504693951 12/19/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4740673

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KLAUS FISCHER	02/10/2017
BENJAMIN NEHLS	02/21/2017
JUERGEN DESCHLER	05/29/2017
WALTER DOBLER	02/10/2017
ARNULF LAUTERBACH	02/20/2017
SABINE SCHLAUTMANN	02/13/2017

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15737551	

CORRESPONDENCE DATA

Fax Number: (302)467-4201

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: 3024674200

Email: shirley.brooks@dbr.com
Correspondent Name: GEOFFREY A. ZELLEY
Address Line 1: 222 DELAWARE AVENUE

Address Line 2: SUITE 1410

Address Line 4: WILMINGTON, DELAWARE 19801

ATTORNEY DOCKET NUMBER:	074012-0383(571922)
NAME OF SUBMITTER:	GEOFFREY A. ZELLEY
SIGNATURE:	/Geoffrey A. Zelley/
DATE SIGNED:	12/19/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

REEL: 044430 FRAME: 0413

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Total Attachments: 6 source=Assignment_Declarations#page1.tif source=Assignment_Declarations#page2.tif source=Assignment_Declarations#page3.tif source=Assignment_Declarations#page4.tif source=Assignment_Declarations#page5.tif source=Assignment_Declarations#page6.tif

Title of Invention

PREPARATION OF PANTOLACTONE

As the below named inventor, I hereby declare that:

This declaration

[] The attached application, or

is directed to:

[x] PCT international application number PCT/EP2016/063978 filed on

17 Jun 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: Klaus Fischer

Date: 10,02.2017

Signature:

Title of Invention

PREPARATION OF PANTOLACTONE

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This declaration

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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: Benjamin Nehls

Date: 21.02.2017

Signature:

ire: Bujan Delly

Title of Invention PREPARATION OF PANTOLACTONE

As the below named inventor, I hereby declare that:

This declaration

[] The attached application, or

is directed to:

[x] PCT international application number PCT/EP2016/063978 filed on

17 Jun 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.

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BASF SE

Carl-Bosch-Strasse 38

67056 Ludwigshafen am Rhein

Germany (Federal Republic of)

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

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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.

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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: Juergen Deschler

Date: 29.05.20/7

Signature:

Title of Invention	PREPARATION OF PANTOLACTONE
	arned inventor, I hereby declare that:
This declaratio	n [] The attached application, or
is directed to:	[x] PCT international application number PCT/EP2016/063978 filed on 17 Jun 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 prioril Arrangements Patent which n	EREFORE, 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 ty 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 in 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 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 all your entirely as the same would have been held by me had this Assignment and sale not been
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 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 d 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 said invention in the United States and its territorial possessions and in any and all foreign countries.
	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.
LEGAL NAME Inventor: Waite Signature:	OF INVENTOR or Dobler Date: 18. 10 / / Ro

Title of Invention	PREPARATION OF PANTOLACTONE	
As the below n	arned inventor, I hereby declare that	
This declaration	The attached application, or	
is directed to	[x] PCT international application number PCT/EP2016/063 17 Jun 2016	1978 filed on
The above-ider	offied application was made or authorized to be made by me	
I believe that I a	im the original inventor or an original joint inventor of a claimed	Invention in the application
is desirous of a	hafen am Rhein	ion and in and to any Letters Patent lessions and in any and all foreign
acknowledged, the said invention of the priority Arrangements of Patent which much the accountries and in the accigned of ASSIGNEE(S).	REFORE, for good and valuable consideration the receipt in the presents do assign and transfer unto said ASSIGN on in the United States and its territorial possessions and in all of under the terms of the International Convention and other room the aforesaid application) and the entire right, title and in all the granted therefor in the United States and its territorial posend to any and all divisions, reissues, continuations, substitutionize and request the Patent Office Officials in the United States and request the Patent Office o	IEE(S), the full and exclusive right to foreigh countries (including the right relevant international Treaties and interest in and to any and all Letters resessions and in any and all foreign ons and renewals thereof. The sole use and behoof of said or which said Letters Patent may be
respecting said continuation, su and all of said everything poss profection for sa	ree that I will communicate to said ASSIGNEE(S) or its (his) reginare the invention, and testify in any legal proceeding, sign all law belitute, renewal and reissue applications, execute all necessare Letters Patent to be issued to said ASSIGNEE(S), make a libie to aid said ASSIGNEE(S), its (his) successors and assignmention in the United States and its territorial possessions in	Mul papers, execute all divisional, siry assignment papers to cause any all rightful paths, and, generally do signs, to obtain and enforce proper and in any and all foreign countries.
Thereby ack 1001 by fine or (nowledge that any willful false statement made in this declars mpnsonment of not more than five (5) years, or both	alion is punishable under 18 U.S.C.
LEGAL NAME C Inventor: Amult I Signature		Date_2/20/17

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30	nvention	PREPARATION OF	PANTOLACTONE			
Α	s the below nan	ned inventor, I hereby	declare that:	***************************************		***************************************
T	his declaration	[] The attached ap	plication, or			
is	directed to:	[x] PCT international 17 Jun 2016	al application numbe	er PCT/EP2016/0639	178 filed on	
Т	he above-identif	ied application was m	ade or authorized to	be made by me.		
1	believe that I am	the original inventor	or an original joint ir	ventor of a claimed	invention in the applical	tion.
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tt tc A	cknowledged, I, ne said invention o claim priority irrangements fro ratent which may	by these presents do in the United States under the terms of the on the aforesaid apply be granted therefor i	assign and transfe and its territorial po ne International Co ication) and the en n the United States	r unto said ASSIGNI ssessions and in all nvention and other lire right, title and in and its territorial po	and sufficiency of which EE(S), the full and excloration for eight countries (inclurational interest in and to any arches and in any arches and renewals therecons and in and in and renewals therecons.	usive right to ding the right Treaties and nd all Letters nd all foreign
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1		owledge that any will aprisonment of not mo			ation is punishable und	er 18 U.S.C.
	EGAL NAME OF				Date: <u>43</u>	02.17
£	Signature:	<u> </u>	umee_			

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Title of

PATENT REEL: 044430 FRAME: 0420

RECORDED: 12/19/2017