503964614 08/17/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4011269

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARIO BALENOVIC	07/25/2016
FELIX GOEBEL	07/25/2016
MATTHEW ALLEN SCHNEIDER	08/16/2016
MARTINA REICHERT	07/28/2016
FREDERIK DE SMET	08/01/2016
PETER ROSS	08/17/2016

RECEIVING PARTY DATA

Name:	FORD GLOBAL TECHNOLOGIES, LLC	
Street Address:	FAIRLANE PLAZA SOUTH, SUITE 800	
Internal Address:	330 TOWN CENTER DRIVE	
City:	DEARBORN	
State/Country:	MICHIGAN	
Postal Code:	48126	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15228590	

CORRESPONDENCE DATA

Fax Number: (503)459-4142

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: 503-459-4141
Email: enabnit@ahmrt.com

Correspondent Name: ALLEMAN HALL MCCOY RUSSELL & TUTTLE, LLP

Address Line 1: 806 S.W. BROADWAY, SUITE 600
Address Line 4: PORTLAND, OREGON 97205

ATTORNEY DOCKET NUMBER:	83691113
NAME OF SUBMITTER:	JIBEK ENABNIT
SIGNATURE:	/Jibek Enabnit/
DATE SIGNED:	08/17/2016

PATENT REEL: 039715 FRAME: 0493

503964614

Total Attachments: 6 source=Executed Assignment 83691113#page1.tif source=Executed Assignment 83691113#page2.tif source=Executed Assignment 83691113#page3.tif source=Executed Assignment 83691113#page4.tif

source=Executed Assignment 83691113#page5.tif source=Executed Assignment 83691113#page6.tif

Please direct all correspondence to customer number: 36865

Attorney Docket Number	er 836911	

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention	DUAL CATALYST I	HEATING	SYSTEM
This declaration is direct	od to:		
This deciaration is direct	su, cos:		
United	ached application, or States application or PCT international applicationfiled on	number the insertion	of the application filing date and
number into this form wh	sen they become known.)		
The above-identified app	lication was made or authorized to be made by me.		
I hereby state that I have including the claims.	e reviewed and understand the contents of the s	pecification in	the above-identified application,
I believe that I am the ori	ginal inventor or an original joint inventor of a clai	imed inventior	n in the application.
continuation-in-part app	o disclose information which is material to patental lications, material information which became a nal or PCT international filing date of the continuat	vailable betw	een the filing date of the prior
FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its st for the inventions and di name or names, or in my insert the serial/applica 15/228,590 Application No. 102015 successors, assigns or of inventions and discovericlaiming benefit of the applications.	nent agreement heretofore made or by contractual NOLOGIES, LLC, a Ford Motor Company subsidite, having its principal place of business at Dearby in the ASSIGNEE, its successors, assigns or other reign, in and to the inventions and discoveries in the accessors, assigns or other legal representatives to scoveries in any and all countries, entities and interpretation number and filing date of the application principal filing date of the application filing date of the application filing date and Interest and In	ary, organized orn, County or legal represe he above-idem make application of the ASSIC to receive I which cledit assign an uding any pronmental organ n-part, division.	I and existing by virtue of the laws of Wayne, and State of Michigan, ntutives, the entire right, title and tiffied invention including the right tions and to receive Letters Patent II organizations, in its or their own INEE or ASSIGNEE's attorney to Letters Patent herein: Serial No. aims priority to German Patent d set over to the ASSIGNEE, its visional applications, in and to the nizations including all applications onals, reexaminations and reissue
including applications for organizations, and to per	myseri, my heirs, successors, assigns or other legi- or Letters Patent of any and all kinds and in any a form any and all acts which the ASSIGNEE, its secure thereto the rights herein sold, assigned and se	and all countri successors, ass	les, entities and intergovernmental
And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.			
	at any willful false statement made in this declarations than five (5) years or both.	tion is punisha	able under 18 U.S.C. 1001 by fine
LEGAL NAME OF INV			grand Pringer (2000 by 1999) - 1990 by the College
Inventor: Mario Bi	ANALY.	Date:	
Signature:			
	a Sheet (PTO/SB/14 or equivalent), including naming the form for each additional inventor	ne entire invent	ive entity, must accompany this form

