PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hajime KATO	02/22/2010
Hideto WATANABE	02/22/2010
Yoshimitsu YOKOUCHI	02/22/2010
Kunio TAKEDA	02/22/2010
Masayuki TANAKA	02/22/2010

RECEIVING PARTY DATA

Name:	TOYOTA JIDOSHA KABUSHIKI KAISHA		
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12679592

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NAME OF SUBMITTER: William H. Mandir

PATENT 501127351 REEL: 024124 FRAME: 0386 \$40 00 42679

Total Attachments: 1

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PATENT REEL: 024124 FRAME: 0387

Assignment

Whereas, I/We, <u>Hajime KATO</u>, <u>Hideto WATANABE</u>, <u>Yoshimitsu YOKOUCHI</u>, <u>Kunio TAKEDA</u> and <u>Masayuki TANAKA</u> of <u>Susono-shi</u>, <u>Shizuoka-ken</u>, <u>Japan</u>, <u>Toyota-shi</u>, <u>Aichi-ken</u>, <u>Japan</u>, <u>Toyota-shi</u>, <u>Aichi-ken</u>, <u>Japan</u> and <u>Toyota-shi</u>, <u>Aichi-ken</u>, <u>Japan</u> hereinafter called assignor(s), have invented certain improvements in

AND CONTROL METHOD FOR SAME and executed an application for Letters Patent of the United States of America therefor on

Whereas, <u>TOYOTA JIDOSHA KABUSHIKI KAISHA</u> (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

				SUGHRUE MION, I			
Penns	ylvania Avenue, N'	W, Washington,	, DC 20037-323	3 to insert here in par	rentheses		
(Application number _			and	Confirmation numbe	r		
		, filed) the application		
numb	er and filing date of	said application	n when known.	,			
Date:	February 22, 2010	Hujume	/ Kate	h			
	s/ Hajime KATO						
Date:	February 22, 2010	Hideto)	Watanabe				
	s/ Hideto WATANABE						
Date:	February 22, 2010	Yoshimit	an Yokov	chù			
	s/ Yoshimitsu YOKOUCHI						
Date:	February 22, 2010	Kunio	Takeda				
s/ Kunio TAKEDA							
Date:	February 22, 2010	Masayupi	Jonaka				
	s/ 1	Masayuki TANAK	A				

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

RECORDED: 03/23/2010

PATENT REEL: 024124 FRAME: 0388