PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5960207

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YASUNARI SOHDA	12/13/2019
YOSHINORI NAKAYAMA	12/18/2019
KAORI BIZEN	12/24/2019
HIROYA OHTA	12/16/2019
YUSUKE ABE	12/17/2019

RECEIVING PARTY DATA

Name: HITACHI HIGH-TECHNOLOGIES CORPORATION	
Street Address:	24-14, NISHI-SHIMBASHI 1-CHOME
City:	MINATO-KU, TOKYO
State/Country:	JAPAN
Postal Code:	105-8717

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16638634

CORRESPONDENCE DATA

Fax Number: (703)610-8686

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: 7039039000

Email: ipdocketing@milesstockbridge.com,

kswanson@milesstockbridge.com

Correspondent Name: ERIC G. KING

Address Line 1: MILES & STOCKBRIDGE PC

Address Line 2: 1751 PINNACLE DRIVE, SUITE 1500 Address Line 4: TYSONS CORNER, VIRGINIA 22102

NAME OF SUBMITTER: KRYSTAL SWANSON SIGNATURE: /Krystal Swanson/	ATTORNEY DOCKET NUMBER:	T3309-23621US01
7222.2.3.3.3.	NAME OF SUBMITTER:	KRYSTAL SWANSON
	SIGNATURE:	/Krystal Swanson/
DATE SIGNED: 02/12/2020	DATE SIGNED:	02/12/2020

Total Attachments: 4

PATENT REEL: 051802 FRAME: 0188

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PATENT REEL: 051802 FRAME: 0189

(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 High-Technologies Corporation, a corporation organized under the laws of Japan, located at 24-14, Nishi-Shimbashi 1-chome, Minato-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi High-Technologies Corporation, its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

CALIBRATION SAMPLE, ELECTRON BEAM ADJUSTMENT METHOD AND ELECTRON BEAM APPARATUS USING SAME

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 High-Technologies Corporation, 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 High-Technologies Corporation,

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) <u>Yasunari SOHDA</u>	Yasımani Solda	12/13/2019
2) Yoshinori NAKAYA	MA	
3) Kaori BIZEN	*** ******	
4) <u>Hiroya OHTA</u>		
5) Yusuke ABE		
6)		
7)		_
8)		
9)		
0)		

PATENT REEL: 051802 FRAME: 0190

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INVENTOR(S)

	(発明者フルネームサイン)	(署名日)
1)	Yasunari SOHDA	
2)	Yoshinori NAKAYAMA Yoshinoi Rakayama	12/18/2019
3)	Kaori BIZEN	
4)	Hiroya OHTA	
5)	Yusuke ABE	
6)		
7)		
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PATENT REEL: 051802 FRAME: 0191

Date Signed

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INVENTOR/SY

	(発明者フルネームサイン)	(署名日)
1)	Yasunari SOHDA	
2)	Yoshinori NAKAYAMA	
3)	Kaori Bizen Kaori Bizon	12/24/2019
4)	Hiroya OHTA	
5)	Yusuke ABE	_
6)		
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PATENT REEL: 051802 FRAME: 0192

Data Signad

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1)	Yasunari SOHDA	
2)	Yashinori NAKAYAMA	
3)	Kaori BIZEN	
4)	Hiroya OHTA OSCAGGA OLTA Yusuka ABE Was Oza	Dec. 17, 2019
5)	Yusuke ABE Wan Dr.	Dec. 17, 2019
6)		
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PATENT REEL: 051802 FRAME: 0193

RECORDED: 02/12/2020