

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4012025

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|------------------------------|---|
| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the APPLICATION SERIAL NUMBER FOR WHICH THE ASSIGNMENT SHOULD BE RECORDED previously recorded on Reel 033398 Frame 0341. Assignor(s) hereby confirms the APPLICATION SERIAL NUMBER SHOULD HAVE BEEN 14/091,967 AND NOT 14/019,967. |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| PAUL JOSEPH ANDERSEN | 12/03/2012 |
| KEVIN DOURA | 12/03/2012 |

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: | 14091967 |

CORRESPONDENCE DATA

Fax Number:

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.

Email: johnsonmattheyip@matthey.com
Correspondent Name: JOHNSON MATTHEY INC.
Address Line 1: 435 DEVON PARK DRIVE
Address Line 2: SUITE 600
Address Line 4: WAYNE, PENNSYLVANIA 19087

| | |
|--------------------------------|----------------|
| ATTORNEY DOCKET NUMBER: | 70110US1 |
| NAME OF SUBMITTER: | WENDY RECZEK |
| SIGNATURE: | /Wendy Reczek/ |
| DATE SIGNED: | 08/18/2016 |

Total Attachments: 5

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3975841

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|---|---|
| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the APPLICATION SERIAL NUMBER FOR WHICH THE ASSIGNMENT SHOULD BE RECORDED previously recorded on Reel 033398 Frame 0341. Assignor(s) hereby confirms the APPLICATION SERIAL NUMBER SHOULD HAVE BEEN 14/091,967 AND NOT 14/019,967. |
| CONVEYING PARTY DATA | |
| | |
| Name | Execution Date |
| PAUL JOSEPH ANDERSEN | 12/03/2012 |
| KEVIN DOURA | 12/03/2012 |
| 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: | 14019976 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <i>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.</i> | |
| Email: | johnsonmattheyip@matthey.com |
| Correspondent Name: | JOHNSON MATTHEY INC. |
| Address Line 1: | 435 DEVON PARK DRIVE |
| Address Line 2: | SUITE 600 |
| Address Line 4: | WAYNE, PENNSYLVANIA 19087 |
| ATTORNEY DOCKET NUMBER: | WYN//70110US1 |
| NAME OF SUBMITTER: | WENDY RECZEK |
| SIGNATURE: | /Wendy Reczek/ |
| DATE SIGNED: | 07/25/2016 |
| Total Attachments: 2 | |
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ASSIGNMENT

This Assignment is made this 3rd day of December 2012.

BETWEEN

Paul Joseph ANDERSEN, a Citizen of the United States of America, of Johnson Matthey Inc., 900 Forge Avenue, Suite 100, Audubon, PA 19403; and

Kevin DOURA, a Citizen of the United States of America; of Johnson Matthey Inc., 900 Forge Avenue, Suite 100, Audubon, PA 19403;

(each an "Inventor" and together "the Inventors")

AND

JOHNSON MATTHEY PLC, a company incorporated in England and Wales with company number 33774, the registered office of which is at 5th Floor, 25 Farringdon Street, London EC4A 4AB, United Kingdom ("JM").

WHEREAS:

- (A) The Inventors have made an invention ("the Invention"), which is described in the patent specification entitled "AMMONIA OXIDATION CATALYST" filed at the United States Patent and Trademark Office as Provisional Patent Application Number 61/731,918 on November 30, 2012;
- (B) By virtue of the Inventors' employment within the JM Group, the Invention and the Application are the property of JM.

NOW IT IS HEREBY AGREED AS FOLLOWS

1. In consideration of their employment within the JM Group, the Inventors hereby assign to JM with full title guarantee:-

- (i) their legal title in and to the Invention;
- (ii) their legal title in and to the Application;
- (iii) the right to make further applications for Letters Patent or other form of protection for the Invention in any and all countries;
- (iv) the right to claim priority for such applications from the Application; and
- (v) the right to any and all Letters Patent or other forms of protection which may be granted in respect of the Invention.

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

2. The Inventors covenant and agree to sign all papers and drawings, take all rightful oaths 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 legal title thereof in JM without charge to JM but at its expense.
3. This Assignment is governed by and shall be interpreted according to the laws of England and Wales.

IN WITNESS of which this Assignment has been executed under hand the day and year first before written.

SIGNED by Paul Joseph ANDERSEN

Paul Joseph Andersen

in the presence of:

Rita Aiello

SIGNED by Kevin DOURA

Kevin Doura

in the presence of:

Rita Aiello

SIGNED for and on behalf of Johnson Matthey PLC

By: Sarah Dixon

Name: Sarah Dixon

in the presence of:

W.A. Oakley