505823131 12/16/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
TAKAYUKI SHIMIZU	12/05/2019
AKIHISA OKUDA	12/05/2019
RYOTA OZAKI	12/05/2019
SHOYA MANO	12/05/2019
MASAHIKO SHIMIZU	12/05/2019

RECEIVING PARTY DATA

Name:	MITSUBISHI HEAVY INDUSTRIES, LTD.	
Street Address:	2-3, MARUNOUCHI 3-CHOME, CHIYODA-KU,	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	100-8332	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16623218

CORRESPONDENCE DATA

Fax Number: (703)518-5499

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.

Phone: 703-684-1111

Email: office@uspatentagents.com

Correspondent Name: KANESAKA BERNER AND PARTNERS LLP

Address Line 1: 2318 MILL ROAD Address Line 2: SUITE 1400

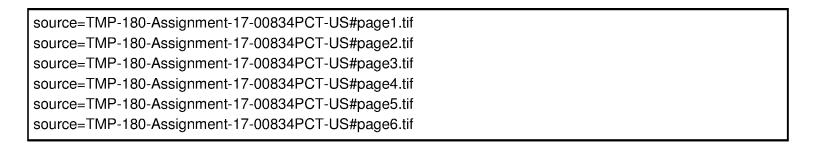
Address Line 4: ALEXANDRIA, VIRGINIA 22314-2848

ATTORNEY DOCKET NUMBER:	TMP-180
NAME OF SUBMITTER:	MANABU KANESAKA
SIGNATURE:	/Manabu KANESAKA/
DATE SIGNED:	12/16/2019
	<u> </u>

Total Attachments: 6

PATENT REEL: 051295 FRAME: 0953

505823131



PATENT REEL: 051295 FRAME: 0954

[Docket No.(整理番号) TMP-180]

ASSIGNMENT

	度証
Japanese Lang	lage Assignment 譲渡証
茲に受領を確認する、支払済の財産、他の物品及び有価約因により、下記に署名する、新規の有益な発明をした私/我々、 (発明者)	In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,
は、(護受人住所)	Takayuki SHIMIZU; Akihisa OKUDA; Ryota OZAKI; Shoya MANO; and Masahiko SHIMIZU
	who has made a certain new and useful invention, hereby sells, assigns and transfers unto
に所在する(譲受人) 、その継承者及び譲受人(以下、「譲受人」と指定する)に、	MITSUBISHI HEAVY INDUSTRIES, LTD. having a place of business at 2-3, Marunouchi 3-Chome, Chiyoda-ku, Tokyo, 1008332, Japan
(a) (出願日) に米国特許出願番号 (出願番号) として 出願され、又は に署名された米国 特許出願に記載された、	successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled
(発明の名称: title) FLEXIBLE MANDREL AND METHOD OF MA COMPOSITE MATERIAL PART	NUFACTURING
に関する発明において、米国特許法第 100 条が定める、アメリカ合衆国におけるすべての権利、権原、 利権を、ここに売渡、譲渡、移転し、	(a) for which an application for United States Letters Patent was filed on, and identified by United States Patent Application No; or
	(b) for which an application for United States Letters Patent was executed on,
下記に署名するものはここに、米国特許商標局長官に対して、前記「譲受人」、及び「譲受人」の利害関係者としての継承者、譲受人、及び法律上の代表者に、この発明に関する全ての米国特許証、全ての延長、分割出願、再発行特許出願、継続出願、または一部継続出願を、あるいは国際工業所有権保護同盟条約の下の全ての恩典を受ける権限を与えるように認め且つ請求するものであり、下記に署名する者は、前記出願に記載された弁護士	and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys

Page 1 of 2

of said ASSIGNEE;

が今後、前記「譲受人」の代理人となることに同意

し、

of record in said application shall hereafter act on behalf

下記に署名するものはここに、前記「譲受人」、その継承者、譲受人、及び法律上の代表者の要請に応じて、米国での特許出願、分割出願、再発行特許証、又は延長特許証を取得するため、及び追加報酬なしに、前記発明から生じる、又は関連する改良、及びそれに基づく特許出願のために利権を移転し、且つ必要な援助の全てを提供;及び移転された発明に対して前記「譲受人」、その継承者、譲受人、及び法律上の代表者により、「譲受人」の完全な保護と権限に不可欠と見なされる、あらゆる書類に署名する事に同意するものである。

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature: 併記された日付にて署名

1) Thayaki Shimingu	December 5, 2019
Name (署名): Takayuki SHIMIZU	Date (日付):
2) Name (署名): Akihisa OKUDA	Date (目付):
3)	
Name (署名): Ryota OZAKI	Date (日付):
4)	
Name (署名): Shoya MANO	Date (日付):
5)	
Name (署名): Masahiko SHIMIZU	Date (日付):

Page 2 of 2

[Docket No.(整理番号) TMP-180]

