Mail Stop: Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office ttorney Docket No. 144578				
Please record the attached document. Total number of pages including cover sheet, attachments, and document: 2								
1.	 A. Name of conveying parties: 1) Shinya ASAURA 2) Tomihisa ODA 3) Shunsuke TOSHIOKA 4) Masaaki SATO B. Additional name(s) of conveying 		TOY(1, TC	and address of receiving party: OTA JIDOSHA KABUSHIKI KAISHA DYOTA-CHO OTA-SHI, AICHI 471-8571, JAPAN				
3.	A. Nature of conveyance: Assignment Security Agreement Other	Merger Change of Name	B. Additio	onal name(s) & address(cs) attached? □Yes ☑ No				
	B. Execution Date: All - Januar	y 26, 20 <u>10</u>						
4.	A. Patent Application No.(s) 12/6		B. Patent	No.(s)				
		Additional numbers attache	d? ☐ Yes 🏻	No				
	C. Title of Application: EXHAUST PURIFICATION APPARATUS FOR INTERNAL COMBUSTION ENGINE							
5.	Name and address of party to whom concerning document should be mail		6. Total number	er of applications and patents involved: 1				
	Name: James A. Oliff			charge Deposit Account No. 15-0461 the (37 CFR 3.41) in the amount of \$40.00.				
	Address: OLIFF & BERRIDGE, P P.O. Box 320850 Alexandria, VA 22: Phone Number: 703-836 Fax Number: 703-836	320-4850 6-6400		overpayment or charge any underpayment to pount number 15-0461.				
9.	Statement and signature. To the best of my knowledge and be- original document. James A. Oliff Registration No. 27,6 Matthew C. Barthalow Registration	7)75		ect and any attached copy is a true copy of the e: February 26, 2010				

PATENT REEL: 024003 FRAME: 0453

ASSIGNMENT

		(1)	Shinya ASAURA	(5)		.		
(1-8)	Insert Name(s) of Inventor(s)	(2)	Tomihisa ODA	(6)				
		(3)	Shunsuke TOSHIOKA	(7)				
		(4)	Masaaki SATO	(8)				
			In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to					
(9)	Insert Name of	(9)	TOYOTA IIDOSHA KABUS	OTA JIDOSHA KABUSHIKI KAISHA				
(10)	Insert Address of Assignee		(10) 1, Toyota-cho, Toyota-shi, Aichi 471-8571, Japan					
		(herei the er inven divisi	(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, 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 Identification such as Title, Case	(H)	EXHAUST PURIFIC	<u>ATTON APPARATI</u>	IS FOR INTERNAL			
			COMBUSTION ENGI	NE				
	Number, or Foreign Application Number		(Attorney Docket No.					
	reprication realises	-	for which the undersigned has (have) executed an application for patent in the United States of America					
			en date herewith or	••	•			
(12)	Insert Date of Signing of	(12)	•					
		on						
(T.O.)	Application	(12)	II Complianting Codel					
(13)	Alternative	(13) U.S. application Serial Number						
	Identification for filed applications	filed	i					
reexam Patents full right and agri	olication or continuation or or ignee in every way possible 3) Each undersigned agror provisions of the Internat 4) Each undersigned agrination a grant of a valid Un 5) Each undersigned aut of the United States resulting to convey the entire intereses that this assignment is b 6) Each undersigned her	division the in obtain trees to excional Control Contr	coute all papers necessary in con- hereof, or any patent or reissue a ing evidence and going forward ecute all papers and documents a evention for Protection of Indust form all affirmative acts which es patent to the Assignee, and requests the Commissioner of aid application(s) to the said As- assigned, and that he has not ex- in him and his heirs, successors, as the firm of OLIFF & BERRIDG able in order to comply with the	pplication based thereon with such interference. and perform any act which it is property or similar a may be necessary to obtain the U.S. Patent and Tracingnee, as Assignee of the ecuted, and will not executed, and legal represe E, PLC the power to inse	the for the invention, and to the may be necessary in congreements. A sin, maintain or confirm to the demark Office to issue and the entire interest, and cover the sute, any agreements in contained.	o cooperate with connection with by reissue or my and all Letters enants that he has onflict herewith,		
	In witness whereof, exec	uted by t	he undersigned on the date(s)	opposite the undersign	ed name(s).			
Date	January 26, 2	2010	Inventor Signature	Shinya	asaura	(SEAL)		
Date	January 26, 2	2010	Inventor Signature	_ Tomihisa	Oda	(SEAL)		
Date	January 26, 2	2010	Inventor Signature	Shunsuka	Toshicka	(SEAL)		
Date	January 26, 2	2010	Inventor Signature	masnaki	Satio	(SEAL)		
Date			Inventor Signature			(SEAL)		
Date			Inventor Signature	<u> </u>		(SEAL)		
Date		-	Inventor Signature			(SEAL)		
Date			Inventor Signature			(SEAL)		
If neith			be signed before: (a) a Notary P least two witnesses who also sig		. (b) a U.S. Consul if cut	side the U.S.A.		
Date	January 26,	2010	Witness	Bungo KAWAGU	CHI Bungo	Kawaguci		
Date	January 26,			Takeru SHIDA	SAWA PATENT	Dinames		

RECORDED: 02/26/2010

REEL: 024003 FRAME: 0454