506309107 10/19/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PAUL JOSEPH ANDERSEN	07/10/2008
HAI-YING CHEN	07/10/2008
JOSEPH MICHAEL FEDEYKO	07/10/2008
JILLIAN ELAINE BAILIE	04/10/2008
RAJ RAO RAJARAM	04/08/2008
JOHN LEONELLO CASCI	07/10/2008
RODNEY KOK SHIN FOO	10/29/2009

RECEIVING PARTY DATA

Name:	JOHNSON MATTHEY PUBLIC LIMITED COMPANY
Street Address:	5TH FLOOR
Internal Address:	25 FARRINGDON STREET
City:	LONDON
State/Country:	UNITED KINGDOM
Postal Code:	EC4A 4AB

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15991565

CORRESPONDENCE DATA

Fax Number: (610)971-3022

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: 610.971.3092

Email: johnsonmattheyip@matthey.com

Correspondent Name: DANA KOLESAR

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ATTORNEY DOCKET NUMBER:	P01823US15
NAME OF SUBMITTER:	LINDA J. REMER
SIGNATURE:	/Linda J. Remer/

DATE SIGNED:	10/19/2020
Total Attachments: 10	
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THIS DEED OF ASSIGNMENT is made the 10th day of July

2008

BETWEEN

PAUL JOSEPH ANDERSEN of 355 Brighton Road, Plymouth Meeting, Pennsylvania 19462, USA; JILLIAN ELAINE BAILIE of 12 Morecambs Avenue, Caversham, Reading RG4 7NL, United Kingdom; JOHN LEONELLO CASCI of 1 West Dyke Road, Raddar, Cleveland TS10 4QL, United Kingdom; HAI-YING CHEN of 320 Arden Road, Conshchocken, Pennsylvania 1942B, USA; JOSEPH MICHEAL FEDEYKO of 109 Hampshire Court, West Chester, Pennsylvania 19380, USA and RAJ RAO RAJARAM of 34 Buckland Avenue, Slough SL3 7PH, United Kingdom, (hereinafter referred to as "inventor(s)") and

Johnson Maithey PLC of 40-42 Hatton Garden, London, EC1N sEE, United Kingdom. (hereinafter referred to as "JM").

WHEREAS

- (a) The Inventors have made an invention (hereinafter referred to as the "Invention"), which is described in the specification entitled "Transition Metal/Zeolite SCR Catalysts", relating to a method of converting nitrogen oxides in a gas, such as an exhaust gas of a vehicular leanburn internal combustion engine, to nitrogen by contacting the nitrogen oxides with a nitrogenous reducing agent in the presence of a transition metal-containing small pore anti/or aluminophosphate zeolite catalyst, filed with PCT application No. PCT/GB2007/050216 (hereinafter referred to as the Application) made to the European Patent Office by JM on 28 April 2007.
- (b) The Inventor(s), by virtue of [his/her/their] Employment by JM, or by other Agreement have agreed to assign to JM their entire right, title and interest in and to the Invention and the Application.

MOW THIS ASSIGNMENT WITNESSETH AS FOLLOWS and it is hereby agreed as follows:

In consideration of their employment or other AGREEMENT, the Inventor(s) hereby assign(s) unto JM their entire right, title and interest in and to

- (i) the invention
- (ii) the Application
- (iii) any and all Letters Patent or other form of protection which may be granted for the

together with the sole and exclusive benefit thereof and all rights, privileges and advantages whatsoever appentaining thereto (as far as the same would but for this assignment arise or accrue to the benefit of the inventors) to hold the same unto JM for its sole use and benefit exclusively.

The inventors assign unto JM the right to make further applications for Letters Patent or other form of protection for the invention in any and all countries where such applications may be made by another than the inventors and to claim priority for such applications from the Applications.

JM hereby accepts this assignment.

The inventors covenant and agree to sign all papers and drawings, take all rightful ceths and do all acts necessary or required by JM to be done for the procurement of Letters Patent or

other form of protection for the Invention and for further vesting or confirming the right and title thereof in JM without charge to JM but at ite expense.

