504227385 02/14/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4274062

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AKIO NAKAYAMA	01/26/2017
RUMIKO FURUYA	01/31/2017
YUICHI ITO	02/08/2017
AKIO ISHII	01/31/2017
YUJI GYOTEN	02/09/2017
YOSHITAKE ANDO	02/13/2017
HIROAKI MURAKAMI	02/03/2017

RECEIVING PARTY DATA

Name:	HORIBA, LTD.
Street Address:	2, MIYANOHIGASHI-CHO, KISSHOIN, MINAMI-KU
City:	KYOTO-SHI, KYOTO
State/Country:	JAPAN
Postal Code:	601-8510
Name:	HORIBA ADVANCED TECHNO, CO., LTD.
Name: Street Address:	HORIBA ADVANCED TECHNO, CO., LTD. 31, MIYANONISHI-CHO, KISSHOIN, MINAMI-KU
Street Address:	31, MIYANONISHI-CHO, KISSHOIN, MINAMI-KU

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15432240

CORRESPONDENCE DATA

Fax Number: (503)459-4142

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: 503-459-4141 martin@ahmrt.com

Correspondent Name: ALLEMAN HALL MCCOY RUSSELL & TUTTLE LLP

Address Line 1: 806 SW BROADWAY

Address Line 2: SUITE 600

504227385 REEL: 041253 FRAME: 0056

PATENT

TLAND, OREGON 97205
KKI17301
KYOKO MARTIN
/Kyoko Martin/
02/14/2017
This document serves as an Oath/Declaration (37 CFR 1.63).

Invention:	CONCENTRATION MEASUREMENT SYSTEM, AND CONCENTRATION MEASUREMENT DEVICE
As the below name	d inventor, I hereby declare that:
This declaration is directed to:	The attached application, or
	United States application or PCT international application numberfiled on;
The above-identifi	ed application was made or authorized to be made by me.
I believe that I am	the original inventor or an original joint inventor of a claimed invention in the application.
I authorize the attor	orneys and agents associated with Customer Number 145327 to insert the filing date, application ney docket number of the above identified application when known.
	dge that any willful false statement made in the above declaration is punishable under 18 U.S.C. 1001 by ent of not more than five (5) years, or both.
ku, Kyoto-shi, Kyot a place of business Techno") (collective acquiring a respect NOW, THEREFO I, the above name ASSIGNEES, each of States and its territand all Letters Pat and all divisions, really authority when granted, to of the ASSIGNEES, its Further, I agree invention, and tes renewal and reisss issued to ASSIGNE assigns, to obtain	BA, Ltd., a Japanese corporation, having a place of business at 2, Miyanohigashi-cho, Kisshoin, Minami- 10. 601-8510, Japan ("HORIBA") and HORIBA Advanced Techno, Co., Ltd., a Japanese corporation, having 13. at 31, Miyanonishi-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto 601-8306, Japan ("HORIBA Advanced 14. Political and HORIBA Advanced Techno are being referred to as the ASSIGNEES), each is desirous of 15. at 31, Miyanonishi-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto 601-8306, Japan ("HORIBA Advanced 15. rely HORIBA and HORIBA Advanced Techno are being referred to as the ASSIGNEES), each is desirous of 15. at 31, Miyanonishi-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto 601-8306, Japan ("HORIBA Advanced 15. rely HORIBA and HORIBA Advanced 15. rely HORIBA and HORIBA Advanced 16. rely HORIBA and HORIBA Advanced 17. rely HORIBA and HORIBA Advanced 18. rely HORIBA and Benerally do everything possible to aid ASSIGNEES, its successors and 18. rely HORIBA and enforce proper protection for said invention in the United States.
LEGAL NAME OF I	VVENTOR .
Inventor: Akio N	IAKAYAMA Date: January 36, 3017
Signature: <u>Q</u>	ro Nokayama'
L	ATTY DOCUMEND - PUNTAGO

