTRIC CO., LTD., 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan;

Yuichiro BANBA, having an address of c/o FURUKAWA ELECTRIC CO., LTD., 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan; and

Kaori SEKINE, having an address of c/o FURUKAWA ELECTRIC CO., LTD., 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan;

hereinafter referred to as ASSIGNORS, are joint inventors on a U.S. patent application entitled “STRUCTURED CATALYST FOR STEAM REFORMING, REFORMING APPARATUS PROVIDED WITH STRUCTURED CATALYST FOR STEAM REFORMING, AND METHOD FOR MANUFACTURING STRUCTURED CATALYST FOR STEAM REFORMING,” assigned U.S. Application No. 16/698,496 filed on November 27, 2019, which is a U.S. by-pass continuation application of PCT Application No. PCT/JP2018/021095 filed on May 31, 2018, which claims priority to Japanese Patent Application No. 2017-108640 filed on May 31, 2017, (together, the afore-mentioned applications being the “Applications”);

Takao MASUDA、Yuta NAKASAKA、Takuya YOSHIKAWA、Sadahiro KATO、Masayuki FUKUSHIMA、Hiroko TAKAHASHI、Yuichiro BANBA、Kaori SEKINE（以下、「譲渡人」という）は、c/o NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY, Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hokkaido 0600808, Japan、c/o NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY, Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hokkaido 0600808, Japan、c/o NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY, Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hokkaido 0600808, Japan、c/o FURUKAWA ELECTRIC CO., LTD., 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan、c/o FURUKAWA ELECTRIC CO., LTD., 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan、c/o FURUKAWA ELECTRIC CO., LTD., 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan、c/o FURUKAWA ELECTRIC CO., LTD., 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan、c/o FURUKAWA ELECTRIC CO., LTD., 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan にそれぞれ住所を有し、2017年5月31日に出願された日本国特許出願2017-108640に優先権を基づく、2018年5月31日に出願されたPCT国際出願PCT/JP2018/021095に基づくバイパス継続出願であり、2019年11月27日に出願され、米国特許出願番号16/698,496を付与された、発明の名称「STRUCTURED CATALYST FOR STEAM REFORMING, REFORMING APPARATUS PROVIDED WITH STRUCTURED CATALYST FOR STEAM REFORMING, AND METHOD FOR MANUFACTURING STRUCTURED CATALYST FOR STEAM REFORMING」なる米国出願（前述の出願も含めて「当該出願」）の共同発明者である。

WHEREAS, FURUKAWA ELECTRIC CO., LTD. (hereinafter referred to as ASSIGNEE), having a place of business at 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan, is desirous of acquiring the entire right, title and interest in and to the Applications and in and to any patents that may be granted therefor in the United States and in any and all foreign countries;

FURUKAWA ELECTRIC CO., LTD. (以下、「譲受人」という)は、2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan に事業所を有し、当該出願及び、米国及び全ての外国にて付与されうる全ての特許に関する全ての権利、権限、及び利益の取得を希望する。

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and to said Applications, and any and all patents

which may be granted based on said Applications in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said Applications and all patents based on said Applications to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner for Patents and Trademarks to issue all patents based on said Applications to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign patents based on the Applications, for litigation regarding the patents, or for the purpose of protecting title to the Applications or patents. If not already present, Assignors hereby authorize the Assignee, or Assignee's attorney or agent, to insert the filing date and application number of the Applications when known. This Assignment may be executed in two or more counterparts and by facsimile, all of which shall be deemed an original, and all of which together shall constitute one and the same instrument. Counterparts may be delivered via facsimile, electronic mail (including pdf or any electronic signature complying with applicable state or federal law, e.g., www.docusign.com) or other transmission method and any counterpart so delivered shall be deemed to have been duly and validly executed and delivered and be valid and effective for all purposes.

よって、適当かつ価値ある対価の下、その受領をここに確認し、譲渡人はここに、上記当該出願、及び、上記当該出願に基づいて米国、米国の領有地、及び全ての外国において付与されうる全ての特許、及び当該特許に基づく全ての分割、再発行、継続特許、における全ての権利、権限及び利益（含む、譲受人名にて直接外国出願を提出し、当該米国出願に基づき国際協定、条約及びその他の関連する優先権出願を主張する権利）を譲受人に売却、譲渡、及び移転し、譲渡人によってこの売却、譲渡、及び移転がされなかった場合に保有し享受しうると同様に、十分かつ完全に、当該出願及びそれに基づく全ての出願に基づく特許が、譲受人、その承継人及び譲受人によって保有され享受されるものとする。譲渡人は、当該出願に基づく全ての特許が譲受人に対して発

行されるよう、特許商標庁長官に権限を認め要請する。譲渡人は、当該出願に基づく米国及び外国特許の出願及び権利化、当該特許に関する訴訟、もしくは当該出願や特許にかかる権限の保護のために必要な全ての証書、文書の署名に同意する。譲渡人は、当該出願の出願日及び出願番号が未記入の場合に、それらが判明した時点で譲受人、もしくは譲受人の弁護士もしくは弁理士が記入する権限を認める。この譲渡証は複数の写し（副本）として署名されることが可能となっており、これらは全てみなし原本とされ、これら全てを合わせて同一文書を構成する。写しは、ファクシミリや、（PDF や www.docuSign.com など適用されうる州法または連邦法に準拠した電子署名を含む）電子メール、その他の送信方法で送達することが可能であり、このように提供された全ての写しは、正式かつ合法的に署名・送達されたものとして、全ての目的において合法であるとして効力を有するとみなされるものとする。

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Assignors:

Signature: 
Assignor Name: Takao MASUDA

Date: March 15, 2021

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: Yuta Nakasaka

Date: March 15, 2021

Assignor Name: Yuta NAKASAKA

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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: Takuya Yoshikawa

Date: March 15, 2021

Assignor Name: Takuya YOSHIKAWA

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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: _____

Date: _____

Assignor Name: Sadahiro KATO

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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: _____

Date: _____

Assignor Name: Yuta NAKASAKA

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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: _____

Date: _____

Assignor Name: Takuya YOSHIKAWA

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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: /Sadahiro Kato/

Date: April 22, 2021

Assignor Name: Sadahiro KATO

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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: /Masayuki Fukushima/

Date: April 22, 2021

Assignor Name: Masayuki FUKUSHIMA

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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: _____

Date: _____

Assignor Name: Hiroko TAKAHASHI

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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: _____

Date: _____

Assignor Name: Yuichiro BANBA

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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: _____

Date: _____

Assignor Name: Masayuki FUKUSHIMA

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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: /Hiroko Takahashi/

Date: 2/2/2021

Assignor Name: Hiroko TAKAHASHI

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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: _____

Date: _____

Assignor Name: Yuichiro BANBA

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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: _____

Date: _____

Signature: _____

Date: _____

Assignor Name: Masayuki FUKUSHIMA

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|---------------------|-------------|
| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: _____

Date: _____

Assignor Name: Hiroko TAKAHASHI

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|---------------------|-------------|
| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

Signature: /Yuichiro Banba/_____

Date: April 21, 2021

Assignor Name: Yuichiro BANBA

| | |
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| Witness: | |
| Signature: _____ | Date: _____ |
| Witness Name: _____ | |

