#### 502419505 07/15/2013

### PATENT ASSIGNMENT

### Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Reinhold J. Leyrer	06/07/2013
Ouidad Benlahmar	05/02/2013
Volodymyr Boyko	05/07/2013
Jules Mikhael	05/08/2013
Frank Huelskoetter	05/10/2013
Mark Robert Sivik	06/30/2013
Travis Kyle Hodgdon	06/27/2013
Jichun Shi	06/25/2013

#### **RECEIVING PARTY DATA**

Name:	BASF SE
Street Address:	Carl-Bosch-Strasse 38
City:	Ludwigshafen
State/Country:	FEDERAL REPUBLIC GERMANY
Postal Code:	67056

### PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13897821	

#### **CORRESPONDENCE DATA**

Fax Number: 3026585614

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 302-658-9141

Email: sara.maloney@novakdruce.com

Correspondent Name: NOVAK DRUCE CONNOLLY BOVE + QUIGG LLP

Address Line 1: 1007 North Orange Street

Address Line 2: P O BOX 2207

Address Line 4: WILMINGTON, DELAWARE 19899-2207

**PATENT** 

REEL: 030798 FRAME: 0010

F \$40.00 1389/8

502419505

ATTORNEY DOCKET NUMBER:	12810-01521-US
NAME OF SUBMITTER:	Daniel A. Rube
Signature:	/Daniel A. Rube/
Date:	07/15/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 8 source=Declaration_Assignment#page1.tif source=Declaration_Assignment#page2.tif source=Declaration_Assignment#page3.tif source=Declaration_Assignment#page4.tif source=Declaration_Assignment#page5.tif source=Declaration_Assignment#page6.tif source=Declaration_Assignment#page7.tif source=Declaration_Assignment#page8.tif	

PATENT REEL: 030798 FRAME: 0011

Title of Invention	
As the below r	named inventor, I hereby declare that:
This declaration	on [] The attached application, or
is directed to:	[x] United States application or PCT international application number 13/897821 filed on May 20, 20 3
The above-ide	entified 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.
(hereinafter reis desirous of	ASF SE having places of business at: 67056 Ludwigshafen, Germany, eferred 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 unto said ASS possessions a Convention ar entire right, tit States and its	EREFORE, in consideration of the sum of ONE DOLLAR (\$1.00), the receipt whereof is hereby I, and for other good and valuable consideration, I, by these presents do sell, assign and transfer SIGNEE(S), the full and exclusive right to the said invention in the United States and its territorial and in all foreign countries (including the right to claim priority under the terms of the International and other relevant International Treaties and Arrangements from the aforesaid application) and the term in and to any and all Letters Patent which may be granted therefor in the United at territorial possessions and in any and all foreign countries and in and to any and all divisions, inuations, substitutions and renewals thereof.
any and all for the assignee ASSIGNEE(S)	athorize and request the Patent Office Officials in the United States and its territorial possessions and reign 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 ally and entirely as the same would have been held by me had this Assignment and sale not been
respecting sa continuation, s and all of sai everything po	agree that I will communicate to said ASSIGNEE(S) or its (his) representatives any facts known to me aid invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any id Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths, and, generally do issible to aid said ASSIGNEE(S), its (his) successors and assigns, to obtain and enforce proper said invention in the United States and its territorial possessions and in any and all foreign countries.
	cknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. or imprisonment of not more than five (5) years, or both.
LEGAL NAME	E OF INVENTOR
Inventor: Re	einhold J. Leyrer  Date:
Signature:	leinhold J. Zym

