503741638 03/17/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3788281

SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT			
NATURE OF CONVEYA	NCE:	ASSIGNMENT	ASSIGNMENT			
CONVEYING PARTY D	ΑΤΑ					
		Name		Execution Date		
PRASAD DEV HANUMALAGUTTI 03/09/2016						
MICHAEL W. DEGNER 03/09/2016						
EDWARD CHAN-JIUN	JIH			03/09/2016		
GUANGYIN LEI				03/09/2016		
FRANCO LEONARDI				03/15/2016		
RECEIVING PARTY DA	ATA					
Name:	FORD	GLOBAL TECHNOLOGIES, LLC				
Street Address:	FAIRLA	NE PLAZA SOUTH, SUITE 800				
Internal Address:	330 TO	WN CENTER DRIVE				
City:	DEARE	BORN				
State/Country:	місніе	BAN				
Postal Code:	10106	48126				
	40120					
PROPERTY NUMBERS		Number				
PROPERTY NUMBERS Property Type	S Total: 1	Number 15072731				
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This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 5	
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Attorney Docket Number 83628396

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		THERMAL VEHICLE	MANAGEMENT	ASSEMBLY	FOR	AN	ELECTRIFIED
This declaration is	directed	to:	·····	······	****************		·····
		ched applicatior States applicatio	n or PCT international a	pplication number		<u></u>	
The above-identifi	ed appli	cation was made	e or authorized to be mad	ie by me.			
I hereby state tha including the clain	t I have ns.	reviewed and	understand the contents	of the specificatior	in the a	sbove-i	dentified application,
I believe that I am	the orig	inal inventor or	an original joint invento	r of a claimed invent	ion in the	e applic	ation.
continuation-in-pa	rt appli	cations, materia	tion which is material to il information which b ttional filing date of the	ecame available be	tween th	he filin	R. 1.56, including for g date of the prior
FORD GLOBAL of the State of Da hereinafter referre interest, domestic of the ASSIGNEE for the inventions name or names, or insert the serial/a 15/072,7 ASSIGNEE, its s applications, in an	TECHN elaware, d to as and fore , its suc and disc in my r pplication 31 successo d to the lications	OLOGIES, LLC having its prin- the ASSIGNEE sign, in and to th cessors, assigns coveries in any a name, at its or the on number and , Filing Date rs, assigns or inventions and claiming bene	eretofore made or by co , a Ford Motor Compan- cipal place of business , its successors, assigns is successors, assigns is inventions and discove or other legal represent mind all countries, entities their election (and I heret filing date of the ap te <u>March 17, 2</u> other legal represent discoveries in any and a fit of the filing date h	y subsidiary, organizat Dearborn, Count or other legal repre- eries in the above-id atives to make appli- sand intergovernme by authorize the ASS plication to receive 2016), and I he ives, all rights of ll countries, entities	zed and e y of Way sentative entified i ications a ntal organ SIGNEE e Letters reby sell priority, and inter	xisting yne, and is, the o invention nization or ASS Patent , assign includ govern	by virtue of the laws d State of Michigan, entire right, title and on including the right eccive Letters Patent os, in its or their own IGNEE's attorney to t herein: Serial No. 1 and set over to the ing any provisional mental organizations
including applications, and	ions for to perfe	Letters Patent c orm any and all	successors, assigns or c of any and all kinds and acts which the ASSIGN ights herein sold, assign	in any and all cour EE, its successors,	ntries, ent	tities ar	d intergovernmental
And I hereby repre	sent and	l warrant that I h	ave not granted any righ	ts inconsistent with	the rights	s grante	d herein.
or imprisonment o	f not mo	re than five (5)	e statement made in this years or both.	s declaration is puni	shable ur	nder 18	U.S.C. 1001 by fine
LEGAL NAME O Inventor: Pra		NTOR Hanumalagutt	;	Physics		2 4	2014
Signature:		<u>, Dev V</u>	***************************************	Date:			<u>(</u>
Note: An Applicatio Use an additional de	on Data S claration	sheet (PTO/SB/14 form for each add	or equivalent), including itional inventor.	naming the entire invo	entive enti	ty, musi	accompany this form.

