504556388 09/20/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4603098

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAN UNGELENK	01/08/2016
PHILIPP GRUNE	01/12/2016
CHRISTIAN WALSDORFF	07/08/2016
JAN PABLO JOSCH	01/11/2016
MICHAEL BENDER	01/12/2016

RECEIVING PARTY DATA

Name:	BASF SE
Street Address:	
City:	LUDWIGSHAFEN
State/Country:	GERMANY
Postal Code:	67056
Name:	LINDE AG
Street Address:	DR. CARL VON LINDE STR. 6-14
City:	PULLACH
State/Country:	GERMANY
Postal Code:	82049

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15525330	

CORRESPONDENCE DATA

Fax Number: (302)351-6938

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email: amy.hamm@dbr.com

Correspondent Name: ASHLEY I. PEZZNER
Address Line 1: 222 DELAWARE AVE

Address Line 4: WILMINGTON, DELAWARE 19801

ATTORNEY DOCKET NUMBER:	074014-0671-US-562467
NAME OF SUBMITTER:	A

PATENT REEL: 043639 FRAME: 0478

504556388

SIGNATURE:	/Ashley I. Pezzner/
DATE SIGNED:	09/20/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 5	
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source=074014_0671_562467_Assignment#page2.tif	
source=074014_0671_562467_Assignment#page3.tif	
source=074014_0671_562467_Assignment#page4.tif	
source=074014_0671_562467_Assignment#page5.tif	

PATENT REEL: 043639 FRAME: 0479

Title of Invention	METHOD FOR PRODUCING 1,3-BUTADIENE BY DEHYDROGENATING N-BUTENES, A MATERIAL FLOW CONTAINING BUTANES AND 2-BUTENES BEING PROVIDED	
As the below n	amed inventor, I hereby declare that:	
This declaratio	n [] The attached application, or	
is directed to:	[] United States application or PCT international application number filed on	
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.	
and Linde AG having places (hereinafter re is desirous of	ASF SE having places of business at: 67056 Ludwigshafen, Germany, of business at: Dr. Carl von Linde Str. 6-14, 82049 Pullach, Germany, ferred to as "ASSIGNEE(S)") acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent granted therefore in the United States and its territorial possessions and in any and all foreign	
acknowledged the said invent to claim priorit Arrangements Patent which n	REFORE, for good and valuable consideration the receipt and sufficiency of which is hereby I, by these presents do assign and transfer unto said ASSIGNEE(S), the full and exclusive right to ion in the United States and its territorial possessions and in all foreign countries (including the right by under the terms of the International Convention and other relevant International Treaties and from the aforesaid application) and the entire right, title and interest in and to any and all Letters hay be granted therefor in the United States and its territorial possessions and in any and all foreign and to any and all divisions, reissues, continuations, substitutions and renewals thereof.	
any and all for the assignee ASSIGNEE(S)	thorize and request the Patent Office Officials in the United States and its territorial possessions and eign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE(S) as of my entire right, title and interest in and to the same, for the sole use and behoof of said, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be ly and entirely as the same would have been held by me had this Assignment and sale not been	
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 ac 1001 by fine or	knowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. imprisonment of not more than five (5) years, or both.	
LEGAL NAME	OF INVENTOR	
Inventor: Jar	Ungelenk Date: 2016-01-08	
Signature:/	Jan lyther	

PATENT/2012 REEL: 043639 FRAME: 0480

Title of Invention	METHOD FOR PRODUCING 1,3-BUTADIENE BY DEHYDROGENATING N-BUTENES, A MATERIAL FLOW CONTAINING BUTANES AND 2-BUTENES BEING PROVIDED
As the below r	named inventor, I hereby declare that:
This declaration	on [] The attached application, or
is directed to:	[] United States application or PCT international application number filed on
The above-ide	ntifled 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.
and Linde AG having places	ASF SE having places of business at: 67056 Ludwigshafen, Germany, of business at: Dr. Carl von Linde Str. 6-14, 82049 Pullach, 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 the said invent to claim priori Arrangements Patent which r	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 tion in the United States and its territorial possessions and in all foreign countries (including the right try 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 may 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 lly and entirely as the same would have been held by me had this Assignment and sale not been
respecting sail continuation, sand all of sail 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.
	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	OF INVENTOR
Inventor: Ph	ilipp Grüne Date: 2016 - 01 - 17
Signature:/	Philips /

