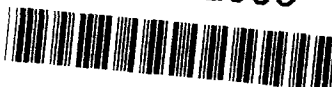


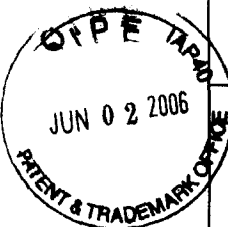
06-07-2006

S. DEPARTMENT OF COMMERCE
States Patent and Trademark Office

REC



103252281



To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Yi Deng (05/04/2006), Monika Oswald (04/06/2006),
Klaus Deller (04/06/2006), Rolf Clasen (04/06/2006),
Georg Fehring (05/11/2006)

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

2. Name and address of receiving party(ies)

Name: Degussa AG

Internal Address: _____

Street Address: _____

Bennigsenplatz 1

City: Düsseldorf

State: _____

Country: Germany Zip: D-40474

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

☒ Assignment ☐ Merger ☐ Change of Name

☐ Security Agreement ☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other _____

4. Application or patent number(s):

A. Patent Application No.(s)

11/371,156

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Thomas G. Wiseman
VENABLE LLP

Internal Address: Atty. Dkt.: 39509-228988

Street Address: P.O. Box 34385

City: Washington

State: DC Zip: 20043-9998

Phone Number: (202) 344-4000

Fax Number: (202) 344-8300

Email Address: _____

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

☐ Authorized to be charged by credit card

☒ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number 22-0261

Authorized User Name Thomas G. Wiseman

9. Signature:

Signature

June 2, 2006

Date

Thomas G. Wiseman - 35,046

Name of Person Signing

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

6

06/06/2006 DBYRNE 00000158 220261 11371156

01 FC:8021

(40.00 DA)

WORLDWIDE ASSIGNMENT

Attorney Docket No.: 39509-228988

WHEREAS, Yi Deng of Hanau Germany; Monika Oswald of Hanau, Germany; Klaus Deller of Hainburg, Germany; Rolf Clasen of St. Ingbert, Germany; and Georg Fehring of Haiger, Germany, hereinafter (collectively) referred to as the assignor, has invented a certain improvement relating to PLASMA-SPRAYED LAYERS OF ALUMINUM OXIDE, which said assignor has caused an application for United States Letters Patent to be prepared,

[] the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office.

[X] said application having been filed in the United States Patent and Trademark Office on Serial Number 11/371,156;

WHEREAS DEGUSSE AG at Bennigsenplatz 1, 40474 Düsseldorf, Germany hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by, Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire and exclusive right, title, and interest for the United States in and to the invention, the application, and any patents which may be granted therefor, including any and all divisions, continuations, in whole or in part, substitutions, renewals, reissues, reexaminations, and extensions thereof, and all applications claiming priority therefrom; and Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the invention, or patents resulting therefrom, insofar as their interest is concerned, to Assignee; to have, hold, exercise, and enjoy, with all the rights, powers, privileges, and advantages in anywise arising therefrom or appertaining thereto, for and during the term or terms of any and all such patents when granted, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as Assignor might or could have held and enjoyed the same, if this assignment had not been made.

Assignor further hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire right, title and interest in all countries of the world, in and to the invention and in and to the application and all patents which may be granted therefor, and all national applications, regional applications, divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, including the right to file applications and obtain patents for the invention in its own name, in all countries and including all rights of priority in all countries under the terms of any applicable international convention, insofar as its interest is concerned; and the Assignor hereby authorizes and requests the applicable patent office in each country of the world to issue all patents for the invention, or patents resulting therefrom, insofar as its interest is concerned, to the Assignee, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of such patents for the invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

The Assignor further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agrees, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce proper patent protection for said invention.

IN WITNESS WHEREOF, each individual collectively referred to as Assignor has caused this Assignment to be executed.

EXECUTED this 04 day of May, 2006.

