

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Marco Lopez</td> <td>09/25/2009</td> </tr> <tr> <td>Michael Lennartz</td> <td>10/02/2009</td> </tr> <tr> <td>Dan V. Goia</td> <td>09/23/2009</td> </tr> <tr> <td>Carsten Becker</td> <td>09/25/2009</td> </tr> <tr> <td>Stephanie Chevalliot</td> <td>04/12/2009</td> </tr> </tbody> </table>		Name	Execution Date	Marco Lopez	09/25/2009	Michael Lennartz	10/02/2009	Dan V. Goia	09/23/2009	Carsten Becker	09/25/2009	Stephanie Chevalliot	04/12/2009
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Umicore AG & Co. KG</td> </tr> <tr> <td>Street Address:</td> <td>Rodenbacher Chaussee 4</td> </tr> <tr> <td>City:</td> <td>Hanau-Wolfgang</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>D-63403</td> </tr> </table>		Name:	Umicore AG & Co. KG	Street Address:	Rodenbacher Chaussee 4	City:	Hanau-Wolfgang	State/Country:	GERMANY	Postal Code:	D-63403		
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CORRESPONDENCE DATA													
<p>Fax Number: (212)813-9600</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 212-813-1600</p> <p>Email: slewis@creativity-law.com</p> <p>Correspondent Name: KALOW & SPRINGUT LLP</p> <p>Address Line 1: 488 MADISON AVENUE</p> <p>Address Line 2: 19TH FLOOR</p> <p>Address Line 4: NEW YORK, NEW YORK 10022</p>													
ATTORNEY DOCKET NUMBER:	UMICORE 0170-US2												
NAME OF SUBMITTER:	John J. Santalone												

OP \$40.00 12438984

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PATENT
REEL: 023697 FRAME: 0884

Total Attachments: 4

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ASSIGNMENT

In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt and sufficiency of which is hereby acknowledged, I (we), the undersigned, Marco Lopez, residing at Lupinenweg 18, D-60433 Frankfurt, Germany; Michael Lennartz, residing at Hedderichstraße 38, D-60594 Frankfurt, Germany; Dan V. Goia, residing at 16 Drumlin Dr., Potsdam, NY, 13676, United States; Carsten Becker, residing at Hauptstraße 9, Niedernberg, D-63843, Germany; and Stephanie Chevalliot, residing at 5 Grande Rue, F-55320 Ancemont, France

Hereby sell, assign and transfer to Umicore AG & Co. KG, having a place of business at Rodenbacher Chaussee 4, D-63403 Hanau-Wolfgang, Germany, its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions that are disclosed and claimed, and any and all inventions that are disclosed but not claimed, in the application for United States Patent that is entitled:

**Core/Shell – Type Catalyst Particles Comprising Metal or Ceramic
Core Materials and Methods For Their Preparation**

US Application Serial No. 12/438,984 on February 26, 2009

[the undersigned hereby authorizes its attorneys to amend this document to insert the filing date and application serial number when they become known]

and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries that have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents that have been or shall be issued on said inventions;

Authorize and request the Director of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions disclosed in said application;

Agree that said Assignee may apply for and receive foreign Letters Patents or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent

application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successor, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible that said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

ASSIGNOR

Marco Lopez

Date: 25.09.09

By: 
Signature

Witness

Signature: 

Print Name: Patrick Stichel

Date: 25.09.09

Witness

Signature: 

Print Name: Sascha Tölle

Date: 25.09.2009

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Michael Lennartz

Date: 07.10.2009

By: 
Signature

Witness

Witness

Signature: 

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Date: 07.10.2009

Date: 2.10.2009

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Dan V. Goia

Date: 23.09.09

By: 
Signature

Witness

Witness

Signature: 

Signature: H.A. Starz

Print Name: KAI-VIBE CLAUSWITZ

Print Name: H.A. STARZ

Date: 23.09.2009

Date: 23.09.09

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GERMANY

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Umicore 0170-US2
Serial No:12/438,984
Filed February 26, 2009

Carsten Becker

Date: 25.07.09

By: 
Signature

Witness

Signature: 

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Date: 25.09.2009

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Stephanie Chevalliot

Date: 12/09/09

By: 
Signature

Witness

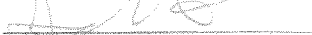
Signature: 

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Witness

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Print Name: Jason Haikenfeld

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