

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6838756

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
KOJIRO INAMORI	03/15/2021
HIROKO TAKAHASHI	02/02/2021
YUICHIRO BANBA	04/21/2021
KAORI SEKINE	03/16/2021
RECEIVING PARTY DATA	
Name:	NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY
Street Address:	KITA 8-JYO NISHI 5-CHOME
Internal Address:	KITA-KU, HOKKAIDO
City:	SAPPORO-SHI
State/Country:	JAPAN
Postal Code:	060-0808
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:	16698636
CORRESPONDENCE DATA	
Fax Number:	(206)299-9288
<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>	

PATENT

Email: IP.docket.SE@dorsey.com
Correspondent Name: DORSEY & WHITNEY LLP
Address Line 1: 701 FIFTH AVENUE
Address Line 2: SUITE 6100
Address Line 4: SEATTLE, WASHINGTON 98104

ATTORNEY DOCKET NUMBER:	P285210.US.01
NAME OF SUBMITTER:	JAMES DANIELSON
SIGNATURE:	/James Danielson/
DATE SIGNED:	07/29/2021

Total Attachments: 11

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ASSIGNMENT

(譲渡証)

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;

Kojiro INAMORI, 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 "FUNCTIONAL STRUCTURAL BODY AND METHOD FOR MAKING FUNCTIONAL STRUCTURAL BODY," assigned U.S. Application No. 16/698,636 filed on November 27, 2019, which is a U.S. by-pass continuation application of PCT Application No. PCT/JP2018/021081 filed on May 31, 2018, which claims priority to Japanese Patent Application No. 2017-108590 filed on May 31, 2017, (together, the afore-mentioned applications being the "Applications");

Takao MASUDA、Yuta NAKASAKA、Takuya YOSHIKAWA、Sadahiro KATO、Masayuki FUKUSHIMA、Kojiro INAMORI、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、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 2017-108590 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/JP2018/021081 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 16/698,636 を付与された、発明の名称「FUNCTIONAL STRUCTURAL BODY AND METHOD FOR MAKING FUNCTIONAL STRUCTURAL BODY」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, NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY and FURUKAWA ELECTRIC CO., LTD. (hereinafter referred to as ASSIGNEE), having a place of business at Kita 8-jyo Nishi 5-chome, Kita-ku, Sapporo-shi, Hokkaido 0600808, Japan and 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008322, Japan and are 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;

NATIONAL UNIVERSITY CORPORATION HOKKAIDO UNIVERSITY およ
び FURUKAWA ELECTRIC CO., LTD. (以下、「譲受人」という)は、Kita 8-jyo Nishi 5-
chome, Kita-ku, Sapporo-shi, Hokkaido 0600808, Japan, および 2-3, Marunouchi 2-chome,
Chiyoda-ku, Tokyo 1008322, Japan、にそれぞれ事業所を有し、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:  Date: March 15, 2021

Assignor Name: Takao MASUDA

Witness:

Signature: _____ Date: _____

Witness Name: _____


Signature:  Date: March 15, 2021

Assignor Name: Yuta NAKASAKA

Witness:

Signature: _____ Date: _____

Witness Name: _____

Signature:  Date: March 15, 2021

Assignor Name: Takuya YOSHIKAWA

Witness:

Signature: _____ Date: _____

Witness Name: _____

Signature: /Sadahiro Kato/

Date: April 22, 2021

Assignor Name: Sadahiro KATO

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____

Date: _____

Assignor Name: Masayuki FUKUSHIMA

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____

Date: _____

Assignor Name: Kojiro INAMORI

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____

Date: _____

Assignor Name: Sadahiro KATO

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: /Masayuki Fukushima/

Date: April 22, 2021

Assignor Name: Masayuki FUKUSHIMA

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____

Date: _____

Assignor Name: Kojiro INAMORI

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____

Date: _____

Assignor Name: Sadahiro KATO

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____

Date: _____

Assignor Name: Masayuki FUKUSHIMA

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____/Kojiro Inamori/

Date: March 15, 2021

Assignor Name: Kojiro INAMORI

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: /Hiroko Takahashi/

Date: 2/2/2021

Assignor Name: Hiroko TAKAHASHI

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____

Date: _____

Assignor Name: Yuichiro BANBA

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____

Date: _____

Assignor Name: Kaori SEKINE

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____

Date: _____

Assignor Name: Hiroko TAKAHASHI

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: /Yuichiro Banba/

Date: April 21, 2021

Assignor Name: Yuichiro BANBA

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____

Date: _____

Assignor Name: Kaori SEKINE

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____

Date: _____

Assignor Name: Hiroko TAKAHASHI

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: _____

Date: _____

Assignor Name: Yuichiro BANBA

Witness:

Signature: _____

Date: _____

Witness Name: _____

Signature: /Kaori Sekine/

Date: March 16, 2021

Assignor Name: Kaori SEKINE

Witness:

Signature: _____

Date: _____

Witness Name: _____