This assignment shall be deemed to have come into full force and effect on the date as inserted above.

IN WITNESS WHEREOF the Inventors have executed this deed.

SIGNED AS A DEED by the said

Paul Andersen	Pul andersee
Jillan Baille	**************************************
John Casci	
Hal-Ying Chen	Days don
Joseph Fedeyko -	JaykM July
Raj Rajaram	
in the presence of: Signature of Witness: Address of Witness: Occupation of Witness:	Joellen Burghardt Affler Burghard Dr. Hadinistrative Assista
SIGNED AS A DEED or	behalf of JM;
	ho conit
	lan Carmichael Wishart, Patent Attorney
in the presence of:	MANGE STRAWGE
Signature of Witness: Address of Witness:	Hollington March
Occupation of Witness:	Largalti Administrator

THIS DEED OF ASSIGNMENT is made the 10th

day of April

2008

BETWEEN

PAUL JOSEPH ANDERSEN of 355 Brighton Road, Plymouth Meeting, Pennsylvania 19462, USA: JILLIAN ELAINE BAILIE of 12 Morecambe Avenue, Coversham, Reading RG4 7NL, United Kingdom; JOHN LEONELLO CASCI of 1 West Dyke Road, Redoar, Cleveland TS10 4QL, United Kingdom; HAI-YING CHEN of 320 Arden Road, Conshohocken, Pennsylvania 19428, USA; JOSEPH MICHEAL FEDEYKO of 109 Hampshire Court, West Chester, Pennsylvania 19380, USA and RAJ RAO RAJARAM of 34 Buckland Avenue, Slough SL3 7PH, United Kingdom, (hereinafter referred to as "Inventor(s)") and

Johnson Matthey PLC of 40-42 Hatton Gerden, London, EC1N 8EE, United Kingdom. (hereinafter referred to as "JM").

WHEREAS

- (a) The Inventors have made an invention (hereinafter referred to as the "Invention"), which is described in the specification entitled "Transition Metal/Zeolite SCR Catalysts", relating to a method of converting nitrogen oxides in a gas, such as an exhaust gas of a vehicular leanburn internal combustion angine, to nitrogen by contacting the nitrogen oxides with a nitrogenous reducing agent in the presence of a transition metal-containing small pore and/or aluminophosphate zeolite catalyst, filed with PCT application No. PCT/GB2007/050216 (hereinafter referred to as the Application) made to the European Patent Office by JM on 26 April 2007.
- (b) The Inventor(s), by virtue of [his/her/their] Employment by JM, or by other Agreement have agreed to assign to JM their entire right, title and interest in and to the invention and the Application.

NOW THIS ASSIGNMENT WITNESSETH AS FOLLOWS and it is hereby agreed as follows:

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- the Application (ii)
- (111) any and all Letters Patent or other form of protection which may be granted for the

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IN WITNESS WHEREOF the inventors have executed this deed.

SIGNED AS A DEED by the said

Paul Andersen	**************************************
Jillan Balilə	Marbaile
John Cascl	
Hai-Ying Chen	
Joseph Fedeyko	
Raj Rajaram	
in the presence of:	Phul Committee
Signature of Witness: Address of Witness:	12 Morrounto Avenue Kendina / Borns
Occupation of Witness:	
SIGNED AS A DEED of	behalf of JM;
word out	lan Carmichael Wishart, Paterit Attorney
in the presence of:	FRANCES STRANGE
Signature of Witness: Address of Witness:	Westerner with
Occupation of Witness:	LATENIT ATTENNATION

REF: AAUS 1823

IMS DEED OF ASSIGNMENT is made the 8th day of April

2008

BETWEEN

PAUL JOSEPH ANDERSEN of 355 Brighton Road, Plymouth Meeting, Pennsylvania 19462, USA; JILLIAN ELAINE BAILIE of 12 Morecambe Avenue, Caversham, Reading RG4 7NL, United Kingdom; JOHN LEONELLO CASCI of 1 West Dyke Road, Redoar, Cleveland TS10 4QL, United Kingdom; HAI-YING CHEN of 320 Arden Road, Conshohocken, Pennsylvania 19428, USA; JOSEPH MICHEAL FEDEYKO of 108 Hampshire Court, West Chester, Pennsylvania 19360, USA and RAJ RAO RAJARAM of 34 Buckland Avenue, Slough SL3 7PH, United Kingdom, (hereinafter referred to as "inventor(s)") and

Johnson Matthey PLC of 40-42 Hallon Gerden, London, EC1N BEE, United Kingdom, (hereinefter referred to as "JM").

