503539938 10/26/2015

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| NICOLE DE BOER | 10/20/2015 |
| STEFAN GILGES | 10/20/2015 |
| HEIKE HATTENDORF | 10/20/2015 |
| ANDREAS HECKMANN | 10/20/2015 |

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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14787159 |

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| ATTORNEY DOCKET NUMBER: | DE BOER ET AL - 2 PCT |
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| NAME OF SUBMITTER: | FREDERICK J. DORCHAK |
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| DATE SIGNED: | 10/26/2015 |

Total Attachments: 1

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PATENT 503539938 REEL: 036882 FRAME: 0462

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

name and address of assignee

check one

VDM Metals GmbH

Plettenberger Strasse 2 58791 Werdohl, Germany

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to

METHOD FOR PRODUCING A METAL FILM

| as set | forth in his United States Patent Application |
|--------|---|
| [] | executed concurrently herewith |
| [] | executed on |
| [X] | PCT No. PCT/DE2014/000282 filed June 6, 2014 |
| in and | through Thalton Ornton Doront Anatherston by 1. 18 18 |

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the unsigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees that at any time upon request of said ASSIGNEB, its successors, legal representatives or assigns he will communicate to said ASSIGNEB, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEB, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions or continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEB, its successors, or assigns or to assist said ASSIGNEB, its successors, legal representatives or assigns in obtaining, resissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of COLLARD & ROE, P.C., 1077 Northern Boulevard, Roslyn, New York 11576, U.S.A., the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

names and signatures of inventors

Name: Nicole DE BOER

Name: Heike HATTENDORF

Date: 00.10.2015

Name: Stefan GILGES

Name Andreas HECKMANN Date: 26/10, 20/5

> PATENT REEL: 036882 FRAME: 0463

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