PATENT Stand: 11/2012 REEL: 030798 FRAME: 0012

Invention	
As the below r	amed inventor, I hereby declare that:
This declaration	n []The attached application, or
is directed to:	[x] United States application or PCT international application number filed on May 20, 2013
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.
(hereinafter reis desirous of	ASF SE having places of business at: 67056 Ludwigshafen, Germany, 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 unto said ASS possessions a Convention ar entire right, tit States and its	REFORE, in consideration of the sum of ONE DOLLAR (\$1.00), the receipt whereof is hereby, and for other good and valuable consideration, I, by these presents do sell, assign and transfer SIGNEE(S), the full and exclusive right to the said invention in the United States and its territorial and in all foreign countries (including the right to claim priority under the terms of the International do other relevant International Treaties and Arrangements from the aforesaid application) and the le and interest in and to any and all Letters Patent which may be granted therefor in the United territorial possessions and in any and all foreign countries and in and to any and all divisions, nuations, 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 reign 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 lly and entirely as the same would have been held by me had this Assignment and sale not been
respecting sai 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, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any d Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths, and, generally do saible to aid said ASSIGNEE(S), its (his) successors and assigns, to obtain and enforce proper said invention in the United States and its territorial possessions and in any and all foreign countries.
	cknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. rimprisonment of not more than five (5) years, or both.
LEGAL NAME	OF INVENTOR
Inventor: Ou	uidad Benlahmar  Date: 1100/2013
Signature:	D. Rohama

Title of Invention	
As the below r	named inventor, I hereby declare that:
This declaration	on [] The attached application, or
is directed to:	[ $\chi$ ] United States application or PCT international application number $13/897821$ filed on May $20$ , $2013$
The above-ide	entified 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.
(hereinafter reis desirous of	ASF SE having places of business at: 67056 Ludwigshafen, Germany, eferred 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 unto said ASS possessions a Convention ar entire right, til States and its	EREFORE, in consideration of the sum of ONE DOLLAR (\$1.00), the receipt whereof is hereby d, and for other good and valuable consideration, I, by these presents do sell, assign and transfer SIGNEE(S), the full and exclusive right to the said invention in the United States and its territorial and in all foreign countries (including the right to claim priority under the terms of the International and other relevant International Treaties and Arrangements from the aforesaid application) and the tle and interest in and to any and all Letters Patent which may be granted therefor in the United at territorial possessions and in any and all foreign countries and in and to any and all divisions, inuations, substitutions and renewals thereof.
any and all fo the assignee ASSIGNEE(S)	athorize and request the Patent Office Officials in the United States and its territorial possessions and reign 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 ally and entirely as the same would have been held by me had this Assignment and sale not been
respecting sa continuation, s and all of sai everything po	agree that I will communicate to said ASSIGNEE(S) or its (his) representatives any facts known to me id invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any id Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths, and, generally do ssible to aid said ASSIGNEE(S), its (his) successors and assigns, to obtain and enforce proper said invention in the United States and its territorial possessions and in any and all foreign countries.
	cknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. or imprisonment of not more than five (5) years, or both.
LEGAL NAME	OF INVENTOR
Inventor: Vo	Date: 15.2013
Signature:	V. Bayke

PATENT Stand: 11/2012 REEL: 030798 FRAME: 0014

Title of Invention	
As the below n	named inventor, I hereby declare that:
This declaratio	on [] The attached application, or
is directed to:	[ $x$ ] United States application or PCT international application number $13/897821$ filed on May 20, 2013
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.
(hereinafter re is desirous of a	ASF SE having places of business at: 67056 Ludwigshafen, Germany, eferred to as "ASSIGNEE(S)") acquiring the entire right, title and interest in and to said invention and in and to any Letters Patengranted therefore in the United States and its territorial possessions and in any and all foreign
acknowledged unto said ASS possessions a Convention an entire right, titl States and its	EREFORE, in consideration of the sum of ONE DOLLAR (\$1.00), the receipt whereof is hereby and for other good and valuable consideration, I, by these presents do sell, assign and transfel SIGNEE(S), the full and exclusive right to the said invention in the United States and its territorial and in all foreign countries (including the right to claim priority under the terms of the International of the relevant International Treaties and Arrangements from the aforesaid application) and the later and interest in and to any and all Letters Patent which may be granted therefor in the United territorial possessions and in any and all foreign countries and in and to any and all divisions inuations, substitutions and renewals thereof.
any and all for the assignee ASSIGNEE(S)	Ithorize and request the Patent Office Officials in the United States and its territorial possessions and reign 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 ally and entirely as the same would have been held by me had this Assignment and sale not beer
respecting sail continuation, sand all of said everything pos	gree that I will communicate to said ASSIGNEE(S) or its (his) representatives any facts known to me id invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional substitute, renewal and reissue applications, execute all necessary assignment papers to cause any id Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths, and, generally do ssible to aid said ASSIGNEE(S), its (his) successors and assigns, to obtain and enforce prope said invention in the United States and its territorial possessions and in any and all foreign countries.
I hereby ac 1001 by fine or	cknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C or imprisonment of not more than five (5) years, or both.
LEGAL NAME	OF INVENTOR
Inventor: Ju	lles Mikhael Date: <u>08.05.2013</u>
Signature:	Like L

