

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KOICHI ISHIGURO	01/12/2021
SHUN SHINOHARA	01/12/2021
KOHEI FUNAHARA	01/12/2021
TOMIO ODAKURA	01/28/2021
YOSHINORI OYAMA	02/18/2021
TAKAYUKI IKARIYAMA	06/15/2021
YOSHIKI KOBAYASHI	02/18/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HITACHI POWER SOLUTIONS CO., LTD.
<b>Street Address:</b>	2-2, SAIWAI-CHO 3-CHOME
<b>City:</b>	HITACHI-SHI, IBARAKI
<b>State/Country:</b>	JAPAN
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17273610
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)624-8844
<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>	
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<b>Email:</b>	ehorne@crowell.com, edocket@crowell.com
<b>Correspondent Name:</b>	CROWELL & MORING LLP
<b>Address Line 1:</b>	P.O. BOX 14300
<b>Address Line 4:</b>	WASHINGTON, D.C. 20011-4300
<b>ATTORNEY DOCKET NUMBER:</b>	110289.PE334US
<b>NAME OF SUBMITTER:</b>	MICHAEL H. JACOBS
<b>SIGNATURE:</b>	/Michael H. Jacobs/
<b>DATE SIGNED:</b>	07/06/2021
<b>Total Attachments: 3</b>	

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# ASSIGNMENT

( 譲 渡 証 )

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by Hitachi Power Solutions Co., Ltd., a corporation organized under the laws of Japan, located at 2-2, Saiwai-cho 3-chome, Hitachi-shi, Ibaraki, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi Power Solutions Co., Ltd., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

## FRICITION STIR WELDING APPARATUS

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Hitachi Power Solutions Co., Ltd., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi Power Solutions Co., Ltd.,

Signed on the date(s) indicated aside signatures:

	INVENTOR(S) (発明者フルネームサイン)	Date Signed (署名日)
1)	Koichi ISHIGURO <u>Koichi ISHIGURO</u>	<u>January 12, 2021</u>
2)	Shun SHINOHARA <u>Shun SHINOHARA</u>	<u>January 12, 2021</u>
3)	Kohei FUNAHARA <u>Kohei FUNAHARA</u>	<u>January 12, 2021</u>
4)	Tomio ODAKURA <u>Tomio Odakura</u>	<u>January 28, 2021</u>
5)	Yoshinori OYAMA _____	_____
6)	Takayuki IKARIYAMA _____	_____
7)	Yoshiaki KOBAYASHI _____	_____
8)	_____	_____
9)	_____	_____
10)	_____	_____

( 讓 渡 証 )

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And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi Power Solutions Co., Ltd.

INVENTOR(S)  
(発明者フルネームサイン)

Date Signed  
(署名日)

- |     |                    |                    |
|-----|--------------------|--------------------|
| 1)  | Kolchi ISHIGURO    |                    |
| 2)  | Shun SHINOHARA     |                    |
| 3)  | Kohei FUNAHARA     |                    |
| 4)  | Tomio ODAKURA      |                    |
| 5)  | Yoshinori OYAMA    | Yoshinori Oyama    |
| 6)  | Takayuki IKARIYAMA | Takayuki Ikariyama |
| 7)  | Yoshiaki KOBAYASHI |                    |
| 8)  |                    |                    |
| 9)  |                    |                    |
| 10) |                    |                    |

REEL: 056763 FRAME: 0230

(讓渡証)

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INVENTOR(S)  
(発明者フルネームサイン)

1)	Koichi ISHIGURO	
2)	Shun SHINOHARA	
3)	Kohei FUNAHARA	
4)	Tomio ODAKURA	
5)	Yoshinori OYAMA	
6)	Takayuki IKARIYAMA	
7)	Yoshiaki KOBAYASHI 小林義章	2021, 02, 18
8)		
9)		
10)		

REEL: 056763 FRAME: 0231