

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4159719

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JUERGEN EIFFLER	02/05/2010
HEINZ GROENEWALD	02/10/2010
MANFRED KOKOTT	02/05/2010
THOMAS U. LUEBBE	02/24/2010
MARCUS WOBSE	02/08/2010
RECEIVING PARTY DATA	
Name:	DOW DEUTSCHLAND GMBH & CO. OHG
Street Address:	WERK STADE
Internal Address:	POSTFACH 11 20
City:	BUTZFLETHERSAND
State/Country:	GERMANY
Postal Code:	21677
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15204462
CORRESPONDENCE DATA	
Fax Number:	(314)231-1776
<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>	
Phone:	314-889-8000
Email:	ipdocket@polsinelli.com
Correspondent Name:	POLSINELLI PC
Address Line 1:	100 SOUTH FOURTH STREET
Address Line 2:	SUITE 1000
Address Line 4:	ST. LOUIS, MISSOURI 63102-1825
ATTORNEY DOCKET NUMBER:	074785-548460
NAME OF SUBMITTER:	CHRISTINA M. SPENCER, PGA
SIGNATURE:	/Christina M. Spencer/
DATE SIGNED:	11/29/2016

Total Attachments: 10

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This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and W/Date

FORM 110 (R 5/97)

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and W/Date

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION (with Priority Rights)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: **ADIABATIC PLUG FLOW REACTORS AND PROCESSES INCORPORATING THE SAME**

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

Dow Deutschland GmbH & Co. OHG
Werk Stade
Postfach 11 20
21677 Buzflethersand
Germany

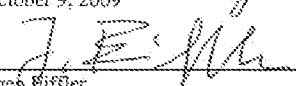
a corporation organized and existing under the laws of the State of **Germany** (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
61250,023	October 9, 2009	United States of America

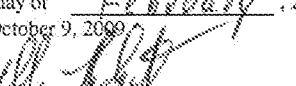
of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation 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/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we 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.

Subscribed and Declared by me/us:

At: <u>Stade</u> this <u>5</u> day of <u>February</u> , 20 <u>10</u> Effective as of October 9, 2009 Signature:  Full Name: Juergen Eiffer Residence: Ystadweg 4 21682 Stade GERMANY Country: Germany Citizenship: Germany P.O. Address: Same as Residence Employed By: Dow Deutschland GmbH & Co. OHG Of Country: Germany

At: _____ this _____ day of _____, 20____ Effective as of October 9, 2009 Signature: _____ Full Name: Heinz Groenewald Residence: Butendiek 18 21714 Hammah GERMANY Country: Germany Citizenship: Germany P.O. Address: Same as Residence Employed By: Dow Deutschland GmbH & Co. OHG Of Country: Germany

At: <u>Stade</u> this <u>7</u> day of <u>February</u> , 20 <u>10</u> Effective as of October 9, 2009 Signature:  Full Name: Manfred Kokott Residence: Vergissmeinnicht 13 21682 Stade GERMANY Country: Germany Citizenship: Germany P.O. Address: Same as Residence Employed By: Dow Deutschland GmbH & Co. OHG Of Country: Germany
--

At: _____ this _____ day of _____, 20____ Effective as of October 9, 2009 Signature: _____ Full Name: Thomas U. Luebbe Residence: Lemmermannweg 13 21684 Stade GERMANY Country: Germany Citizenship: Germany P.O. Address: Same as Residence Employed By: Dow Deutschland GmbH & Co. OHG Of Country: Germany
--

(X) Additional names and signatures are attached.

