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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ			
			Name	Execution Date
MASAYUKI SHIRATORI				01/17/2012
SHUICHI AIHARA				01/17/2012
MASAYUKI KATAYANAGI				01/17/2012
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State/Country:	JAPAN			
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PROPERTY NUMBERS	Total:			
Property Type			Number	
Application Number: 14		1447	4040	
Application Number.			4949	
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CORRESPONDENCE	ΑΤΑ		4949	
CORRESPONDENCE D				
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CORRESPONDENCE D Fax Number: <i>Correspondence will b</i>	e sent t	o the d; if tl		
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NAME OF SUBMITTER:	EDWARD J. CALLAGHAN			
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DATE SIGNED:	09/02/2014			
Total Attachments: 1				
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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

name and address of assignce

title of

invention

check one

JAPAN AVIATION ELECTRONICS INDUSTRY, LIMITED 21-2, Dogenzaka 1-chome, Shibuya-ku, Tokyo, Japan

(hereinafter ASSIGNEE) all right, title and interest for the United States, its territories and possessions in and to his invention relating to

in and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees that at any time upon request of said ASSIGNEE, its successors, legal representatives or assigns he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, legal representatives or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention;

Each of the undersigned hereby grants the firm of COLLARD & ROE, P.C., 1077 Northern Boulevard, Roslyn, New York 11576, U.S.A., the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

anguaki Anaton

Name: MÁSAYUKI SHIRATORI Date: January 17, 2012

names and signatures of inventors

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Name: MASAYUKI KATAYANAGI Date: January 17, 2012

RECORDED: 09/02/2014

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Name: SHUICHIAIHARA Date: January 17, 2012

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Name: OSAMU HASHIGUCHI Date: January 17, 2012 PATENT REEL: 033652 FRAME: 0162