ASSIGNMENT 譲渡証

	Japanese Language Assignment 日本語譲渡証		
	茲に受領を確認する、支払済の財産、他の物品及 び有価約因により、下記に署名する、新規の有益な 発明をした私/我々、 (発明者)	valual suffici	nsideration of the premises and other good and ole consideration in hand paid, the receipt and ency of which is hereby acknowledged, the signed,
- Contractor of the last of th	,		ayuki SHIMIZU; Akihisa OKUDA; Ryota II; Shoya MANO; and Masahiko SHIMIZU
THE RESERVE TO SECOND	は、(護受人住所)		nas made a certain new and useful invention, sells, assigns and transfers unto
	に所在する (譲受人) 、その継承者及び譲受人(以下、「譲受人」と指定する)に、	a plac	UBISHI HEAVY INDUSTRIES, LTD. having e of business at 2-3, Marunouchi 3-Chome, da-ku, Tokyo, 1008332, Japan
	(a) (出願日) に米国特許出願番号 (出願番号) として 出願され、又は に署名された米国 特許出願に記載された、	"ASSI United	sors and assigns (hereinafter designated GNEE") the entire right, title and interest for the States of America as defined in 35 U.S.C. 100 in entitled
	(発明の名称: title) FLEXIBLE MANDREL AND METHOD OF MAI COMPOSITE MATERIAL PART	NUFAC	TURING
	に関する発明において、米国特許法第 100 条が定める、アメリカ合衆国におけるすべての権利、権原、利権を、ここに売渡、譲渡、移転し、	(a)	for which an application for United States Letters Patent was filed on, and identified by United States Patent Application No; or
		(b)	for which an application for United States Letters Patent was executed on,
The same of the same of the same of	に認め且つ請求するものであり、 下記に署名する者は、前記出願に記載された弁護士 が今後、前記「譲受人」の代理人となることに同意	United to issue may be division thereof, Internat Property ASSIGI represer of record	undersigned hereby authorizes and requests the States Commissioner of Patents and Trademarks any and all United States Letters Patent which granted therefore and any and all extensions, s, reissues, continuations, or continuations-in-part and the right to all benefits under the ional Convention for the Protection of Industrial to the said ASSIGNEE, for its interest as NEE, its successors, assigns and legal statives; the undersigned agrees that the attorneys d in said application shall hereafter act on behalf ASSIGNEE;

Page 1 of 2

下記に署名するものはここに、前記「譲受人」、その継承者、譲受人、及び法律上の代表者の要請に応じて、米国での特許出願、分割出願、再発行特許証、又は延長特許証を取得するため、及び追加報酬なしに、前記発明から生じる、又は関連する改良、及びそれに基づく特許出願のために利権を移転し、且つ必要な援助の全てを提供;及び移転された発明に対して前記「譲受人」、その継承者、譲受人、及び法律上の代表者により、「譲受人」の完全な保護と権限に不可欠と見なされる、あらゆる書類に署名する事に同意するものである。

SIGNED on the date indicated aside my signature:

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

併記された日付にて署名	
1) Name (署名): Takayuki SHIMIZU	Date (日付):
2) / JG - Cc / C / C / Name (署名): Akihisa OKUDA	December 5, 2019 Date (目付):
	2400 (A 13).
3) Name (署名): Ryota OZAKI	Date (日付):
4)	
Name (署名): Shoya MANO	Date (日付):
5) Name (署名): Masahiko SHIMIZU	Data (El fet).
TARRIE (-13 -11): IATOSOFIEM STITIATIVO	Date (日付):

[Docket No.(整理番号) TMP-180]

ASSIGNMENT

	旗缸
	uage Assignment 語談波証
茲に受領を確認する、支払済の財産、他の物品及び有価約因により、下記に署名する、新規の有益な発明をした私/我々、 (発明者)	
は、(譲受人住所)	Takayuki SHIMIZU; Akihisa OKUDA; Ryota OZAKI; Shoya MANO; and Masahiko SHIMIZU
	who has made a certain new and useful invention hereby sells, assigns and transfers unto
に所在する(譲受人) 、その継承者及び譲受人(以下、「譲受人」と指定する)に、	MITSUBISHI HEAVY INDUSTRIES, LTD. having a place of business at 2-3, Marunouchi 3-Chome. Chiyoda-ku, Tokyo, 1008332, Japan
(a) (出願日) に米国特許出願番号 (出願番号) として 出願され、又は に署名された米国 (b) (署名日) に署名された米国 特許出願に記載された、	successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled
(発明の名称: title) FLEXIBLE MANDREL AND METHOD OF MA COMPOSITE MATERIAL PART	NUFACTURING
に関する発明において、米国特許法第 100 条が定める、アメリカ合衆国におけるすべての権利、権原、利権を、ここに売渡、譲渡、移転し、	(a) for which an application for United States Letters Patent was filed on, and identified by United States Patent Application No; or
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Page 1 of 2

of said ASSIGNEE;

し、

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#記された日付にて署名

1) Name (署名): Takayuki SHIMIZU Date (日付):

2) Name (署名): Akihisa OKUDA Date (日付):

3) Name (署名): Ryota OZAKI Date (日付):

4) Xhopa Inano Date (日付):

4) Name (署名): Shoya MANO Date (日付):

5) Inana (署名): Masahiko SHIMIZU Date (日付):

Page 2 of 2