502216807 02/01/2013

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Tatsuto NAGAYASU	12/21/2012
Takashi KAMIJO	12/21/2012
Masayuki INUI	12/21/2012
Tsuyoshi OISHI	12/21/2012
Hiromitsu NAGAYASU	12/21/2012
Hiroshi TANAKA	12/21/2012
Takuya HIRATA	12/21/2012
Tatsuya TSUJIUCHI	12/21/2012
Susumu OKINO	12/21/2012
Naoyuki KAMIYAMA	12/21/2012
Seiji YOSHIHARA	12/21/2012

RECEIVING PARTY DATA

Name:	Mitsubishi Heavy Industries, Ltd.	
Street Address:	16-5, Konan 2-chome, Minato-ku	
City:	Tokyo	
State/Country:	JAPAN	
Postal Code:	108-8215	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13701168

CORRESPONDENCE DATA

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PATENT

REEL: 029740 FRAME: 0440

D \$40.00 13701168

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Address Line 1: 1250 Connecticut Ave, NW Address Line 2: Suite 700 Washington, DISTRICT OF COLUMBIA 20036 Address Line 4: ATTORNEY DOCKET NUMBER: 121424 NAME OF SUBMITTER: Stephen G. Adrian Total Attachments: 6 source=121424 Assignment#page1.tif source=121424 Assignment#page2.tif source=121424 Assignment#page3.tif source=121424 Assignment#page4.tif source=121424 Assignment#page5.tif source=121424 Assignment#page6.tif

> PATENT REEL: 029740 FRAME: 0441

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) MITSUBISHI HEAVY INDUSTRIES, LTD.		and of other good and valuable co	nsideration pa	id to the	undersigned
16-5, Konan 2-chome, Minato-ku, Tokyo 10	8-8215	5 Japan			
(hereinafter, "ASSIGNEE"), the receipt of which is here ASSIGNEE the entire and exclusive right, title and inter (Title of Invention)			R hereby sells, a	assigns an	d transfers to
AIR POLLUTION CONTROL SYSTEM	AND I	METHOD			
relating to International Patent Application PCT/JP201 executed on even date herewith or, if not so executed, w		Zand/or for which application for Let	tters Patent of th	e United	States was
(a) executed on	_;	(Insert date of execution of applica	tion, if not conc	urrent)	
(b) filed on Nov. 30, 2012 Serial No. 13/701, 168;		Assignee's attorney is hereby a data, when known.	uthorized to inse	ert in (b) i	the specified
and to said application and all Letters Patent(s) of the Us substitute, reissue or reexamination application based the including any extensions thereof (collectively, hereinafter	ereon, for	the full term or terms for which the sa	aid Letters Pater		
The ASSIGNOR agree(s), when requested by said A which the ASSIGNEE may deem necessary, desirable or including in the preparation and prosecution of said appl reexamination, or public use proceeding, and in any litigates to include but not be limited to executing all papers, sworn testimony, and obtaining and producing evidence	r expedie lication(s ation or o , includir	ent, for securing, maintaining and enfe s) and the issuance of said Letters Pate other legal proceeding which may arise	orcing protection ent(s), in any int e or be declared	n for said erference in relation	invention, , reissue, i to same, such
IN WITNESS WHEREOF, the undersigned inventor	(s) has (h	nave) affixed his/her/their signature(s)).		
1) Tatsuto agayasu	-	Tatsuto NAGAYASU	Dec.	21,	2012
1) Tatsuto agayasu 2) Takashi (Signature)		(Type Name)			
2) (Alachi Comi) (Signature)		Takashi KAMIJO (Type Name)	Dec.	21, (Date)	2012
, ,				(Date)	
(Signature)		Masayuki INUI (Type Name)		(Date)	
4) Suyoshi Cishi	-	Tsuyoshi OISHI	Dec.	21,	2012
(Signature)		(Type Name)		(Date)	
5)(Signature)		Hiromitsu NAGAYASU (Type Name)		(Date)	
(Dignature)		(1) ype ivame)		Dute	

6)		Hiroshi TANAKA	
·,	(Signature)	(Type Name)	(Date)
7)		Takuya HIRATA	
, 	(Signature)	(Type Name)	(Date)
8)		Tatsuya TSUJIUCHI	
-	(Signature)	(Type Name)	(Date)
9)		Susumu OKINO	
	(Signature)	(Type Name)	(Date)
10)		Naoyuki KAMIYAMA	
,	(Signature)	(Type Name)	(Date)
11)		Seiji YOSHIHARA	
,	(Signature)	(Type Name)	(Date)

