

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4411149

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|---|-----------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT        |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT            |
| <b>CONVEYING PARTY DATA</b>   |                       |
| <b>Name</b>   | <b>Execution Date</b> |
| FRANCIS COSTA   | 03/22/2017            |
| MATTIAS BERGQVIST   | 03/08/2017            |
| STEFAN HELLSTROM  | 03/08/2017            |
| BERT BROEDERS   | 03/23/2017            |
| GIRISH SURESH GALGALI   | 03/24/2017            |
| BERNT-AKE SULTAN  | 03/16/2017            |
| TANJA PIEL  | 03/23/2017            |
| BART VERHEULE   | 03/23/2017            |
| JEROEN ODERKERK   | 03/13/2017            |
| <b>RECEIVING PARTY DATA</b>   |                       |
| <b>Name:</b>  | BOREALIS AG           |
| <b>Street Address:</b>  | IZD TOWER             |
| <b>Internal Address:</b>  | WAGRAMERSTRASSE 17-19 |
| <b>City:</b>  | VIENNA                |
| <b>State/Country:</b>   | AUSTRIA               |
| <b>Postal Code:</b>   | A-1220                |
| <b>PROPERTY NUMBERS Total: 1</b>  |                       |
| <b>Property Type</b>  | <b>Number</b>         |
| Application Number:   | 15508039              |
| <b>CORRESPONDENCE DATA</b>  |                       |
| <b>Fax Number:</b>  | (216)621-4072         |
| <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> |                       |
| <b>Phone:</b>   | 216-621-2234          |
| <b>Email:</b>   | jsherrill@tarolli.com |
| <b>Correspondent Name:</b>  | RICHARD A. SUTKUS     |
| <b>Address Line 1:</b>  | 1300 E. 9TH STREET    |
| <b>Address Line 2:</b>  | SUITE 1700            |
| <b>Address Line 4:</b>  | CLEVELAND, OHIO 44114 |
| <b>ATTORNEY DOCKET NUMBER:</b>  | MPG-026439US PCT      |

PATENT

|   |                     |
|---|---------------------|
| <b>NAME OF SUBMITTER:</b>   | RICHARD A. SUTKUS   |
| <b>SIGNATURE:</b>   | /Richard A. Sutkus/ |
| <b>DATE SIGNED:</b>   | 05/12/2017          |
| <b>Total Attachments: 8</b><br>source=MPG026439USPCT-ASSIGNMENT#page1.tif<br>source=MPG026439USPCT-ASSIGNMENT#page2.tif<br>source=MPG026439USPCT-ASSIGNMENT#page3.tif<br>source=MPG026439USPCT-ASSIGNMENT#page4.tif<br>source=MPG026439USPCT-ASSIGNMENT#page5.tif<br>source=MPG026439USPCT-ASSIGNMENT#page6.tif<br>source=MPG026439USPCT-ASSIGNMENT#page7.tif<br>source=MPG026439USPCT-ASSIGNMENT#page8.tif |                     |

Serial No. 15/508,039

**ASSIGNMENT**

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.


WHEREAS, BOREALIS AG, having a place of business at IZD Tower, Wagramerstraße 17-19, a-1220 Vienna, Austria is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said BOREALIS AG, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said BOREALIS AG, as assignee of my entire right, title and interest.

I also hereby sell and assign to BOREALIS AG, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said BOREALIS AG, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said BOREALIS AG, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

|                                |  |
|--------------------------------|--|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b>  |
| SIGNATURE OF INVENTOR AND NAME | <br>Francis Costa |
| DATE                           | 2017-03-22   |
| RESIDENCE (CITY AND STATE)     | Fröhlenweg 39, Top 8/4<br>A-4040, Linz, Austria  |

|                                |   |
|--------------------------------|---|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b> |
| SIGNATURE OF INVENTOR AND NAME | Mattias Bergqvist   |
| DATE                           |   |
| RESIDENCE (CITY AND STATE)     | Ulveliden 13<br>S-416 74, Göteborg, Sweden                |

Serial No. 15/508,039

**ASSIGNMENT**

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, BOREALIS AG, having a place of business at IZD Tower, Wagramerstraße 17-19, a-1220 Vienna, Austria is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon.

