

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6812224

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MICHAEL SISKIN	04/26/2018
CARLA PEREIRA	04/26/2018
THOMAS INGRAM	01/30/2018
MARTIN ERNST	02/13/2018
GERALD VORBERG	01/30/2018
ALEXANDER PANCHENKO	02/13/2018
SOPHIA EBERT	02/13/2018
THOMAS WESLEY HOLCOMBE	02/13/2018
GEORG SIEDER	07/26/2018
RECEIVING PARTY DATA	
Name:	EXXONMOBIL RESEARCH AND ENGINEERING COMPANY
Street Address:	1545 ROUTE 22
City:	EAST ANNANDALE
State/Country:	NEW JERSEY
Postal Code:	08801
Name:	BASF SE
Street Address:	CARL-BOSCH-STRASSE 38
City:	LUDWIGSHAFEN
State/Country:	GERMANY
Postal Code:	67056
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16484860
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Email:	docketing-wm@faegredrinker.com
Correspondent Name:	GEOFFREY A. ZELLEY

Address Line 1: FAEGRE DRINKER BIDDLE & REATH LLP
Address Line 2: 222 DELAWARE AVENUE, STE. 1410
Address Line 4: WILMINGTON, DELAWARE 19801

ATTORNEY DOCKET NUMBER: 074012-0407-US-592247

NAME OF SUBMITTER: GEOFFREY A. ZELLEY

SIGNATURE: /Geoffrey A. Zellely/

DATE SIGNED: 07/14/2021

Total Attachments: 32

source=Assignment#page1.tif
source=Assignment#page2.tif
source=Assignment#page3.tif
source=Assignment#page4.tif
source=Assignment#page5.tif
source=Assignment#page6.tif
source=Assignment#page7.tif
source=Assignment#page8.tif
source=Assignment#page9.tif
source=Assignment#page10.tif
source=Assignment#page11.tif
source=Assignment#page12.tif
source=Assignment#page13.tif
source=Assignment#page14.tif
source=Assignment#page15.tif
source=Assignment#page16.tif
source=Assignment#page17.tif
source=Assignment#page18.tif
source=Assignment#page19.tif
source=Assignment#page20.tif
source=Assignment#page21.tif
source=Assignment#page22.tif
source=Assignment#page23.tif
source=Assignment#page24.tif
source=Assignment#page25.tif
source=Assignment#page26.tif
source=Assignment#page27.tif
source=Assignment#page28.tif
source=Assignment#page29.tif
source=Assignment#page30.tif
source=Assignment#page31.tif
source=Assignment#page32.tif

United States of America

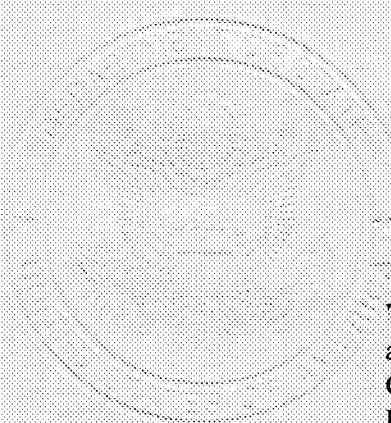


DEPARTMENT OF STATE

To all to whom these presents shall come, Greetings:

I Certify That the document hereunto annexed is under the Seal of the Secretary of State of the State(s) of Virginia, and that such Seal(s) is/are entitled to full faith and credit.*

**For the contents of the annexed document, the Department assumes no responsibility
This certificate is not valid if it is removed or altered in any way whatsoever*



In testimony whereof, I, Michael R. Pompeo, Secretary of State, have hereunto caused the seal of the Department of State to be affixed and my name subscribed by the Assistant Authentication Officer, of the said Department, at the city of Washington, in the District of Columbia, this eighteenth day of May, 2018.

Secretary of State

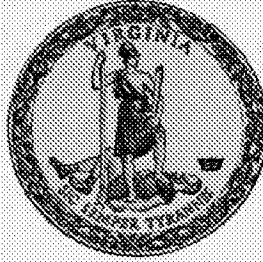
By _____

Assistant Authentication Officer,
Department of State

*Issued pursuant to CHXIV, State of
Sept. 15, 1789, 1 Stat. 68-69; 22
USC 2657; 22USC 2651a; 5 USC
301; 28 USC 1733 et. seq.; 8 USC
1443(f); RULE 44 Federal Rules of
Civil Procedure.*

07484748

COMMONWEALTH OF VIRGINIA



Office of the

Secretary of the Commonwealth

I, Kelly Thomasson, Secretary of the Commonwealth, and as such, Keeper of the Great and

Lesser Seals, do hereby certify that Shakia Abaynesta Fields

whose name is signed to the within Certificate bearing the date of May 11, 2018

is and was at the time of signing same

Notary Public, Commonwealth of Virginia;

and is authorized by the laws of this Commonwealth to make and sign such instrument and to all

official acts full faith, credit and authority are due and ought to be given.