Title of Invention:	CONCENTRATION MEASUREMENT METHOD, CONCENTRATION MEASUREMENT PROGRAM, CONCENTRATION MEASUREMENT SYSTEM, AND CONCENTRATION MEASUREMENT DEVICE
As the below name	d inventor, I hereby declare that:
This declaration is directed to:	The attached application, or
	United States application or PCT international application numberfiled
	on;
The above-identifie	ed application was made or authorized to be made by me.
I believe that I am	the original inventor or an original joint inventor of a claimed invention in the application.
	rneys and agents associated with Customer Number 145327 to insert the filing date, application ney docket number of the above identified application when known.
	ige that any willful false statement made in the above declaration is punishable under 18 U.S.C. 1001 by nt of not more than five (5) years, or both.
ku, Kyoto-shi, Kyot a place of business Techno") (collectiv acquiring a respect NOW, THEREFOI I, the above named ASSIGNEES, each a States and its terri- and all Letters Pate and all divisions, re I hereby authoris when granted, to A the ASSIGNEES, its Further, I agree I invention, and test renewal and reissu issued to ASSIGNEE	BA, Ltd., a Japanese corporation, having a place of business at 2, Miyanohigashi-cho, Kisshoin, Minamio 601-8510, Japan ("HORIBA") and HORIBA Advanced Techno, Co., Ltd., a Japanese corporation, having at 31, Miyanonishi-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto 601-8306, Japan ("HORIBA Advanced ely HORIBA and HORIBA Advanced Techno are being referred to as the ASSIGNEES), each is desirous of ive 50% undivided interest therein, collectively representing the entire interest therein; R, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I inventor, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unito respective 50% interest in the full and exclusive right to the above-identified invention in the United torial possessions, and each a respective 50% interest in the entire right, title and interest in and to any issues, continuations and extensions thereof. The and request the Patent Office officials in the United States to issue any and all of said Letters Patent, assignees, as the ASSIGNEES of my entire right, title and interest in and to the same, for the sole use of successors and assigns. The limit communicate to ASSIGNEES, or its representatives, any facts known to me respecting said ify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, e applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be 15, make all rightful oaths and generally do everything possible to aid ASSIGNEES, its successors and and enforce proper protection for said invention in the United States.
Inventor Dumike	CHBLIVA 2000 AGENTARY 31 70/7
Inventor: Rumiko	FURUYA Date: January 31, 2017
Signature: <u>Ka</u>	rilw Furaya
	ATTY DOCKET NO. VVII 7201

Title of Invention:	CONCENTRATION MEASUREMENT METHOD, CONCENTRATION MEASUREMENT PROGRAM, CONCENTRATION MEASUREMENT DEVICE
As the below name	f inventor, I hereby declare that:
This declaration is directed to:	The attached application, or
	United States application or PCT international application numberfiled on;
The above-identified	d application was made or authorized to be made by me.
I believe that I am t	ne original inventor or an original joint inventor of a claimed invention in the application.
	neys and agents associated with Customer Number 145327 to insert the filing date, application ey docket number of the above identified application when known.
	ge that any willful false statement made in the above declaration is punishable under 18 U.S.C. 1001 by it of not more than five (5) years, or both.
ku, Kyoto-shi, Kyoto a place of business a Techno") (collective acquiring a respecti NOW, THEREFOR I, the above named ASSIGNEES, each a States and its territiand all Letters Pater and all divisions, rei I hereby authorize when granted, to Asthe ASSIGNEES, its sufference of the properties of the ASSIGNEES, its sufference of the properties of the ASSIGNEES, its sufference of the properties of the ASSIGNEES assigns, to obtain as	A, Ltd., a Japanese corporation, having a place of business at 2, Miyanohigashi-cho, Kisshoin, Minami-601-8510, Japan ("HORIBA") and HORIBA Advanced Techno, Co., Ltd., a Japanese corporation, having at 31, Miyanonishi-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto 601-8306, Japan ("HORIBA Advanced ly HORIBA and HORIBA Advanced Techno are being referred to as the ASSIGNEES), each is desirous of ve 50% undivided interest therein, collectively representing the entire interest therein; for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, inventor, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto respective 50% interest in the full and exclusive right to the above-identified invention in the United orial possessions, and each a respective 50% interest in the entire right, title and interest in and to any my which may be granted therefor in the United States and its territorial possessions, and in and to any assues, continuations and extensions thereof. E and request the Patent Office officials in the United States to issue any and all of said Letters Patent, SSIGNEES, as the ASSIGNEES of my entire right, title and interest in and to the same, for the sole use of uccessors and assigns. Interval I will communicate to ASSIGNEES, or its representatives, any facts known to me respecting said by in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be 5, make all rightful oaths and generally do everything possible to aid ASSIGNEES, its successors and and enforce proper protection for said invention in the United States.
LEGAL NAME OF IN	
Inventor: Yuichi ITO	Date: 2/8/2017 nichi tto
Signature:	nichi to
	ATTY DOCKET NO · KKII 7201

