

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JAN FRIEDEMANN PLAUL | 03/22/2019 |
| NORBERT REIN | 03/22/2019 |
| KARL ZEHETBAUER | 03/22/2019 |
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| Postal Code: | 790-300 |
| Name: | PRIMETALS TECHNOLOGIES AUSTRIA GMBH |
| Street Address: | TURMSTRASSE 44 |
| City: | LINZ |
| State/Country: | AUSTRIA |
| Postal Code: | 4031 |
| PROPERTY NUMBERS Total: 2 | |
| Property Type | Number |
| Patent Number: | 9783862 |
| Application Number: | 15700212 |
| CORRESPONDENCE DATA | |
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| ATTORNEY DOCKET NUMBER: | 5764-120496; 5764-1707712 |

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|--|-------------------|
| NAME OF SUBMITTER: | KENT E. BALDAUF |
| SIGNATURE: | /Kent E. Baldauf/ |
| DATE SIGNED: | 08/02/2019 |
| Total Attachments: 3 source=Executed Assignment from Added Inventors to POSCO and Primetal#page1.tif source=Executed Assignment from Added Inventors to POSCO and Primetal#page2.tif source=Executed Assignment from Added Inventors to POSCO and Primetal#page3.tif | |

Application No. 13/496,683 and 15/700,212
Attorney Docket No. 5764-120496 and 5764-1707712

ASSIGNMENT

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

**APPARATUS FOR MANUFACTURING REDUCED IRON AND METHOD FOR
MANUFACTURING THE SAME**

(Invention Title)

for which an application for a United States Patent bearing application Number 13/496,683 was filed on March 16, 2012, now United States Patent No. 9,783,862, and for which a divisional application for a United States Patent bearing application Number 15/700,212 was filed on September 11, 2017.

AND, WHEREAS, POSCO, a corporation of the Republic of Korea, having a place of business at 6261, Donghaean-ro, Nam-gu, Pohang-si, Gyeongsangbuk-do 790-300, Republic of Korea, and Primetals Technologies Austria GmbH, a Gesellschaft mit beschränkter Haftung of Austria, having a place of business at Turmstrasse 44, 4031 Linz, Austria, hereinafter called the "assignees", are 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 assignees, 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 assignees the full and exclusive right, title and interest in and to said applications and the inventions and improvements therein disclosed for the United States and all foreign countries, including rights of priority under the International Convention of Paris (1883) as amended, 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 covenant that I am the lawful owner(s) of said applications, 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.

And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignees 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 assignees or by counsel for said assignees to assist or enable said assignees 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 assignees.

Application No. 13/496,683 and 15/700,212
Attorney Docket No. 5764-120496 and 5764-1707712

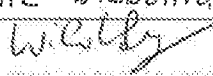
1. FULL NAME OF ASSIGNOR:
Jan Friedemann Plaul

RESIDENCE:
Linz, Austria

EXECUTED this 22 day of March, 2018⁹


SIGNATURE

WITNESS:

BRIGITTE WILDUNG


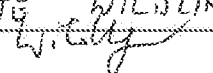
2. FULL NAME OF ASSIGNOR:
Norbert Rein

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EXECUTED this 22 day of March, 2018⁹


SIGNATURE

WITNESS:

BRIGITTE WILDUNG


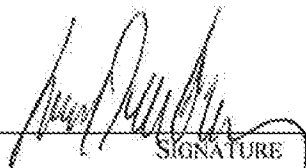
☒ Checked Box indicates 1 additional page(s) for inventor signatures.

Application No. 13/496,683 and 15/700,212
Attorney Docket No. 5764-120496 and 5764-1707712

3. FULL NAME OF ASSIGNOR:
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EXECUTED this 22 day of March, 2018⁹


SIGNATURE

WITNESS:

BRIGITE WILDING