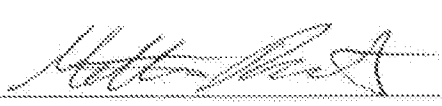
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said BOREALIS AG, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said BOREALIS AG, as assignee of my entire right, title and interest.


I also hereby sell and assign to BOREALIS AG, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said BOREALIS AG, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said BOREALIS AG, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

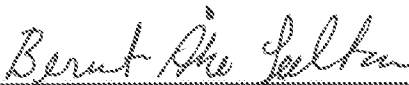
|                                |   |
|--------------------------------|---|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b> |
| SIGNATURE OF INVENTOR AND NAME | Francis Costa   |
| DATE                           |   |
| RESIDENCE (CITY AND STATE)     | Fröhlenweg 39, Top 8/4<br>A-4040, Linz, Austria           |

|                                |  |
|--------------------------------|--|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b>  |
| SIGNATURE OF INVENTOR AND NAME | Mattias Bergqvist  |
| DATE                           | 17-03-08   |
| RESIDENCE (CITY AND STATE)     | Ulveliden 13<br>S-416 74, Göteborg, Sweden   |

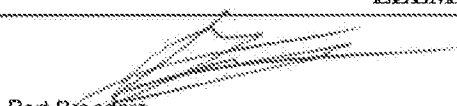
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| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b>   |
| SIGNATURE OF INVENTOR AND NAME | <br>Stefan Holström |
| DATE                           | 17-03-08  |
| RESIDENCE (CITY AND STATE)     | Borealis AB<br>Olserödsgatan 40<br>S-442 42, Kungälv, Sweden  |

|                                |   |
|--------------------------------|---|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b> |
| SIGNATURE OF INVENTOR AND NAME | Bert Broeders   |
| DATE                           |   |
| RESIDENCE (CITY AND STATE)     | Vierbestraat 4<br>B-3580, Beringen, Belgium               |

|                                |   |
|--------------------------------|---|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b> |
| SIGNATURE OF INVENTOR AND NAME | Girish Suresh Galgali                                     |
| DATE                           |   |
| RESIDENCE (CITY AND STATE)     | Ferdinand Marklstrasse 15/5<br>A-4040, Linz, Austria      |

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| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b>  |
| SIGNATURE OF INVENTOR AND NAME | <br>Bernd-Ake Sultan |
| DATE                           | 17-03-16   |
| RESIDENCE (CITY AND STATE)     | Söbackevägen 16<br>S-444 42, Stenungsund, Sweden   |

|                                |  |
|--------------------------------|--|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b>    |
| SIGNATURE OF INVENTOR AND NAME | Stefan Hellström   |
| DATE                           |  |
| RESIDENCE (CITY AND STATE)     | Borealis AB<br>Olserödsgatan 40<br>S-442 42, Kungälv, Sweden |

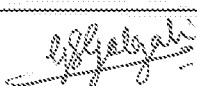
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| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b>  |
| SIGNATURE OF INVENTOR AND NAME | <br>Bert Broeders |
| DATE                           | 23/03/2012   |
| RESIDENCE (CITY AND STATE)     | Vierbestraat 4<br>B-3580, Beringen, Belgium  |

|                                |   |
|--------------------------------|---|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b> |
| SIGNATURE OF INVENTOR AND NAME | Girish Suresh Galgali                                     |
| DATE                           |   |
| RESIDENCE (CITY AND STATE)     | Ferdinand Marktstrasse 15/5<br>A-4040, Linz, Austria      |

