504227449 02/14/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PATRICK ALBRIGHT	01/10/2017
RYAN JOHNSON	01/25/2017
ALEXEI V. SMIRNOV	01/10/2017

RECEIVING PARTY DATA

Name:	HITACHI METALS, LTD.		
Street Address:	2-70, KONAN 1-CHOME		
City:	MINATO-KU, TOKYO		
State/Country:	JAPAN		
Postal Code:	108-8224		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15378810

CORRESPONDENCE DATA

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Phone: 720.536.4900

Email: rene@nodiplaw.com

Correspondent Name: NEUGEBOREN O'DOWD PC Address Line 1: 1227 SPRUCE STREET

Address Line 2: SUITE 200

Address Line 4: BOULDER, COLORADO 80302

ATTORNEY DOCKET NUMBER: FLF1501US

NAME OF SUBMITTER: SEAN R. O'DOWD

SIGNATURE: /Sean R. O'Dowd/

DATE SIGNED: 02/14/2017

Total Attachments: 3

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PATENT 504227449 REEL: 041253 FRAME: 0350

Attorney Docket No. FLF1501US

ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION,

We, the undersigned (each) have agreed and hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto

Hitachi Metals, Ltd.

a Japanese corporation as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

SYSTEM AND METHOD FOR DETECTING CONCENTRATION OF A GAS IN A GAS STREAM

described in an application for Letters Patent of the United States, identified as Attorney Docket No. <u>FLF1501US</u>, at Neugeboren O'Dowd PC, 1227 Spruce Street, Suite 200, Boulder, CO 80302, and filed on <u>12/14/2016</u>, as Application Serial No. <u>15378810</u>, and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

We hereby authorize Sean R. O'Dowd, attorney for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after the application for Letters Patent has been filed, and the U.S. Patent Office has assigned such application a Serial Number.

We covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, we have	hereunto signed our nan	nes on the day and year set forth below.
En Oli G		01/10/2017
Inventor's Signature		DATÉ
Patrick Albright	· · · · · · · · · · · · · · · · · · ·	
Inventor's Printed Name		
STATE OF)) SS	
COUNTY OF)	
On this day of proved to me on the basis of satisfa executed the same of his/her own free	ctory evidence to be the	, before me personally came the above named <u>Patrick Albright</u> who is personally known by me or same individual who executed the foregoing assignment, and who acknowledged to me that he/she poses therein set forth.
		NOTARY PUBLIC
		My Commission Expires: _

Inventor's Signature	1/25/17 DATE	
Ryan Johnson Inventor's Printed Name		
STATE OF	ss	
On this day of proved to me on the basis of satisfactory evexecuted the same of his/her own free will for	,, before me personally came the above named <u>Ryan Johnson</u> who is personally known by me ence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/s the use and purposes therein set forth.	or
	NOTARY PUBLIC My Commission Expires:	
Inventor's Signature	DATE	
Alexei V. Smirnov inventor's Printed Name		
STATE OF	ss	
COUNTY OF		
On this day of proved to me on the basis of satisfactory evi executed the same of his/her own free will for	,, before me personally came the above named <u>Alexei V. Smirnov</u> who is personally known by me ence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/s e use and purposes therein set forth.	or she
	NOTARY PUBLIC My Commission Expires:	

Inventor's Signature		DATE
Ryan Johnson		
Inventor's Printed Name		
STATE OF)) SS	
COUNTY OF)	
On this day of proved to me on the basis of satisfactor executed the same of his/her own free wi	ry evidence to be th	, before me personally came the above named <u>Ryan Johnson</u> who is personally known by me or ne same individual who executed the foregoing assignment, and who acknowledged to me that he/she rposes therein set forth.
		NOTARY PUBLIC My Commission Expires:
Inventor's Signature		DATE 01/10/17
· ·		
Alexei V. Smirnov Inventor's Printed Name		
STATE OF)	
COUNTY OF) SS)	
On this day of proved to me on the basis of satisfactor executed the same of his/her own free wi	y evidence to be the	, before me personally came the above named <u>Alexei V. Smirnov</u> who is personally known by me or at same individual who executed the foregoing assignment, and who acknowledged to me that he/she rposes therein set forth.
		NOTARY PUBLIC My Commission Expires: