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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| VINCENT BOISDEQUIN | 09/07/2014 |
| MARIANO COLLURA | 09/07/2014 |
| RECEIVING PARTY DATA | |
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| City: | GHLIN |
| State/Country: | BELGIUM |
| Postal Code: | B-7011 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14067017 |
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| SIGNATURE: | /Thomas Clinton/ |
| DATE SIGNED: | 09/09/2014 |
| Total Attachments: 2 | |
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| source=1568InventorAssignment#page2.tif | |

ASSIGNMENT OF INVENTION

WHEREAS WE,

Vincent Boisdequin, of Naast, BELGIUM, a BELGIUM citizen residing at Rue Haute-Folie,60, Naast, B-7062, BELGIUM; and

Mariano Collura, of Bracquegnies, BELGIUM, an ITALIAN citizen of residing at Rue Harmegnies,63, Bracquegnies, B-7110, BELGIUM have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

CASTING PLATE AND CASTING PLATE CASING WITH DETECTOR-ENGAGING PROTRUSION

and was filed on October 30, 2013 US Patent Application No. 14/067,017.

AND WHEREAS, Vesuvius Group S.A., a company incorporated in Belgium and having an address at rue de Douvain 17, B-7011 GHLIN, BELGIUM, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries that may be obtained therefor;


NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto said assignee, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries that may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights

or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States that may be issued for said invention to said assignee, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

SEPTEMBER 7, 2014
Date



Vincent BOISDEQUIN

SEPTEMBER 7, 2014
Date



Mariano COLLURA