502228845 02/12/2013

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Tatsuto NAGAYASU	12/03/2012
Takashi KAMIJO	12/03/2012
Masayuki INUI	12/03/2012
Tsuyoshi OISHI	12/03/2012
Hiromitsu NAGAYASU	12/03/2012
Hiroshi TANAKA	12/03/2012
Takuya HIRATA	12/03/2012
Tatsuya TSUJIUCHI	12/03/2012
Susumu OKINO	12/03/2012
Naoyuki KAMIYAMA	12/03/2012
Seiji YOSHIHARA	12/03/2012

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:	13701250

CORRESPONDENCE DATA

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PATENT

REEL: 029799 FRAME: 0321

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NAME OF SUBMITTER: Stephen G. Adrian

Total Attachments: 6
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PATENT REEL: 029799 FRAME: 0322

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dol inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) MITSUBISHI HEAVY INDUSTRIES, L		able consideration paid to the undersigned
16-5, Konan 2-chome, Minato-ku, Tokyo	o 108-8215 Japan	
		<u> </u>
(hereinafter, "ASSIGNEE"), the receipt of which is ASSIGNEE the entire and exclusive right, title and (Title of Invention)	hereby acknowledged, the undersigned AS interest to the invention entitled	SIGNOR hereby sells, assigns and transfers to
AIR POLLUTION CONTROL SYST	EM_AND METHOD	
relating to International Patent Application <u>PCT/JF</u> executed on even date herawith or, if not so execute	2 <u>2011/062870</u> and/or for which application d, was:	n for Letters Patent of the United States was
(a) executed on	, (Insert date of execution of	application, if not concurrent)
(b) filed on Nov. 30, 2012		
(b) filed on Nov. 30, 2012 Serial No. 13/701, 250	Assignee's attorney is l	nereby authorized to insert in (b) the specified
Serial No		
and to said application and all Letters Patent(s) of the substitute, reissue or reexamination application base including any extensions thereof (collectively, here. The ASSIGNOR agree(s), when requested by satisfied the ASSIGNEE may deem necessary, desiral including in the preparation and prosecution of said reexamination, or public use proceeding, and in any acts to include but not be limited to executing all pages.	ed thereon, for the full term or terms for whi inafter, "said application(s) and Letters Pat uid ASSIGNEE and without charge to but a ble or expedient, for securing, maintaining (application(s) and the issuance of said Let litigation or other legal proceeding which n	ich the said Letters Patent(s) may be granted an ent(s)"). It the expense of said ASSIGNEE, to do all act and enforcing protection for said invention, ters Patent(s), in any interference, reissue, pay arise or be declared in relation to same, suc
sworn testimony, and obtaining and producing evid	lence.	
IN WITNESS WHEREOF, the undersigned inv	entor(s) has (have) affixed his/her/their sign	gature(s).
" Torruto Vagarasu	Tatsuto NAGAYASU	Dec. 3, 2012
1) Tatsuto Nagayasu (Signalure)	(Type Name)	(Date)
2) lalough: tomiz	Takashi KAMIJO	Dec. 3, 2012
(Signature)	(Type Name)	(Date)
3)	Masayuki INUI	
Tanker (Signature)	(Type Name)	(Date)
4) The grand war.	Tsuyoshi OISHI (Type Name)	Dec. 3, 2012 (Date)
(Signature)	• •	(Date)
5) (Signature)	Hiromitsu NAGAYASU (Type Name)	(Date)
(0/8-11-12-2)	1-26	, ,

6)		Hiroshi TANAKA	
u) <u>-</u> -	(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)		Nacyuki KAMIYAMA	
, 	(Signature)	(Type Name)	(Date)
11)		Seiji YOSHIHARA	
,	(Signature)	(Type Name)	(Date)

