# 504236681 02/21/2017 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4283358

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	
CONVEYING PARTY	( DATA		
		Name	Execution Date
Shuji MORIYAMA			01/16/2017
Takafumi INAGAKI			01/16/2017
Yoshinobu SOGA			01/16/2017
Yoshihiro MIZUNO			01/16/2017
Hiromitsu NITANI			01/16/2017
Yuji IWATSURU			01/16/2017
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Name: Street Address:	Toyota C 1, Toyota Toyota-s Japan 471857	ta-cho shi, Aichi 1 v Co., Ltd. ane	
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Name: Street Address: City: State/Country: Postal Code: Name: Street Address:	Toyota C 1, Toyota Toyota Japan 471857 Aisin Aw 10, Taka Fujii-cho	ta-cho shi, Aichi 1 v Co., Ltd. ane	

Property Type	Number		
Application Number:	15505342		

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PATENT REEL: 041316 FRAME: 0399

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ATTORNEY DOCKET NUMBER:	175158			
NAME OF SUBMITTER:	CYNTHIA KLINE			
SIGNATURE:	/Cynthia Kline/			
DATE SIGNED:	02/21/2017			
	This document serves as an Oath/Declaration (37 CFR 1.63).			
Total Attachments: 2 source=4743555_1#page1.tif source=4743555_1#page2.tif				

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# ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

### ASSIGNMENT

	Insert	(1)	Shuji MORIYA	MA	(2)	Takafumi INAGAKI	
(1-8)	Legal Name(s)	(3)	Yoshinobu SOC	БА	(4)	Yoshihiro MIZUNO	
	of Inventor(s)	(5)	Hiromitsu NITA	ANI	(6)	Yuji IWATSURU	
		(7)		I	(8)		
		(9)			(10)		
		(11)			(12)	· · · · ·	
		In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to					
(9)	Insert Name of Assignee	(9) TOYOTA JIDOSHA KABUSHIKI KAISHA; and AISIN AW CO., LTD.					
(10)	Insert Address of Assignce	(10)	· •		chi, 4718571 Japan; 11. Aichi, 4441192 J		
		the ent invent contin	tire right, title and ion, and in all appl uation, internation	interest for the lications for pat al, substitute an	United States of Am ent including any an	s, successors, assigns and legal representatives, erica as defined in 35 U.S.C. §100, in the d all provisional, non-provisional, divisional, a(s), and all Letters Patent, extensions, reissues vention known as	
(11)	Insert Identification such as Title, Case	(11)	VEHICULAR	TRANŜMIŜŜIO	אמ		
	Number, or Foreign Application Number	(Attor	mey Docket No.	175158	), file	ed on even date herewith or as	
(12)	Alternative	(12)	U.S. Application	Number	15/505,342		
	Identification for filed applications	filed	Februar	y 21, 2017			
to exec	<ol> <li>Each undersigned agree ute separate assignments in a</li> </ol>	es to exec	ute all papers need with such applic	essary in conne ations and pate	ction with any appli nts as the Assignee	cation and/or patent for the invention and also may deem necessary.	

2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceedingwhich may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interferenceor post-grant proceeding.

3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or

reexamination a grant of a valid United States patent to the Assignee. 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives. 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that may be

necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

#### (13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

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.

## PATENT REEL: 041316 FRAME: 0401

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In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	January 16, 2017	Inventor Signature	Shuji Moriyamon	(SEAL)
Date	January 16,2017		Fakefumi Inagehi Takalumi INAGAKI	
Date	Jonuary 16 2017	Inventor Signature	Joshinobu Soga	_ (SEAL)
Date	January 16. 2017	Inventor Signature	Yoshihiro Myimo	_ (SEAL)
Date	January 16.20/11	Inventor Signature	Hiromitu Mitani	(SEAL)
Date	January 16.2017	Inventor Signature	Yuji Iwatsuru	(SEAL)
Date	<del>.</del>	Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature	·	_ (SEAL)
Date		Inventor Signature		(SEAL)
Date		Inventor Signature		(SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Shinya Kuwabara Hiroshi Janaka Date January 16, 2017 Witness Date January 16.2017 Witness

PATENT REEL: 041316 FRAME: 0402

2