*Given under my hand and under the Great Seal of the
Commonwealth, at Richmond, on, May 15, 2018
and in the 242nd year of the Commonwealth.*

Kelly Thomasson

Secretary of the Commonwealth

This certification attests only to the authenticity of the signature of the official who signed the affixed document, the capacity in which that official acted, and where appropriate, the identity of the seal or stamp which the document bears. This certification is not intended to imply that the contents of the document are correct, nor that they have the approval of the Commonwealth of Virginia. This Greater Seal authentication is not valid for use anywhere within the United States of America or its territories.

(REV April 18, 2016)

2911596

ACKNOWLEDGMENT

I the undersigned, **Tesa Garrett**, do hereby certify that I am a public notary in the state of Virginia, and do hereby attest that:

- 1. Attached hereto as Exhibit A is a true, correct and complete copy of the Assignee Acceptance document for ExxonMobil Research and Engineering Company;

IN WITNESS WHEREOF, I have signed this certificate, to be duly attested and notarized herein, as of 11 May 2018.

T. Garrett
Name: Tesa D. Garrett
Title: Notary Public, Alexandria, Virginia

State of Virginia

City of Alexandria

Sworn and subscribed to before me this 11th day of May 2018.



Shakia A. Fields
Notary Public: Shakia Abaynesta Fields
My Commission expires: 31 July 2021

City of Alexandria
Commonwealth of Virginia
The foregoing instrument was acknowledged before me this 11 day of May 2018 by Tesa D. Garrett (name of person seeking acknowledgement)
Shakia A. Fields
Shakia Abaynesta Fields, Notary Public # 7251107
My Commission Expires July 31, 2021

Assignee Acceptance

Employer, the Assignee: **ExxonMobil Research and Engineering Company**

hereby accepts the Assignment

from, the Assignor

SISKIN, Michael
PEREIRA, Carla

of the invention as disclosed in the following application(s):

Country	Application No.	Filing Date
European Patent	17155535.2	10 Feb 2017
PCT	PCT/EP2018/053235	09 Feb 2018

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall deemed a part of said Assignment.

Signed and accepted at Annandale, New Jersey

this 3 day of May, 2018

ExxonMobil Research and Engineering Company

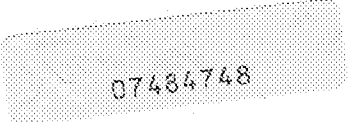
1. NAME / TITLE: W. Robinson H. Clark
Assistant Secretary

SIGNATURE: [Signature]
(Authorized Representative)

2. NAME / TITLE: _____ SIGNATURE: _____
(Authorized Representative)

[Signature] 5-3-18

DAWN MARIE NORDSTROM
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 12/26/2018



United States of America



DEPARTMENT OF STATE

To all to whom these presents shall come, Greetings:

I Certify That the document hereunto annexed is under the Seal of the Secretary of State of the State(s) of Virginia, and that such Seal(s) is/are entitled to full faith and credit.*

**For the contents of the annexed document, the Department assumes no responsibility
This certificate is not valid if it is removed or altered in any way whatsoever*



In testimony whereof, I, Michael R. Pompeo, Secretary of State, have hereunto caused the seal of the Department of State to be affixed and my name subscribed by the Assistant Authentication Officer, of the said Department, at the city of Washington, in the District of Columbia, this eighteenth day of May, 2018.