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dol	ler (\$1.00), and of other good and valuable	consideration paid to the undersioned
inventor(s) (hereinafter, "ASSIGNOR") by	iai (\$1.00), and of other good and valuable	consideration paid to the undersigned
(Insert Name(s) & Address(es) of ASSIGNEE(S)) MITSUBISHI HEAVY INDUSTRIES, L	TD.	
<u> </u>		·
16-5, Konan 2-chome, Minato-ku, Tokyo	108-8215 Japan	
·	· · · · · · · · · · · · · · · · · · ·	
(hereinafter, "ASSIGNEE"), the receipt of which is I ASSIGNEE the entire and exclusive right, title and i (Title of Invention)		NOR hereby sells, assigns and transfers to
AIR POLLUTION CONTROL SYSTE	EM AND METHOD	
relating to International Patent Application PCT/JP executed on even date herewith or, if not so executed	2011/062870and/or for which application for it, was:	Letters Patent of the United States was
(a) executed on	; (Insert date of execution of appli	ication, if not concurrent)
(b) filed on <u>Nov.</u> 30, 2012		y authorized to insert in (b) the specified
Serial No. <u>13/701,250</u>	data, when known.	y aumorizea to insert in (b) the specifica
and to said application and all Letters Patenu(s) of th substitute, reissue or reexamination application based including any extensions thereof (collectively, herein	i thereon, for the full term or terms for which the	e said Letters Patent(s) may be granted an
The ASSIGNOR agree(s), when requested by sai which the ASSIGNEE may deem necessary, desirab including in the preparation and prosecution of said reexamination, or public use proceeding, and in any lacts to include but not be limited to executing all passwom testimony, and obtaining and producing evidence.	le or expedient, for securing, maintaining and c application(5) and the issuance of said Letters F itigation or other legal proceeding which may a pers, including separate assignments and declar	nforeing protection for said invention, 'atent(s), in any interference, reissue, rise or be declared in relation to same, suc
IN WITNESS WHEREOF, the undersigned inve	ntor(s) has (have) affixed his/her/their signature	e(s).
4.	Tatsuto NAGAYASU	
1)(Signature)	(Type Name)	(Date)
2)	Takashi KAMIJO	
(Signature)	(Type Name)	(Date)
3) Masayaki Inui	Masayuki INUI	Dec. 3, 2012
(Signature)	(Type Name)	(Date)
4)	Tsuyoshi OISHI	
(Signature)	(Type Name)	(Date)
5)	Hiromitsu NAGAYASU	
(Signature)	(Type Name)	(Date)

6)	Hiroshi TANAKA	
(Signature)	(Type Name)	(Date)
7)	Takuya HIRATA	·
(Signature)	(Type Name)	(Date)
8) Tatony Tsindr' (Signature)	Tatsuya TSUJIUCHI (Type Name)	Dec. 3, 2012 (Date)
9)	Susumu OKINO	
(Signature)	(Type Name)	(Date)
10)	Naoyuki KAMIYAMA	
(Signature)	(Type Name)	(Date)
11)	Seiji YOSHIHARA	•
(Signature)	(Type Name)	

PMHA-12066-US

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Do inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) MITSUBISHI HEAVY INDUSTRIES, I		consideration paid to the undersigned
16-5, Konan 2-chome, Minato-ku, Toky	o 108-8215 Japan	
	····	
(hereinafter, "ASSIGNEE"), the receipt of which is ASSIGNEE the entire and exclusive right, title and (Title of Invention)	hereby acknowledged, the undersigned ASSIGN interest to the invention entitled	NOR hereby sells, assigns and transfers to
AIR POLLUTION CONTROL SYST	EM AND METHOD	
relating to International Patent Application PCT/executed on even date herewith or, if not so execute		Letters Patent of the United States was
(a) executed on	; (Insert date of execution of appli	cation, if not concurrent)
(b) filed on Nov. 30, 2012 Serial No. 13/701, 250	l de alamanta addamant de la analus	cuthorized to insert in (b) the specified
and to said application and all Letters Patent(s) of the substitute, reissue or reexamination application base including any extensions thereof (collectively, herei	d thereon, for the full term or terms for which the	said Letters Patent(s) may be granted and
The ASSIGNOR agree(s), when requested by sawhich the ASSIGNEE may deem necessary, desiral including in the preparation and prosecution of said reexamination, or public use proceeding, and in any acts to include but not be limited to executing all passworn testimony, and obtaining and producing evidence.	ole or expedient, for securing, maintaining and en application(s) and the issuance of said Letters P litigation or other legal proceeding which may ar opers, including separate assignments and declars	nforcing protection for said invention, atent(s), in any interference, reissue, ise or be declared in relation to same, such
IN WITNESS WHEREOF, the undersigned inve	entor(s) has (have) affixed his/her/their signature	(8).
13	Tatsuto NAGAYASU	
1)(Signature)	(Type Name)	(Date)
2)	Takashi KAMIJO	
(Signature)	(Type Name)	(Date)
3)	Masayuki INUI	
(Signature)	(Type Name)	(Date)
4)	Tsuyoshi OlSHI	-
(Signature)	(Type Name)	(Date)
5) Hummen hagayasi	↑ Hiromitsu NAGAYA\$U	Dec. 3, 2012
(Signature)	(Type Name)	(Date)

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6) Hirohi Janaka (Signature)	Hiroshi TANAKA (Type Name)	
1) Jakuya Horator	Takuya HIRATA	Dec. 3, 2012
U (Signature)	(Type Name)	(Date)
8)	Tatsuya TSUJIUCHI	(Date)
(Signature)	(Type Name)	, ,
9)	Susumu OKINO	Dec. 3, 2012
(Signature)	(Type Name)	(Date)
10) havyaki Kameyana	Naoyuki KAMIYAMA	Dec. 3, 2012
(Signature) ((Type Name)	(Date)
11) Leiji Yoshihara	Seiji YOSHIHARA	Dec. 3, 2012
(Signature)	(Type Name)	(Date)