

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6758875

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the INVENTOR'S NAME previously recorded on Reel 053251 Frame 0666. Assignor(s) hereby confirms the INVENTOR'S NAME.
CONVEYING PARTY DATA	
Name	Execution Date
THOMAS G. LEONE	03/30/2020
PETER C. MOILANEN	03/31/2020
XIAOGANG ZHANG	03/30/2020
JIANWEN JAMES YI	07/16/2020
STEVEN SCHWOCHERT	03/31/2020
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:	16933122
CORRESPONDENCE DATA	
Fax Number:	(971)271-8021
<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:	9712718020
Email:	finley@mccrus.com
Correspondent Name:	MCCOY RUSSELL LLP
Address Line 1:	1410 NW JOHNSON ST. SUITE 201
Address Line 4:	PORTLAND, OREGON 97209
ATTORNEY DOCKET NUMBER:	84247315
NAME OF SUBMITTER:	DAWSON FINLEY
SIGNATURE:	/Dawson Finley/
DATE SIGNED:	06/11/2021

Total Attachments: 10

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MARKED-UP

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6207976

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
THOMAS G. LEONE	03/30/2020
PETER C. MOILANEN	03/31/2020
XIAOGANG ZHANG	03/30/2020
JAMES YI JIANWEN JAMES YI	07/16/2020
STEVEN SCHWOCHERT	03/31/2020
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Internal Address:	330 TOWN CENTER DRIVE
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State/Country:	MICHIGAN
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Application Number:	16933122
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<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:	3603566094
Email:	mcnett@mccrus.com
Correspondent Name:	MCCOY RUSSELL LLP
Address Line 1:	806 SW BROADWAY SUITE 600
Address Line 4:	PORTLAND, OREGON 97205
ATTORNEY DOCKET NUMBER:	84247315
NAME OF SUBMITTER:	LUKAS MCNETT
SIGNATURE:	/Lukas McNett/
DATE SIGNED:	07/20/2020
Total Attachments: 5	

Please direct all correspondence to: 36865

Attorney Docket Number	84247315
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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)

Title of Invention	SYSTEMS AND METHODS FOR SPLIT LAMBDA CATALYST HEATING
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This declaration is directed to:

- ☒ The attached application, or
☐ United States application or PCT international application number
 _____ filed on _____. (I hereby authorize the insertion of the application filing date and
 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 patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior 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 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 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 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 hereby 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.

16/933,122, Filing Date July 20, 2020), 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 perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives 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 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: Thomas G. Leone

Date: 2020/03/30

Signature: Thomas A. Fore

Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional declaration form for each additional inventor.

~~PATENT~~

REEL: 056556 FRAME: 0502

Please direct all correspondence to: 36865

Attorney Docket Number 84247315

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

SYSTEMS AND METHODS FOR SPLIT LAMBDA CATALYST HEATING

This declaration is directed to:



The attached application, or
United States application or PCT international application number

_____ filed on _____. (I hereby authorize the insertion of the application filing date and number into this form when they become known.)

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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 perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein sold, assigned and set over.

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LEGAL NAME OF INVENTOR

Inventor: Peter C. Moilanen

Date: 3/31/2020

Signature: Peter C. Moilanen

Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional declaration form for each additional inventor.

Attorney Docket Number 84247315

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

SYSTEMS AND METHODS FOR SPLIT LAMBDA CATALYST
HEATING

This declaration is directed to:



The attached application, or



United States application or PCT international application number

_____ filed on _____. (I hereby authorize the insertion of the application filing date and
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continuation-in-part applications, material information which became available between the filing date of the prior
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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 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 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 hereby 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.
16/933,122, Filing Date July 20, 2020), 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 perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives
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 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: Xiaogang Zhang

Date: 3/30/2020

Signature: 

Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.
Use an additional declaration form for each additional inventor.

Please direct all correspondence to: 36864

Attorney Docket Number 84247115

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 **SYSTEMS AND METHODS FOR SPLIT LAMBDA CATALYST
HEATING**

This declaration is directed to:



The attached application, or
United States application or PCT International application number

(fill on _____) I hereby authorize the insertion of the application filing 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 understood 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.

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continuation-in-part applications, material information which became available between the filing date of the prior
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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 secure 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, or in my or their election (and I hereby 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.
16/933,122 Filing Date July 20, 2020) 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 herein, continuations, continuations-in-part, divisions,
re-examinations and revival 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 perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives
may deem necessary to secure therein 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 willful false statement made in this declaration is punishable under 18 U.S.C. 293 by fine
or imprisonment of not more than five (5) years or both.

LEGAL NAME OF INVENTOR

Inventor: ANDREW JAMES Date: 7/16/2020

Signature: [Signature]

Note: An Application Data Sheet (37 C.F.R. 1.51) is required including listing the other inventors, entity, and attorneys this form.
Use an additional declaration form for each additional inventor.

Attorney Docket Number 84247315

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 **SYSTEMS AND METHODS FOR SPLIT LAMBDA CATALYST HEATING**

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LEGAL NAME OF INVENTOR

Inventor: Steven Schwochert

Date: 3/31/2020

Signature: 

Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional declaration form for each additional inventor.

PATENT