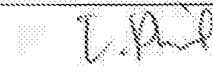
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| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b> |
| SIGNATURE OF INVENTOR AND NAME | Bernt-Åke Sultan  |
| DATE                           |   |
| RESIDENCE (CITY AND STATE)     | Söbackevägen 16<br>S-444 42, Stenungsund, Sweden          |

|                                |  |
|--------------------------------|--|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b>    |
| SIGNATURE OF INVENTOR AND NAME | Stefan Hellström   |
| DATE                           |  |
| RESIDENCE (CITY AND STATE)     | Borealis AB<br>Olserödsgatan 40<br>S-442 42, Kungälv, Sweden |

|                                |   |
|--------------------------------|---|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b> |
| SIGNATURE OF INVENTOR AND NAME | Bert Broeders   |
| DATE                           |   |
| RESIDENCE (CITY AND STATE)     | Vierbestraat 4<br>B-3580, Beringen, Belgium               |

|                                |  |
|--------------------------------|--|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b>  |
| SIGNATURE OF INVENTOR AND NAME | <br>Girish Suresh Gaigali |
| DATE                           | 2017-03-24   |
| RESIDENCE (CITY AND STATE)     | Ferdinand Marklstrasse 15/5<br>A-4040, Linz, Austria   |

|                                |   |
|--------------------------------|---|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b> |
| SIGNATURE OF INVENTOR AND NAME | Bernt-Åke Sultan  |
| DATE                           |   |
| RESIDENCE (CITY AND STATE)     | Söbackevägen 16<br>S-444 42, Stenungsund, Sweden          |

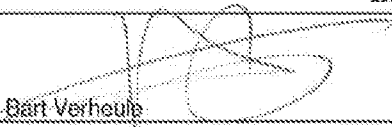
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| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b>                                       |
| SIGNATURE OF INVENTOR AND NAME | <br>Tanja Piel |
| DATE                           | 2017-03-23  |
| RESIDENCE (CITY AND STATE)     | Andromedastrasse 26<br>A-4030, Linz, Austria  |

|                                |   |
|--------------------------------|---|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b> |
| SIGNATURE OF INVENTOR AND NAME | <br>Bart Verheule   |
| DATE                           |   |
| RESIDENCE (CITY AND STATE)     | Fr. Cretenlaan, 5<br>B-2627, Schelle, Belgium             |

|                                |   |
|--------------------------------|---|
| TITLE OF INVENTION             | <b>POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT</b> |
| SIGNATURE OF INVENTOR AND NAME | <br>Jeroen Oderkerk                                       |
| DATE                           |   |
| RESIDENCE (CITY AND STATE)     | Pressarevägen 28<br>S-444 52, Stenungsund, Sweden         |



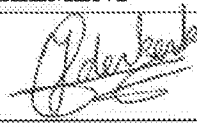
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| TITLE OF INVENTION             | POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT |
| SIGNATURE OF INVENTOR AND NAME | Tanja Piel   |
| DATE                           |  |
| RESIDENCE (CITY AND STATE)     | Andromedastrasse 26<br>A-4030, Linz, Austria       |

|                                |   |
|--------------------------------|---|
| TITLE OF INVENTION             | POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT  |
| SIGNATURE OF INVENTOR AND NAME | <br>Dan Verheule |
| DATE                           | 23.03.2017  |
| RESIDENCE (CITY AND STATE)     | Fr. Cretenlaan, 5<br>B-2627, Schelle, Belgium   |

|                                |  |
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| TITLE OF INVENTION             | POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT |
| SIGNATURE OF INVENTOR AND NAME | Jeroen Oderkerk                                    |
| DATE                           |  |
| RESIDENCE (CITY AND STATE)     | Pressarevägen 28<br>S-444 52, Stenungsund, Sweden  |

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| TITLE OF INVENTION             | POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT |
| SIGNATURE OF INVENTOR AND NAME | Tanja Piel   |
| DATE                           |  |
| RESIDENCE (CITY AND STATE)     | Andromedastrasse 26<br>A-4030, Linz, Austria       |

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| SIGNATURE OF INVENTOR AND NAME | Bart Verheule                                      |
| DATE                           |  |
| RESIDENCE (CITY AND STATE)     | Fr. Cretenlaan, 5<br>B-2627, Schelle, Belgium      |

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| TITLE OF INVENTION             | POLYMER COMPOSITION FOR A LAYER OF A LAYER ELEMENT   |
| SIGNATURE OF INVENTOR AND NAME | Jeroen Oderkerk  |
| DATE                           | 17-03-13   |
| RESIDENCE (CITY AND STATE)     | Pressarevägen 28<br>S-444 52, Stenungsund, Sweden  |