At: Stade
 this 9 day of February, 2010
 Effective as of October 9, 2009

Signature: [Signature]
 Full Name: Marcus Wobser
 Residence: Haydnweg 1
 21682 Stade
 GERMANY
 Country: Germany
 Citizenship: Germany
 P.O. Address: Same as residence
 Employed By: Dow Deutschland GmbH & Co. OHG
 Of Country: Germany

At: _____
 this _____ day of _____, 20____
 Effective as of _____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: _____
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____
 Effective as of _____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: Same as residence
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____
 Effective as of _____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: Same as residence
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____
 Effective as of _____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: Same as residence
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____
 Effective as of _____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: Same as residence
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____
 Effective as of _____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: Same as residence
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____
 Effective as of _____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: Same as residence
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____
 Effective as of _____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: Same as residence
 Employed By: _____
 Of Country: _____

At: _____
 this _____ day of _____, 20____
 Effective as of _____

Signature: _____
 Full Name: _____
 Residence: _____
 Country: _____
 Citizenship: _____
 P.O. Address: Same as residence
 Employed By: _____
 Of Country: _____

This Form 881 is in the ENGLISH language and has the same meaning in other languages with the same 881 number.

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FORM 881

Dow Case No. 69033

SUBSCRIBING WITNESS
AFFIDAVIT OF EXECUTION
OF AN ASSIGNMENT

I,

Whose full post office address is:

*A. Kokott
Vogelsteinstr. 11
21072 Stade
Germany*

Make oath and say that I was personally present and did see:

Juergen Eiffler

Who is/are personally known or identified to me to be the inventor(s) named in the attached assignment, duly sign and execute the same for the purposes therein stated.

Signed at: Stade

On this 5 day of February , 20 10

 A. Kokott
Subscribing Witness

This Form 881 is in the ENGLISH language and has the same meaning in other languages with the same 881 number.

•881 •882 •883 •884 •885 •886 •887 •888 •889 •890 •891 •892 •893 •894 •895 •896 •897 •898 •899 •900 •901 •902 •903 •904 •905 •906 •907 •908 •909 •910 •911 •912 •913 •914 •915 •916 •917 •918 •919 •920 •921 •922 •923 •924 •925 •926 •927 •928 •929 •930 •931 •932 •933 •934 •935 •936 •937 •938 •939 •940 •941 •942 •943 •944 •945 •946 •947 •948 •949 •950 •951 •952 •953 •954 •955 •956 •957 •958 •959 •960 •961 •962 •963 •964 •965 •966 •967 •968 •969 •970 •971 •972 •973 •974 •975 •976 •977 •978 •979 •980 •981 •982 •983 •984 •985 •986 •987 •988 •989 •990 •991 •992 •993 •994 •995 •996 •997 •998 •999

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FORM 881

Dow Case No. 69033

SUBSCRIBING WITNESS
AFFIDAVIT OF EXECUTION
OF AN ASSIGNMENT

I,

Whose full post office address is:

Jürgen Eiffler
Ystadweg 4
21682 Stade

Make oath and say that I was personally present and did see:

Manfred Kokott

Who is/are personally known or identified to me to be the inventor(s) named in the attached assignment, duly sign and execute the same for the purposes therein stated.

Signed at: Stade

On this 5 day of February, 2010

J. Eiffler
Subscribing Witness

This Assignment 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R/Date.

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FORM 110 (R 5/87)

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION (with Priority Rights)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: **ADIABATIC PLUG FLOW REACTORS AND PROCESSES INCORPORATING THE SAME**

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

Dow Deutschland GmbH & Co. OHG
Werk Stade
Postfach 11 20
21677 Butzflethersand
Germany

a corporation organized and existing under the laws of the State of **Germany** (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
61/250,023	October 9, 2009	United States of America

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we 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/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we 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.

Subscribed and Declared by me/us:

At: _____ this _____ day of _____, 20____ Effective as of October 9, 2009
Signature: _____ Full Name: Juergen Biffler Residence: Ystadweg 4 21682 Stade GERMANY Country: Germany Citizenship: Germany P.O. Address: Same as Residence Employed By: Dow Deutschland GmbH & Co. OHG Of Country: Germany

At: <i>D. Groenewald</i> this <i>10.</i> day of <i>February</i> , 20 <i>10</i> Effective as of October 9, 2009
Signature: <i>D. Groenewald</i> Full Name: Heinz Groenewald Residence: Butendiek 18 21714 Hammah GERMANY Country: Germany Citizenship: Germany P.O. Address: Same as Residence Employed By: Dow Deutschland GmbH & Co. OHG Of Country: Germany