Secretary of State

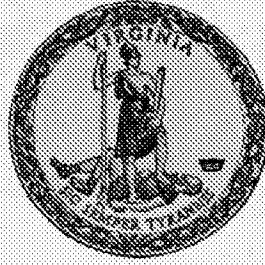
By _____

Assistant Authentication Officer,
Department of State

*Issued pursuant to CHXIV, State of
Sept. 15, 1789. 1 Stat. 68-69; 22
USC 2657; 22USC 2651a; 5 USC
301; 28 USC 1733 et. seq.; 8 USC
1443(f); RULE 44 Federal Rules of
Civil Procedure.*

07484747

COMMONWEALTH OF VIRGINIA



Office of the

Secretary of the Commonwealth

I, Kelly Thomasson, Secretary of the Commonwealth, and as such, Keeper of the Great and

Lesser Seals, do hereby certify that Shakia Abaynesta Fields

whose name is signed to the within Certificate bearing the date of May 11, 2018

is and was at the time of signing same

Notary Public, Commonwealth of Virginia;

and is authorized by the laws of this Commonwealth to make and sign such instrument and to all

official acts full faith, credit and authority are due and ought to be given.

*Given under my hand and under the Great Seal of the
Commonwealth, at Richmond, on, May 15, 2018
and in the 242nd year of the Commonwealth.*

Kelly Thomasson

Secretary of the Commonwealth

This certification attests only to the authenticity of the signature of the official who signed the affixed document, the capacity in which that official acted, and where appropriate, the identity of the seal or stamp which the document bears. This certification is not intended to imply that the contents of the document are correct, nor that they have the approval of the Commonwealth of Virginia. This Greater Seal authentication is not valid for use anywhere within the United States of America or its territories.



(REV April 18, 2016)

2911596

ACKNOWLEDGMENT

I the undersigned, **Tesa Garrett**, do hereby certify that I am a public notary in the state of Virginia, and do hereby attest that:

- 1. Attached hereto as Exhibit A is a true, correct and complete copy of the Individual Assignment document for ExxonMobil Research and Engineering Company;

IN WITNESS WHEREOF, I have signed this certificate, to be duly attested and notarized herein, as of 11 May 2018.



 Name: Tesa D. Garrett
 Title: Notary Public, Alexandria, Virginia

State of Virginia

City of Alexandria

Sworn and subscribed to before me this 11th day of May 2018.




 Notary Public: Shakia Abaynesta Fields
 My Commission expires: 31 July 2021

City of Alexandria
 Commonwealth of Virginia
 The foregoing instrument was acknowledged before me this 11 day of May 2018 by Tesa D. Garrett (name of person seeking acknowledgement) Shakia A. Fields
 Shakia Abaynesta Fields, Notary Public # 7251107
 My Commission Expires July 31, 2021

Individual Assignment
(including Assignment of Priority Rights)

The undersigned (hereinafter collectively referred to as "Assignor") has invented an invention as disclosed in the application(s)

Country	Application No.	Filing Date
European Patent	17155535.2	10 Feb 2017
PCT	PCT/EP2018/053235	09 Feb 2018

(hereinafter collectively referred to as "Application(s)").

I do hereby authorize Assignee or its designee to insert here any further identification(s), including Application Number(s), Filing Date(s), and Filing Country(ies).

As the below named inventor(s), I hereby declare that the above-identified Application(s) 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.

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, Assignor hereby confirms that Assignor already did, or agrees to and hereby does, assign and transfer unto **ExxonMobil Research and Engineering Company**, (formerly Exxon Research and Engineering Company) a corporation of Delaware, United States of America (hereinafter referred to as "Assignee") and its successors in interest and assignees, the full and exclusive right, title, and interest, throughout the world, including (i) the right to claim priority under the laws of any country, the Paris Convention, and the Patent Cooperation Treaty to the Application(s), (ii) in and to the invention as described in the Application(s) and the Application(s) itself, and (iii) in and to all divisions, continuations, and continuations-in-part, or other applications claiming priority directly or indirectly from the Application(s) and all Letters Patent, utility models, industrial designs, petty patents, design registrations, copyrights, and legal equivalents thereof that may be granted for the invention, and (iv) all reissues, reexaminations and extensions thereof, these and the full and exclusive right, title, and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had the assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications or patents, utility models, industrial designs, petty patents, design registrations, copyrights, and legal equivalents thereof resulting therefrom.

I do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications

derived from, corresponding to or equivalent to the above identified application as Assignee may request.