Attorney Docket Number	83691113	

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention	DUAL CATALYST HEATING SYSTEM		
This declaration is direct	ed for		
The att	ached application, or States application or PCT international application number filed on (1 hereby authorize the insertion of the application filing date and ten they become known.)		
	ficution was made or authorized to be made by me.		
	e reviewed and understand the contents of the specification in the above-identified application.		
I believe that I am the or	iginal inventor or an original joint inventor of a claimed invention in the application.		
continuation-in-part app	disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for liteations, material information which became available between the filing date of the prior national filing date of the continuation-in-part application.		
Pursuant to my employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD GLOBAL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Dearhorn, County of Wayne, and State of Michigan, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own name or names, or in my name, at its or their election (and I berehy authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the application to receive Letters Patent herein. Serial No. 15/228,590. Filing Date August 4,2016., which claims priority to German Patent Application No. 102015214906.4, filed August 5, 2018), and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue applications. And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental			
organizations, and to pe	of Letters rates, or any and at kinds and it mily the are continued to the rates of the representatives secure thereto the rights herein sold, assigned and set over.		
And I hereby represent a	and warrant that I have not granted any rights inconsistent with the rights granted herein.		
or imprisonment of not r	nat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine more than five (5) years or both.		
LEGAL NAME OF INV	ENTOR/		
<u> </u>	CDGR A A		
Signature:			
Note: An Application Dat	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, on form for each additional inventor.		

Please direct all correspondence to customer number: 36865

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ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

i tile of invention	DUAL CATALYST HEATING SYSTEM
This declaration is directed	ed to:
	ached application, or States application or PCT international application number 28,590 filed on <u>8/04/2016</u> , (I hereby authorize the insertion of the application filing date in when they become known.)
The above-identified app	lication was made or authorized to be made by me.
I hereby state that I have including the claims.	re reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the ori	ginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part app	disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for lications, material information which became available between the filling date of the prior nat or PCT international filling date of the continuation-in-part application.
FORD GLOBAL TECH of the State of Delaward hereinafter referred to as interest, domestic and for of the ASSIGNEE, its suffor the inventions and distance or names, or in my insert the serial/applicated 15/228,59 Application No. 102015 successors, assigns or oddingentions and discoverions	nent agreement heretofore made or by contractual obligation, I do sell, assign and set over unto NOLOGIES, LLC, a ford Motor Company subsidiary, organized and existing by virtue of the laws a having its principal place of business at Dearborn. County of Wayne, and State of Michigan, as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and reign, in and to the inventions and discoveries in the above-identified invention including the right accessors, assigns or other legal representatives to make applications and to receive Letters Patent scoveries in any and all countries, entities and intergovernmental organizations, in its or their own name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to be number and filing date of the application to receive Letters Patent herein: Serial No. Ohigh Date August 4,2016, which claims priority to German Patent 214906.4, filed August 5, 2015), and I hereby sell, assign and set over to the ASSIGNEE, its her legal representatives, all rights of priority, including any provisional applications, in and to the estin any and all countries, entities and intergovernmental organizations including all applications filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue
including applications to organizations, and to per	myself, my helis, successors, assigns or other legal representatives to execute any and all papers, or Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental form any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives ecure thereto the rights herein sold, assigned and set over.
And I hereby represent as	nd warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of not a	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine more than five (5) years or both.
LEGAL NAME OF INV Inventor: Mankey	ENTOR Allon-Schneiderz Date: 1/14,45/16,701/2
Signature:	111/1/
1/100	
Note: An Application Data Use an additional declaratio	i Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, in form for each additional inventor,

