504254064 03/02/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4300744

11/21/2016

11/04/2016

12/20/2016

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT		
NATURE OF CONVEYANCE: CONVEYING PARTY DATA	Corrective Assignment to correct the THE ASSIGNEE'S NAME AND ADDRESS previously recorded on Reel 040934 Frame 0950. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNOR'S INTEREST.		
	Name	Execution Date	
HIDEKI HASEGAWA		11/07/2016	

HIROYUKI SATAKE MASAO SUGA

YUICHIRO HASHIMOTO

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:	15324092

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:	70390	7039039000	
Email:	tpurif	by@milesstockbridge.com, ipdocketing@milesstockbridge.com	
Correspondent Name:	ERIC	G. KING	
Address Line 1:	MILE	S & STOCKBRIDGE PC	
Address Line 2:	1751 PINNACLE DRIVE, SUITE 1500		
Address Line 4:	TYSONS CORNER, VIRGINIA 22102-3833		
ATTORNEY DOCKET NUMBER	:	T3309-22476US01	
NAME OF SUBMITTER:		TYNISHA PURIFOY	

NAME OF SUBMITTER:	TYNISHA PURIFOY
SIGNATURE:	/Tynisha Purifoy/
DATE SIGNED:	03/02/2017
Total Attachments: 10	

source=T3309-22476US01_Corrective Assignment Documents#page1.tif	
source=T3309-22476US01_Corrective Assignment Documents#page2.tif	
source=T3309-22476US01_Corrective Assignment Documents#page3.tif	
source=T3309-22476US01_Corrective Assignment Documents#page4.tif	
source=T3309-22476US01_Corrective Assignment Documents#page5.tif	
source=T3309-22476US01_Corrective Assignment Documents#page6.tif	
source=T3309-22476US01_Corrective Assignment Documents#page7.tif	
source=T3309-22476US01_Corrective Assignment Documents#page8.tif	
source=T3309-22476US01_Corrective Assignment Documents#page9.tif	
source=T3309-22476US01_Corrective Assignment Documents#page10.ti	f

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, Ltd.

a corporation organized under the laws of Japan,

located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan

receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi, Ltd.

Its successor and assigns, all my right, tille and interest, in and for the United States of America, in and to

MASS SPECTROMETRY DEVICE

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 Hilachi, Ltd.

its successor, 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, Ltd.

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)

(発明者フルネームサイン) (署名日) 2016 1) Hideki Haregawa 111 Hideki HASEGAWA Hiroyuki SATAKE 2) Masao SUGA 3) Yulchiro HASHIMOTO 4) 5)_____ ------6) _____ ÷. 7) **** 8) 9) 10) ------

PATENT REEL: 041874 FRAME: 0878

Date Signed

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, Ltd.

a corporation organized under the laws of Japan,

located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan

receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi, Ltd.

its successor and assigns, all my right, title and interest, in and for the United States of America, in and to

MASS SPECTROMETRY DEVICE

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, Ltd.

its successor, 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, Ltd.

Signed on the date(s) indicated aside our signatures:

INVENTOR(S) (発明者フルネームサイン)

Date Signed (署名日)

1)	Hideki HASEGAWA	
	Kiroguhi Satake Hiroyuki SATAKE	11/21/2016
3)	Masao SUGA	
4)_	Yuichiro HASHIMOTO	
5)		
6)_		
7)		
8)		January 2010/01/2011/2011/2011/2011/2011/2011/2
9)_		
10)_		

PATENT REEL: 041874 FRAME: 0879

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me cilizen of Japan by Hitachi, Ltd.

a corporation organized under the laws of Japan,

located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan

receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi, Ltd.

its successor and assigns, all my right, title and interest, in and for the United States of America, in and to

MASS SPECTROMETRY DEVICE

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, Ltd.

its successor, 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, Ltd.

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)

(発明者フルネームサイン)

1)	Hideki HASEGAWA	
2)	Hiroyuki SATAKE	
3)	Masav Suga Masao SUGA	11/04/2016
4)	Yuichiro HASHIMOTO	
5)		
6)		
7)_		
8)		
9)_		
10)		

PATENT REEL: 041874 FRAME: 0880

Date Signed

(署名日)

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, Ltd.

a corporation organized under the laws of Japan,

located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan

receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi, Ltd.

its successor and assigns, all my right, title and interest, in and for the United States of America, in and to

MASS SPECTROMETRY DEVICE

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, Ltd.

Its successor, 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, Ltd.

