Mail Stop: Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	RECORDATION FOR PATENTS			MENT OF COMMERCI tent and Trademark Office
,		Att	torney Docket No.	<u>152444</u>
Please record the attached document.  Total number of pages including cover sh	eet, attachments, and docum	nent: <u>2</u>		
1. A. Name of conveying parties: 1. Mikio IWASE 2. Tomohide SUZUKI 3. Naoya JINNAI 4. Tatsuya OKISHIMA 5. Toshihiko KAMIYA  B. Additional name(s) of conveying	<u> </u>	1. AIS 10, TA ANJO 444-11 2. TO 1, TO TOYO	I address of receiving AW CO., AKANE, FUJI SHI, AICHI 192, JAPAN YOTA JIDOS KAISHA, YOTA-CHO, OTA-SHI, AIC 571, JAPAN	LTD., II-CHO, KEN, HA KABUSHIKI
3. A. Nature of conveyance:  Assignment  Security Agreement  Other  B. Execution Date: 1. March 2 2-4. March 13, 2012 and 5	<del></del>	B. Additiona	l name(s) & addres	s(es) attached? es ⊠ No
4. A. Patent Application No. 13/50	2,909	B. Patent No	.(s)	
	Additional numbers attack	hed? 🗌 Yes 🛭 No		
C. Title of Application: <u>VEHI</u>	CLE DRIVE DEVI	<u>CE</u>		
5. Name and address of party to whom concerning document should be maile	correspondence	6. Total number of	f applications and p	eatents involved: 1
Name: James A. Oliff		7. Please char total fee (37)	ge Deposit According to CFR 3.41) in the	ount No. 15-0461 the e amount of \$40.00.
Address: OLIFF & BERRIDGE P.O. Box 32085 Alexandria, VA 2232 Phone Number: 703-83 Fax Number: 703-83	0 0-4850 36-6400	Credit any over deposit account	payment or charge number 15-0461.	any underpayment to
9. Statement and signature. To the best of my knowledge and beli- original document.  James A. Oliff, Registration No. 27,0 Steven D. Jinks, Registration No. 62,7	75	_	nd any attached co	py is a true copy of the

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## **ASSIGNMENT**

	Insert	(1) 1	Mikio IWASE	(5)	Toshihiko KAMIY.	<b>A</b>		
(1-8)	Name(s)	***************************************	Fomohide SUZUKI	(6)				
	of Inventor(s)		Vaoya JINNAI	(7)				
		(4)	Tatsuya OKISHIMA	(8) _				
		la cach of th	consideration of the sum of o se undersigned, each undersig	ne dollar (\$1.00) an ned agrees to assig	nd other good and valuable n, and hereby does assign,	consideration paid to transfer and set over		
(9A)	Insert Name of First Assignee	(9A)	AISIN AW CO., LTD.					
(10A)	Insert Address of First Assignee	(10A) 10, Takane, Fujii-cho, Anjo-shi, Aichi-ken, 444-1192, JAPAN						
(9B)	Insert Name of Second Assignee	(9B)	TOYOTA JIDOSHA KABUSHIKI KAISHA					
(10B)	Insert Address of Second Assignee	(108)	1, Toyota-cho, Toyota-shi, Aichi-ken					
		471-8571, JAPAN  (hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. § 100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as						
(11)	Insert	(11)	VEHICLE DRIVE DE	VICE				
	Identification such as Title, Case Number, or Foreign							
	Application Number	(Attorney	Docket No. 152444			)		
			the undersigned has (have) e ate herewith or	xecuted an applicat	ion for patent in the Unite	d States of America		
(12)	Insert Date of Signing					•		
	of Application	(12) or	March 13, 2012	2: March 20.	2012; and April	2, 2012		
(13)	Alternative	(13) .U.	S. application Serial Number	13/502	2,909			
	Identification for				V			
	flied applications	filed _	April 19, 2012					
applicat any app the Assi claims o reexami Patents full righ and agre identific	applications for the invention, ions and patents as the Assign 2) Each undersigned agrees lication or continuation or distinction or continuation or disgace in every way possible in 3) Each undersigned agrees or provisions of the Internation 4) Each undersigned agrees ration a grant of a valid Unite 5) Each undersigned author of the United States resulting to convey the entire interest test that this assignment is bin 6) Each undersigned hereby eation that may be necessary coin of this document.	and any pa- nee may dee to execute: 'ision therecond obtaining of the execute: nal Convent to perform to perform to perform to perform to perform to perform to perform to perfo	an necessary.  all papers necessary in connect of, or any patent or reissue apyvidence and going forward wall papers and documents and the protection of Industrial affirmative acts which mattent to the Assignee.  The purpose of the polication of the polication of the polication of the passed, and that he has not executed and his heirs, successors, as firm of OLIFF & BERKIDGS, in order to comply with the next of the polication of the policat	lso to execute separation with any interplication based the rith such interferent perform any act wall Property or similarly be necessary to one U.S. Patent and agree, as Assigned ocuted, and will not signs and legal repired the power to it ules of the United S	rate assignments in connect forence which may be deci- teen, for the invention, and the the invention, and the may be necessary in car ar agreements. Indemark Office to issue a fithe entire interest, and co- execute, any agreements in resentatives. sert on this assignment an tates Patent and Trademar	ation with such lared concerning if to cooperate with connection with by reissue or any and all Letters execute that he has a conflict horewith, by further		
		_	ndersigned on the date(s) o	pposite the unders	gned name(s).			
Date		10/2	Inventor Signature	minimo	I wast	(SEAL)		
Date	No.	012	Inventor Signature	Mariti de	15 wyell	(SEAL)		
Date Date	March 13, 2	<u> </u>	Inventor Signature Inventor Signature	Tatowa	Okishina	(SEAL)		
Date	April 2 20			T. K. April 2.2012	Tropichiofor Harrison	(SEAL)		
Date			Inventor Signature		Walleton And The	(SEAL)		
Date			_ Investor Signature			(SEAL)		
Date		•	Inventor Signature			(SEAL)		
neither, Date	This assignment should prefeten it should be signed before		gned before: (a) a Notary Pub vo witnesses who also sign he Witness	ate:	S.A. (b) a U.S. Consul if or			
Date			Witness					
W-014		***************************************	LEGINGO T	-				

**PATENT** 

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