PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yasuhiro YAMAMOTO	07/27/2016
Taketo NAGASAKI	07/27/2016
Yosuke MIYAMOTO	07/27/2016
Naoyuki MIYARA	07/27/2016
Hajime TAKAGAWA	07/27/2016

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15257004

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DATE SIGNED:	09/06/2016
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Total Attachments: 2

PATENT REEL: 039637 FRAME: 0582

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> PATENT REEL: 039637 FRAME: 0583

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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)	Yasuhire YAMAMOTO	(2)	Taketo NAGASAKI
(1-8)	Legal Name(s)	(3)	Yosuke MIYAMOTO	(4)	Naoyuki MIYARA
	of Inventor(s)	(5)	Hajime TAKAGAWA	(6)	
		(7)	rden melder vertred der framsted vilk mynemerer delt mydroden byforland de indometem mindels der fram ver dyndr T	(8)	American resistance in the control of the control o
		the un		cy of which are	r good and valuable consideration paid to each of hereby acknowledged, each undersigned agrees to
(9)	Insert Name of Assignce	(9)	ТОУОТА ЛООSHA KABUSHI	KI KAISHA	
(10)	Insert Address of Assignee	(10)	(10) 1, Toyota-oho, Toyota-shi, Aichi-ken, 471-8571 Japan		
(11)	Insert Identification such as Title, Case	invent contin	ion, and in all applications for pater	nt including any reissue applicate granted on the	•
	Number, or Foreign Application Number	(Attor	ney Docket No. 17067	2 <u> </u>	filed on even date herewith or as
(12)	Alternative	(12)	U.S. Application Number	15/257,0	04
	Identification for filed applications	filed	September 6, 2	2016	
declared and gold claims (the separate assignments in a 2) Each undersigned agreed concerning any application ing forward with such interfections. Each undersigned agree provisions of the Internation 4) Each undersigned agreemation a grant of a valid University.	connection tes to execu a or patent terence or p tes to execu tional Conv tes to perfi- tited States	ute all papers necessary in connect with such applications and patent ute all papers necessary in connect for the invention and to cooperate tost-grant proceeding, ute all papers and documents and contion for Protection of Industrial form all affirmative acts which may is patent to the Assignce.	tion with any ag is as the Assign tion with any in with the Assign perform any act Property or sir be necessary to	terference or post-grant proceeding which may be nee in every way possible in obtaining evidence which may be necessary in connection with

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: 039637 FRAME: 0584 In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	July 27, 2016	Inventor Signature	Yasuhiro Yamamoto	(SEAL)
Date	July 27, 2016	Inventor Signature	Taketo Nagasalii,	(SBAL)
Date	July 27, 2016	Inventor Signature	Yosuke Miyamoto	SEAL)
Date	July, 2016	Inventor Signature	Naoyuki Miyora	SEAL)
Date	July, 2016	Inventor Signature	Hajime Jakagawa (SEAL)
neither,	This assignment should preferably be signed then it should be signed before at least two wi		lic if within the U.S.A. (b) a U.S. Consul if outside the Ure:	U.S.A. II
Date	July 27, 20/6	Witness	Natsuki Sugirjama	<u> Androna de An</u> dron

Date July 27, 2016 Witness Moshikazu Ashii