ASSIGNOR:

Signature: [Signature]
Name: YI DENG

WITNESS:

Signature: [Signature]
Name: Conrad Kissner
Address: SPESARTSH. 61
63457 HANAU
GERMANY

PATENT

REEL: 017959 FRAME: 0692

Docket No. 39509-228988

EXECUTED this 6 day of April, 2006.

ASSIGNOR:

Signature: [Signature]
Name: Monika OSWALD

WITNESS:

Signature: C. Kissner
Name: Conna Kissner
Address: Spessartstr. 61
63457 Hanau

EXECUTED this _____ day of _____, 2006.

ASSIGNOR:

Signature: _____
Name: Klaus DELIER

WITNESS:

Signature: _____
Name: _____
Address: _____

EXECUTED this _____ day of _____, 2006.

ASSIGNOR:

Signature: _____
Name: Rolf CLASEN

WITNESS:

Signature: _____
Name: _____
Address: _____

EXECUTED this _____ day of _____, 2006.

ASSIGNOR:

Signature: _____
Name: Georg FEHRINGER

WITNESS:

Signature: _____
Name: _____
Address: _____

#736890

PATENT

REEL: 017959 FRAME: 0693

Docket No. 39509-228988

EXECUTED this _____ day of _____, 2006.

ASSIGNOR:

Signature: _____
Name: Monika OSWALD

WITNESS:

Signature: _____
Name: _____
Address: _____EXECUTED this 6th day of April, 2006.

ASSIGNOR:

Signature: [Signature]
Name: Klaus DELIER

WITNESS:

Signature: [Signature]
Name: Ursula Demuth
Address: Rodenbacher Chaussee 4
63457 Hanau-Wolfgang

EXECUTED this _____ day of _____, 2006.

ASSIGNOR:

Signature: _____
Name: Rolf CLASEN

WITNESS:

Signature: _____
Name: _____
Address: _____

EXECUTED this _____ day of _____, 2006.

ASSIGNOR:

Signature: _____
Name: Georg FEHRINGER

WITNESS:

Signature: _____
Name: _____
Address: _____

#736890

Docket No. 39509-228988

EXECUTED this _____ day of _____, 2006.

ASSIGNOR:

Signature: _____
Name: Monika OSWALD

WITNESS:

Signature: _____
Name: _____
Address: _____

EXECUTED this _____ day of _____, 2006.

ASSIGNOR:

Signature: _____
Name: Klaus DELFER

WITNESS:

Signature: _____
Name: _____
Address: _____EXECUTED this 6 day of April, 2006.

ASSIGNOR:

Signature: Rolf Clasen
Name: Rolf CLASEN

WITNESS:

Signature: Sigrid Neusius
Name: Sigrid Neusius
Address: Am Hagen 11
D66119 Saarbrücken

EXECUTED this _____ day of _____, 2006.

ASSIGNOR:

Signature: _____
Name: Georg FEHRINGER

WITNESS:

Signature: _____
Name: _____
Address: _____

#736890

Docket No. 39509-228988

EXECUTED this _____ day of _____, 2006.

ASSIGNOR:

WITNESS:

Signature: _____

Signature: _____

Name: Monika OSWALD

Name: _____

Address: _____

EXECUTED this _____ day of _____, 2006.

ASSIGNOR:

WITNESS:

Signature: _____

Signature: _____

Name: Klaus DELLER

Name: _____

Address: _____

EXECUTED this _____ day of _____, 2006.

ASSIGNOR:

WITNESS:

Signature: _____

Signature: _____

Name: Rolf CLASEN

Name: _____

Address: _____

EXECUTED this 11 day of May, 2006.

ASSIGNOR:

WITNESS:

Signature: [Signature]

Signature: [Signature]

Name: Georg FEHRINGER

Name: MARIA FEHRINGER

Address: Hauptstr. 19, 35703 Haiger

GERMANY

#736890

EXECUTED

PATENT

RECORDED: 06/02/2006

REEL: 017959 FRAME: 0696