WHEREAS

- (a) The Inventors have made an invention (hereinafter referred to as the "Invention"), which is described in the specification entitled "Transition Metal/Zeolite SCR Catalysts", relating to a method of converting nitrogen oxides in a gas, such as an exhaust gas of a vehicular leanburn internal combustion engine, to nitrogen by contacting the nitrogen oxides with a nitrogenous reducing agent in the presence of a transition metal-containing small pore and/or stuminophosphate zeolite catalyst, filed with PCT application No. PCT/GB2007/050216 (hereinafter referred to as the Application) made to the European Patent Office by JM on 26 April 2007.
- (b) The Inventor(s), by virtue of [his/her/their] Employment by JM, or by other Agreement have agreed to assign to JM their entire right, title and interest in and to the invention and the Application.

NOW THIS ASSIGNMENT WITNESSETH AS FOLLOWS and it is hereby agreed as follows:

In consideration of their employment or other AGREEMENT, the Inventor(s) hereby assign(s) unto JM their entire right, title and interest in and to

- (i) the invention
- (ii) the Application
- (iii) any and all Letters Patent or other form of protection which may be granted for the Invention.

together with the sole and exclusive benefit thereof and all rights, privileges and advantages whateoever appertaining thereto (as far as the same would but for this assignment arise or accrue to the benefit of the Inventors) to hold the same unto JM for its sole use and benefit exclusively.

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JM hereby accepts this assignment.

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other form of protection for the invention and for further vesting or confirming the right and title thereof in JM without charge to JM but at its expense.

This assignment shall be deemed to have come into full force and effect on the date as inserted above.

IN WITNESS WHEREOF the inventors have executed this deed.

SIGNED AS A DEED by the sold

Paul Andersen	
J'illian Ballie	
John Cesol	W
Hai-Ying Chan	
Joseph Fedeyko	~~~
Raj Rajaram	Bll Sem-
in the presence of:	Bu MILLINGTON
Signature of Witness: Address of Witness:	<u> </u>
Occupation of Witness:	
SIGNED AS A DEED o	·
	<u>kecurit</u>
:	Ian Carmichael Wishart, Patent Attorney
in the presence of:	FRANCES STRANGE
Signature of Witness: Address of Witness:	Historianis Histor
Commation of Willness	DATE SET BUT SOLD IN SECTION STORES

REF: AAUS 1823

THIS DEED OF ASSIGNMENT is made the

10th day of

July

2008

BETWEEN

PAUL JOSEPH ANDERSEN of 355 Brighton Road, Plymouth Meeting, Pennsylvania 19462, USA; JILLIAN ELAINE BAILIE of 12 Morecambe Avenue, Caversham, Reading RG4 7NL, United Kingdom; JOHN LEONELLO CASCI of 1 West Dyke Road, Redoar, Cleveland TS10 4QL, United Kingdom; HAI-YING CHEN of 320 Arden Road, Conshohocken, Pennsylvania 19428, USA; JOSEPH MICHEAL FEDEYKO of 109 Hampshire Court, West Chester, Pennsylvania 19380, USA and RAJ RAO RAJARAM of 34 Buckland Avenue, Slough SL3 7PH, United Kingdom, (hereinafter referred to as "inventor(s)") and

Johnson Matthey PLC of 40-42 Hatton Garden, London, EC1N 8EE, United Kingdom. (hereinafter referred to as "JM").