Title of Invention	METHOD FOR PRODUCING 1,3-BUTADIENE BY DEHYDROGENATING N-BUTENES, A MATERIAL FLOW CONTAINING BUTANES AND 2-BUTENES BEING PROVIDED		
As the below n	amed inventor, I hereby declare that:		
This declaratio	n []The attached application, or		
is directed to:	[] United States application or PCT international application number filed on		
The above-ide	ntified application was made or authorized to be made by me.		
I believe that I	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, and Linde AG having places of business at: Dr. Carl von Linde Str. 6-14, 82049 Pullach, 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, 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.			
any and all for the assignee of ASSIGNEE(S),	thorize and request the Patent Office Officials in the United States and its territorial possessions and eign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE(S) as of my entire right, title and interest in and to the same, for the sole use and behoof of said its (his) successors and assigns, to the full end of the term for which said Letters Patent may be y and entirely as the same would have been held by me had this Assignment and sale not been		
respecting said continuation, so and all of said everything pos	pree that I will communicate to said ASSIGNEE(S) or its (his) representatives any facts known to me 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 Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths, and, generally do sible to aid said ASSIGNEE(S), its (his) successors and assigns, to obtain and enforce proper aid invention in the United States and its territorial possessions and in any and all foreign countries.		
I hereby 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: Chr	Date: 2016/01/08		

US Declaration - national - 250346

Title of Invention	METHOD FOR PRODUCING 1,3-BUTADIENE BY DEHYDROGENATING N CONTAINING BUTANES AND 2-BUTENES BEING PROVIDED	-BU'TENES, A MATERIAL FLOW
As the below r	named inventor, I hereby declare that:	
This declaration	tion []The attached application, or	
is directed to:	 [] United States application or PCT international application n filed on 	umber
The above-ide	lentified application was made or authorized to be made by me.	
I believe that I	I am the original inventor or an original joint inventor of a claimed inv	ention in the application.
and Linde AG having places	BASF SE having places of business at: 67056 Ludwigshafen, Germans of business at: Dr. Carl von Linde Str. 6-14, 82049 Pullach, German referred to as "ASSIGNEE(S)")	
is desirous of	f acquiring the entire right, title and interest in and to said invention granted therefore in the United States and its territorial possess	and in and to any Letters Patent ions and in any and all foreign
acknowledged the said invent to claim priorit Arrangements Patent which n	HEREFORE, for good and valuable consideration the receipt and d, I, by these presents do assign and transfer unto said ASSIGNEE (nation in the United States and its territorial possessions and in all foreity under the terms of the International Convention and other release from the aforesaid application) and the entire right, title and intermated by granted therefor in the United States and its territorial posses in and to any and all divisions, reissues, continuations, substitutions	(S), the full and exclusive right to eign countries (including the right evant International Treaties and est in and to any and all Letters essions and in any and all foreign
any and all for the assignee (ASSIGNEE(S),	outhorize and request the Patent Office Officials in the United States as preign countries to issue any and all of said Letters Patent, when great of my entire right, title and interest in and to the same, for the S), its (his) successors and assigns, to the full end of the term for we ully and entirely as the same would have been held by me had this	ranted, to said ASSIGNEE(S) as e sole use and behoof of said hich said Letters Patent may be
respecting said continuation, si and all of said everything pos	agree that I will communicate to said ASSIGNEE(S) or its (his) represaid invention, and testify in any legal proceeding, sign all lawful substitute, renewal and reissue applications, execute all necessary aid Letters Patent to be issued to said ASSIGNEE(S), make all rossible to aid said ASSIGNEE(S), its (his) successors and assigns said invention in the United States and its territorial possessions and	papers, execute all divisional, assignment papers to cause any ightful oaths, and, generally do s, to obtain and enforce proper
	acknowledge that any willful false statement made in this declaration or imprisonment of not more than five (5) years, or both.	n is punishable under 18 U,S.C.
LEGAL NAME	E OF INVENTOR	
Inventor: Jan	an Pablo Josch	Date: 2016/01/11
Signature:	411	

US Declaration - national - 250346

Title of Invention		
As the below n	amed inventor, I hereby declare that:	
This declaratio	n [] The attached application, or	
is directed to:	[] United States application or PCT international application number filed on	
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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any and all for the assignee of ASSIGNEE(S),	thorize and request the Patent Office Officials in the United States and its territorial possessions and eign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE(S) as of my entire right, title and interest in and to the same, for the sole use and behoof of said its (his) successors and assigns, to the full end of the term for which said Letters Patent may be ly and entirely as the same would have been held by me had this Assignment and sale not been	
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	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 OF INVENTOR		
Inventor: Mic	Date: 2016-01-12 Willowel Tenchs	
oignature	The course of th	

US Declaration - national - 250346