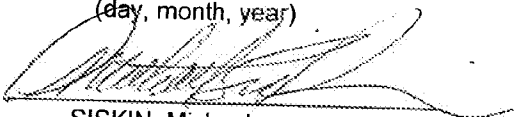
I authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or Notarial True Copy thereof, being under covenant not only that I have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

(Signature page(s) follow(s))


Subscribed and Declared by:
Inventor: **SISKIN, Michael**

Place: Westfield, New Jersey
(City)

Date: 26/04/2018
(day, month, year)

Signature: 
SISKIN, Michael

Name: SISKIN, Michael
Address: 209 South Scotch Plains AV., Westfield, New Jersey 07090
Country: United States of America
Nationality: United States of America
Employed by (at the time of invention): ExxonMobil Research and Engineering Company - Retired
Of Country: United States of America


DAWN MARIE NORDSTROM
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 12/26/2018
2018-04-26

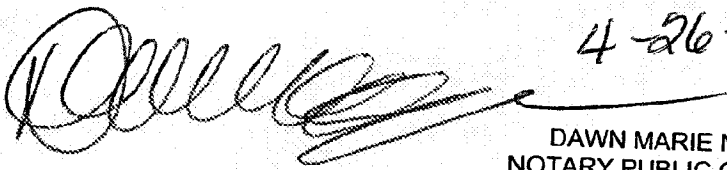
Subscribed and Declared by:
Inventor: PEREIRA, Carla

Place: BRIDGEWATER
(City)

Date: 26, 04, 2018
(day, month, year)

Signature: 
PEREIRA, Carla

Name: PEREIRA, Carla
Address: 18 Stillwell Court, Bridgewater, New Jersey 08807
Country: United States of America
Nationality: Portugal
Employed by (at the time of invention): ExxonMobil Research and Engineering Company
Of Country: United States of America

 4-26-2018

DAWN MARIE NORDSTROM
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 12/26/2018

07484747

Individual Assignment
(including Assignment of Priority Rights)

The undersigned (hereinafter collectively referred to as "Assignor") has invented an invention as disclosed in the application(s)

Country	Application No.	Filing Date	Application Title
European Patent	17155535.2	10 Feb 2017	Absorbent for removal of acid gases from a fluid stream

PCT PCT/EP2018/053235 09.Feb. 2018

(hereinafter collectively referred to as "Application(s)").

I do hereby authorize Assignee or its designee to insert here any further identification(s), including Application Number(s), Filing Date(s), and Filing Country(ies).

As the below named inventor(s), I hereby declare that the above-identified Application(s) 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.

ExxonMobil Research and Engineering Company, 3225 Gallows Road, 22037 Fairfax, United States of America (hereinafter referred to as "Assignee"), desires to confirm that it has already been assigned, or, if not already assigned, desires to acquire the entire legal and beneficial right, title, and interest in the invention and the Application(s), including the right to claim priority of the Application(s);

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, Assignor hereby confirms that Assignor already did, or agrees to and hereby does, assign and transfer unto Assignee and its successors in interest and assignees, the full and exclusive right, title, and interest, throughout the world, including (i) the right to claim priority under the laws of any country, the Paris Convention, and the Patent Cooperation Treaty to the Application(s), (ii) in and to the invention as described in the Application(s) and the Application(s) itself, and (iii) in and to all divisions, continuations, and continuations-in-part, or other applications claiming priority directly or indirectly from the Application(s) and all Letters Patent, utility models, industrial designs, petty patents, design registrations, copyrights, and legal equivalents thereof that may be granted for the invention, and (iv) all reissues, reexaminations and extensions thereof, these and the full and exclusive right, title, and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had the assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications or patents, utility models, industrial designs, petty patents, design registrations, copyrights, and legal equivalents thereof resulting therefrom.

I do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent

or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or Notarial True Copy thereof, being under covenant not only that I have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

(Signature page(s) follow(s))

described and Declared by:

Inventor: **SISKIN, Michael**

Signed at: _____

on _____ day of _____, 20____

Signature: _____

Name: **SISKIN, Michael**

Address: **209 South Scotch Plains AV., Westfield, New Jersey 07090**

Country: **United States of America**

Nationality: **United States of America**

Employed by: **ExxonMobil Research and Engineering Company**

Country: **United States of America**

Subscribed and Declared by:

Inventor: PEREIRA, Carla

Signed at: _____

this _____ day of _____, 20____

Signature: _____

Name: PEREIRA, Carla

Address: 125 W Main Street, Somerville, New Jersey 08876

Country: United States of America

Nationality: Portugal

Employed by: ExxonMobil Research and Engineering Company

Of Country: United States of America

Assignee Acceptance

Employer, the Assignee: **ExxonMobil Research and Engineering Company**

hereby accepts the Assignment

from, the Assignor

SISKIN, Michael
PEREIRA, Carla

of the invention as disclosed in the following application(s):

Country	Application No.	Filing Date	Application Title
European Patent	17155535.2	10 Feb 2017	Absorbent for removal of acid gases from a fluid stream

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall deemed a part of said Assignment.