Title of	CONCENTRATION MEASUREMENT METHOD, CONCENTRATION MEASUREMENT PROGRAM,
Invention:	CONCENTRATION MEASUREMENT SYSTEM, AND CONCENTRATION MEASUREMENT DEVICE
As the below name	d inventor, I hereby declare that:
This declaration is directed to:	The attached application, or
	United States application or PCT international application numberfiled onfiled
The above-identifie	d application was made or authorized to be made by me.
I believe that I am t	he original inventor or an original joint inventor of a claimed invention in the application.
	rneys and agents associated with Customer Number 145327 to insert the filing date, application ey docket number of the above identified application when known.
	ge that any willful false statement made in the above declaration is punishable under 18 U.S.C. 1001 by it of not more than five (5) years, or both.
ku, Kyoto-shi, Kyoto a place of business. Techno") (collective acquiring a respection NOW, THEREFOR I, the above named ASSIGNEES, each a States and its territ and all Letters Pate and all divisions, reinthereby authoriz when granted, to All the ASSIGNEES, its further, I agree the invention, and testing renewal and reissued to ASSIGNEE assigns, to obtain as	A, Ltd., a Japanese corporation, having a place of business at 2, Miyanohigashi-cho, Kisshoin, Minami- 601-8510, Japan ("HORIBA") and HORIBA Advanced Techno, Co., Ltd., a Japanese corporation, having at 31, Miyanonishi-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto 601-8306, Japan ("HORIBA Advanced lly HORIBA and HORIBA Advanced Techno are being referred to as the ASSIGNEES), each is desirous of we 50% undivided interest therein, collectively representing the entire interest therein; , for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, inventor, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto respective 50% interest in the full and exclusive right to the above-identified invention in the United orial possessions, and each a respective 50% interest in the entire right, title and interest in and to any nt which may be granted therefor in the United States and its territorial possessions, and in and to any ssues, continuations and extensions thereof. e and request the Patent Office officials in the United States to issue any and all of said Letters Patent, SSIGNEES, as the ASSIGNEES of my entire right, title and interest in and to the same, for the sole use of successors and assigns. hat I will communicate to ASSIGNEES, or its representatives, any facts known to me respecting said fiy in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, exapplications, execute all necessary assignment papers to cause any and all of said Letters Patent to be S, make all rightful oaths and generally do everything possible to aid ASSIGNEES, its successors and and enforce proper protection for said invention in the United States.
LEGAL NAME OF IN	VENTOR
Inventor: Akio ISH	
Signature: AE	io Ishīi
	ATTY DOCKET NO.: KKI17301

little of invention:	CONCENTRATION MEASUREMENT METHOD, CONCENTRATION MEASUREMENT PROGRAM, CONCENTRATION MEASUREMENT SYSTEM, AND CONCENTRATION MEASUREMENT DEVICE
As the below name	l inventor, I hereby declare that:
This declaration is directed to:	The attached application, or
•	United States application or PCT international application numberfiled on;
The above-identified	application was made or authorized to be made by me.
I believe that I am th	e original inventor or an original joint inventor of a claimed invention in the application.
	neys and agents associated with Customer Number 145327 to insert the filing date, application ey docket number of the above identified application when known.
	ge that any willful false statement made in the above declaration is punishable under 18 U.S.C. 1001 by t of not more than five (5) years, or both.
ku, Kyoto-shi, Kyoto a place of business a Techno") (collectivel acquiring a respectivel NOW, THEREFOR, I, the above named ASSIGNEES, each a states and its territor and all Letters Pater and all divisions, reis I hereby authorize when granted, to AS the ASSIGNEES, its siruther, I agree th invention, and testificenewal and reissue issued to ASSIGNEES assigns, to obtain an	A, Ltd., a Japanese corporation, having a place of business at 2, Miyanohigashi-cho, Kisshoin, Minami-601-8510, Japan ("HORIBA") and HORIBA Advanced Techno, Co., Ltd., a Japanese corporation, having t 31, Miyanonishi-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto 601-8306, Japan ("HORIBA Advanced y HORIBA and HORIBA Advanced Techno are being referred to as the ASSIGNEES), each is desirous of the 50% undivided interest therein, collectively representing the entire interest therein; for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, inventor, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto respective 50% interest in the full and exclusive right to the above-identified invention in the United rial possessions, and each a respective 50% interest in the entire right, title and interest in and to any the which may be granted therefor in the United States and its territorial possessions, and in and to any sues, continuations and extensions thereof. and request the Patent Office officials in the United States to issue any and all of said Letters Patent, SIGNEES, as the ASSIGNEES of my entire right, title and interest in and to the same, for the sole use of accessors and assigns. at I will communicate to ASSIGNEES, or its representatives, any facts known to me respecting said in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be, make all rightful oaths and generally do everything possible to aid ASSIGNEES, its successors and denforce proper protection for said invention in the United States.
LEGAL NAME OF INV	•
Inventor: Yuji GYOT	EN Date: Feb 9 2017
Signature: Yuji	<u>Gyoten</u>
***************************************	ATTY DOCKET NO.: KKI17301

