504122910 12/05/2016

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------------|----------------|
| NOUREDDINE AJELLAL | 11/21/2016 |
| ROBERTA PELLECCHIA | 11/28/2016 |
| LUIGI RESCONI | 11/28/2016 |
| VYATCHESLAV V. IZMER | 11/19/2016 |
| DMITRY S. KONONOVICH | 11/19/2016 |
| ALEXANDER Z. VOSKOBOYNIKOV | 11/19/2016 |

RECEIVING PARTY DATA

| Name: | BOREALIS AG |
|-----------------|----------------------------------|
| Street Address: | IZD TOWER, WAGRAMERSTRASSE 17-19 |
| City: | VIENNA |
| State/Country: | AUSTRIA |
| Postal Code: | A-1220 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15304638 |

CORRESPONDENCE DATA

Fax Number: (404)645-7707

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| ATTORNEY DOCKET NUMBER: | 10134-029US1 |
|-------------------------|----------------|
| NAME OF SUBMITTER: | JULIA RUDICK |
| SIGNATURE: | /Julia Rudick/ |
| DATE SIGNED: | 12/05/2016 |

PATENT REEL: 040519 FRAME: 0963 504122910

Total Attachments: 7 source=10134-029US1 2016_11_21 Fully Executed Assignment#page1.tif source=10134-029US1 2016_11_21 Fully Executed Assignment#page2.tif source=10134-029US1 2016_11_21 Fully Executed Assignment#page3.tif source=10134-029US1 2016_11_21 Fully Executed Assignment#page4.tif source=10134-029US1 2016_11_21 Fully Executed Assignment#page5.tif source=10134-029US1 2016_11_21 Fully Executed Assignment#page6.tif source=10134-029US1 2016_11_21 Fully Executed Assignment#page7.tif

PATENT REEL: 040519 FRAME: 0964

ASSIGNMENT

For valuable consideration, we, Noureddine Ajellal of Ounasvaarankuja 4A, 3, FI-00970 Helsinki, Finland, Roberta Pellecchia of Prandtauerstrasse 16, A-4040 Linz, Austria, Luigi Resconi of Via Palestro 101, I-44100, Ferrara, Italy, Vyatcheslav V. Izmer of Apt. 248, 2/19 Remezova Street, Moscow, 117186, Russia, Dmitry S. Kononovich of Apt. V-1016, Vorobyovy Gory, Moscow, 119234, Russia, Alexander Z. Voskoboynikov of Apt. 93 Bld. 5, Korolev Street, Moscow, 129515, Russia, hereby assign to BOREALIS AG, having a place of business at IZD Tower, Wagramerstrasse 17-19, Vienna, Austria, A-1220, and its successors and assigns (collectively hereinafter "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements that are subject of an application for United States Patent titled IMPROVED CATALYST SYSTEM FOR PRODUCING POLYETHYLENE COPOLYMERS IN A HIGH TEMPERATURE SOLUTION POLYMERIZATION PROCESS filed October 17, 2016 and assigned U.S. Patent Application No. 15/304,638, which is a filing under 35 USC §371 of PCT Serial Number PCT/EP2015/058204 filed April 15, 2015, which claims priority to EP Patent Application No. 14165140.6 filed April 17, 2014; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Assignment Page 1 of 7

PATENT REEL: 040519 FRAME: 0965

| Date: 21.11. 20/6 | T. Commission of the Commissio | | |
|---------------------------------|--|--------------------|-------|
| | Name: | Noureddine Ajellal | ····· |
| WITNESSED BY: | Date: | d1/2016 | |
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| Witness Address 7/A-0660 HAMARI | | | |
| F/ALAND | | | |

| Date: 2016-11-28 | Rouleteleur | |
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| | Name: | Roberta Pellecchia |
| WITNESSED BY: | | |
| Signature | Date: | 2016-11-28 |
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| Date: 2016-11-28 | - Luip How |
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| | Name: Luigi Resconi |
| WITNESSED BY: | |
| Signature | Date: 2016-11 - 28 |
| Signature | |
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| Type or Printed Name | |
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| Witness Address | |
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| Date: November 19, 2016 | Mysf- | | |
|---|-------|---|---------|
| | Name: | Vyatcheslav V. Izme | 58" |
| WITNESSED BY: | | | |
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| Signature | | *************************************** | , |
| Vera A. Ludokina | | | |
| Type or Printed Name | | | |
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| Date: | November 19,2016 | · *······· | 7(-) | |
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| | | Name: | Dmitry S. Kononovich | |
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| < | 11th - | Date: | Novew Per 19,2016 | |
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| Date: November 19, 2016 | *************************************** | Attorney Docket No. 10134-029US1 |
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| | Name: | Alexander Z. Voskoboynikov |
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| MOCCON OBLACT 143965, RUSSIA | | |

Assignment Page 7 of 7

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RECORDED: 12/05/2016