PATENT REEL: 038013 FRAME: 0556

Attorney Docket Number 83628396

1.

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)

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Title of Invention	THERMAL VEHICLE	MANAGEMENT	ASSEMBLY	FOR	AN	ELECTRIFIED		
This declaration is direct	This declaration is directed to:							
X Theat	tached application	:						
		n or PCT international ap	polication number					
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The above-identified app	dication was made							
I hereby state that I has including the claims.	e reviewed and i	understand the contents	of the specification	i in the al	bove-ii	dentified application,		
I believe that I am the or	iginal inventor or	an original joint inventor	of a claimed inven	tion in the	applic	ation.		
I am aware of the duty to continuation-in-part app application and the natio	dications, materic	d information which b	ecame available b	etween th	e filin	 1.36, including for g date of the prior 		
Pursuant to my employ 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 di name or names, or in my insert the serial/applica 15/072,731 ASSIGNEE, its succes applications, in and to th including all applicatio reexaminations and reiss	NOLOGIES, LLC e, having its prin s the ASSIGNEE reign, in and to th uccessors, assigns iscoveries in any <i>i</i> y name, at its or th tion number and , Filing Da sors, assigns or te inventions and ns claiming bene	2, a Ford Motor Compan cipal place of business , its successors, assigns are inventions and discov- or other legal represent and all countries, entities neir election (and I herel I filing date of the ap te <u>March 17</u> , other legal representat discoveries in any and a	y subsidiary, organi at Dearborn, Count or other legal repr eries in the above-is atives to make appl and intergovernme by authorize the AS plication to receiv 2016), and I b ives, all rights of ll countries, entities	zed and ex y of Way esentative: lentified in ications au mtal orgar SIGNEE (e Letters creby sell, priority, and inter	xisting ne, and s, the invention nd to r sization or ASS Patent assign includ govern	by virtue of the laws d State of Michigan, entire right, title and on including the right eccive Letters Patent is, in its or their own IGNEE's attorney to t herein: Serial No. and set over to the ling any provisional mental organizations		
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 a	nd warrant that I l	nave not granted any righ	its inconsistent with	the rights	grante	ad 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 INV	'ENTOR			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		in a stat		
	W. Degner		Date:	<u></u>	7/22	C21.6e		
Signature:	Cael Al.							
Note: An Application Dat Use an additional declaration	a Sheet (PTO/SB/I m form for each add	4 or equivalent), including litional inventor.	naming the entire inv	entive entit	ty, mus	t accompany this form.		

PATENT REEL: 038013 FRAME: 0557

Attorney Docket Number 83628396

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	o n	THERMAL VEHICLE	MANAGEMENT	ASSEMBLY	FOR	AN	ELECTRIFIED
This declaration is	direct	ed to:					
		ached applicatio States applicatio	on or PCT international a	pplication number			
The above-identif	ied app	lication was mad	le or authorized to be ma	de by me.			
I hereby state that including the clair		e reviewed and	understand the contents	of the specification	n in the a	ibove-i	dentified application,
I believe that I am	the ori	ginal inventor or	an original joint invento	r of a claimed inven	tion in the	e applic	ation.
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including applicat organizations, and	tions fo I to per	r Letters Patent form any and al	, successors, assigns or of any and all kinds and l acts which the ASSIGI rights herein sold, assign	1 in any and all cou VEE, its successors,	ntries, en	tities a	nd intergovernmental
And I hereby repr	esent a	nd warrant that I	have not granted any rig	hts inconsistent with	the rights	s grante	ed herein.
I hereby acknowle or imprisonment c			lse statement made in th	is declaration is pun	ishable ui	nder 18	U.S.C. 1001 by fine
LEGAL NAME C			yours or boun			101	t and
		han-Jiun Jih/		Date:	3	14/	2016
Signature:	Ed	ward	c.7N			7	
Note: An Applicat Use an additional de			14 or equivalent), including iditional inventor.	naming the entire inv	entive ent	ity, mus	at accompany this form.

