

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| PAUL TOCKERT | 05/22/2017 |
| BENOÎT JUNG | 05/22/2017 |
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| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15549822 |
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| DATE SIGNED: | 08/09/2017 |
| Total Attachments: 2 | |
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| source=7VL0900#page2.tif | |

ASSIGNMENT

WHEREAS WE, **Benoît JUNG** of 47, Chemin des Côteaux F-57100 Thionville FRANCE; and **Paul TOCKERT** of 1, Duerfstrooss L-6830 Berbourg LUXEMBOURG (hereinafter collectively referred to as “**ASSIGNORS**”); have invented certain new and useful improvements in:


**OPTICAL MONITORING SYSTEM FOR OBSERVING INTERNAL
CONDITIONS IN THE TUYERE ZONE OF A BLAST FURNACE**

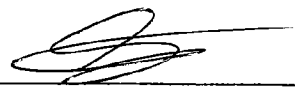
(hereinafter referred to as the “**INVENTION**”) which claims priority to Luxembourg Application No. 92 653, filed on 10 February 2015; was filed on 9 February 2016, as International Application No. PCT/EP2016/052663; and for which we are about to file an application for a United States Patent (hereinafter collectively referred to as the “**APPLICATIONS**”);

AND WHEREAS, **PAUL WURTH S.A.** (hereinafter referred to as “**ASSIGNEE**”), a corporation organized and existing under the laws of the Country of Luxembourg, having a place of business at **32, rue d'Alsace, L-1122 Luxembourg LUXEMBOURG**, is desirous of acquiring an interest in any and all countries, in and to the **INVENTION**, the **APPLICATION**, and any and all Patents to be obtained therefor;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, we, the **ASSIGNORS**, have assigned and transferred, and hereby assign and transfer unto **ASSIGNEE**, the entire right, title and interest in and to the **INVENTION**, the **APPLICATIONS**, and any and all Patents that may be issued therefrom, in any and all countries, including any and all revivals, refilings, continuations, continuations-in-part, divisions and reissues thereof, to **ASSIGNEE**; and we do hereby agree that we will execute all papers necessary in connection with any and all patent applications when called upon to do so by **ASSIGNEE**, its successors or assigns, and that we will, at the cost and expense of **ASSIGNEE**, fully assist and cooperate in all matters in connection with any and all patent applications and Patents issuing thereon.

The undersigned declare that all statements made herein of their own knowledge are true and ~~that all statements made on information and belief are believed to be true;~~ and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the APPLICATIONS or any Patents issuing thereon.

Date: 22.05.2017

L.S.
Benoît JUNGDate: 22.05.2017

L.S.
Paul TOCKERT