PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2989339

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHANDRA SEKHAR JALLURI	08/09/2014
DAVID NORMAN DILLEY	08/09/2014
TREVOR LEROI HILL	08/11/2014
AMANDO JOSE SEBASTIAN	08/11/2014
MARK GODERIS	08/19/2014

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:	14463988

CORRESPONDENCE DATA

Fax Number: (313)322-7162

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: 248-358-4400

Email: brivard@brookskushman.com **Correspondent Name:** BROOKS KUSHMAN P.C./FGTL

Address Line 1: 1000 TOWN CENTER

Address Line 2: 22ND FLOOR

Address Line 4: SOUTHFIELD, MICHIGAN 48075-1238

ATTORNEY DOCKET NUMBER:	83435843
NAME OF SUBMITTER:	ADAM R. SOUTHWORTH
SIGNATURE:	/Adam R. Southworth/
DATE SIGNED:	08/20/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).

502942741 REEL: 033573 FRAME: 0088

PATENT

Total Attachments: 5 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

Please direct all correspondence to: 28395

Use an additional declaration form for each additional inventor.

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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	CNC THERMAL GROWTH CHARACTERIZATION
This declaration is direc	sted to:
☐ Unite	nttached application, or d States application or PCT international application number filed on,
The above-identified ap	plication was made or authorized to be made by me.
I hereby state that I he including the claims.	ive reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the o	riginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part ap	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for plications, material information which became available between the filing date of the prior onal or PCT international filing date of the continuation-in-part application.
of the State of Delaws hereinafter referred to interest, domestic and f of the ASSIGNEE, its for the inventions and chains or hame, or in minert the serial/applications, its successplications, in and to	Ament agreement heretofore made or by contractual obligation, I do sell, assign and set over unto INOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws re, 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 right successors, assigns or other legal representatives to make applications and to receive Letters Patent discoveries in any and all countries, entities and intergovernmental organizations, in its or their own many name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's entermy to ation number and filing date of the application to receive Letters Patent herein: Serial No.
including applications organizations, and to p	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental erform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives secure thereto the rights herein sold, assigned and set over.
And I hereby represent	and warmnt that I have not granted any rights inconsistent with the rights granted herein.
I hereby acknowledge or imprisonment of not LEGAL NAME OF IN	hat 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.
	Sakhar Jalluri Date: 8/9/2014
Signature: <u>S</u>	Chamela Selchay: //
Note: An Application 19	orn Shoot (BTN/CBI) of an abilipatory limited by manifes the gailer in antity matter than a section of the Com-

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×		ttached application, or d States application or PCT international application number filed on
The above-iden	tified ap	plication was made or authorized to be made by me.
I hereby state t including the cl		ve reviewed and understand the contents of the specification in the above-identified application,
I believe that I	ım the o	riginal inventor or an original joint inventor of a slaimed invention in the application.
continuation-in-	-part ap	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for plications, material information which became available between the filing date of the prior onal or PCT international filing date of the continuation-in-part application.
FORD GLOBA of the State of hereinafter refe interest, domest of the ASSIGN for the inventio name or names, insert the serie 14/463,98 ASSIGNEE, it applications, in including all a	I. TECK Delawa rred to a stic and fo EE, its a ns and d , or in m al/applic 88 8 succe and to t pplicatic	ment agreement heretofors made or by contractual obligation, I do sell, assign and set over unto INOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws re, having its principal place of business at Dearhorn, County of Wayne, and State of Michigan, is the ASSIONEE, 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 right nuccessors, assigns or other legal representatives to make applications and to receive Letters Patent discoveries in any and all countries, entities and intergovernmental organizations, in its or their own y name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's afformey to attorn number and filing date of the application to receive Letters Patent herein: Serial No. ———————————————————————————————————
including appli- organizations, a	cations i	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, or Leners Patent of any and all kinds and in any and all countries, entitles and intergovernmental perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives secure thereto the rights herein sold, assigned and set over.
And I hereby re	present	and warrant that I have not granted any rights inconsistent with the rights granted herein.
I hereby ackno-	wiedge t it of not	hat 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.
Signature:	David_I	Date: 8/9/19 Date: 8/9/19
		ts Sheet (PTO/SB/14 or equivalent), including agming the entire inventive entity, must accompany this form. Ion form for each additional inventor.

Attorney Docket Number	83435843

Title of Invention	CNC THERMAL GROWTH CHARACTERIZATION
This declaration is dire	cted to:
Ý The	attached application, or ed States application or PCT international application number filed on
The above-identified a	oplication was made or authorized to be made by me.
including the claims.	ave reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the	original inventor or an original joint inventor of a claimed invention in the application.
continuation-in-nart a	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for pplications, material information which became available between the filing date of the prior ional or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TEC of the State of Delaw hereinafter referred to interest, domestic and of the ASSIGNEE, its for the inventions and name or names, or in insert the serial/appli 14/463,988 ASSIGNEE, its succ	HNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws are, 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 foreign, in and to the inventions and discoveries in the above-identified invention including the right successors, assigns or other legal representatives to make applications and to receive Letters Patent discoveries in any and all countries, entities and intergovernmental organizations, in its or their own my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to cation number and filing date of the application to receive Letters Patent herein: Serial No. Filing Date August 20, 2014 August 20, 2014 August 20, 2014 The inventions and discoveries in any and all countries, entities and intergovernmental organizations ions claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, issue applications.
including applications	or myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives o secure thereto the rights herein sold, assigned and set over.
And I hereby represen	t 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 it more than five (5) years or both.
LEGAL NAME OF I	NVENTOR 2/ AUE/CI
Inventor: Trevoi	LeRoi Hill Date: 4674
Signature: Le	or Lefe fell
Note: An Application	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.
Use an additional declar	ation form for each additional inventor.

Attorney Docket Number	83435843

Title of Invention	CNC THERMAL GROWTH CHARACTERIZATION	
This declaration is directed to:		
1 1113 Geola aton 10 and		
T Hole	attached application, or ed States application or PCT international application number filed on	
	oplication was made or authorized to be made by me.	
I hereby state that I h including the claims.	ave reviewed and understand the contents of the specification in the above-identified application,	
}	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. 14/463,988 , Filing Date August 20, 2014 , 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 represen	t 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 I	NVENTOR 4 - 1	
Inventor: Aman	NVENTOR do Jose Sebastian Date: August 11, 2014	
Signature:	W. ba. L	
i		
Note: An Application	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form,	
Use an additional declar	ation form for each additional inventor.	

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Attorney Docket Number	1 83433843
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This declaration is direct	ed to:
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The above-identified app	plication was made or authorized to be made by me.
I hereby state that I have including the claims.	ve reviewed and understand the contents of the specification in the above-identified application,
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continuation-in-part app	o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for oblications, material information which became available between the filing date of the prior and or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its s for the inventions and d name or names, or in m insert the serial/applica 14/463.988 ASSIGNEE, its succes applications, in and to the	ment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto INOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws re, 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 right successors, assigns or other legal representatives to make applications and to receive Letters Patent iscoveries in any and all countries, entities and intergovernmental organizations, in its or their own y name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to ation number and filing date of the application to receive Letters Patent herein: Serial No. ———————————————————————————————————
including applications f	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental erform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives 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 to or imprisonment of not	hat 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 IN	VENTOR C/10/16
Inventor: Mark G	oderis Date: Of the
Signature:	
Note: An Application Da	ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.
I Use an additional declarati	on form for each additional inventor.

PATENT REEL: 033573 FRAME: 0094

RECORDED: 08/20/2014