PATENT REEL: 038013 FRAME: 0558 Δi

Attorney Docket Number 83628396

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 Inven	tion	THERMAL	MANAGEMENT	ASSEMBLY	FOR	AN	ELECTRIFIED
This declaration	is direc	~~~~~	••••••••••••••••••••••••••••••••••••••				
Č		ttached application d States applicatio	n or PCT international a	pplication number		·······.*	
The above-ident	ified ap	plication was made	e or authorized to be ma	de by me.			
I hereby state the including the cla		we reviewed and	understand the contents	of the specificatio	n in the a	ibove-i	dentified application,
I believe that I a	m the o	riginal inventor or	an original joint invento	r of a claimed inven	tion in the	e applic	ation.
continuation-in-	part ap	plications, materia	ation which is material t al information which t ational filing date of the	ecame available b	etween tl	he filir	
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And I hereby rep	oresent	and warrant that I i	nave not granted any rig	hts inconsistent with	the right:	s grante	ed herein.
		hat any willful fak more than five (5)	se statement made in thi vears or both.	is declaration is pun	ishable u	nder 18	U.S.C. 1001 by fine
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PATENT REEL: 038013 FRAME: 0559 4

Please direct all correspondence to: 28395

Attorney Docket Number | 83628396

PATENT REEL: 038013 FRAME: 0560

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	THERMAL	MANAGEMENT	ASSEMBLY	FOR AN	ELECTRIFIED
This declaration is dir					
🗌 Un	e attached application ited States applicatio	n or PCT international a	oplication number		
The above-identified	application was made	or authorized to be mad	le by me.		
I hereby state that I including the claims.	have reviewed and i	understand the contents	of the specificatior	i in the above	-identified application,
I believe that I am the	original inventor or	an original joint invento	of a claimed invent	ion in the appl	lication.
communication-in-part	opplications, materia	tion which is material to I information which b ttional filing date of the o	ecame available be	tween the fil	R. 1.56, including for ing date of the prior
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 15/072,73 ASSIGNEE, its succe applications, in and to including all applicat reexaminations and re	ANOLOGIES, LLC are, having its prince as the ASSIGNEE, foreign, in and to the successors, assigns discoveries in any a my name, at its or the cation number and <u>1</u> , Filing Dat essors, assigns or the inventions and c ions claiming beneficially successions.	eretofore made or by cc , a Ford Motor Compan- ipal place of business in its successors, assigns e inventions and discover or other legal representa- nd all countries, entities eir election (and I hereb filing date of the app <u>e March 17, 2</u> other legal representati liscoveries in any and al fit of the filing date h	y subsidiary, organiz at Dearborn, County or other legal repre- ries in the above-id attives to make appli- and intergovernmen y authorize the ASS plication to receive 2016), and I he ves, all rights of I countries, entities ereof, continuations	red and existin of Wayne, a sentatives, that entified invent cations and to otal organizati- HGNEE or AS E Letters Pate reby sell, assi priority, inclu- and intergover s, continuation	g by virtue of the laws and State of Michigan, sentire right, title and tion including the right receive Letters Patent ons, in its or their own (SIGNEE's attorney to nt herein: Serial No. gn and set over to the iding any provisional mmental organizations is-in-part, divisionals,
organizations, and to p	for Letters Patent operform any and all a	successors, assigns or o f any and all kinds and acts which the ASSIGN ghts herein sold, assigne	in any and all coun FE its successors a	tries entities	and internavormenental
And I hereby represent	and warrant that I h	ave not granted any right	s inconsistent with t	he rights gran	ted herein.
or imprisonment of no	more than five (5) y	e statement made in this ears or both.	dectaration is punis	hable under 1	8 U.S.C. 1001 by fine
LEGAL NAME OF IN Inventor: Franco	VENTOR Leonardi		Date:	3-15	
Signature:	yever :				
Note: An Application D Use an additional declara	ata Sheet (PTO/SB/14 tion form for each addi	or equivalent), including n tional inventor.	aming the entire inve	ntive entity, mu	st accompany this form.
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