507023757 12/13/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7070592

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date					
JAMIL M. ALWAN	11/16/2021					
SUDIP SANKAR BHATTACHARJEE	11/17/2021					
PETROS FRANTZESKAKIS	11/22/2021					
DJAMAL EDDINE MIDOUN	11/16/2021					
NATHAN KRISTOFOR TARDIF	11/16/2021					

RECEIVING PARTY DATA

Name:	FORD MOTOR COMPANY
Street Address:	ONE AMERICAN ROAD
City:	DEARBORN
State/Country:	MICHIGAN
Postal Code:	48126

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17544177

CORRESPONDENCE DATA

Fax Number:

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: docketing@burrisiplaw.com

Correspondent Name: BURRIS LAW PLLC

Address Line 1: 300 RIVER PLACE DRIVE

Address Line 2: SUITE 1775

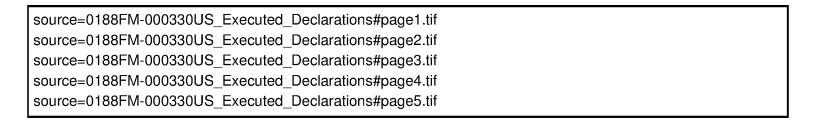
Address Line 4: DETROIT, MICHIGAN 48207

ATTORNEY DOCKET NUMBER:	84417034
NAME OF SUBMITTER:	ROBERT VOAKES
SIGNATURE:	/Robert Voakes/
DATE SIGNED:	12/13/2021
	This document serves as an Oath/Declaration (37 CFR 1.63).
	•

Total Attachments: 5

PATENT REEL: 058372 FRAME: 0970

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PATENT REEL: 058372 FRAME: 0971

Attorney Docket Number 84417034
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 HYBRID CAST VEHICLE ASSEMBLY WITH STRUCTURAL
REINFORCEMENTS
This declaration is directed to:
The attached application, or
17/544177 United States application or PCT international application number filed on12/07/2021 (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 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. I.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 MOTOR COMPANY, 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
), 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 (3) years or both.
LEGAL NAME OF INVENTOR
Inventor: Jamil M. Alwan Bate: 11/16/2021
Signature: /Jamil Alwan/
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.
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Attorney Docket Number	84417034			
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	ICATION USING AN			
Title of Invention	HYBRID CAST V REINFORCEMENTS	EHICLE ASSEN	IBLY WITH	STRUCTURAL
This declaration is directe	d to:			
		ternational application made (I hereby authorize the		lication filing date and
The above-identified appl	ication was made or authoriz	zed to be made by me.		
I hereby state that I have including the claims.	reviewed and understand th	e contents of the specifi	cation in the above-	-identified application,
I believe that I am the orig	ginal inventor or an original j	joint inventor of a claime	ed invention in the a	pplication.
for continuation-in-part a	disclose information which pplications, material informa al or PCT international filing	ation which became ava	ilable between the f	filing date of the prior
FORD MOTOR COMPA place of business at Dear successors, assigns or oth inventions and discoveries or other legal representation and all countries, entities or their election (and I he and filing date of the applementation) legal representatives, all discoveries in any and all discoveries are presentatives.	ent agreement heretofore ma NY, organized and existing born, County of Wayne, and her legal representatives, the is in the above-identified inve- ves to make applications and and intergovernmental organ reby authorize the ASSIGNE lication to receive Letters Par), and I hereby sell, ass rights of priority, including Il countries, entities and inter- ate hereof, continuations,	by virtue of the laws of a state of Michigan, her entire right, title and intention including the right to receive Letters Paternizations, in its or their of EE or ASSIGNEE's attortent herein: Serial Noign and set over to the Ang any provisional appergovernmental organizations.	the State of Delawar einafter referred to terest, domestic and of the ASSIGNEE, at for the inventions own name or names mey to insert the ser assignee, its successifications, in and the actions including all	re, having its principal as the ASSIGNEE, its I foreign, in and to the its successors, assigns and discoveries in any or in my name, at its ital/application number, Filing Date essors, assigns or other to the inventions and applications claiming
including applications for organizations, and to po	yself, my heirs, successors, a Letters Patent of any and all erform any and all acts v necessary to secure thereto t	I kinds and in any and al which the ASSIGNEE,	l countries, entities its successors, as	and intergovernmental
And I hereby represent an	d warrant that I have not gra	nted any rights inconsist	ent with the rights g	ranted herein.
fine or imprisonment of no	nt any willful false statement ot more than five (5) years or		on is punishable und	der 18 U.S.C. 1001 by
LEGAL NAME OF INVE	ENTOR kar Bhattacharjee		Date:	Nov 17, 2021

Signature:

