

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Bernd KEMPF</td> <td>01/30/2012</td> </tr> <tr> <td>Gunther WIEHL</td> <td>02/02/2012</td> </tr> <tr> <td>Werner ROTH</td> <td>01/31/2012</td> </tr> <tr> <td>Andreas KOCH</td> <td>01/31/2012</td> </tr> <tr> <td>Peter BRAUMANN</td> <td>02/07/2012</td> </tr> <tr> <td>Ralf NIEDERREUTHER</td> <td>02/01/2012</td> </tr> </tbody> </table>		Name	Execution Date	Bernd KEMPF	01/30/2012	Gunther WIEHL	02/02/2012	Werner ROTH	01/31/2012	Andreas KOCH	01/31/2012	Peter BRAUMANN	02/07/2012	Ralf NIEDERREUTHER	02/01/2012
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Ralf NIEDERREUTHER	02/01/2012														
RECEIVING PARTY DATA															
Name:	UMICORE														
Street Address:	Rue du Marais 31														
City:	Brussels														
State/Country:	BELGIUM														
Postal Code:	B-1000														
PROPERTY NUMBERS Total: 1															
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13339723</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13339723										
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Application Number:	13339723														
CORRESPONDENCE DATA															
Fax Number:	(919)998-5701														
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>															
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Address Line 4:	RTP, NORTH CAROLINA 27709														
ATTORNEY DOCKET NUMBER:	14231-10														

CH \$40.00 13339723

NAME OF SUBMITTER:

Allyn B. Rhodes, Reg. No. 56,745

Total Attachments: 3

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ASSIGNMENT

WHEREAS, I/we, Bernd KEMPF, Gunther WIEHL, Werner ROTH, Andreas KOCH, Peter BRAUMANN, and Ralf NIEDERREUTHER, residing at Riemenschneiderstrasse 38, 63839 Kleinwallstadt, Germany; Herderstrasse 41, 07743 Jena, Germany; Hanauer Landstrasse 19, 63594 Hasselroth, Germany; Spessartstrasse 71, 63457 Hanau, Germany; Rannenbergring 18, 63577 Alzenau, Germany; and Geleitstrasse 11, 63179 Obertshausen, Germany, respectively, have made certain new and useful inventions and improvements in:

Oxidation Method

set forth in:

- (1) United States provisional patent application
 - (a) bearing Application No. _____, filed on _____; or
 - (b) to be filed herewith;
- (2) United States nonprovisional patent application
 - (a) filed herewith; or
 - (b) bearing Application No. 13/339,723, filed on December 29, 2011, and
- (3) International Patent Application No. _____, designating the United States and filed on _____;

AND WHEREAS, UMICORE, a corporation, having an office and place of business at Rue du Marais 31, B-1000, Brussels, Belgium (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, I/we have sold, assigned, set over, and transferred, and by these presents do sell, assign, set over and transfer unto said Assignee, its successors or assigns, the entire right, title and interest in and to said inventions and improvements, the right to file applications for all countries in and to all inventions and improvements disclosed in the aforesaid application, the entire right, title and interest in and to the said application, any and all other applications for Letters Patent on said inventions and improvements, including all provisional, nonprovisional, divisional, continuation, continuation-in-part, and renewal applications based in whole, or in part, upon said inventions or

improvements, or upon said applications, and all Letters Patent which may be granted therefrom, and all reissues, reexaminations, or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom, including the unrestricted right to claim priority of the U.S. application identified above in item (1); and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

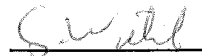
AND, furthermore, I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

AND, I hereby authorize and request the attorneys of Brinks, Hofer, Gilson & Lione to insert in the spaces provided above the filing date, application number, and attorney's docket number of said application when known.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 30 day of January,
2012


Bernd KEMPF

IN TESTIMONY WHEREOF, I have hereunto set my hand this 2 day of 2012 February,



Gunther WIEHL

IN TESTIMONY WHEREOF, I have hereunto set my hand this 31 day of 2012 January



Werner ROTH

IN TESTIMONY WHEREOF, I have hereunto set my hand this 31 day of 2012 January



Andreas KOCH

IN TESTIMONY WHEREOF, I have hereunto set my hand this 07 day of 2012 February



Peter BRAUMANN

IN TESTIMONY WHEREOF, I have hereunto set my hand this 01 day of 2012 February



Ralf NIEDERREUTHER

BHGL-35477-10