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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 |
| ERWAN GUEGUEN | 06/25/2018 |
| CHRISTOS G. ANEZIRIS | 06/21/2018 |
| CHRISTIANE BIERMANN | 06/21/2018 |
| ANTOINE DUCASTEL | 06/25/2018 |
| RECEIVING PARTY DATA | |
| Name: | REFRACTORY INTELLECTUAL PROPERTY GMBH & CO.KG |
| Street Address: | WIENERBERGSTRASSE 11 |
| City: | WIEN |
| State/Country: | AUSTRIA |
| Postal Code: | AT-1100 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16063044 |
| CORRESPONDENCE DATA | |
| Fax Number: | (912)344-4472 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
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| Email: | EMAIL@KFRPC.COM |
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| Address Line 1: | 311 EAST YORK STREET |
| Address Line 4: | SAVANNAH, GEORGIA 31401 |
| ATTORNEY DOCKET NUMBER: | 31314 |
| NAME OF SUBMITTER: | ANDREW WILFORD |
| SIGNATURE: | /Andrew Wilford/ |
| DATE SIGNED: | 07/09/2018 |
| Total Attachments: 4 | |
| source=31314AssignmentSigned#page1.tif | |
| source=31314AssignmentSigned#page2.tif | |
| source=31314AssignmentSigned#page3.tif | |

In Consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned,

Erwan GUEGUEN, 21 Rue de Piraumont 1494, Villers La Ville, Belgium;
Christos G. ANEZIRIS, Lessingstrasse 20c, Freiberg, Germany;
Christiane BIERMANN, Bertold-Brecht-Strasse 12, Freiberg, Germany; and
Antoine DUCASTEL, Alexanderstrasse 27, Essen, Germany

hereby sell, assign and transfer to


REFRACTORY Intellectual Property GmbH & Co. KG
a limited liability company of Austria having a place of business at
Wienerbergstrasse 11
1100 Wien
Austria

its successors, assigns, and legal representatives, our entire right title and interest for the United States and all foreign countries, in and to the improvements disclosed in United States patent application 16/063,044 filed 15 June 2018 as the US-national stage of PCT application PCT/DE2016/100348 filed 29 July 2016 and that is entitled

REFRACTORY MOLDED BODY, COMPOUNDS, BINDERS, AND METHOD FOR
and in and to the application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent that have been or shall be filed in the United States and all foreign countries on the improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on the improvements.

We agree that the Assignee may apply for and receive Letters Patent for the improvements in its own name; and that, when requested, without charge to but at the expense of the Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all rightful Oaths, Assignments, Powers of Attorney, and other papers; communicate to the Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to the improvements and the history thereof; and generally do everything possible that the Assignee, its successors, assigns, or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for the improvements and for vesting title to the improvements and all applications for patents and all patents on the improvements in the Assignee, its successors, assigns, and legal representatives; and

We covenant with the Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey same as herein expressed is possessed by the undersigned.

| | | |
|-------|-------------------|---|
| Date: | <u>25/06/2018</u> |  ERWAN GUEGUEN |
| Date: | _____ | Christos G. ANEZIRIS |
| Date: | _____ | Christiane BIERMANN |
| Date: | _____ | Antoine DUCASTEL |

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 Antoine DUCASTEL, Alexanderstrasse 27, Essen, Germany
 hereby sell, assign and transfer to


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 a limited liability company of Austria having a place of business at
 Wienerbergstrasse 11
 1100 Wien
 Austria

its successors, assigns, and legal representatives, our entire right title and interest for the United States and all foreign countries, in and to the improvements disclosed in United States patent application 16/063,944 filed 15 June 2018 as the US-national stage of PCT application PCT/DE2016/100348 filed 29 July 2016 and that is entitled

REFRACTORY MOLDED BODY, COMPOUNDS, BINDERS, AND METHOD FOR
 and in and to the application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent that have been or shall be filed in the United States and all foreign countries on the improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on the improvements.

We agree that the Assignee may apply for and receive Letters Patent for the improvements in its own name; and that, when requested, without charge to but at the expense of the Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all rightful Oaths, Assignments, Powers of Attorney, and other papers; communicate to the Assignee, its successors, assigns, and representatives, all facts known to the undersigned relating to the improvements and the history thereof; and generally do everything possible that the Assignee, its successors, assigns, or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for the improvements and for vesting title to the improvements and all applications for patents and all patents on the improvements in the Assignee, its successors, assigns, and legal representatives; and

We covenant with the Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey same as herein expressed is possessed by the undersigned.

| | |
|--------------------------------|--|
| <p>☞ Date: _____</p> | <p>Erwan GUEGUEN</p> |
| <p>☞ Date: <u>24.06.18</u></p> | <p> Christos G. ANEZIRIS</p> |
| <p>☞ Date: _____</p> | <p>Christiane BIERMANN</p> |
| <p>☞ Date: _____</p> | <p>Antoine DUCASTEL</p> |

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Antoine DUCASTEL, Alexanderstrasse 27, Essen, Germany

hereby sell, assign and transfer to

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a limited liability company of Austria having a place of business at
Wiesnerbergstrasse 11
1100 Wien
Austria

its successors, assign, and legal representatives, our entire right title and interest for the United States and all foreign countries, in and to the improvements disclosed in United States patent application 16/043,044 filed 15 June 2016 as the US-national stage of PCT application PCT/DE2016/109348 filed 29 July 2016 and that is entitled

REFRACTORY MOLDED BODY, COMPOUNDS, BINDERS, AND METHOD FOR

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We agree that the Assignee may apply for and receive Letters Patent for the improvements in its own name; and that, when requested, without charge to, but at the expense of the Assignee, its successors, assign, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the Assignee will execute all rightful Oaths, Assignments, Powers of Attorney, and other papers; communicate to the Assignee, its successors, assigns, and representatives, all facts known to the Assignee relating to the improvements and the history thereof; and generally do everything possible that the Assignee, its successors, assigns, or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for the improvements and for vesting title in the improvements and all applications for patents and all patents on the improvements in the Assignee, its successors, assigns, and legal representatives; and

We warrant to the Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made in favor of the undersigned, and that full right to convey same as herein expressed is possessed by the undersigned.

6 Date: _____

Erwan GUEGUEN

6 Date: _____

Christos G. ANEZIRIS

6 Date: 21.06.2018

Christiane BIERMANN

6 Date: _____

Antoine DUCASTEL

In Consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned,

Erwan GUEGUEN, 21 Rue de Piraumont 1494, Villers La Ville, Belgium;

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We covenant with the Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey same as herein expressed is possessed by the undersigned.

4 Date: _____
Erwan GUEGUEN

4 Date: _____
Christos G. ANEZIRIS

4 Date: _____
Christiane BIERMANN

4 Date: 25.06.2018 _____
Antoine DUCASTEL