# PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2707433

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Nobuki SHINOHARA	12/20/2013
Shuichi HIRATA	12/22/2013
Takeshi OKADA	01/07/2014
Yoshikazu KAMIKAWA	01/16/2014
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## PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14169272	

REEL: 032102 FRAME: 0865

**PATENT** 

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NAME OF SUBMITTER:	ANGELA M. NOLAN
Signature:	/Angela M. Nolan/
Date:	01/31/2014

Total Attachments: 1

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PATENT REEL: 032102 FRAME: 0866

### ASSIGNMENT (Three Assignees)

TFN130329-US

	•			(Three Assignees)		11.12	, j
	Insert	(1)	N	lobuki SHINOHARA	(2)	Shuichi HIRATA	
(1-8)	Name(s)	(3)	7	akeshi OKADA	(4)	Yoshikazu KAMIKAWA	
	of Inventor(s)	(5)		azuo HIRASAWA	(6)		
		(7)			(8)		
•		the 1st	ders		hich are b	good and valuable consideration paid to creby acknowledged, each undersigned a	
(9A)	Insert Name of First Assignee	(9A	)	TOYOTA JIDOSHA KABUSHIKI I	KAISHA		
(10A)	Insert Address of First Assignee	(10/	١)	1, Toyota-cho, Toyota-shi, Aichi-ken	1, 471-857	l Japan	
(9B)	Insert Name of Second Assignee	(9B)	TOKAI KOGYO CO., LTD				
(1 <del>0</del> B)	Insert Address of Second Assignee	(101	3)	4-1 Nagane-cho, Obu-city, Aichi-pre	f., 474-86	88 JAPAN	
(9C)	Insert Name of Third Assignce			KABUSHIKI KAISHA TOYOTA JIDOSHOKKI			
(10C) Insert Address of Third Assignee (10C) 2-1, Toyoda-cho, Kariya-shi, Aichi-ken, 448-8671, Japan				671, Japan			
•		the en inven- contin	tire ion, uati	right, title and interest for the United S and in all applications for patent inclu on, international, confirmation, substit	itates of A iding any i ute and re	cirs, successors, assigns and legal represe merica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divis issue application(s), and all Letters Patent by be granted on the invention known as	he ional,
(11)	Insert Identification such as Title, Case Number, or Foreign	(11)	_	REACTOR	•		
	Application Number	(Attorney Docket No. 159795 )					
		for w	iich		n applicat	ion for patent in the United States of Ame	rica on
(12)	Insert Date of Signing						
	of Application	(12)	ОП				
(13)	Alternative	(13)	U.S	S. Application Number 1	 4/169,2	272	
	Identification for						
	filed applications	filed	_	January 31, 2014			
applicati such into claims e reexamin to issue: full right and agre- dentific	te separate assignments in cor 2) Each undersigned agrees ion or patents for the inventior reference. 3) Each undersigned agrees r provisions of the Internation 4) Each undersigned agrees action a grant of a valid Unite 5) Each undersigned authori any and all patents resulting fit to convey the entire interest es that this assignment is bind 6) Each undersigned hereby	to execute and to execute to execute to execute to perfect distance in execute to perfect execute and the execute to perfect execute to perfect execute to perfect execute to perfect execute execute to perfect execute to pe	ute: coc ute: pat req d ap ssig	It such applications and patents as the all papers necessary in connection will papers necessary in connection will perate with the Assignees in every well papers and documents and perform on for Protection of Industrial Proper all affirmative acts which may be necent to the Assignees.  Destination of the U.S. Polication (s) to the said Assignees, as need, and that he has not excuted, and goor and Assignor's heirs, successors irm of OLIFF & BERRIDGE, PLC the	e Assigne th any int ay possib n any act ty or sim essary to atent and Assignees d will not is assigns power to	erference which may be declared concerte in obtaining evidence and going forward which may be necessary in connection was lar agreements, obtain, maintain or confirm by reissue of Trademark Office and other issuing aut of the entire interest, and covenants the execute, any agreement(s) in conflict he and legal representatives.	ning any ard with vith or horities at he has
ī,	). 7a 1.512	d by th Jecanba		dersigned on the date(s) opposite t	he under	n /7 / 1	
Date ,	28(3.12.28	- CAMP		Inventor Signature	obuk	,	EAL)
Date _	December 22. 2013			Inventor Signature Ak	uìchr	Airata (s	EAL)
Date _	January, 7, 2014			Inventor Signature Fa	keshi	Okada (S	EAL)
Date .	January 16.	10/4		Inventor Signature	koshil		EAL)
Date	January 27, 20	014			U		EAL)
neither, I				o witnesses who also sign here:	~	I.S.A. (b) a U.S. Consul if outside the U	.S.A. If
Date	January 28, 3	2014		_ Witness Ko	کے غز	is agales	

PATENT REEL: 032102 FRAME: 0867

**RECORDED: 01/31/2014** 

Date

Date

January 28, 2014

January 28, 2014