PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YOSHINORI NAKANISHI	05/13/2014
TSUYOSHI KAWAGUCHI	05/13/2014
MAMORU SEKIYA	05/13/2014

RECEIVING PARTY DATA

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State/Country:	JAPAN	
Postal Code:	572-0028	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14295658

CORRESPONDENCE DATA

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

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	ONKYP0198US
NAME OF SUBMITTER:	MARK D. SARALINO
SIGNATURE:	/Mark D. Saralino/
DATE SIGNED:	06/04/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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> **PATENT REEL: 033028 FRAME: 0466** 502837472

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PATENT REEL: 033028 FRAME: 0467

Title: As a belo This decla (a) (b) The abov	BINED DECLARATION AND ASSIGNMEN (ORIGINAL, DESIGN, I		
As a belo This decla (a) _ (b) _ The abov		NATIONAL STAGE OF PCT)	A SHEET (37 CFR 1.76)
This decla (a) _ (b) _ The abov	PULSE SYNTHESIZING CIRCUIT		
This decla (a) _ (b) _ The abov	I. DEG	CLARATION	
(a) _ (b) _ The abov	ow named inventor or joint inventor, I hereb	by declare that:	
(b)	aration is directed to:		
(b)	X the attached application, or		
	X United States application or PCT int filed on 04 June 2014	ernational application number	14/295,658
l believe t	re-identified application was made or autho	orized by me.	
~~	that I am the original inventor or an origina	l joint inventor of a claimed inv	ention in the application.
hereby s	state that I have reviewed and understand	the contents of the above-iden	ntified application.
hereby a	acknowledge the duty to disclose to the U. material to patentability as defined in 37 C	S. Patent and Trademark Offic F.R. §1.56.	e all information known to
	acknowledge that any willful false stateme line or imprisonment of not more than five		punishable under 18 USC
	PRIOF	RITY CLAIM	
application east one foreign ap at least on	claim foreign priority benefits under on(s) for patent or inventor's certificate of country other than the United States of Application(s) for patent or inventor's certifine country other than the United States of the before that of the application(s) of which	r of any PCT international app America listed below and have cate or any PCT international f America filed by me on the sa	plication(s) designating at also identified below any application(s) designating
c)	_ no such application have been filed.		
d) <u>X</u>	such applications have been filed as foll	ows.	
	EARLIEST FOREIGN APPLICATION (6 MONTHS FOR DESIGN) PI	N(S), IF ANY FILED WITHIN 1: RIOR TO THIS U.S. APPLICA	2 MONTHS TION
CC	DUNTRY APPLICATION NUMBE	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC §119
	JP 2013-123048	11 June 2013	X Yes No
			Yes No No No

09/01/2012

REEL: 033028 FRAME: 0468

II. ASSIGNMENT

As a below named assignor, for good and valuable consideration acknowledged and received I hereby sell and assign my entire worldwide right, title and interest in the application and the invention(s), so far as concerns the United States and the Territories and Possessions thereof to:

ASSIGNEE:

Onkyo Corporation 2-1, Nisshin-cho, Neyagawa-shi Osaka 572-0028 Japan

Including:

any and all related patent application(s) in the United States, including continuations, continuations-in-part, divisionals, conversions, renewals, substitutes, reissues, reexaminations, extensions, non-provisional applications, and other applications based in whole or in part upon the invention(s) or upon the application(s);

any and all Letters Patent, renewals, reissues, reexamination certificates and extensions of Letters Patent granted for the invention(s) or upon the application(s); and

every priority right that is or may be predicated upon or arise from the invention(s), the application(s) and the Letters Patent.

I additionally authorize the Assignee to file patent applications in my or the Assignee's name for Letters Patent in any country (by international convention, treaty or otherwise), to be held and enjoyed by the Assignee, its successors and assigns, to the full end of the term or terms for which Letters Patent respectively may be granted, reissued, reexamined or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this Assignment and transfer not been made.

I hereby covenant that I have the full right to convey the entire interests herein assigned, and that I have not executed and will not execute any agreement in conflict herewith and that such assigned rights are not encumbered by any grant, license or other right previously given.

I agree that each time a request is made, and without undue delay, I will execute and deliver all such papers as may be necessary or desirable to perfect the title in and to the invention(s), the application(s) and the Letters Patent, to the Assignee, its successors or assigns.

I agree, without undue delay, to undertake all reasonable acts to assure that said invention(s), patent application(s) and Letters Patent shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly: to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, declarations, powers of attorney, assignments, invention disclaimers and lawful affidavits in form and substance which may be requested by the Assignee; to furnish the Assignee with all facts relating to said invention(s) or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said invention(s); and to testify in any proceedings relating to said invention(s), patent application(s) and Letters Patent.

I authorize the patent attorney of record and/or having power of attorney in the U.S. patent application identified above to insert the serial number and filing date information for the patent application in the appropriate spaces in this document when that information becomes available.

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09/01/2012

oshinori NAKAI Date:	T
Date:	May 13. 2014
suyoshi KAWA	GUCHI
Date:	Hay 13.2014
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lamoru SEKIYA	
Date:	May 18, 20/4
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