Attorney Docket Number	

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

# 369C 611 838 A C 838 583 88	DUAL CATALIST III	eating Statem
This declaration is direct	ed to:	
		umber ne insertion of the application filing date and
The above-identified app	lication was made or authorized to be made by me.	
I hereby state that I hav including the claims.	e reviewed and understand the contents of the spe-	cification in the above-identified application,
I believe that I am the ori	ginal inventor or an original joint inventor of a claim	ed invention in the application.
continuation-in-part app	disclose information which is material to patentabil lications, material information which became ava- ial or PCT international filing date of the continuation	ilable between the filing date of the prior
FORD GLOBAL TECHT of the State of Delaward hereinafter referred to as interest, domestic and for of the ASSIGNEE, its so for the inventions and diname or names, or in my insert the serial/applicated 15/228, 590 Application No. 102015 successors, assigns or oil inventions and discoverical statements and discoverical successors. And I hereby agree for the serial successors.	214906.4, filed August 5, 2015), and I hereby self- ner legal representatives, all rights of priority, includes in any and all countries, entities and intergoverna- filing date hereof, continuations, continuations-in- nyself, my heirs, successors, assigns or other legal	y, organized and existing by virtue of the laws in. County of Wayne, and State of Michigan, agal representatives, the entire right, title and above-identified invention including the right ake applications and to receive Letters Patent overnmental organizations, in its or their own as the ASSIGNEE or ASSIGNEE's attorney to be receive Letters Patent herein: Serial No., which claims priority to German Patent, assign and set over to the ASSIGNEE, its ing any provisional applications, in and to the nental organizations including all applications part, divisionals, reexaminations and reissue representatives to execute any and all papers,
organizations, and to per	r Letters Patent of any and all kinds and in any and form any and all acts which the ASSIGNEE, its succeure thereto the rights herein sold, assigned and set of	cessors, assigns or other legal representatives
And I hereby represent a	nd warrant that I have not granted any rights inconsis-	tent with the rights granted herein.
	at any willful false statement made in this declaration ore than five (5) years or both.	n is punishable under 18 U.S.C. 1001 by fine
LEGAL NAME OF INV	ENTOR	Date: 2807.2076
Inventor: <u>Martina</u>	Reichert // /	Date: <u>28.04.2076</u>
Signature:	<u>s mill</u>	
	Sheet (PTO/SB/14 or equivalent), including naming the	entire inventive entity, must accompany this form.