PATENT Stand: 11/2012 REEL: 030798 FRAME: 0015

Title of Invention
As the below named inventor, I hereby declare that:
This declaration [ ] The attached application, or
is directed to: [X] United States application or PCT international application number 13/897821 filed on May 20, 2013
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 having places of business at: 67056 Ludwigshafen, Germany, (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, in consideration of the sum of ONE DOLLAR (\$1.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, 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: Frank Huelskoetter Date: 10 Thi 2013
Signature: File William Land

PATENT Stand: 11/2012 REEL: 030798 FRAME: 0016

Title of Invention		
As the below n	named inventor, I hereby declare that:	
This declaratio	on [] The attached application, or	
is directed to:	<ul><li>[X] United States application or PCT international application number filed on 20th May 2013</li></ul>	13/897821
The above-ide	entified 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 i	n the application.
(hereinafter re is desirous of a	BASF SE having places of business at: 67056 Ludwigshafen, Germany, eferred to as "ASSIGNEE(S)") acquiring the entire right, title and interest in and to said invention and in granted therefore in the United States and its territorial possessions are	
acknowledged, unto said ASS possessions a Convention an entire right, titl States and its	EREFORE, in consideration of the sum of ONE DOLLAR (\$1.00), the red, and for other good and valuable consideration, I, by these presents do SIGNEE(S), the full and exclusive right to the said invention in the Uniterand in all foreign countries (including the right to claim priority under the not other relevant International Treaties and Arrangements from the aforest terms and in and to any and all Letters Patent which may be grant at territorial possessions and in any and all foreign countries and in and cinuations, substitutions and renewals thereof.	o sell, assign and transfer d States and its territorial terms of the International esaid application) and the ted therefor in the United
any and all for the assignee ASSIGNEE(S)	uthorize and request the Patent Office Officials in the United States and its breign countries to issue any and all of said Letters Patent, when granted, of my entire right, title and interest in and to the same, for the sole), its (his) successors and assigns, to the full end of the term for which sailly and entirely as the same would have been held by me had this Assignable.	to said ASSIGNEE(S) as use and behoof of said aid Letters Patent may be
respecting said continuation, s and all of said everything pos	agree that I will communicate to said ASSIGNEE(S) or its (his) representative id invention, and testify in any legal proceeding, sign all lawful paper substitute, renewal and reissue applications, execute all necessary assign id Letters Patent to be issued to said ASSIGNEE(S), make all rightful assible to aid said ASSIGNEE(S), its (his) successors and assigns, to o said invention in the United States and its territorial possessions and in any	s, execute all divisional, ment papers to cause any oaths, and, generally do btain and enforce proper
	cknowledge that any willful false statement made in this declaration is pu or imprisonment of not more than five (5) years, or both.	nishable under 18 U.S.C.
LEGAL NAME	OF INVENTOR	
Inventor: Ma	ark Robert Sivik	Date: 6/35/2013

