#### PATENT ASSIGNMENT

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 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Hiroyuki Kobayashi	03/10/2010

#### **RECEIVING PARTY DATA**

Name:	Kabushiki Kaisha Toshiba
Street Address:	1-1, Shibaura 1-chome, Minato-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	105-8001

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12725014

## CORRESPONDENCE DATA

Fax Number: (216)696-8731

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 2166968730

Email: jlydic@thepatentattorneys.com

Correspondent Name: Gregory Turocy

Address Line 1: 57th Floor, Key Tower, 127 Public Square

Address Line 4: Cleveland, OHIO 44114

ATTORNEY DOCKET NUMBER: SAKAP264US

NAME OF SUBMITTER: Gregory Turocy

Total Attachments: 1

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PATENT REEL: 024088 FRAME: 0154

# U.S. ASSIGNMENT

Kabushiki Kaisha Toshiba			
1-1, Shibaura 1-chome, Minato-ku,	Tokyo 105-8001 Japan		
	Annual to the second of the se		
(hereinafter, "ASSIGNEE"), the receipt of which i ASSIGNEE the entire and exclusive right, title and Title of Invention)	is hereby acknowledged, the undersigned ASSI d interest to the invention entitled	GNOR heroby sells, assigns and transfers to	
LOCAL OSCILLATOR			
relating to International Patent Application PCT	C/FD 1/ C 11/		
was executed on even date herewith or, if not so ex	teculed, was:	ion for Letters Patent of the United States	
(a) executed on	; (Insert date of execution of ap	plication, if not concurrent)	
(b) filed on March 16, 2010			
(b) filed on March 16, 2010 Scriet No. 12/725,014	Assignee's attorney is here data, when known.	Assignee's attorney is hereby authorized to insert in (b) the specified	
	warm mountains.		
nd to said application and all Letters Patent(s) of t abstitute, reissue or reexamination application base acluding any extensions thereof (collectively, here	od thereon, for the full term or terms for which t inafter, "said application(s) and Letters Patent(	he said Letters Patent(s) may be granted and s)").	
The ASSIGNOR agree(s), when requested by sa thich the ASSIGNEE may deem necessary, desiral cluding in the preparation and prosecution of said examination, or public use proceeding, and in any sit to include but not be limited to executing all pa worn testimony, and obtaining and producing evid	ble or expedient, for securing, maintaining and I application(s) and the issuance of said Letters litigation or other legal proceeding which may: upers, including separate assignments and deels	onforcing protection for said invention, Patent(s), in any interference, reissue,	
	entor(s) has (have) affixed his/her/their signatur	·e(s).	
IN WITNESS WHEREOF, the undersigned inve			
•	Hirovuki KOBAYASHI	11. 1 12 701	
IN WITNESS WHEREOF, the undersigned inve	Hiroyuki KOBAYASHI (Type Name)	March 10, 2010	
Hiroguni Kobayashi	(A)PUTTANIO)	Morch (0, 2010 (Date)	
0	Hiroyuki KOBAYASHI (Type Name) (Type Name)	Morch 10, 2010 (Date)	
Hiroguni Kobayashi	(Type Name)	(Date)	
Hirogruhi Kobayashi (Signature) (Signature)	(A)PUTTANIO)		

**RECORDED: 03/16/2010** 

PATENT REEL: 024088 FRAME: 0155