PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5383701

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WASIM UKRA	01/31/2019
JOSHUA L. WALSH	01/31/2019
ERIK R. ANDERSEN	01/31/2019
HERBERT MEINGAST	01/31/2019

RECEIVING PARTY DATA

Name:	TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.
Street Address:	6565 HEADQUARTERS DRIVE
Internal Address:	W1-3C
City:	PLANO
State/Country:	TEXAS
Postal Code:	75024

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16264295

CORRESPONDENCE DATA

Fax Number: (214)200-0853

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: [214] 651-5000

Email: effei.dah@haynesboone.com **Correspondent Name:** HAYNES AND BOONE, LLP Address Line 1: 2323 VICTORY AVENUE

SUITE 700 Address Line 2:

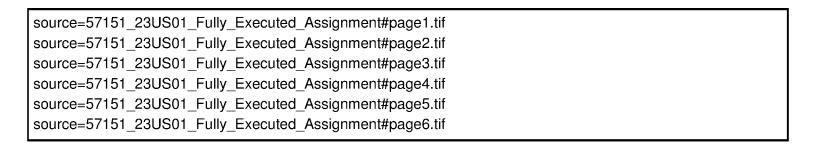
Address Line 4: DALLAS, TEXAS 75219

ATTORNEY DOCKET NUMBER:	57151.23US01/2018-1158
NAME OF SUBMITTER:	EFFEI DAH
SIGNATURE:	/Effei Dah/
DATE SIGNED:	02/20/2019

Total Attachments: 6

PATENT REEL: 048383 FRAME: 0642

505336920



ASSIGNMENT

WHEREAS.

Wasim Ukra, a citizen of the United States of America;

Joshua L. Walsh, a citizen of the United States of America;

Erik R. Andersen, a citizen of the United States of America; and

Herbert Meingast, a citizen of the United States of America;

each an	ASSIGNO	DR, is an i	inventor of	the invention	in TAILGATE	WITH	MASS	AND
PERFOR	RMANCE	OPTIMIZ	ED REINF	FORCEMENT	STRUCTUR	E , for	which	an
application	on for a Pa	atent of th	e United St	tates was file	no b	***********	, 2019	9, as
U.S. App	olication N	Vo						

WHEREAS, **TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.** (ASSIGNEE), with offices located at 6565 Headquarters Drive W1-3C, Plano, Texas 75024, is desirous of obtaining each inventor's entire right, title, and interest in, to and under said invention, the said application and corresponding applications worldwide;

NOW, THEREFORE, in exchange for good and valuable consideration to the inventor, the receipt and sufficiency of which is hereby acknowledged, the ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, his or her entire, worldwide right, title and interest in, to and under the invention, including the above United States non-provisional application embodying the invention or any other United States application to which priority is claimed under 35 U.S.C. § 119 and to any application to which priority is claimed, or claiming priority to the application noted above, under 35 U.S.C. § 120, including all divisions, continuations, and continuations-in-part thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries other than the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for the

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invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof, the same to be held and enjoyed by the ASSIGNEE, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this sale and assignment not been made;

And ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

And ASSIGNOR hereby covenants and agrees that he or she has the full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement in conflict herewith;

And ASSIGNOR hereby further covenants and agrees that he or she will communicate to the ASSIGNEE, its successors, legal representatives and assigns, any facts known to him or her respecting said invention, testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the ASSIGNEE or, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

And ASSIGNOR herby authorizes the ASSIGNEE's patent attorney to complete this form by the addition of the application number, application filing date, and attorney docket number, if necessary.

Full name of inventor: Wasim Ukra Wasim Ukra 1/31/2019					
Inventor Signature: _		Date:	, - ,		
Residence:	Canton	Michigan/Unite	ed States		
	City	State/Co	untry		
Post Office Address:	45674 Fountain View Drive Canton, Michigan 48188				

Full name of inventor: Joshua L. Walsh			
Inventor Signature:	Date:		
Residence: Ashland City	Minagonain/Haitad Ctatag		
Post Office Address: 64790 Highland Road Ashland, Wisconsin 54806			
Full name of inventor: Erik R. Andersen Enk K. Indursen Inventor Signature:	Date:		
Residence: Ann Arbor City	Michigan/United States State/Country		
Post Office Address: 2692 Georgetown Blvd Ann Arbor, Michigan 45108			
Full name of inventor: Herbert Meingast Inventor Signature: 711 Marf	1/31/2019 Date:		
Residence: Ann Arbor City			
Post Office Address: 1408 Lincoln Ann Arbor, Michigan 48104			

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ASSIGNMENT

WHEREAS.

Wasim Ukra, a citizen of the United States of America;

Joshua L. Walsh, a citizen of the United States of America;

Erik R. Andersen, a citizen of the United States of America; and

Herbert Meingast, a citizen of the United States of America;

each an	ASSIGN(DR, is ar	inventor	of the i	nvention i	in TAILGATE	WITH	MASS	AND
PERFOR	RMANCE	OPTIM	ZED RE	INFOR	CEMENT	STRUCTUR	E , for	which	ı an
application	on for a P	atent of	the United	l States	was filed	on	***************************************	, 201	9 , as
U.S. App	olication I	No							

WHEREAS, **TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.** (ASSIGNEE), with offices located at 6565 Headquarters Drive W1-3C, Plano, Texas 75024, is desirous of obtaining each inventor's entire right, title, and interest in, to and under said invention, the said application and corresponding applications worldwide;

NOW, THEREFORE, in exchange for good and valuable consideration to the inventor, the receipt and sufficiency of which is hereby acknowledged, the ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, his or her entire, worldwide right, title and interest in, to and under the invention, including the above United States non-provisional application embodying the invention or any other United States application to which priority is claimed under 35 U.S.C. § 119 and to any application to which priority is claimed, or claiming priority to the application noted above, under 35 U.S.C. § 120, including all divisions, continuations, and continuations-in-part thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries other than the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for the

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PATENT

REEL: 048383 FRAME: 0647

invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof, the same to be held and enjoyed by the ASSIGNEE, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this sale and assignment not been made;

And ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

And ASSIGNOR hereby covenants and agrees that he or she has the full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement in conflict herewith;

And ASSIGNOR hereby further covenants and agrees that he or she will communicate to the ASSIGNEE, its successors, legal representatives and assigns, any facts known to him or her respecting said invention, testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the ASSIGNEE or, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

And ASSIGNOR herby authorizes the ASSIGNEE's patent attorney to complete this form by the addition of the application number, application filing date, and attorney docket number, if necessary.

***************************************	······	
Full name of inventor:	Wasim Ukra	
Inventor Signature: _		Date:
Residence:	Canton City	Michigan/United States State/Country
Post Office Address:	45674 Fountain View Drive Canton, Michigan 48188	

Full name of inventor:	Joshua L. Walsh	
Inventor Signature: _	Joshua L. Walsh	Date:
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Full name of inventor:	Erik R. Andersen	
Inventor Signature: _		Date:
Residence:		Michigan/United States
	City	State/Country
Post Office Address:	2692 Georgetown Blvd Ann Arbor, Michigan 45108	
Full name of inventor:	Herbert Meingast	
Inventor Signature: _		Date:
Residence:	Ann Arbor	Michigan/United States
	City	State/Country
Post Office Address:	1408 Lincoln Ann Arbor, Michigan 48104	

RECORDED: 02/20/2019

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