502058102 09/12/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Makoto TOKUMARU	09/05/2012

RECEIVING PARTY DATA

Name:	Mitsubishi Electric Corporation	
Street Address:	7-3, Marunouchi 2-chome	
City:	Chiyoda-ku, Tokyo	
State/Country:	JAPAN	
Postal Code:	100-8310	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13611975

CORRESPONDENCE DATA

Fax Number: 7038367419 **Phone**: 7038366620

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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Correspondent Name: Buchanan Ingersoll & Rooney PC

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NAME OF SUBMITTER: James A. LaBarre

Total Attachments: 1

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PATENT REEL: 028946 FRAME: 0264 JF \$40.00 13611975

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar Inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) Mitsubishi Electric Corporation	r (\$1.00), and of other good and valuab	e consideration paid to the undersigned				
7-3, Marunouchi 2-chome, Chlyoda-ku, TOKYO 100-8310 JAPAN						
(hereinafter, "ASSIGNEE"), the receipt of which is her ASSIGNEE the entire and exclusive right, title and inte (Title of Invention)	eby acknowledged, the undersigned ASSIC rest to the invention entitled	SNOR hereby sells, assigns and transfers to				
ONBOARD APPARATUS AND TRAIN	N-POSITION CALCULATION M	ETHOD				
relating to international Patent Application PCT/JP executed on even date herewith or, if not so executed, w	/and/or for which application	for Letters Patent of the United States was				
(a) executed on	_; (Insert date of execution of app	lication, (f not concurrent)				
(b) filed on;	Assignee's attorney is hereldata, when known,	ry authorised to insert in (b) the specified				
and to said application and all Letters Patent(s) of the Unsubstitute, reissue or reexamination application based the including any extensions thereof (collectively, hereinafted. The ASSIGNOR agree(s), when requested by said Astwhich the ASSIGNEE may deem necessary, desimble or including in the preparation and presecution of said applicexamination, or public use proceeding, and in any fitige nots to include but not be limited to executing all papers, sworn testimony, and obtaining and producing evidence,	ercon, for the full term or terms for which theer, "said application(s) and Letters Patent(s) SSIGNEE and without charge to but at the r expedient, for securing, maintaining and c iontion(s) and the issuance of said Letters I allowed the securing which may a line for the regal proceeding which may a	e said Letters Patent(s) may be granted and y'). expense of said ASSIGNEE, to do all acts inforcing protection for said invention, 'alent(s), in any interference, reissue,				
IN WITNESS WHEREOF, the undersigned inventor		(s).				
1) Makoto Tohumaru	Makoto TOKUMARU	September 5, 2012				
(Signature)	(Type Name)	(Date)				
(Signature)	(Type Name)	(Date)				
(Signature)	(Type Name)	(Date)				
(Signature)	(Type Name)	(Date)				
(Signature)	(Type Name)	(Date)				

PATENT REEL: 028946 FRAME: 0265

RECORDED: 09/12/2012