Signed and accepted at _____

this _____ day of _____, 20__

ExxonMobil Research and Engineering Company

1. NAME / TITLE: _____ SIGNATURE: _____
(Authorized Representative)

2. NAME / TITLE: _____ SIGNATURE: _____
(Authorized Representative)

(including Assignment of Priority Rights)

The undersigned (hereinafter collectively referred to as "Assignor") has invented an invention as disclosed in the application(s)

Country	Application No.	Filing Date	Application Title
European Patent	17155535.2	10 Feb 2017	Absorbent for removal of acid gases from a fluid stream

PCT PCT/EP2018/053235 09 Feb 2018

(hereinafter collectively referred to as "Application(s)").

I do hereby authorize Assignee or its designee to insert here any further identification(s), including Application Number(s), Filing Date(s), and Filing Country(ies).

As the below named inventor(s), I hereby declare that the above-identified Application(s) 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.

BASF SE, Carl-Bosch-Strasse 38, 67056 Ludwigshafen am Rhein, Germany (hereinafter referred to as "Assignee"), desires to confirm that it has already been assigned, or, if not already assigned, desires to acquire the entire legal and beneficial right, title, and interest in the invention and the Application(s), including the right to claim priority of the Application(s);

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, Assignor hereby confirms that Assignor already did, or agrees to and hereby does, assign and transfer unto Assignee and its successors in interest and assignees, the full and exclusive right, title, and interest, throughout the world, including (i) the right to claim priority under the laws of any country, the Paris Convention, and the Patent Cooperation Treaty to the Application(s), (ii) in and to the invention as described in the Application(s) and the Application(s) itself, and (iii) in and to all divisions, continuations, and continuations-in-part, or other applications claiming priority directly or indirectly from the Application(s) and all Letters Patent, utility models, industrial designs, petty patents, design registrations, copyrights, and legal equivalents thereof that may be granted for the invention, and (iv) all reissues, reexaminations and extensions thereof, these and the full and exclusive right, title, and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had the assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications or patents, utility models, industrial designs, petty patents, design registrations, copyrights, and legal equivalents thereof resulting therefrom.

I do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or Notarial True Copy thereof, being under covenant not only that I have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

(Signature page(s) follow(s))

Subscribed and Declared by:

Inventor: INGRAM, Thomas

Signed at Ludwigshafen

this 05 day of January, 2019

Signature: 

Name: INGRAM, Thomas

Address: Carl-Bosch-Strasse 38, 67056 Ludwigshafen

Country: Germany

Nationality: Germany

Employed by: BASF SE

Of Country: Germany

Subscribed and Declared by:

Inventor: ERNST, Martin

Signed at: Ludwigshafen
this 13th day of February, 20 18

Signature: 

Name: ERNST, Martin

Address: Carl-Bosch-Strasse 38, 67056 Ludwigshafen

Country: Germany

Nationality: Germany

Employed by: BASF SE

Of Country: Germany

Subscribed and Declared by:

Inventor: **VORBERG, Gerald**

Signed at: Ludwigshafen

this 30 day of January, 20 18

Signature: 

Name: VORBERG, Gerald
Address: Carl-Bosch-Strasse 38, 67056 Ludwigshafen
Country: Germany
Nationality: Germany
Employed by: BASF SE
Of Country: Germany


Subscribed and Declared by:

Inventor: PANCHENKO, Alexander

Signed at: Ludwigshafen

this 13th day of February, 2018

Signature: _____



Name: PANCHENKO, Alexander

Address: Carl-Bosch-Strasse 38, 67056 Ludwigshafen

Country: Germany

Nationality: Germany

Employed by: BASF SE

Of Country: Germany

Subscribed and Declared by:

Inventor: EBERT, Sophia

Signed at: Ludwigshafen

this 13th day of February, 20 18

Signature:

Name: EBERT, Sophia

Address: Carl-Bosch-Strasse 38, 67056 Ludwigshafen

Country: Germany

Nationality: Germany

Employed by: BASF SE


Of Country: Germany

Subscribed and Declared by:

Inventor: HOLCOMBE, Thomas Wesley

Signed at: Ludwigshafen

this 13th day of February, 2018

Signature: 

Name: HOLCOMBE, Thomas Wesley

Address: Carl-Bosch-Strasse 38, 67056 Ludwigshafen

Country: Germany

Nationality: United States of America

Employed by: BASF SE

Of Country: Germany

Assignee Acceptance

Employer, the Assignee: **BASF SE**

hereby accepts the Assignment

from, the Assignor

INGRAM, Thomas
ERNST, Martin
VORBERG, Gerald
PANCHENKO, Alexander
EBERT, Sophia
HOLCOMBE, Thomas Wesley

of the invention as disclosed in the following application(s):

Country	Application No.	Filing Date	Application Title
European Patent	17155535.2	10 Feb 2017	Absorbent for removal of acid gases from a fluid stream

PCT PCT/EP2018/053235 09 Feb 2018

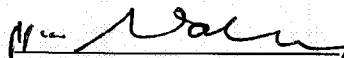
without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of said Assignment.


Signed and accepted at Ludwigshafen

this 13th day of February, 2018

BASF SE

Dr. Alexander Wallon

1. NAME / TITLE: Vice President SIGNATURE: 
(Authorized Representative)

2. NAME / TITLE: Dr. Uwe Preßler
Vice President SIGNATURE: 
(Authorized Representative)

U.R.Nr. 457/2018

I, Dr. Matthias Meyer, notary public at Ludwigshafen/Rhine, Federal Republic of Germany, hereby testify and confirm that the foregoing signatures of

1. a) Mr. Thomas **Ingram**, business address at BASF SE, Carl-Bosch-Straße 38, 67056 Ludwigshafen, Germany, personally known to me,
- b) Mr. Martin **Ernst**, business address at BASF SE, Carl-Bosch-Straße 38, 67056 Ludwigshafen, Germany, personally known to me,
- c) Mr. Gerald **Vorberg**, business address at BASF SE, Carl-Bosch-Straße 38, 67056 Ludwigshafen, Germany, personally known to me,
- d) Mr. Alexander **Panchenko**, business address at BASF SE, Carl-Bosch-Straße 38, 67056 Ludwigshafen, Germany, personally known to me,
- e) Mrs. Sophia **Ebert**, business address at BASF SE, Carl-Bosch-Straße 38, 67056 Ludwigshafen, Germany, personally known to me,
- f) Mr. Thomas Wesley **Holcombe**, business address at BASF SE, Carl-Bosch-Straße 38, 67056 Ludwigshafen, Germany, personally known to me,

are true and valid;

2. a) graduate chemist Dr. Alexander **Wallon**, chemist, at Ludwigshafen, personally known to me,
- b) Dr. Uwe **Preßler**, biologist, at Ludwigshafen, personally known to me,

are true and valid.

Graduate chemist Dr. Wallon and Dr. Preßler are acting on behalf of BASF SE at Ludwigshafen/Rhine.

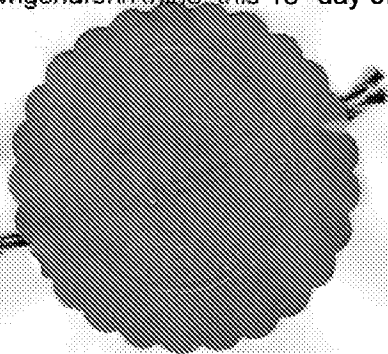
After having checked today the competent register of commerce, I
herewith confirm that

graduate chemist Dr. Wallon and Dr. Preßler
are Vice Presidents who are authorized to jointly represent

BASF SE,

Ludwigshafen/Rhine. I certify that this firm is a legal person duly
organized under the laws of the Federal Republic of Germany and under
the laws of the EUROPEAN UNION and that it is registered at the
District Court of Ludwigshafen/Germany (**HR B 6000**).

Ludwigshafen/Rhine, this 13th day of February, 2018



Dr. Matthias Meyer
notary public

Individual Assignment
(including Assignment of Priority Rights)

The undersigned (hereinafter collectively referred to as "Assignor") has invented an invention as disclosed in the application(s)

Country	Application No.	Filing Date
European Patent	17155535.2	10 Feb 2017
PCT	PCT/EP2018/053235	09 Feb 2018

(hereinafter collectively referred to as "Application(s)").

I do hereby authorize Assignee or its designee to insert here any further identification(s), including Application Number(s), Filing Date(s), and Filing Country(ies).