PATENT Stand: 11/2012 REEL: 030798 FRAME: 0017

Title of Invention	
As the below r	named inventor, I hereby declare that:
This declaration	on []The attached application, or
is directed to:	<ul><li>[X] United States application or PCT international application number 13/897821 filed on 20th May 2013</li></ul>
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.
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acknowledged unto said ASS possessions a Convention ar entire right, tit States and its	EREFORE, in consideration of the sum of ONE DOLLAR (\$1.00), the receipt whereof is hereby, and for other good and valuable consideration, I, by these presents do sell, assign and transfer SIGNEE(S), the full and exclusive right to the said invention in the United States and its territorial and in all foreign countries (including the right to claim priority under the terms of the International and other relevant International Treaties and Arrangements from the aforesaid application) and the de and interest in and to any and all Letters Patent which may be granted therefor in the United a territorial possessions and in any and all foreign countries and in and to any and all divisions, inuations, substitutions and renewals thereof.
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respecting sai continuation, s and all of sai everything pos	gree that I will communicate to said ASSIGNEE(S) or its (his) representatives any facts known to me id invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any d Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths, and, generally do saible to aid said ASSIGNEE(S), its (his) successors and assigns, to obtain and enforce proper said invention in the United States and its territorial possessions and in any and all foreign countries.
1 hereby ac 1001 by fine o	cknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. r imprisonment of not more than five (5) years, or both.
LEGAL NAME	OF INVENTOR
Inventor: Tra	avis Kyle Hodgdon Date: 6/27/13
Signature:	- Rugh Haden

PATENT Stand: 11/2012 REEL: 030798 FRAME: 0018

Invention		. 이 전 등 전 경기 시간 등 시간 전 경기 전 경기 시간
As the below name	ned Inventor, I hereby declare that:	
This declaration	[ ] The attached application, or	
is directed to:	[X] United States application or PCT filed on 20th May 2013	international application number 13/897821
The above-identif	ied application was made or authorize	d to be made by me.
I believe that I am	ı the original inventor or an original joir	t inventor of a claimed invention in the application,
(hereinafter refer	F SE having places of business at: 67 red to as "ASSIGNEE(S)") quiring the entire right, title and interestant therefore in the United States :	056 Ludwigshafen, Germany, at in and to said invention and in and to any Letters Patent and its territorial possessions and in any and all foreign
acknowledged, at unto said ASSIG possessions and Convention and entire right, title a States and its te	nd for other good and valuable consi NEE(S), the full and exclusive right to in all foreign countries (including the other relevant international Treaties a and interest in and to any and all Le	of ONE DOLLAR (\$1.00), the receipt whereof is hereby deration, I, by these presents do sell, assign and transfer to the said invention in the United States and its territorial right to claim priority under the terms of the International and Arrangements from the aforesaid application) and the tters Patent which may be granted therefor in the United all foreign countries and in and to any and all divisions, eof.
the assignee of ASSIGNEE(S), its	in countries to issue any and all of sa my entire right, title and interest in s (his) successors and assigns, to the	cials in the United States and its territorial possessions and id Letters Patent, when granted, to said ASSIGNEE(S) as and to the same, for the sole use and behoof of said full end of the term for which said Letters Patent may be been held by me had this Assignment and sale not been
continuation, substant all of said Leverything possible.	invention, and testify in any legal p stitute, renewal and reissue application etters Patent to be issued to said / ole to aid said ASSIGNEE(S), its (his	GNEE(S) or its (his) representatives any facts known to me roceeding, sign all lawful papers, execute all divisional, as, execute all necessary assignment papers to cause any ASSIGNEE(S), make all rightful oaths, and, generally do s) successors and assigns, to obtain and enforce proper territorial possessions and in any and all foreign countries.
I hereby acknown 1001 by fine or im	owledge that any willful false stateme prisonment of not more than five (5) y	nt made in this declaration is punishable under 18 U.S.C. ears, or both.
LEGAL NAME OF	INVENTOR	
Inventor: Jighur	n Shi	Date: 6/25/28/3
	lanta Solo	

US Declaration - national - 250346

**RECORDED: 07/15/2013** 

Stand: 11/2012

PATENT REEL: 030798 FRAME: 0019