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)

	(発明者フルネームサイン)	(署名日)
1)	Hideki HASEGAWA	
2)	Hiroyuki SATAKE	
3)	Masao SUGA	
4)	Hunten Winter Equichiro HASHIMOTO	20 December 2016
5)	·	
6)		
7)		·
8)		, .
9)		
10)		

PATENT REEL: 041874 FRAME: 0881

Date Signed

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, H.H. 21/25/2017 localed at 8.6, Morunauchi 1.ohome, Chiyada su, Tekyo, Japan 24-14, Nishi-Shimbashi 1.chome, Minato-ku, Tokyo, Japan 105-8717

receipt of which is hereby acknowledged I do hereby sell and assign to said Hilashi 1-chome, Minato-ku, Tokyo, Japan 105-8717 receipt of which is hereby acknowledged I do hereby sell and assign to said Hilashi, Lid. Hitachi High-Technologies Corporation its successor and assigns, all my right, litle and interest, in and for the United States of America, in and to $H/I \sim 91/25/2017$

MASS SPECTROMETRY DEVICE

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. If N. 0/25/20/7 to be held and enjoyed by said. Hitachi, Ltd. Hitachi High-Technologies Corporation. Its successor, 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 relasue 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 Pelents to issue said Letters Patent to said Hilachi, Ltd. Hitachi High-Technologies Corporation

H.R.01/25/2017 -

Signed on the date(s) indicated aside our signatures:

INVENTOR(S) (発明省フルネームサイン)

Dale Signed (署名日)

Hideki Harazawa Hideki HASEGAWA

11/7/2016

	V	
	Hiroyuki SATAKE	2)
	Masao SUGA	3)
·····	Yuldsiro HASHIMOTO	4)
		5)
		<u>6</u> ک
	:	7)
		8)
		9)
		101

PATENT REEL: 041874 FRAME: 0882

ASSIGNMENT (酸波証)

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 Hitschi, Ltd. Hitachi High-Technologies Corporation $H_{\Lambda} = \frac{o}{\sqrt{2017}}$ a corporation organized under the laws of Japan, $H_{\Lambda} = \frac{o}{\sqrt{2017}}$ located at 6.6, Marunouchi 1 ohome, Chiyoda ku, Tokyo, Japan 24-14, Nishi-Shimbashi 1-chome, Minato-ku, Tokyo, Japan 105-8717

receipt of which is hereby acknowledged I do hereby sell and assign to said Hilachi, Ltd. Hitachi High-Technologies Corporation its successor and assigns, all my right, title and interest, in and for the United States of America, in and to $\frac{11}{1.5} o/\frac{1}{1.5} o/\frac{1}{1.5}$

MASS SPECTROMETRY DEVICE

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, Ltd. Hitachi High-Technologies Corporation $H_{\rm eff} = 0.01 \, {\rm eff} / 100 \, {\rm eff$

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 interferance 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 Hilbohi, Ltd. Hitachi High-Jechnologies Corporation H_{N} , $o(/_{45}/_{201})$

Signed on the date(s) indicated aside our signatures:

INVENTOR(S) (発明省フルネームサイン) Date Signed (署名日)

1)_	Hideki HASEGAWA	·
2)_	Kirogudi Satate Hiroyuki SATAKE	11/21/2016
3)_	Masao SUGA	-693-111-11-11-11-11-11-11-11-11-11-11-11-1
4> <u>`</u> _	Yulchire HASHIMOTO	
5)_		
6)_		·
7>		
8)		
9)		
10)_		

PATENT REEL: 041874 FRAME: 0883

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, Ltd. Hitachi High-Technologies Corporation a corporation organized under the laws of Japan, M.S. of /25/2017 located at 6-6, Maruneuchi 1-chome, Chiyoda-ku, Tokyo, Japan 24-14, Nishi-Shimbashi 1-chome, Minato-ku, Tokyo, Japan 105-8717 receipt of which is hereby acknowledged I do hereby sell and assign to said Hitachi, Ltd. Hitachi High-Technologies Corporation its successor and assigns, all my right, title and interest, in and for the United States of America, in and to M.S. 01/25/2017

MASS SPECTROMETRY DEVICE

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, M.S. 01/25/2017

to be held and enjoyed by said Hilashi, Ltd. Hitachi High-Technologies Corporation

its successor, 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, Ltd. Hitachi High-Technologies Corporation M. S. 01/25/2019

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)

	(発明者フルネームサイン)	(署名日)
1)_	Hideki HASEGAWA	
2)	Hiroyuki SATAKE	
3)_	Masav Suga Masao SUGA	11/04/2016
4)	Yuichiro HASHIMOTO	
5)		
6)		
7)		
8)		
9)		
10)		

PATENT REEL: 041874 FRAME: 0884

Date Signed

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, Ltd. Nitachi High-Technologies Corporation Y H. 25/0//2017 a corporation organized under the laws of Japan, Y/1,) 5/0//2017 . located at 6.6, Marunouchi T chome, Chiyeda ku, Toliye, Uspan 24-14, Nishi-Shimbashi 1-chome, Minato-ku, Yokyo, Japan 105-8717 receipt of which is hereby acknowledged I do hereby sell and assign to seld Hitachi, Ltd. Nitachi High-Technologies Corporation its successor and assigns, all my right, title and interest, in and for the United States of America, in and to Y/1, 25/0/2017

MASS SPECTROMETRY DEVICE

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 <u>Hitschi, Ltd</u> Hitschi High-Technologies Corporation (11, 25)/01/201'its successor, 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 assignce;

Date Signed

(署名日)

And I do hereby authorize and request the Commissioner of Patents to Issue said Letters Patent to said Hitschi, Ltd. Hitschi High-Technologies Corporation $\chi / 1 / 2J / 0 / 2J / 1 / 2017$

Signed on the date(s) indicated aside our signatures:

INVENTOR(S)

(発明者フルネームサイン)

PATENT REEL: 041874 FRAME: 0885

RECORDED: 03/02/2017