/Sudip Sankar Bhattacharjee/

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 Numb	er 84417034				
ASSIGNMENT A	ND DECLARATIO?	N (37 C.F.R. 1.63) FOR AN APPLICATION DA			
Title of Invention	HYBRID CAST REINFORCEMEN	VEHICLE ASSEM ITS	IBLY	WITH STRU	CTURAL
This declaration is direc	ited to:	•••••			
17/544177 Visite		T international application nu 21 (I hereby authorize the i		of the application fi	iling date and
The above-identified ap	plication was made or auti	orized to be made by me.			
I hereby state that I have including the claims.	ve reviewed and understan	d the contents of the specific	ation in	the above-identifies	i application,
I believe that I am the o	niginal inventor or an onigi	nal joint inventor of a claimer	d inventi	on in the application	3 .
for continuation-in-part	applications, material info	nich is material to patentabilit ormation which became avail iling date of the continuation-	lable bet	tween the filing dat	
FORD MOTOR COMI place of business at De successors, assigns or e inventions and discover or other legal represent and all countries, entiti- or their election (and I and filing date of the ap- legal representatives, discoveries in any and	ANY, organized and exist arborn, County of Wayne, other legal representatives, ies in the above-identified atives to make applications and intergovernmental chereby authorize the ASSI splication to receive Letter	e made or by contractual obli- ing by virtue of the laws of the and State of Michigan, here the entire right, title and inte- invention including the right- and to receive Letters Patent organizations, in its or their of GNEE or ASSIGNEE's attorn is Patent herein: Serial No	ie State inafter r erest, do of the A: for the win name iey to in sSIGNE ications itions ins	of Delaware, having eferred to as the Asmestic and foreign, SSIGNEE, its successors, as the section and to the including all applicationing all applications as the section and to the including all applications.	g its principal SSIGNEE, its in and to the score, assigns everies in any y name, at its ation number _, Filing Date signs or other ventions and one claiming
including applications is organizations, and to	or Lettern Patent of any an perform any and all as	es, assigns or other legal repr d all kinds and in any and all its which the ASSIGNEE, eto the rights herein sold, assi	itz arre- communic	es, entities and inter cessors, assigns os	governmental
And I hereby represent	and warrant that I have not	granted any rights inconsiste	nt with t	he rights granted he	sem.
	înot more than five (5) yez	ment made in this declaration	is puni	ishable under 18 U.	S.C. 1001 by
	rantzenkakin		Date:	11/22/2021	
Signature: /Peter I	Frantzeskakis/				

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

> PATENT REEL: 058372 FRAME: 0974

Afformey Docket Numb	er 84417034			
ASSIGNMENT A	ND DECLARATION (37 LICATION USING AN A			
Title of Invention	HYBRID CAST VE REINFORCEMENTS	WITH STRUCTURAL		
This declaration is direc	sted to:		************	
17/544177 Ensk	ittached application, or d States application or PCT inter filed on12/07/2021 (when they become known.)			of the application filing date and
The above-identified ap	plication was made or authorize:	i to be made by me.		
I hereby state that I has including the claims.	re reviewed and understand the	contents of the specifica	tion in t	he above-identified application,
I believe that I am the o	ngmai inventor or an original joi	nt inventor of a claimed	inventio	n in the application.
for continuation-in-part	to disclose information which is applications, material informational or PCT international filing o	on which became availa	ible beta	reen the filing date of the prior
FORD MOTOR COMP place of business at De successors, assigns or a inventions and discover or other legal represents and all countries, entiti- or their election (and I I and filing date of the ap legal representatives, a discoveries in any and benefit of the filing applications.	all rights of priority, including all countries, entities and inter date hereof, continuations, c	virtue of the laws of the state of Michigan, hereis after eight, title and intersion including the right of receive Letters Patent trations, in its or their own or ASSIGNEE's attorned the herein. Serial No	e State or mafter reduced, dome of the AS: for the imperor masses by to ince SIGNEE cations, come inches visionals	f Delaware, having its principal ferred to as the ASSIGNEE, its sectic and foreign, in and to the SIGNEE, its successors, assigns eventions and discoveries in any or names, or in my name, at its ext the serial/application number. Filing Date, its successors, assigns or other in and to the inventions and uding all applications claiming reexaminations and reissue.
including applications forganizations, and to	myself, my heirs, successors, as: for Letters Patent of any and all is perform any and all acts when necessary to secure thereto the	inds and in any and all out the ASSIGNEE, i	countries išs succe	, entities and intergovernmental errors, assigns or other legal
And I hereby represent	and warrant that I have not grant	ed any rights inconsisten	t with th	e rights granted herein.
	inot more than five (5) years or \S		is punis	hable under 18 U.S.C. 1001 by
Inventor: <u>Djamal l</u>	Eddine Midoun		Date:	11/16/2021

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.

Signature: /Djamal Midoun/

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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 HYBRID CAST VEHICLE ASSEMBLY WITH STRUCTURAL REINFORCEMENTS

This declaration is directed to:

The attached application, or

17/544177

United States application or PCT international application number

filed on 12/07/2021. (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 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.

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: Nathan Kristofor Tardif Date: 16-Nov-2021

Signature: /Nathan Tardif/

RECORDED: 12/13/2021

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: 058372 FRAME: 0976