

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

|                       |                |
|-----------------------|----------------|
| SUBMISSION TYPE:      | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

**CONVEYING PARTY DATA**

| Name                      | Execution Date |
|---------------------------|----------------|
| Catalytic Solutions, Inc. | 09/30/2009     |

**RECEIVING PARTY DATA**

|                   |                      |
|-------------------|----------------------|
| Name:             | Johnson Matthey Inc. |
| Street Address:   | 435 Devon Park Drive |
| Internal Address: | Suite 600            |
| City:             | Wayne                |
| State/Country:    | PENNSYLVANIA         |
| Postal Code:      | 19087                |

**PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 12150940 |

**CORRESPONDENCE DATA**

Fax Number: (610)407-0701  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
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|                         |                      |
|-------------------------|----------------------|
| ATTORNEY DOCKET NUMBER: | JMYT-467US           |
| NAME OF SUBMITTER:      | Christopher R. Lewis |

Total Attachments: 5  
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**PATENT  
 REEL: 023969 FRAME: 0922**

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**EXECUTION VERSION**

**ASSIGNMENT**

WHEREAS, CATALYTIC SOLUTIONS, INC. (hereinafter "ASSIGNOR"), a corporation organized and existing under the laws of the State of California, U.S.A. and having an office and place of business at 4567 Telephone Road, Suite 206, Ventura CA 93003, is the sole owner of the entire right, title and interest in and to the patent properties listed in Attachment A hereto and all inventions disclosed therein.


WHEREAS, JOHNSON MATTHEY INC. (hereafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Pennsylvania and having its office at 435 Devon Park Drive, Suite 600, Wayne, PA 19087, is desirous of acquiring the entire right, title and interest in said inventions, patents, patent applications and in any Letters Patent which may issue thereon;

NOW, THEREFORE, THIS IS TO WITNESS that for and in consideration of the sum of One Dollar (\$1.00) paid to ASSIGNOR by ASSIGNEE, receipt of which is hereby acknowledged, and for other good and valuable considerations, ASSIGNOR hereby does sell, assign, transfer and confirm, unto ASSIGNEE, its successors, assigns and legal representatives, all right, title and interest in and to said invention and any improvements thereon for all countries of the world, and in and to said inventions, patents, and patent applications, including any right, claim, cause of action or chose of action relating to past infringement and including the right to claim priority under any international conventions, including, but not limited to the Paris Convention and the Patent Cooperation Treaty, based on said patent applications, and any Patents that may issue thereon, and all right, title and interest in and to every patent application filed or to be filed on said inventions in any other country, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any and all Patents which may issue thereon, and any reissues and extensions of the same; and ASSIGNOR hereby authorizes and requests competent

authorities to grant and issue any and all Patents on said invention to ASSIGNEE as the assignee of the entire interest therein; and ASSIGNOR further agrees to execute upon request of ASSIGNEE such additional documents, if any, as are necessary and proper to secure patent protection on said invention throughout all countries of the world, and to otherwise give full effect to, and perfect the rights of ASSIGNEE under this Assignment.

IN WITNESS WHEREOF, this Assignment has been executed  
this 30<sup>th</sup> day of Sept, 2009.

CATALYTIC SOLUTIONS, INC.

By:   
Name: NIKHIL A. MEHTA  
Title: CFO

State of \_\_\_\_\_ :  
County of \_\_\_\_\_ : ss  
\_\_\_\_\_ :

On this \_\_\_\_\_ day of \_\_\_\_\_, 2009 appeared before me in person the above-named \_\_\_\_\_, and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed and for the uses and purposes therein set forth.

(SEAL)

Notary Public

My Commission Expires:

ACKNOWLEDGMENT

State of California  
County of Ventura

On 9/30/09 before me, Julie C. Hernandez Notary Public  
(insert name and title of the officer)

personally appeared Nikhil A. Menta  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in  
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the  
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing  
paragraph is true and correct.

WITNESS my hand and official seal.



Signature Julie C. Hernandez (Seal)

## Shareholder's Assets

### Transferred to Buyer:

#### 1. TITLE: METHOD OF REDUCING NITROGEN OXIDES IN A GAS STREAM WITH VAPORIZED AMMONIA

| Reference #  | Application Number | Filing date | Publication Number | Patent Number | Status   |
|--------------|--------------------|-------------|--------------------|---------------|--|
| 08-40085-US* | 12/150,940         | 4/30/2008   |                    |               | Pending.<br>Projected Publication Date 10/30/2009. |

\*This application has not been published and is confidential.

#### 2. TITLE: WASTE HEAT BOILER (HRSG TYPE)

| Reference #    | Application Number | Filing date | Publication Number | Patent Number | Status  |
|----------------|--------------------|-------------|--------------------|---------------|---------|
| 08-40104-USPR* | 61/127,708         | 5/15/2008   |                    |               | Expired |

\* This application has not been published and is confidential.

#### 3. TITLE: EMISSION REDUCTION SYSTEM FOR USE WITH A HEAT RECOVERY STEAM GENERATION SYSTEM

| Reference #   | Application Number | Filing date | Publication Number | Patent Number | Status   |
|---------------|--------------------|-------------|--------------------|---------------|--|
| 08-40104-USP* | 12/214,541         | 6/19/2008   |                    |               | Pending.<br>Projected Publication Date 11/19/2009. |

\* This application has not been published and is confidential.

### PCT and Foreign Counterparts

| Reference #  | Country | Application Number | Filing Date | Publication Number | Patent Number | Status  |
|--------------|---------|--------------------|-------------|--------------------|---------------|---------|
| 08-40104-WOP | PCT     | PCT/US09/02951     | 5/13/2009   |                    |               | Pending |

#### 4. TITLE: A REACTOR SYSTEM FOR REDUCING NO<sub>x</sub> EMISSIONS FROM BOILERS

| Reference #   | Country | Application Number | Filing Date | Publication Number | Patent Number | Status   |
|---------------|---------|--------------------|-------------|--------------------|---------------|----------|
| 07-40010-WOP1 | PCT     | PCT/US09/02678     | 4/30/2009   |                    |               | Pending. |

#### 5. TITLE: EMISSION CONTROL SYSTEM INTERNAL TO A BOILER

| Reference #   | Country | Application Number | Filing Date | Publication Number | Patent Number | Status   |
|---------------|---------|--------------------|-------------|--------------------|---------------|----------|
| 07-40010-WOP2 | PCT     | PCT/US09/02679     | 4/30/2009   |                    |               | Pending. |

Retained by Shareholder; licensed to Buyer:

**6. TITLE: A REACTOR SYSTEM FOR REDUCING NO<sub>x</sub> EMISSIONS FROM BOILERS**

| Reference #   | Country | Application Number | Filing Date | Publication Number | Patent Number | Status                             |
|---------------|---------|--------------------|-------------|--------------------|---------------|------------------------------------|
| 07-40010-USP1 | USA     | 12/150,943         | 4/30/2008   |                    |               | Pending.<br>Published<br>11/13/08. |

**7. TITLE: EMISSION CONTROL SYSTEM INTERNAL TO A BOILER**

| Reference #   | Country | Application Number | Filing Date | Publication Number | Patent Number | Status                             |
|---------------|---------|--------------------|-------------|--------------------|---------------|------------------------------------|
| 07-40010-USP2 | USA     | 12/150,939         | 4/30/2008   |                    |               | Pending.<br>Published<br>12/25/08. |