# 503214297 03/11/2015

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY DA	ATA			
		Name	Execution Date	
TAKAHITO ASANUMA			01/23/2015	
YASUHIDE YAMAGUCH	11		01/30/2015	
YUNOSUKE NAKAHARA	4		02/09/2015	
RECEIVING PARTY DA	ТА			
Name:	MITSUI	MITSUI MINING & SMELTING CO., LTD.		
Street Address:	1-11-1, (	1-11-1, OSAKI, SHINAGAWA-KU		
City:	ΤΟΚΥΟ			
State/Country:	JAPAN			
Postal Code:	141-858	4		
		Number	_	
Application Number:	1	4427491	_	
Application Number: CORRESPONDENCE D				
CORRESPONDENCE D	<b>ATA</b> (/	4427491 412)945-5933		
CORRESPONDENCE D Fax Number: <i>Correspondence will be</i>	ATA ( <sup>/</sup>	4427491 412)945-5933 <i>the e-mail address first; if that is ur</i>		
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Form PTO-1595 (Rev. 03/11) OMB No. 0651-0027 (exp. 4/30/2015)

U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY				
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.				
<b>1. Name of conveying party(ies)</b> Takahito ASANUMA Yasuhide YAMAGUCHI Yunosuke NAKAHARA	2. Name and address of receiving party(ies)         Name: MITSUI MINING & SMELTING CO., LTD.         Internal Address:			
Additional name(s) of conveying party(ies) attached? Yes V No <b>3. Nature of conveyance/Execution Date(s):</b> Execution Date(s) 01/23/2015, 01/30/2015, 02/09/2015	Street Address: 1-11-1, Osaki, Shinagawa-ku			
<ul> <li>Assignment</li> <li>Merger</li> <li>Security Agreement</li> <li>Joint Research Agreement</li> <li>Government Interest Assignment</li> </ul>	City:         Tokyo           State:			
Executive Order 9424, Confirmatory License     Other	Additional name(s) & address(es) attached? Yes V No			
4. Application or patent number(s):          This document is being filed together with a new application No.(s)          A. Patent Application No.(s)       B. Patent No.(s)				
14/427,491				
Additional numbers attached? Yes 🖌 No				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:1			
Name: <u>Kent E. Baldauf</u> Internal Address: <u>The Webb Law Firm</u>	<ul> <li>7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$_0</li> <li>Authorized to be charged by credit card</li> <li>Authorized to be charged to deposit account</li> </ul>			
Street Address: <u>One Gateway Center</u> 420 Ft. Duquesne Blvd., Ste 1200	Enclosed None required (government interest not affecting title)			
City: Pittsburgh	8. Payment Information			
State: <u>PA</u> Zip: <u>15222</u>	a. Credit Card Last 4 Numbers Expiration Date			
Phone Number: <u>412-471-8815</u>				
Fax Number: 412-945-5933	b. Deposit Account Number			
Email Address:assignments@webblaw.com	Authorized User Name			
9. Signature: Kent & Cablan March 11, 2015 Signature Date				
Kent E. Baldauf Name of Person Signing	Total number of pages including cover 4			

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Doc. No. 32P8782

INTERNATIONAL

Application No.

Attorney Docket No.

#### ASSIGNMENT

WHEREAS, as a below named inventor, I have invented certain new and useful improvements in

### EXHAUST-GAS-PURIFICATION CATALYST CARRIER

(Invention Title)

for which I have this day executed an application for a United States Patent (hereinafter "said application").

#### AND/OR

and bears Application Number \_\_\_\_\_\_ (hereinafter "said application"). for which an application for a United States Patent was filed on

AND/OR

X for which an international patent application was filed under the Patent Cooperation Treaty on 08/22/2013 (mm/dd/yyyy), bearing Application No. PCT/JP2013/072414 (hereinafter "said application").

AND, WHEREAS, [Mitsui Mining & Smelting Co., Ltd.], a corporation of [JAPAN], having a place of business at [1-11-1, Osaki, Shinagawa-ku, Tokyo 141-8584], hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged. I as the inventor or as one of the inventors, hereinafter the assignor(s), do hereby assign, sell and transfer unto said assignee the full and exclusive right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals and/or extensions thereof. Such assignment extends to the full ends of the terms of these applications and patents as fully and entirely as the same would have been held and enjoyed by me had this Assignment not been made.

I hereby authorize and request any attorney associated with The Webb Law Firm, Customer No. 28289, to insert here in parentheses (Application No. 14/427.491, filed 08/22/2013 ) the filing date and application number of said application when known.

I covenant that I am the lawful owner(s) of said application, inventions and improvements, that the same are unencumbered, that no license has been granted to make, use or vend the said inventions or improvements or any of them, and that I have the full right to make this Assignment.

And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue,

Page 1 of 3

INTERNATIONAL

Application No.

Attorney Docket No.

continuation, continuation-in-part, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said assignee or by counsel for said assignee to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This Assignment shall be binding upon my heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors and/or assigns, as the case may be, of said assignee.

1. FULL NAME OF ASSIGNOR: Takahito ASANUMA	RESIDENCE: Ageo-shi, Japan	
EXECUTED this 23 day of	_,2015	
	Jakahito Asanuma Signature	
WITNESS:	С. , , , , , , , , , , , , , , , , , , ,	
Kaogufiror Kaneda		
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2. FULL NAME OF ASSIGNOR:	RESIDENCE:	
Yasuhide YAMAGUCHI	Ageo-shi, Japan	
EXECUTED this <u>30</u> day of <u>fam.</u>	_,2015	
WITNESS:	HSIGNATURE	
Kazynhiro Kaneda	- Chaim	
	- Jam Jasuhide (Yamaguchi	
X Checked Box indicates <u>1</u> additional j	page(s) for inventor signatures.	

Page 2 of 3

PATENT REEL: 035141 FRAME: 0380

INTERNATIONAL

Application No. Attorney Docket No. 3. FULL NAME OF ASSIGNOR: **RESIDENCE**; Yunosuke NAKAHARA Ageo-shi, Japan EXECUTED this \_\_\_\_\_\_ day of \_\_\_\_\_\_, 2015\_\_\_\_\_, 2015\_\_\_\_\_ Junosuke hak SIGNATURE WITNESS: Kangupino Kaneda 4. FULL NAME OF ASSIGNOR: **RESIDENCE:** EXECUTED this \_\_\_\_\_day of \_\_\_\_\_, 2015\_\_\_\_ SIGNATURE WITNESS: .



PATENT REEL: 035141 FRAME: 0381

**RECORDED: 03/11/2015**