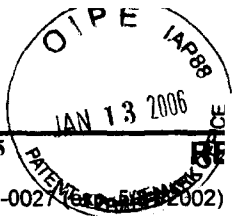


Form PTO-1595
(Rev. 03/01)
OMB No. 0651-0027 (Rev. 5-9-2002)



01-23-2006

Docket No. 81829.0046

EET U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office



Tab settings ⇨ ⇨ ⇨ ▼

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To the Honorable Commissioner of Patents and Trademarks: Please Record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- (1) Keshavaraja Alive
- (2) Anne-Laure Baudoux
- (3) Stephen J. Golden
- (4) Svetlana Iretskaya

Additional name of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Catalytic Solutions, Inc.

Street Address: 1640 Fiske Place

City: Oxnard State: CA Zip: 93033

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other _____

Execution Date: January 4, 2006, January 5, 2006, and January 10, 2006

Additional Name(s) & addresses attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution data of the application is: _____

A. Patent Application Serial No. 11/251,372

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning this document should be mailed:

Name: Wei-Ning Yang

Internal Address: Hogan & Hartson L.L.P.

Street Address: Biltmore Tower

500 South Grand Avenue, Suite 1900

City: Los Angeles State: CA Zip: 90071

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)\$ 40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

50-1314

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Wei-Ning Yang

Name of Person Signing

[Signature]
Signature

January 10, 2006

Date

Total number of pages including cover sheet, attachments, and documents: 4

01/23/2006 DRYNE 00000081 501314 11251372

01 PD:8081 40.00 DA
WCC - 81829/0046 - 54572 v1

PATENT
REEL: 017484 FRAME: 0696

Attorney Docket No. 61829.0046

ASSIGNMENT

- (1-8) Insert Name(s) of Inventor(s)
- | | |
|------------------------|-----|
| (1) Keshavaraja Alve | (5) |
| (2) Anne-Laure Baudoux | (6) |
| (3) Stephen J. Golden | (7) |
| (4) Svetlana Iretskaya | (8) |
- In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to
- (9) Insert name of Assignee (9) Catalytic Solutions, Inc.
- (10) Insert state of Incorporation of Assignee (10) California
- (11) Insert address of Assignee (11) of 1640 Fiske Place, Oxnard, CA 93033
(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as
- (12) Insert identification of invention, such as Title, Case Number or Foreign Application Number (12) PLATINUM GROUP METAL-FREE CATALYSTS FOR REDUCING THE IGNITION TEMPERATURE OF PARTICULATES ON A DIESEL PARTICULATE FILTER, filed on October 14, 2005, and assigned Serial No. 11/251,372 for which the undersigned has executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.
- (13) Insert Date of Signing of Application (13) on 01/10/2006

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

6) The undersigned hereby appoints the persons associated with (Customer Number:

000020021

the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: _____ Signature of Inventor _____

(2) Date: 01/10/2006 Signature of Inventor Baudoux

Date: _____ Signature of Inventor _____

Date: _____ Signature of Inventor _____

WCC - 61829/0046 - 53718 v1

Attorney Docket No. 81829.0046

ASSIGNMENT

(1-8) *Insert Name(s) of Inventor(s)*

(1) Keshayaraja Alive	(5)
(2) Anne-Laure Baudoux	(6)
(3) Stephen J. Golden	(7)
(4) Svetlana Iretskaya	(8)

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(9) *Insert name of Assignee* (9) Catalytic Solutions, Inc.

(10) *Insert state of Incorporation of Assignee* (10) California

(11) *Insert address of Assignee* (11) of 1640 Fiske Place, Oxnard, CA 93033
(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as

(12) *Insert identification of Invention, such as Title, Case Number or Foreign Application Number* (12) PLATINUM GROUP METAL-FREE CATALYSTS FOR REDUCING THE IONIZATION TEMPERATURE OF PARTICULATES ON A DIESEL PARTICULATE FILTER, filed on October 14, 2005, and assigned Serial No. 11/251,372 for which the undersigned has executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

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6) The undersigned hereby appoints the persons associated with Customer Number:

000026021

the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: Jan 4, 2006 Signature of Inventor: S. Iretskaya

Date: Jan 5, 06 Signature of Inventor: S-J-Gold

Date: _____ Signature of Inventor: _____

Date: _____ Signature of Inventor: _____

Attorney Docket No. 81829.0048

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s)

(1) Keshavareja Adiva (5)
 (2) Anno-Laure Baudoux (6)
 (3) Stephen J. Golden (7)
 (4) Svetlana Iretskaya (8)

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(9) Catalytic Solutions, Inc.

(10) Insert state of Incorporation of Assignee

(10) California

(11) Insert address of Assignee

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the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 01-05-2006

Signature of Inventor

Date: _____

Signature of Inventor _____

Date: _____

Signature of Inventor _____

Date: _____

Signature of Inventor _____