Please direct all correspondence to customer number: 36865

Attorney Docket N	lumber 83691113	
WITCHING FUNCTOR	100.00	—

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

The attached application, or United States application or PCT international application number United States application or PCT international application number Ilid on	Title of Invention	DUAL CATALYST HEATING SYSTEM
The attached application, or United States application or PCT international application number filed on the United States application or PCT international application number filed on the specification file application (I hereby authorize the insertion of the application (I hing date and number into this form when they become known.) The above-identified application was made or authorized to be made by me. I hereby state that I have reviewed and understand the contents of the specification in the above-identified application, including the claims. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I am aware of the duty to disclose information which is material to potentiability as defined in 37 C.F.B. 1.56, including the continuation-in-part applications, material information which became available between the Iffing date of the price application and the national or PCT international filing date of the continuation in-part application. Pursuant to my employment agreement heretofore made or by contractual obligation, I do sell, assign and set over sint FORD GLOBAL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by vittue of the laws of the State of Delavare, having its principal place of besiness at Dearborn. County of Wayne, and State of Michigan of the State of Delavare, having its principal place of besiness at Dearborn. County of Wayne, and State of Michigan of the ASSIGNISE, and also the inventions and discoveries in and to the inventions and discoveries to make applications and to receive Letters Paters for the inventions and discoveries in any and all countries, entities and intergovernmental organizations in claiming interest, dimensive and discoveries in any and all countries, entities and intergovernmental organizations and to the inventions and discoveries in any and all countries, onlines and intergovernmental organizations and to the inventions and discoveries in any and all countries, entities and interg	This declaration is direct	ed to:
I hereby state that I have reviewed and understand the contents of the specification in the above-identified application, including the claims. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I am aware of the daty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including the continuation-dispart applications, material information which became available between the filling date of the prior application and the national or PCT international filling date of the continuation-in-part application. Pursuant to my employment agraement heretofore made or by contractual obligation, I do sell, assign and set over that FORD GLOBAL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the law of the State of Delaware, having its principal place of business at Dearborn. County of Wayne, and State of Michigan hereinaler referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title uniforcest, dimension and invegles, in and to the inventions and discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Lettors Patter for the inventions and discoveries in any and all countries, emities and intergovernmental organizations, in its or their election (and 1 hereby authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filling date of the application to receive Letters Pattern therein. Serial No. 15/228, 590. Filing Date, Augusts, 4, 2016. Application No. 102015214906.4, filed August 5, 2015), and 1 hereby self, assign and set over to the ASSIGNEE's attorney to successors, assigns or other legal representatives and intergovernmental organizations including all applications. In any and all countries, entities and intergovernmental organizations including applications in my and all countries, ent	⊠ The at	tached application, or I States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and
I hereby state that I have reviewed and understand the contents of the specification in the above-identified application, including the claims. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I am aware of the daty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including the continuation-dispart applications, material information which became available between the filling date of the prior application and the national or PCT international filling date of the continuation-in-part application. Pursuant to my employment agraement heretofore made or by contractual obligation, I do sell, assign and set over that FORD GLOBAL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the law of the State of Delaware, having its principal place of business at Dearborn. County of Wayne, and State of Michigan hereinaler referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title uniforcest, dimension and invegles, in and to the inventions and discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Lettors Patter for the inventions and discoveries in any and all countries, emities and intergovernmental organizations, in its or their election (and 1 hereby authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filling date of the application to receive Letters Pattern therein. Serial No. 15/228, 590. Filing Date, Augusts, 4, 2016. Application No. 102015214906.4, filed August 5, 2015), and 1 hereby self, assign and set over to the ASSIGNEE's attorney to successors, assigns or other legal representatives and intergovernmental organizations including all applications. In any and all countries, entities and intergovernmental organizations including applications in my and all countries, ent	The above-identified app	dication was made or authorized to be made by me.
Lam aware of the daty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filling date of the prior application and the national or PCT international filing date of the continuation-in-part application. Pursuant to my emplayment agreement heretofore made or by contractual obligation, I do sell, assign and set over user FORD GLOBAL TECHNOL OGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the law of the State of Delaware, having its principal place of businesses at Dearborn, County of Waym, and State of Michigan ferreimaler referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified invention including the right for the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its of their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filling date of the application to receive Letters Patent herein: Serial No. 15/228, 590. Filing Date August 4, 2016. which claims priority to German Paten Application 86, 1020152149064, filled August 5, 2015), and I hereby sell, assign and set over to the ASSIGNEE's attorney to successors, assigns or other legal representatives, all rights of priority, including applications including all applications. And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all paper including applications for Letters Patent of any and all finds and in any and all countries, entities and intergovernmental organizations including all applications. And I hereby agree for myself, my heirs, successors, assigns or other legal representative to execute any and all acts which the ASSIGNEE, its successors, assigns or other	I hereby state that I ha	