At: _____ this _____ day of _____, 20____ Effective as of October 9, 2009
Signature: _____ Full Name: Manfred Kokott Residence: Vergissmeinnicht 13 21682 Stade GERMANY Country: Germany Citizenship: Germany P.O. Address: Same as Residence Employed By: Dow Deutschland GmbH & Co. OHG Of Country: Germany

At: _____ this _____ day of _____, 20____ Effective as of October 9, 2009
Signature: _____ Full Name: Thomas U. Luebbe Residence: Lemmermannweg 13 21684 Stade GERMANY Country: Germany Citizenship: Germany P.O. Address: Same as Residence Employed By: Dow Deutschland GmbH & Co. OHG Of Country: Germany

(X) Additional names and signatures are attached.

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FORM 881

Dow Case No. 69033

SUBSCRIBING WITNESS
AFFIDAVIT OF EXECUTION
OF AN ASSIGNMENT

I,

Whose full post office address is:

Friedrich Gerhardt
Hohenwedlar Weg 1
Stade

Make oath and say that I was personally present and did see:

Heinz Groenewald

Who is/are personally known or identified to me to be the inventor(s) named in the attached assignment, duly sign and execute the same for the purposes therein stated.

Signed at: Ohrensen

On this 10. day of February, 2010

F. G. M.
Subscribing Witness

This Form 881 is in the ENGLISH language and has the same meaning in other languages with the same 881 number.

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FORM 881

Dow Case No.

SUBSCRIBING WITNESS
AFFIDAVIT OF EXECUTION
OF AN ASSIGNMENT

I, VAN DONG NGUYEN

Whose full post office address is:

IM NEDWERK 21
21706 DROCHTERSEN
GERMANY

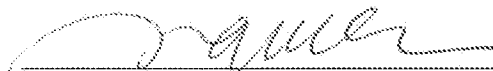
Make oath and say that I was personally present and did see:

Thomas U. Luebbe

Who is/are personally known or identified to me to be the inventor(s) named in the attached assignment, duly sign and execute the same for the purposes therein stated.

Signed at: Stade, 21677, Germany

On this 24 day of February, 20 10


Subscribing Witness

This Assignee Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number.



This Assignee Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number.

FORM 660

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **DOW DEUTSCHLAND GMBH & CO. OHG**
Werk Stade
Postfach 11 20
21677 Butzflethersand
Germany

hereby accept the ASSIGNMENT attached hereto which is dated: **February 5, 2010, February 8, 2010, February 10, 2010 and February 24, 2010**

From, the ASSIGNOR: Juergen Eiffler, Ystadweg 4, 21682 Stade, Germany, Citizen of Germany; Heinz Groenewald, Butendiek 18, 21714 Hammah, Germany, Citizen of Germany; Manfred Kokott, Vergissmeinnicht 13, 21682 Stade, Germany, Citizen of Germany; Thomas U. Luebbe, Lemmermannweg 13, 21684 Stade, Germany, Citizen of Germany; and Marcus Wobser, Haydnweg 1, 21682 Stade, Germany, Citizen of Germany

of the invention entitled:

ADIABATIC PLUG FLOW REACTORS AND PROCESSES INCORPORATING THE SAME
without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Midland, Michigan 48674, USA
this 18th day of June, 20 10

DOW DEUTSCHLAND GMBH & CO. OHG
CORP.
SEAL
By: Michael L. Glenn
MICHAEL L. GLENN
Authorized Representative

NOTARIAL CERTIFICATE (Corporation)

UNITED STATES OF AMERICA)
STATE OF MICHIGAN) SS
County/Parish of Midland)

On this 18th day of June, 20 10, personally appeared before me, **MICHAEL L. GLENN, Authorized Representative**, known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed by authority of the said Corporation incorporated under the laws of GERMANY.

I further certify that said authority, dated **June 30, 2004**, is based on
by authority of a **Power of Attorney**

which I have seen, appointing the said individual Authorized Representative with full power to sign the foregoing document on behalf of the said corporation and that the purposes for which said document is granted are within the scope of the objects or activities of said corporation.

Rebecca Sue Hollingshead
SEAL

Rebecca Sue Hollingshead
NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES NOVEMBER 25, 2012

PATENT