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) MITSUBISHI HEAVY INDUSTRIES, LTD		consideration paid to the undersigned
16-5, Konan 2-chome, Minato-ku, Tokyo 10	08-8215 Japan	
(hereinafter, "ASSIGNEE"), the receipt of which is here ASSIGNEE the entire and exclusive right, title and inter (Title of Invention)		OR hereby sells, assigns and transfers to
AIR POLLUTION CONTROL SYSTEM	AND METHOD	
relating to International Patent Application <u>PCT/JP201</u> executed on even date herewith or, if not so executed, w		etters Patent of the United States was
(a) executed on	_; (Insert date of execution of applic	eation, if not concurrent)
(b) filed onNov.30,2012		
Serial No. 13 /701,168 ;	Assignee's attorney is hereby data, when known.	authorized to insert in (b) the specified
and to said application and all Letters Patent(s) of the Usubstitute, reissue or reexamination application based the including any extensions thereof (collectively, hereinafted The ASSIGNOR agree(s), when requested by said All which the ASSIGNEE may deem necessary, desirable or including in the preparation and prosecution of said applicates to include but not be limited to executing all papers, swom testimony, and obtaining and producing evidence IN WITNESS WHEREOF, the undersigned inventors	ereon, for the full term or terms for which the er, "said application(s) and Letters Patent(s)" SSIGNEE and without charge to but at the er rexpedient, for securing, maintaining and en lication(s) and the issuance of said Letters Pation or other legal proceeding which may ari, including separate assignments and declaration.	said Letters Patent(s) may be granted and). spense of said ASSIGNEE, to do all acts forcing protection for said invention, trent(s), in any interference, reissue, se or be declared in relation to same, such tions, taking all rightful oaths, providing
1)	Tatsuto NAGAYASU	
(Signature)	<i>(Type Name)</i> Takashi KAMIJO	(Date)
2) (Signature)	(Type Name)	(Date)
3)	Masayuki INUI	
(Signature)	<i>(Type Name)</i> Tsuyoshi OISHI	(Date)
4) (Signature)	(Type Name)	(Date)
5) Whomaten hagayour (Signature)	Hiromitsu NAGAYASU (Type Name)	Dec. 21, 2012 (Date)
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6) Hiroshi Tanaka	Hiroshi TANAKA	Dec. 21, 2012
(Signature)	(Type Name)	(Date)
7) Jahry Hirata (Signature)	Takuya HIRATA	Dec. 21, 2012
(Signature)	(Type Name)	(Date)
8)	Tatsuya TSUJIUCHI	
(Signature)	(Type Name)	(Date)
9) Susum (H)	Susumu OKINO	Dec. 21, 2012
(Signature)	(Type Name)	(Date)
10) Naoyuki Kaniyama (Signature)	Naoyuki KAMIYAMA	Dec. 21, 2012
(Signature)	(Type Name)	(Date)
11) Geiji Yoshikara	Seiji YOSHIHARA	Dec. 21, 2012
(Signature)	(Type Name)	(Date)

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dolla inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) MITSUBISHI HEAVY INDUSTRIES, LT		onsideration paid to the undersigned
16-5, Konan 2-chome, Minato-ku, Tokyo	108-8215 Japan	
		
	<u> </u>	
(hereinafter, "ASSIGNEE"), the receipt of which is he ASSIGNEE the entire and exclusive right, title and in (Title of Invention)		DR hereby sells, assigns and transfers to
AIR POLLUTION CONTROL SYSTE	M AND METHOD	
relating to International Patent Application PCT/JP2! executed on even date herewith or, if not so executed,	011/062872and/or for which application for Lowas:	etters Patent of the United States was
(a) executed on	; (Insert date of execution of application)	ation, if not concurrent)
(b) filed on Nov. 30, 2012 Serial No. 13, 701, 168	Assignee's attorney is hereby a data, when known.	authorized to insert in (b) the specified
and to said application and all Letters Patent(s) of the substitute, reissue or reexamination application based including any extensions thereof (collectively, hereing The ASSIGNOR agree(s), when requested by said	thereon, for the full term or terms for which the after, "said application(s) and Letters Patent(s)")	said Letters Patent(s) may be granted and).
which the ASSIGNEE may deem necessary, desirable	or expedient, for securing, maintaining and en	forcing protection for said invention,
including in the preparation and prosecution of said a reexamination, or public use proceeding, and in any lit	igation or other legal proceeding which may aris	se or be declared in relation to same, such
acts to include but not be limited to executing all pape sworn testimony, and obtaining and producing eviden		ions, taking all rightful oaths, providing
IN WITNESS WHEREOF, the undersigned invent	or(s) has (have) affixed his/her/their signature(s	s).
1)	Tatsuto NAGAYASU	
(Signature)	(Type Name)	(Date)
2)	Takashi KAMIJO	
(Signature)	(Type Name)	(Date)
3) Masayuki Irui	Masayuki INUI	Dec. 21, 2012
(Signature)	(Type Name)	(Date)
4)(Signature)	Tsuyoshi OISHI (Type Name)	(Date)
		(Date)
5)(Signature)	Hiromitsu NAGAYASU (Type Name)	(Date)
i pigranare)	11 ype Name)	(Louie)

6)	Hiroshi TANAKA	
(Signature)	(Type Name)	(Date)
7)	Takuya HIRATA	
(Signature)	(Type Name)	(Date)
8) Tatsing Types	Tatsuya TSUJIUCHI (Type Name)	Dec. 21, 2012 (Date)
9)	Susumu OKINO	
(Signature)	(Type Name)	(Date)
10)	Naoyuki KAMIYAMA	
(Signature)	(Type Name)	(Date)
11)	Seiji YOSHIHARA	
(Signature)	(Type Name)	(Date)

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PATENT REEL: 029740 FRAME: 0447