	Title of	CONCENTRATION MEASUREMENT METHOD, CONCENTRATION MEASUREMENT PROGRAM,
	Invention:	CONCENTRATION MEASUREMENT SYSTEM, AND CONCENTRATION MEASUREMENT DEVICE
	As the below named	inventor, I hereby declare that:
	This declaration is directed to:	The attached application, or
		United States application or PCT international application number
	The above-identified	application was made or authorized to be made by me.
	I believe that I am th	e original inventor or an original joint inventor of a claimed invention in the application.
		neys and agents associated with Customer Number 145327 to insert the filing date, application by docket number of the above identified application when known.
		e that any willful false statement made in the above declaration is punishable under 18 U.S.C. 1001 by t of not more than five (5) years, or both.
	ku, Kyoto-shi, Kyoto a place of business a Techno") (collectively acquiring a respectively NOW, THEREFOR, I, the above named it ASSIGNEES, each a restates and its territo and all Letters Patent and all divisions, reis I hereby authorize when granted, to ASSIGNEES, its sufurther, I agree the invention, and testify renewal and reissue issued to ASSIGNEES, assigns, to obtain and	A, Ltd., a Japanese corporation, having a place of business at 2, Miyanohigashi-cho, Kisshoin, Minami- 601-8510, Japan ("HORIBA") and HORIBA Advanced Techno, Co., Ltd., a Japanese corporation, having t 31, Miyanonishi-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto 601-8306, Japan ("HORIBA Advanced y HORIBA and HORIBA Advanced Techno are being referred to as the ASSIGNEES), each is desirous of e 50% undivided interest therein, collectively representing the entire interest therein; for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, nventor, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto espective 50% interest in the full and exclusive right to the above-identified invention in the United rial possessions, and each a respective 50% interest in the entire right, title and interest in and to any t which may be granted therefor in the United States and its territorial possessions, and in and to any sues, continuations and extensions thereof. and request the Patent Office officials in the United States to issue any and all of said Letters Patent, SIGNEES, as the ASSIGNEES of my entire right, title and interest in and to the same, for the sole use of accessors and assigns. at I will communicate to ASSIGNEES, or its representatives, any facts known to me respecting said of in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be a make all rightful oaths and generally do everything possible to aid ASSIGNEES, its successors and denforce proper protection for said invention in the United States.
	LEGAL NAME OF INV	
	Inventor: Yoshitake	ANDO Date: <u>Feb. 13 , 2017</u>
	Signature: <u>Yoshi't</u>	ake Ando
١.		ATTY DOCKET NO.: KKi17301

little of	CONCENTRATION MEASUREMENT METHOD, CONCENTRATION MEASUREMENT PROGRAM,
Invention:	CONCENTRATION MEASUREMENT SYSTEM, AND CONCENTRATION MEASUREMENT DEVICE
As the below name	i inventor, i hereby declare that:
This declaration is directed to:	The attached application, or
	United States application or PCT international application numberfiled on;
The above-identifie	d application was made or authorized to be made by me.
I believe that I am t	he original inventor or an original joint inventor of a claimed invention in the application.
l authorize the atto number, and attorn	rneys and agents associated with Customer Number 145327 to insert the filing date, application bey docket number of the above identified application when known.
	ge that any willful false statement made in the above declaration is punishable under 18 U.S.C. 1001 by not more than five (5) years, or both.
ku, Kyoto-shi, Kyoto a place of business Techno") (collective acquiring a respection NOW, THEREFOR I, the above named ASSIGNEES, each a States and its territiand all Letters Pate and all divisions, re I hereby authorize when granted, to A the ASSIGNEES, its Further, I agree to invention, and test renewal and reissuissued to ASSIGNEE assigns, to obtain a	A, Ltd., a Japanese corporation, having a place of business at 2, Miyanohigashi-cho, Kisshoin, Minami-b 601-8510, Japan ("HORIBA") and HORIBA Advanced Techno, Co., Ltd., a Japanese corporation, having at 31, Miyanonishi-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto 601-8306, Japan ("HORIBA Advanced by HORIBA and HORIBA Advanced Techno are being referred to as the ASSIGNEES), each is desirous of the 50% undivided interest therein, collectively representing the entire interest therein; for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, inventor, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto respective 50% interest in the full and exclusive right to the above-identified invention in the United orial possessions, and each a respective 50% interest in the entire right, title and interest in and to any it which may be granted therefor in the United States and its territorial possessions, and in and to any itsues, continuations and extensions thereof. e and request the Patent Office officials in the United States to issue any and all of said Letters Patent, SSIGNEES, as the ASSIGNEES of my entire right, title and interest in and to the same, for the sole use of successors and assigns. hat I will communicate to ASSIGNEES, or its representatives, any facts known to me respecting said ify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be 50, make all rightful oaths and generally do everything possible to aid ASSIGNEES, its successors and not enforce proper protection for said invention in the United States.
LEGAL NAME OF IN	
Inventor: Hiroaki !	MURAKAMI Date: 2/3/2017
Signature: 7di	MURAKAMI Date: 2/3/2017 Noaki Murakami
<u> </u>	ATTY DOCKET NO . KKI17201

PATENT REEL: 041253 FRAME: 0064

RECORDED: 02/14/2017