PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HAO YANG	03/31/2018
RUI GUO	03/30/2018
KENTARO OGUCHI	04/02/2018
LIU LIU	04/09/2018

RECEIVING PARTY DATA

Name:	TOYOTA JIDOSHA KABUSHIKI KAISHA
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Postal Code:	471-8571

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15949067

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	10003-07215 US
NAME OF SUBMITTER:	PAIGE M. ALSBURY
SIGNATURE:	/Paige Alsbury/`
DATE SIGNED:	04/26/2018

Total Attachments: 2

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PATENT REEL: 045645 FRAME: 0417

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to **TOYOTA JIDOSHA KABUSHIKI KAISHA**, a corporation of Japan, having a place of business at 1, **Toyota-cho**, **Toyota-shi**, **Aichi-ken**, **471-8571**, **Japan** ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

	1.	The	entire	worldwide	right,	title,	and	interest	in	all	inventions	and
impro	ovements	("SU	JBJECT	Γ MATTER	") that	are di	sclose	ed in the	pro	visi	onal applic	ation
filed	under 35	U.S.C	C. §1116	(b) or non-p	rovisio	nal app	olicati	ion filed	und	er 35	5 U.S.C. §1	11(a)
and	entitled	MA	CHIN	E LEARN	NING	ENH	ANC	ED VI	EHI	CLI	E MERG	ING
("AP	PLICATI	ON")	, which	n:								
	\square	havii	ng a fili	ng date of	April 9,	2018		and beau	ing	U.S.	. applicatio	n

	having a filing date of April 9, 2018, and bearing U.S. application
5	serial number <u>15/949,067</u> .
	The APPLICATION claims the benefit of a provisional application, filed on, now bearing U.S. application serial number

2. The entire worldwide right, title, and interest in and to:

(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

Attorney Docket # 10003-07215 US 1 of 2

PATENT REEL: 045645 FRAME: 0418 Title: MACHINE LEARNING ENHANCED VEHICLE MERGING

Filed: April 9, 2018 Application No.: 15/949,067

INVENTOR grants the attorney of record 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.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

x Hao Yang	3/31/2018	
Hao Yang ^{25F4F046A}	Date of Signature	
Nu Guo	3/30/2018	
Rui Guo	Date of Signature	
x Euntaro Ogulli	4/2/2018	
Kentaro Oguchi	Date of Signature	
DocuSigned by: Lew	4/9/2018	
Liu Liu	Date of Signature	