505065240 08/27/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5111996

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIROKI IZU	07/06/2018
YUICHI OGURA	06/27/2018
TAKEHIDE NOMURA	07/02/2018
KENGO HAYASHI	07/06/2018
SHINTARO YAMASHITA	07/02/2018
SHIRO SAKATA	07/02/2018
TETSUYA KITAGAWA	06/19/2018

RECEIVING PARTY DATA

Name:	MITSUBISHI ELECTRIC CORPORATION
Street Address:	7-3, MARUNOUCHI 2-CHOME
City:	CHIYODA-KU, TOKYO
State/Country:	JAPAN
Postal Code:	100-8310

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16080213

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	515661US
NAME OF SUBMITTER:	CYNTHIA STANKICH
SIGNATURE:	/Cynthia Stankich/
DATE SIGNED:	08/27/2018

PATENT REEL: 046948 FRAME: 0130

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Total Attachments: 4

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PATENT REEL: 046948 FRAME: 0131 出願データシート (37 CFR 1.76) 及び単独の譲受人への譲渡証を用いる実用特許出願又は意匠特許出願 に関する宣言書 (37 CFR 1.63)

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

発明の名称 Title of Invention	HEAT RADIATOR USING HEAT PIPE PANEL
	発明者として、私はここに以下の通り宣言します: d inventor, I hereby declare that:
本宣言は以下に関 This declaration is d	
□ 添付の出願、 The attached	又は application, or
	・ B 又は PCT 国際出願番号 application or PCT international application number PCT/JP2017/003642
	出願日 1 February, 2017 . filed on
	こより、又は私の承認の下になされたものです。 d application was made or authorized to be made by me.
	鎖のクレーム発明に関する真の発明者又は真の共同発明者であるものと信じます。 he original inventor or an original joint inventor of a claimed invention in the application.
	(以下、譲受人と呼ぶ)は、 に
	(発明、及び米国、米国の領有地、及び全ての外国においてその後付与され得る全ての特許に権原、及び利益の取得を希望します。
	ubishi Electric Corporation I to as "ASSIGNEE") having places of business at: 7-3, Marunouchi 2-chome, Chivoda-ku,
Tokyo 100-8310 Ja	pan, is desirous of acquiring the entire right, title and interest in and to said invention and in and t that may be granted therefor in the United States and its territorial possessions and in any and all
米国、米国の領有的条約及びその他の ての外国において に関する全ての権利 NOW, THEREFOR acknowledged, and said ASSIGNEE, th and in all foreign of other relevant Inter- interest in and to a	ルの対価の受領をここに確認し、そしてその他の適当かつ価値ある対価の下、私はここに、他、及び全ての外国における当該発明の完全かつ排他的な権利(当該出願から生じる、国際関連する国際条約又は協定にて規定する優先権を含む)、及び米国、米国の領有地、及び全その後付与され得る全ての特許、及び当該特許の全ての分割、再発行、継続、差替及び更新制、権原、及び利益を、当該譲受人に売却、譲渡、及び移転します。 民E, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby for other good and valuable consideration, I, by these presents do sell, assign and transfer unto be full and exclusive right to the said invention in the United States and its territorial possessions puntries (including the right to claim priority under the terms of the International Convention and national Treaties and Arrangements from the aforesaid application) and the entire right, title and my 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, newals thereof.

PATENT REEL: 046948 FRAME: 0132 私は、米国、米国の領有地、及び全ての外国における特許庁の職員に対し、当該特許が付与された際に、全ての当該特許を、私の全ての権利、権原、及び利益の譲受人として、当該譲受人、その相続人、及びその譲受人の使用及び利益の目的のみにおいて、当該特許が付与され得る全ての期間において、当該譲渡及び売却がもし無ければ私が有するであろうものと同程度に完全かつ全てに渡り、当該譲受人に対して発行することをここに許可し、かつ要求します。

I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.

さらに、私は、当該譲受人又はその代理人に、当該発明につき私が知っているいかなる事実をも伝え、いかなる法 的手続きにおいても証言し、全ての合法な書面に署名し、全ての分割出願、継続出願、差替出願、更新出願、及び 再発行出願を行い、全ての当該特許が当該譲受人に対して発行されるように全ての必要な譲渡書面を作成し、全て の合法な宣誓書を作成し、及び、当該譲受人、その相続人、及びその譲受人を助け、米国、米国の領有地、及び全 ての外国において当該発明の適切な保護を図るために一般的に可能なこと全てを行うことに同意します。

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.

私は、本宣言書におけるいかなる故意による虚偽の陳述も、18 U.S.C. 1001に基づき罰金、又は5年以下の懲役、又はそれらの双方により処罰され得ることをここに認めます。

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 C.F.R. § 1.69(b):

The DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS is an accurate translation of the corresponding English language DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS.

Signature: 177 - 171	Date: 6/10/2013
発明者の法律上の氏名 LEGAL NAME OF INVENTOR	
発明者 Inventor: Hiroki IZU	日付 Date: <i>July 6、2018</i>
署名 Signature: <i> Wiroki (</i>	<i>q</i> ,

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

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

> PATENT REEL: 046948 FRAME: 0133

出願データシートによる宣誓書 および譲渡用の補足用紙

SUPPLEMENTAL SHEET FOR DECLARATION USING AN APPLICATION DATA SHEET AND ASSIGNMENT

追加発明者 ADDITIONAL INVENTOR(S)

補足用紙 Supplemental Sheet

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発明者の法律上の氏名 LEGAL NAME OF INVENTOR 発明者 Inventor: Yuichi OGURA 署名 Signature: <i>Yuichi Ogura</i>	日付 Date: June 27,2018
発明者の法律上の氏名 LEGAL NAME OF INVENTOR 発明者 Inventor: Takehide NOMURA 署名 Signature:	日付 Date: July 2, 2018
発明者の法律上の氏名 LEGAL NAME OF INVENTOR 発明者 Inventor: Kengo HAYASHI 署名 Signature: Lango Mayashi	日付 Date: July 6, 2018
発明者の法律上の氏名 LEGAL NAME OF INVENTOR 発明者 Inventor: Shintaro YAMASHITA 署名 Signature: メルン・シャン・ メート・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	日付 Date: <u>「</u>
発明者の法律上の氏名 LEGAL NAME OF INVENTOR 発明者 Inventor: Shiro SAKATA 署名 Signature: Shiro Sakata	目付 Date: July 2, 2018

PATENT

REEL: 046948 FRAME: 0134

出願データシートによる宣誓書 および譲渡用の補足用紙

SUPPLEMENTAL SHEET FOR DECLARATION USING AN APPLICATION DATA SHEET AND ASSIGNMENT

追加発明者 ADDITIONAL INVENTOR(S)

補足用紙 Supplemental Sheet

ページ Page ____of ___

発明者の法律上の氏名 LEGAL NAME OF INVENTOR 発明者 Inventor: Tetsuya KITAGAWA 署名 Signature:	目付 Date: <u>June 19, 2018</u>
発明者の法律上の氏名 LEGAL NAME OF INVENTOR 発明者 Inventor: 署名 Signature:	

PATENT REEL: 046948 FRAME: 0135

RECORDED: 08/27/2018