continuation-in-part applications, material information Willing date of the continuation in-part application. Pursuant to my employment agreement heretofore made or by contractual obligation, I do sell, assign and set over untroffed to the Continuation of the State of Michigan of the State of Delaware, having its principal place of business at Dearborn. County of Wayne, and State of Michigan hereinafter rateried to us the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified invention including the righ fithe ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Pater for the inventions and discoveries in any and all countries, emities and intergovernmental organizations, in its or their own name, or name, or in my name, at its or their election (and 1 hereby authorize the ASSIGNEE or ASSIGNEE is autoracy to insent the serial/application number and filling date of the application to receive Letters Patent herein: Serial No. 15/228/590. Filling Date August 4, 2016. which claims priority to German Patent Application No. 1020132149064, filed August 5, 2015; and 1 hereby sell, assign and set over to the ASSIGNEE, is auccessors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations including all applications. And I hereby agree for myself, my hairs, successors, assigns or other legal representatives to execute any and all paper including applications for Letters Patent of any and all kinds and in any and all constries, entities and intergovernmental organizations and intergovernments organizations. And I hereby agree for myself, my hairs, successors, assigns or other legal representative may deem necessary to secure thereto the rights herein sold, assigned and set	I believe that I am the or	iginal inventor or an original joint inventor of a claimed invention in the application.
of the State of Delaware, having its principal place of business at Dearborn. County of Wayne, and State of Michigan hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Paters for the inventions and discoveries in any and all countries, emities and intergovernmental organizations in its or their own ame or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filling date of the application to receive Letters Patern herein: Serial No. 15/228, 590. Filling Date August 4, 2016. which claims priority to German Patern Application No. 1020152149064, filled August 5, 2013), and I hereby sell, assign and set over to the ASSIGNEE, it successors, assigns or other legal representatives, all rights of priority, including any provisional applications. In and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations including all applications. And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers metading applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernments of notaries, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives in organizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representative may deem necessary to secure thereto the rights herein sold, assigned and set over. And I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by the or imprisonment of not more than five (5) ye	a section with a few pages (40)	Michigan material information which became granded by west and the
organizations, and to perform any and all acts which the ASSIONEE, its successors, actigns to other regardly may deem necessary to secure thereto the rights herein sold, assigned and set over. And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein. I hereby acknowledge that any wiilful false statement made in this declaration is punishable under 18 U.S.C. 1001 by the or imprisonment of not more than live (5) years or both. LEGAL NAME OF INVENTOR Inventor: Frederik De Smet Signature: Note: An Application Osta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this for	FORD GLOBAL TECH of the State of Delawa hereinafter referred to interest, domestic and for the ASSIGNEE, its for the inventions and chance or names, or in minsent, the serial/application No. 10201 successors, assigns or inventions and discoverelating benefit of thapplications. And I hereby agree to	inologies, i.i.c., a food Motor Company substituty, organized, and each gree, having its principal place of business at Dearborn, County of Wayne, and State of Michigan as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and oreign, in and to the inventions and discoveries in the above-identified invention including the righ successors, assigns or other legal representatives to make applications and to receive Letters Paters liscoveries in any and all countries, emities and intergovernmental organizations, in its or their own mane, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to attorn number and filing date of the application to receive Letters Patent herein: Serial No 20, Filing Date August 4, 2016, which claims priority to German Paten 5214206.4, filed August 5, 2015), and I hereby sell, assign and set over to the ASSIGNEE, it where legal representatives, all rights of priority, including any provisional applications, in and to the interpretations of the priority including and provisional applications and reisson in any and all countries, entities and intergovernmental organizations including all application in myself, my hoirs, successors, assigns or other legal representatives to execute any and all propersons and page of the provisional applications and reisson and page of the provisional applications and reisson and page of the page o
t hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by the or imprisonment of not more than live (5) years or both. LEGAL NAME OF INVENTOR Inventor: Frederik De Smet Signature: Signature: Note: An Application Osta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this for	organizations, and to p may deem necessary to	secure thereto the rights herein sold, assigned and set over.
or imprisonment of not more than (ive (5) years or both. LEGAL NAME OF INVENTOR Inventor: Frederik De Smet Signature: Note: An Application Osta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form	A Company of the Comp	
LEGAL NAME OF INVENTOR Inventor: Frederik De Smet Signature: Signature: Note: An Application Osta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this from	t hereby acknowledge or imprisonment of not	that any willful fulse statement made in this declaration is punishable under 18 U.S.C. 1001 by the more than five (5) years or both.
Inventor: Frederik De Smet Signature: Note: An Application Osta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form	LEGAL NAME OF IN	A COMPANIENCE AND
Note: An Application Osta Sheet (PTO/SE/14 or equivalent), including naming the entire inventive entity, must accompany this for		
Note: An Application Oata Sheet (PTO/3h/14 or equivalent), including naming the entire inventive entity, must accompany this lists the an additional declaration from for each additional inventor.	1	
	Note: An Application D	sta Sheet (PTO/SE/14 or equivalent), including mining the entire inventive critity, must accompany this for tion form for each additional inventor

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ASSIGNMENT AND DECLARATION (27 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Little of Invention	DUAL CATALYST HEATING SYSTEM
Condecaration is directed to	
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The above identified application is	eas mode or authorized to be made by me
I Sentity state that I have resistant reclasting the classes	and and understand the contents of the specification in the above identified application.
I believe that I am the original ma	many or an arguma sound investor of a countred tractation in the application
	references which is material to patentiables as defined in \$7.0 kg. 1.56 sedanting for patential interception which is required as abstract the Direct Control of the Contr
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e approximation of the more than 12 CAL STANE OF SATISFAR inventor - 12 of Ross / 1 Square	

PATENT REEL: 039715 FRAME: 0500

RECORDED: 08/17/2016