

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Hans-Joachim Krautschick</td> <td>08/10/2012</td> </tr> <tr> <td>Joachim Hulstrung</td> <td>09/10/2012</td> </tr> </tbody> </table>		Name	Execution Date	Hans-Joachim Krautschick	08/10/2012	Joachim Hulstrung	09/10/2012				
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<table border="1"> <tr> <td>Name:</td> <td>ThyssenKrupp Steel Europe AG</td> </tr> <tr> <td>Street Address:</td> <td>Kaiser-Wilhelm-Strasse 100</td> </tr> <tr> <td>City:</td> <td>Duisburg</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>47166</td> </tr> </table>		Name:	ThyssenKrupp Steel Europe AG	Street Address:	Kaiser-Wilhelm-Strasse 100	City:	Duisburg	State/Country:	GERMANY	Postal Code:	47166
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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>13578120</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13578120						
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CORRESPONDENCE DATA											
Fax Number:	4129455933										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	412-471-8815										
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OP \$40.00 13578120

ATTORNEY DOCKET NUMBER:	3988-122380
NAME OF SUBMITTER:	Richard L. Byrne
Total Attachments: 4 source=RECCOVER#page1.tif source=RECCOVER#page2.tif source=ASSIGN#page1.tif source=ASSIGN#page2.tif	

RECORDATION FORM COVER SHEET  
**PATENTS ONLY**

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)**

Hans-Joachim KRAUTSCHICK  
Joachim HULSTRUNG

**2. Name and address of receiving party(ies)**

Name: ThyssenKrupp Steel Europe AG

Internal Address: \_\_\_\_\_

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

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

Execution Date(s) August 10, 2012 & September 10, 2012

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

Street Address: Kaiser-Wilhelm-Straße 100, Duisburg

City: \_\_\_\_\_

State: \_\_\_\_\_

Country: GERMANY Zip: 47166

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

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

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

A. Patent Application No.(s)  
13/578,120

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Russell D. Orkin

Internal Address: The Webb Law Firm

Street Address: One Gateway Center  
420 Ft. Duquesne Blvd., Ste 1200

City: Pittsburgh

State: PA Zip: 15222

Phone Number: 412-471-8815

Fax Number: 412-945-5933

Email Address: assignments@webblaw.com

**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)

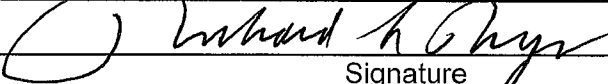
**8. Payment Information**

a. Credit Card Last 4 Numbers 4775  
Expiration Date 05/2015

b. Deposit Account Number 23-0650

Authorized User Name \_\_\_\_\_

**9. Signature:**

  
Signature

October 18, 2012

Date

Richard L. Byrne, Registration No. 28,498

Name of Person Signing

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

4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

Page 2

U.S. Patent Application No. 13/578,120, filed February 2, 2011

U.S. Patent No. \_\_\_\_\_, issued \_\_\_\_\_

**Additional Information (continued from Page 1)**

**Name of conveying party(ies)**

Execution Date(s): \_\_\_\_\_  
\_\_\_\_\_

**Name and address of receiving party(ies)**

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\_\_\_\_\_

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Krefeld

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State: \_\_\_\_\_

Country: \_\_\_\_\_ Zip: \_\_\_\_\_

INTERNATIONAL  
Application No. \_\_\_\_\_

Attorney Docket No. 3988-122380

ASSIGNMENT

WHEREAS, as a below named inventor, I have invented certain new and useful improvements in

PRODUCT FOR FLUIDIC APPLICATIONS, METHOD FOR ITS PRODUCTION AND  
USE OF SUCH A PRODUCT

(Invention Title)

☐ for which I have this day executed an application for a United States Patent (hereinafter "said application").

AND/OR

☐ for which an application for a United States Patent was filed on \_\_\_\_\_ (mm/dd/yyyy) and bears Application Number \_\_\_\_\_ (hereinafter "said application").

AND/OR

☒ for which an international patent application was filed under the Patent Cooperation Treaty on 02/02/2011 (mm/dd/yyyy), bearing Application No. PCT/EP2011/051488 (hereinafter "said application").

AND, WHEREAS, ThyssenKrupp Steel Europe AG and ThyssenKrupp Nirosta GmbH corporations of GERMANY, having places of business at Kaiser-Wilhelm-Straße 100, 47166 Duisburg, GERMANY and Oberschlesienstraße 16, 47807 Krefeld, GERMANY, respectively, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged, I as the inventor or as one of the inventors, hereinafter the assignor(s), do hereby assign, sell and transfer unto said assignee the full and exclusive right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals and/or extensions thereof. Such assignment extends to the full ends of the terms of these applications and patents as fully and entirely as the same would have been held and enjoyed by me had this Assignment not been made.

I hereby authorize and request any attorney associated with The Webb Law Firm, Customer No. 28289, to insert here in parentheses (Application No 13/578,120 filed 02/02/2011 ) the filing date and application number of said application when known.

I covenant that I am the lawful owner(s) of said application, inventions and improvements, that the same are unencumbered, that no license has been granted to make, use or vend the said inventions or improvements or any of them, and that I have the full right to make this Assignment.

INTERNATIONAL  
Application No. \_\_\_\_\_

Attorney Docket No. 3988-122380

And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said assignee or by counsel for said assignee to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This Assignment shall be binding upon my heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors and/or assigns, as the case may be, of said assignee.


1. FULL NAME OF ASSIGNOR:  
Hans-Joachim KRAUTSCHICK

RESIDENCE:  
Solingen, GERMANY

EXECUTED this 10 day of August, 2012

  
SIGNATURE

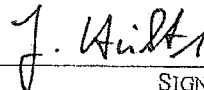
WITNESS:

10.08.2012 

2. FULL NAME OF ASSIGNOR:  
Joachim HULSTRUNG


RESIDENCE:  
Dusseldorf, GERMANY

EXECUTED this 10 day of September, 2012



SIGNATURE

WITNESS:

10.09.2012 

☐ Checked Box indicates \_\_\_ additional page(s) for inventor signatures.