WHEREAS

- (a) The Inventors have made an Invention (hereinafter referred to as the "Invention"), which is described in the specification entitled "Transition Metal/Zeolite SCR Catelysts", relating to a method of converting nitrogen oxides in a gas, such as an exhaust gas of a vehicular leanburn internal combustion engine, to nitrogen by contacting the nitrogen oxides with a nitrogenous reducing agent in the presence of a transition metal-containing small pore and/or aluminophosphate zeolite catalyst, filed with PCT application No. PCT/GB2007/050216 (hereinafter referred to as the Application) made to the European Patent Office by JM on 26 April 2007.
- (b) The Inventor(s), by virtue of [his/her/their] Employment by JM, or by other Agreement have agreed to assign to JM their entire right, title and interest in and to the Invention and the Application.

NOW THIS ASSIGNMENT WITNESSETH AS FOLLOWS and it is hereby agreed as follows:

In consideration of their employment or other AGREEMENT, the inventor(s) hereby assign(s) unto JM their entire right, title and interest in and to

- (i) the invention
- (ii) the Application
- (iii) any and all Letters Patent or other form of protection which may be granted for the invention.

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This assignment shall be deemed to have come into full force and effect on the date as inserted above.

IN WITNESS WHEREOF the Inventors have executed this deed.

SIGNED AS A DEED by the said

Paul Andersen	CALADOCCUADO COMO CONTROL CONT	
Jillian Ballie	<u> </u>	
John Casci	John Jean	
Hal-Ying Chen		
Joseph Fedsyka		
Raj Rajaram		
in the presence of:	Bevealet Incape	
Signature of Witness: Address of Witness:) ====================================
Occupation of Witness:	The state of the s	iv
SIGNED AS A DEED or	a behalf of JM;	
	la court	
in the presence of:	Ian Carmicheel Wishart, Patent Attorney MEAnutes STRAW4F	
Signature of Witness: Address of Witness:	Historya.	
904	WHITEHURCH HALL	8

Occupation of Witness: ATZIVTS ADMINISTRATER

REF: AAUS 1823

THIS DEED OF ASSIGNMENT is made the 29 day of Oclober 2009

BETWEEN

RODNEY FOO KOK SHIN of Johnson Matthey Technology Centre, Biounts Court, Sonning Common, Reading RG4 9NH, United Kingdom; (hereinafter referred to as "inventor(a)") and

Johnson Matthey PLC of 40-42 Hatton Garden, London, EC1N 8EE, United Kingdom. (hereinafter referred to as "JM").

WHEREAS

- (a) The Inventors have made an invention (hereinafter referred to as the "Invention"), which is described in the specification entitled "Transition Metal/Zeolite SCR Catalysts", relating to a method of converting nitrogen oxides in a gas, such as an exhaust gas of a vehicular leanburn internal combustion engine, to nitrogen by contacting the nitrogen oxides with a nitrogenous reducing agent in the presence of a transition metal-containing small pore and/or atuminophosphate zeolite catalyst, filed with PCT application No. PCT/GB2008/001461 (hereinafter referred to as the Application) made to the European Patent Office by JM on 24th April 2008.
- (b) The inventor(s), by virtue of [his/her/their] Employment by JM, or by other Agreement have agreed to assign to JM their entire right, title and interest in and to the invention and the Application.

NOW THIS ASSIGNMENT WITNESSETH AS FOLLOWS and it is hereby agreed as follows:

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continued...

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This assignment shall be deemed to have come into full force and effect on the date as inserted above.

IN WITNESS WHEREOF the Inventors have executed this deed.

SIGNED AS A DEED by the said

Rodney Foo

in the presence of:

Signature of Witness: Address of Witness:

es.

Occupation of Witness: ACCONCIN

SIGNED AS A DEED on behalf of JM;

Sarah Dixon, Patent Attorney

in the presence of:

FRANCES STRANGE

Signature of Witness:

Address of Witness:

RECORDED: 10/19/2020

JOHNSON HATTHEY

TECHALDLADGY CS7/7723

BEADING RG4 98/H

Occupation of Witness: <u>PATENT AGMINISTRA</u>TOR