As the below named inventor(s), I hereby declare that the above-identified Application(s) 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.

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, Assignor hereby confirms that Assignor already did, or agrees to and hereby does, assign and transfer unto **BASF SE**, Carl-Bosch-Strasse 38, 67056 Ludwigshafen am Rhein, Germany (hereinafter referred to as "Assignee") and its successors in interest and assignees, the full and exclusive right, title, and interest, throughout the world, including (i) the right to claim priority under the laws of any country, the Paris Convention, and the Patent Cooperation Treaty to the Application(s), (ii) in and to the invention as described in the Application(s) and the Application(s) itself, and (iii) in and to all divisions, continuations, and continuations-in-part, or other applications claiming priority directly or indirectly from the Application(s) and all Letters Patent, utility models, industrial designs, petty patents, design registrations, copyrights, and legal equivalents thereof that may be granted for the invention, and (iv) all reissues, reexaminations and extensions thereof, these and the full and exclusive right, title, and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had the assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications or patents, utility models, industrial designs, petty patents, design registrations, copyrights, and legal equivalents thereof resulting therefrom.

I do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I authorize Assignee or its designee to translate this Assignment into all languages necessary, and we request that such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or Notarial True Copy thereof, being under covenant not only that I have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

(Signature page(s) follow(s))

Subscribed and Declared by:
Inventor: SIEDER, Georg

Place: Ludwigshafen
(City)

Date: 24.07.2018
(day, month, year)

Signature: 
SIEDER, Georg

Name: SIEDER, Georg
Address: Carl-Bosch-Strasse 38, 67056 Ludwigshafen
Country: Germany
Nationality: Germany

Assignee Acceptance

Employer, the Assignee: **BASF SE**

hereby accepts the Assignment

from, the Assignor

SIEDER, Georg

of the invention as disclosed in the following application(s):



Country	Application No.	Filing Date
European Patent	17155535.2	10 Feb 2017
PCT	PCT/EP2018/053235	09 Feb 2018

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall deemed a part of said Assignment.

Signed and accepted at Ludwigshafen

this 31st day of July, 2018

BASF SE

1. NAME / TITLE:	<u>Dr. Alexander Wallon</u> Vice President	SIGNATURE:	
			(Authorized Representative)
2. NAME / TITLE:	<u>Dr. Thomas Cimniak</u> Vice President	SIGNATURE:	
			(Authorized Representative)

U.R.Nr. 1082/2018

I, Dr. Peter Wolf, notary public at Ludwigshafen/Rhine, Federal Republic of Germany, hereby testify and confirm that the foregoing signature/s of

1. Mr. Georg **Sieder**, business address at BASF SE, Carl-Bosch-Straße 38, 67056 Ludwigshafen, Germany, identified by identity card,

is true and valid;

2. a) graduate chemist Dr. Alexander **Wallon**, chemist, at Ludwigshafen/Rhine, personally known to me,

- b) graduate chemist Dr. Thomas **Cimniak**, chemist, at Ludwigshafen/Rhine, personally known to me,

are true and valid.

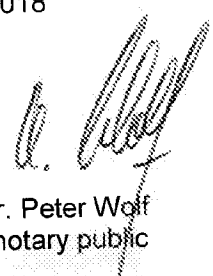
Graduate chemist Dr. Wallon und graduate chemist Dr. Cimniak are acting on behalf of BASF SE at Ludwigshafen/Rhine.

After having checked today the competent register of commerce, I herewith confirm that

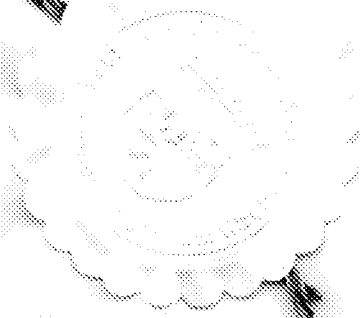
graduate chemist Dr. Wallon and graduate chemist Dr. Cimniak are Vice Presidents who are authorized to jointly represent **BASF SE,**

Ludwigshafen/Rhine. I certify that this firm is a legal person duly organized under the laws of the Federal Republic of Germany and under the laws of the EUROPEAN UNION and that it is registered at the District Court of Ludwigshafen/Germany (**HR B 6000**).

Ludwigshafen/Rhine, this 7th day of August, 2018



Dr. Peter Wolf
notary public



PATENT