PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4928865

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

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| ALEXANDER DUEFERT | 11/30/2017 |
| ROLF PINKOS | 11/26/2017 |
| MICHAEL REISER | 11/27/2017 |
| PHILIPP BRUEGGEMANN | 04/12/2018 |
| GERHARD THEIS | 01/25/2018 |

RECEIVING PARTY DATA

| Name: | BASF SE | |
|-----------------|----------------------------------|--|
| Street Address: | t Address: CARL-BOSCH-STRASSE 38 | |
| City: | LUDWIGSHAFEN AM RHEIN | |
| State/Country: | GERMANY | |
| Postal Code: | 67056 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15747809 |

CORRESPONDENCE DATA

Fax Number: (302)351-6938

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.

Phone: 302-467-4200

Email: Amy.Hamm@DBR.com
Correspondent Name: ASHLEY I. PEZZNER

Address Line 1: DRINKER BIDDLE & REATH LLP

Address Line 2: 222 DELAWARE AVE.

Address Line 4: WILMINGTON, DELAWARE 19801

| ATTORNEY DOCKET NUMBER: | DOCKET NUMBER: 074008-1832-US-573092 | |
|-------------------------|--|--|
| NAME OF SUBMITTER: | ASHLEY I. PEZZNER | |
| SIGNATURE: | /Ashley I. Pezzner/ | |
| DATE SIGNED: | 04/24/2018 | |
| | This document serves as an Oath/Declaration (37 CFR 1.63). | |

PATENT 504882124 REEL: 045618 FRAME: 0001

Total Attachments: 5 source=074008_1832_573092_Assignment#page1.tif source=074008_1832_573092_Assignment#page2.tif source=074008_1832_573092_Assignment#page3.tif

source=074008_1832_573092_Assignment#page4.tif

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PATENT REEL: 045618 FRAME: 0002

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1. 76) AND ASSIGNMENT

| Title of Invention | METHOD FOR PRODUCING MONOETHYLENE GLYCOL | | | |
|---|---|--|--|--|
| As the below named inventor, I hereby declare that: | | | | |
| This declaration [] The attached application, or | | | | |
| is directed to: | [x] PCT international application number PCT/EP2016/067706 filed on 26 Jul 2016 | | | |
| The above-ide | ntified application was made or authorized to be made by me. | | | |
| I believe that I | am the original inventor or an original joint inventor of a claimed invention in the application. | | | |
| Germany (Fed (hereinafter re is desirous of | rasse 38 shafen am Rhein eral Republic of) iferred to as "ASSIGNEE(S)") acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent granted therefore in the United States and its territorial possessions and in any and all foreign | | | |
| acknowledged the said invent to claim priorit Arrangements Patent which n | REFORE, for good and valuable consideration the receipt and sufficiency of which is hereby, I, by these presents do assign and transfer unto said ASSIGNEE(S), the full and exclusive right to ion in the United States and its territorial possessions and in all foreign countries (including the right under the terms of the International Convention and other relevant International Treaties and from the aforesaid application) and the entire right, title and interest in and to any and all Letters hay be granted therefor in the United States and its territorial possessions and in any and all foreign and to any and all divisions, reissues, continuations, substitutions and renewals thereof. | | | |
| any and all for the assignee ASSIGNEE(S) | thorize and request the Patent Office Officials in the United States and its territorial possessions and eign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE(S) as of my entire right, title and interest in and to the same, for the sole use and behoof of said its (his) successors and assigns, to the full end of the term for which said Letters Patent may be ly and entirely as the same would have been held by me had this Assignment and sale not been | | | |
| respecting said continuation, s and all of said everything pos | gree that I will communicate to said ASSIGNEE(S) or its (his) representatives any facts known to me d invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, ubstitute, renewal and reissue applications, execute all necessary assignment papers to cause any I Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths, and, generally do sible to aid said ASSIGNEE(S), its (his) successors and assigns, to obtain and enforce proper aid invention in the United States and its territorial possessions and in any and all foreign countries. | | | |
| I hereby ac 1001 by fine or | knowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. imprisonment of not more than five (5) years, or both. | | | |

Signature:

LEGAL NAME OF INVENTOR Inventor: Alexander Duefert

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1. 76) AND ASSIGNMENT

Title of Invention

METHOD FOR PRODUCING MONOETHYLENE GLYCOL

As the below named inventor, I hereby declare that:

This declaration [] The attached application, or

is directed to: [x] PCT interna

[x] PCT international application number PCT/EP2016/067706 filed on

26 Jul 2016

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

WHEREAS, BASF SE

Carl-Bosch-Strasse 38

67056 Ludwigshafen am Rhein

Germany (Federal Republic of)

(hereinafter referred to as "ASSIGNEE(S)")

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, I, by these presents do assign and transfer unto said ASSIGNEE(S), the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE(S) as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE(S), its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.

Further, I agree that I will communicate to said ASSIGNEE(S) or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE(S), its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

LEGAL NAME OF INVENTOR

Inventor: Rolf Pinkos

Date: 20.11.11

Signature:

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1, 76) AND ASSIGNMENT

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LEGAL NAME OF INVENTOR

Michael Chine

Inventor: Michael Reiser

Date: 27.11.1017

Signature:

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

Title of

METHOD FOR PRODUCING MONOETHYLENE GLYCOL

Invention

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LEGAL NAME OF INVENTOR Inventor: Philipp Brueggemann

Date: 2012-04-12

Signature: (Livery)

PATENT REEL: 045618 FRAME: 0006

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

METHOD FOR PRODUCING MONOETHYLENE GLYCOL

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| is directed to: [x] PCT international application number PCT/EP2016/067706 filed on 26 Jul 2016 |
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| WHEREAS, BASF SE Carl-Bosch-Strasse 38 67056 Ludwigshafen am Rhein Germany (Federal Republic of) (hereinafter referred to as "ASSIGNEE(S)") is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries; |
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| LEGAL NAME OF INVENTOR Inventor: Gerhard Theis Date: |
| Signature: |

US_PCT_Decl

Title of

Invention

PATENT REEL: 045618 FRAME: 0007

RECORDED: 04/24/2018