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Attorney Docket No. 138444 Please record the attached original document or copy thereof. 2. A. Name and address of receiving party: Name of conveying parties: KABUSHIKI KAISHA TOYOTA CHUO (1) Tomoyuki KAYAMA (2) Kouzi BANNO KENKYUSHO 41-1, AZA YOKOMICHI, OAZA NAGAKUTE, NAGAKUTE-CHO Additional name(s) of conveying party(ies) attached? AICHI-GUN, AICHI 480-1192 ☐ Yes 🖾 No **JAPAN** B. Additional name(s) & address(es) attached? A. Nature of conveyance: ☐Yes ⊠ No \boxtimes Assignment Security Agreement ☐ Change of Name Other __ Execution Date: (1) & (2) July 29, 2008 This document is being filed together with a new application. Patent Application No.(s) Patent No.(s) ____ C. Title of Application: STRUCTURE HAVING STRONG CONTACT WITH SOLID PARTICLES, SUBSTRATE HAVING STRONG CONTACT WITH SOLID PARTICLES, AND MANUFACTURING METHODS THEREOF Name and address of party to whom correspondence Total number of applications and patents involved: $\underline{1}$ concerning document should be mailed: Name: James A. Oliff Total fee (37 CFR 3.41).....\$ 40.00 Enclosed (Check No. 209985) OLIFF & BERRIDGE, PLC Address: Credit any overpayment or charge any underpayment to P.O. Box 320850 deposit account number 15-0461. Alexandria, VA 22320-4850 Statement and signature. To the best of my knowledge and belief the foregoing information is true and correct and any attached copy is a true copy of Date: September 15, 2008 James A. Oliff Registration No. 27,075 Randi B. Isaacs Registration No. 56,046 09/16/2008 MKMYPAGH 00000068 12225116

Total number of pages including cover sheet, attachments, and document: 2

PATENT REEL: 021554 FRAME: 0576 ASSIGNMENT COMPOTITIO 15 SEP 2008

		(1)	Tomoyuki KAYAMA	(5) 4	100 11	
(1-8)	Insert Name(s) of Inventor(s)	(2)	Kouzi BANNO	(6)	∤ / క్ఞకశిషన్ మేంద్ ————————————————————————————————————	. .
		(3)		(7)		
		(4)	·			
		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 Assignee	(9)	KABUSHIKI KAISHA TOYOTA CHUO KENKYUSHO			
(10)	Insert Address of Assignee	(10)				
		(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)	STRUCTURE HAVING S	TRONG CONTACT WIT	H SOLID PARTICLES, S	JBSTRATE
_	Identification		HAVING STRONG CON METHODS THEREOF	TACT WITH SOLID PAR	TICLES, AND MANUFAC	CTURING
•	such as Title, Case Number, or Foreign		METHODS THEREOF			
	Application Number	(Attorney Docket No. 138444)				
•	for which the undersigned has (have) executed an application for patent in the United States of Americ date herewith or					
(12)	Insert Date of Signing of	(12)				
		on				
	Application					
(13)	Alternative Identification for	(13)	U.S. application Serial Num	ber	** · · · · · · · · · · · · · · · · · ·	
	filed applications	filed	September 15	, 2008		
applicati every wa provision a grant o the Unite entire int binding o	on or continuation or division the sy possible in obtaining evidence 3) Each undersigned agrees to so of the International Convention 4) Each undersigned agrees to favalid United States patent to 5) Each undersigned authorized States resulting from said appearest herein assigned, and that hen him and his heirs, successors, 6) Each undersigned hereby gecessary or desirable in order to	ereof, or and goin o execute on for Pro o perform the Assig- ces and re- lication(se has not assigns a grants the comply	ng forward with such interference all papers and documents and potection of Industrial Property or all affirmative acts which may gnee. Equests the Commissioner of the stoth to the said Assignee, as Assign executed, and will not execute, and legal representatives. Estimm of OLIFF & BERRIDGE, Powith the rules of the United State	n based thereon, for the inver- e. berform any act which may be similar agreements. be necessary to obtain, main U.S. Patent and Trademark use of the entire interest, and any agreements in conflict heads to the power to insert on the Patent and Trademark Of	ntion, and to cooperate with the necessary in connection we necessary in connection we ntain or confirm by reissue of Office to issue any and all L covenants that he has full riperewith, and agrees that this is assignment any further identice for recordation of this defice.	the Assignee in ith claims or reexamination letters Patents of ght to convey the assignment is entification that
	In witness whereof, executed	by the u	ndersigned on the date(s) opp	osite the undersigned nan	ie(s).	
Date	 /	_	Inventor Signature			(SEAL)
_	July 29,2	2008) omoyul	ci Kayama	
Date	/		Inventor Signature	Tomoyuki KAÝÁMÁ	•	(SEAL)
	July 29	2009	3	brown.	Banno	, ,
-	July 1 -		/	Kouzi BANNO	wasive	
then it sho	This assignment should preferal build be signed before at least two		gned before: (a) a Notary Public ses who also sign here:	if within the U.S.A. (b) a U.	S. Consul if outside the U.S.	A. If neither,
	71 1	\ C	Witness	\mathscr{A} .	1/	ſ
Date _	July 31,	4000	<u>S</u>	Lirono	u Xunaso	Xa_
Date _	July 31,	2008	Witness	Mariko	ri Kumaso Fizimura	-

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